AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

EDMC#:	0064670
SECTION:	2 OF 3
DOCUMENT #:	DOE/RL-2005-23, Rev 000
TITLE:	CY 2004 Hanford Site Mixed Waste Land Disposal Restrictions Report

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-01 - LDR Compliant Waste

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

WSRds: BLS, EH3, EHM, EHR, EHB, EHD, H3L, EHS, 903, 930, 931; Waste with WSRd BLS consists of soils (dirt, sand, gravel, rocks, etc.) excavated from the various waste tank farms. The waste was incidentally contaminated with tank waste; therefore, the waste is designated with F001 through F005 based on the "contained-in" policy. The waste is typically packaged in drums and boxes. Remaining WSRds include waste that consists of soils (dirt, sand, gravel, rocks, etc.), treated debris, other particulates, and solidified liquids. All waste forms are anticipated to contain LDR compliant levels of dangerous waste constituents. Subject waste also includes the currently stored inventory of LDR compliant wastes and the forecast LDR compliant waste that comes directly from the generator (e.g., debris waste items, deactivated waste, stabilized waste, and waste meeting LDRs as generated).

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 207.110

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	30.890		
2006	700.520		
2007	50.400		
2008	45.400		
2009	30.200		
Total	857.410		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

LDR REPORT TREATABILITY GROUP DATA SHEET

This waste is a general category based on dangerous waste characteristics, hence, the radiological characteristics are expected to vary greatly. However, there is high confidence that the waste is MLLW. The LDR compliant treatability group will consist of both RH and CH waste packages, however, the majority of the waste will be CH. Category 3 waste will either meet radiological stabilization requirements as delivered to the disposal unit, or it will be radiologically stabilized in the unit by means of placing the waste inside of a high integrity container (HIC).

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☐ Liquid ☒ Semi-solid ☒ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste with WSRd BLS has a medium confidence level. The waste has been verified through the Backlog Waste Program per the Backlog Waste Analysis Plan (BWAP). A contained-in determination was approved for the subject waste by Ecology. The waste is acceptable for disposal into the LLBGs after it is screened for PCB constituents and debris type items are removed from the waste. Waste with numerical WSRds (e.g., 930, etc.) meet the requirements of the Waste Specification System and has a high confidence level. If some of the waste does not meet direct disposal criteria (i.e., does not meet all LDRs), the waste will be reassigned into the appropriate waste stream that requires treatment (e.g., MLLW-02 through -10). This waste stream can consist of many different physical matrix characteristic types since it is based on LDR requirements for disposal of a dangerous waste. Although this waste meets RCRA and state LDRs, it may not meet all LLBG disposal criteria (i.e., void space requirements) and may require repackaging or void fill prior to disposal.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
	See Footnote (1)				

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

(1) Subject treatability group has been assigned those waste codes that are listed on the current CWC and/or LLBG Part A Form 3. Individual waste packages assigned to the treatability group may have one or more of these waste codes. The waste meets (or will meet) the treatment standards listed in 40 CFR 268.40, 40 CFR 268.45, and/or WAC 173-303-140.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

☒ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☐ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☒ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☐ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☐ Medium ☒ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Confidence level for this waste treatability group is high. Waste with WSRd BLS has been verified through the backlog waste program per the Backlog Waste Analysis Plan (BWAP). A contained-in determination was approved for the subject waste by Ecology. The waste is acceptable for disposal into the LLBGs. The other waste has been verified via the WSS and is awaiting disposal. For waste with WSRd BLS, all hazardous constituents are below the LDR limits. Furthermore, a "contained-in" determination was granted by Ecology to allow disposal of the subject waste into the LLBGs. Waste with numerical WSRds (e.g., 930, etc.) meets all applicable LDR treatment standards including applicable UHCs. Treatment per 40 CFR 268.40, 40 CFR 268.45 and/or WAC 173-303-140.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☐ Yes ☒ No

If yes, provide details: N/A

LDR REPORT TREATABILITY GROUP DATA SHEET

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☒ No treatment required (skip to Section 5.0)

☐ Treating or plan to treat on site

☐ Treating or plan to treat off site

☐ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

N/A

4.4 Treatment schedule information:

N/A

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

N/A

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☐ Yes ☐ No ☐ Unknown

If yes, describe: N/A

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

Although "no" is marked in Section 4.1, some of this waste stream is treated at the generators facilities under treatment-by-generator (TBG) provisions prior to receipt at the LLBG mixed waste trenches. Deactivation, stabilization and alternative debris treatment technologies are used. A contained-in determination for WSRd BLS, the backlog soils, allows a portion of this waste stream to be disposed of in the LLBGs. A delisting modification for the ETF unit was submitted to Ecology in November 1998 and then revised again in December 2001 and went out for public comment in August 2004. This delisting modification if approved would allow for the disposal of additional F coded waste, and of P and U coded waste into the LLBG mixed waste trenches.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

LDR REPORT TREATABILITY GROUP DATA SHEET

Waste in this waste treatability group will be disposed of in mixed waste trenches or appropriate disposal located on the Hanford Site. The majority of the existing stored inventory of this waste treatability group is designated with P and U waste codes and came from the closure of the 183-H Basins. This waste cannot currently be disposed of until a disposition pathway is achieved for the F039 leachate that would be generated from the disposal unit.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 200 ETF **Waste Stream:** RCRA Powder, LDR Compliant

Treatabilitiy Group Name: MLLW-01 - LDR Compliant Waste

I.2 **Applicable profile number(s) for this waste stream:**

2LEF-930/931-0001

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The ETF process generates secondary waste (dry powder) from the treatment of dangerous wastewaters from various generators on the Hanford Site.

1.3.2 **History of how and where the waste was/is generated:**

Secondary waste (dry powder) generated from the treatment of wastewater through the ETF. The contaminants are destroyed or removed from the wastewater and dried to powder.

1.3.3 **Source of the regulated constituents:**

Wastewaters from various generators on the Hanford Site, for example, 242-A Evaporator process condensate, LLBG mixed waste trench leachate, WSCF laboratory wastewater, etc.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Wastewaters are characterized using analytical data and process knowledge in accordance with the RCRA Waste Analysis Plan for LERF/ETF.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

The waste was in the process of being generated.

2.1.2 **Timeframe when waste was placed to storage?**

September/October of 2004 for current inventory. This type waste has been generated at this location since 1995.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
ETF	36 drums

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 7.500

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☐ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	30.000		
2006	700.000		
2007	50.000		
2008	45.000		
2009	30.000		
Total	855.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-004	10/17/2000

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Characterization required as normal process when a cradle-to-grave process is being implemented.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No assessment planned at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

The ETF removes contaminants from wastewater and dries them to a powder. The wastewaters are segregated and processed to minimize the generation of secondary waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** LDR Compliant

Treatabilitiy Group Name: MLLW-01 - LDR Compliant Waste

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Backlog soils from around the waste tank farms, debris, particulates, and solidified liquids. All waste forms contain LDR compliant levels of dangerous waste constituents.

1.3.2 History of how and where the waste was/is generated:

Some of subject waste was generated in the early 1990s through various operation activities at the 200 East and 200 West DST and SST Systems. Other portion of subject waste was generated and put into CWC storage in boxes and drums prior to the implementation of the WSS.

1.3.3 Source of the regulated constituents:

Portions of the waste were incidentally contaminated with tank waste. Other waste is equipment from operations and maintenance of DST/SST systems.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, process knowledge.

1.3.5 Additional notes:

The backlog soils were selected as a direct disposal waste stream per DOE/RL/95-35, "Direct Disposal Team Report" (RL 1995a). The general past-practice and WSS LDR compliant waste is anticipated not to be restricted by LDRs; however, the waste will continue to be managed under dangerous waste regulation and be directly disposed of into a RCRA Subtitle-C or equivelent disposal cell located on the Hanford Site.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Waste was placed in boxes and drums by generators.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

Waste storage at CWC began in 1988 and continues.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	426
N/A	N/A
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 196.980

Date of inventory values: 12/29/2004

Comments on waste inventory:

Inventory data based on SWITS under WSRds 903, 930, 931 and BLS.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20-year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Should further treatment be required due to changing regulations, waste will be re-characterized for most efficient use of resources. Characterization will be performed as necessary to support the results of the active M-91 TPA negotiations.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

Should further characterization be required due to changing regulations, waste will be re-characterized for most efficient use of resources. Characterization will be performed as necessary to support the results of the active M-91 TPA negotiations.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: PFP **Waste Stream:** Lab Chemicals/Reagents, LDR Compliant

Treatabilitiy Group Name: MLLW-01 - LDR Compliant Waste

1.2 Applicable profile number(s) for this waste stream:

PFPX-930-0001

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Spent or expired lab chemicals/reagents. Federal and State LDR compliant waste that does not require stabilization.

1.3.2 History of how and where the waste was/is generated:

Laboratory operations.

1.3.3 Source of the regulated constituents:

Intrinsically hazardous.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Chemical product. When declared as waste, it is either placed into a SAA or placed in a 90-day accumulation area. Not stored at this location. Transferred to the LLBG mixed waste trench.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

☐ Current Location ☐ CWC ☐ DST

☐ Other Area(s) (list):

☒ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.690		
2006	0.320		
2007	0.200		
2008	0.200		
2009	0.000		
Total	1.410		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. # 01-A&E-129	09/13/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be charcterized after being declared waste. No commitment is necessary for the characterization needs on this MLLW.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: CY 2001

If yes, provide document number or other identification:

PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter# M2100-02-016.

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP routinely evaluates the chemicals in the labs to ensure that there is an identified use for them. Chemicals with no justifiable use will be either recycled, if possible, or discarded as waste and not reordered.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** T Plant Complex **Waste Stream:** LDR Compliant

Treatabilitiy Group Name: MLLW-01 - LDR Compliant Waste

1.2 **Applicable profile number(s) for this waste stream:**

WSRd BLS, and 930.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Expired/excess chemicals from 221-T canyon cleanout, materials generated during routine maintenance and operations, and contaminated soil. Federal and state LDR compliant waste that does not require additional treatment.

1.3.2 **History of how and where the waste was/is generated:**

This waste is generated as a result of cleanout activities from the 221-T Canyon and from routine maintenance and operations. In addition, this waste is generated from various onsite locations and by offsite generators.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☒ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	T Plant Complex has a combination of covered and uncovered storage areas to support various waste management operations/activities. Depending upon the type of waste being managed, the waste can be stored in covered or uncovered storage locations. As an example: If the waste is bulk liquid, this waste might be stored in a storage building equipped with HVAC to prevent freezing.	

2.1.1 **How was the waste managed prior to storage?**

Generated by various onsite and offsite generators.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

1993 to present.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant	5

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 1.380

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory fluctuates as T Plant Complex generates waste, or perform waste treatment/verification for onsite/offsite generators.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☒ Other Area(s) (list): e.g., LLBG mixed waste trenches.

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Document Number	Date
01- A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter 2005.

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

Projection volumes for this waste stream are expected to fluctuate as 221-T Canyon cleanout continues as well as from maintenance and other operation activities. The generation rates will be updated as necessary.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See Section 3.3.3 for discussion on waste minimization.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

This waste will be generated as part of cleanup activities from the 221-T, maintenance, and operations. In addition, this waste is generated from various onsite and offsite generators. Waste minimization techniques are incorporated to the extent practical at the T Plant Complex including segregation of low-level waste from mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year-by-year basis. The T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WRAP **Waste Stream:** LDR Compliant

Treatabilitiy Group Name: MLLW-01 - LDR Compliant Waste

1.2 Applicable profile number(s) for this waste stream:

WSRd 931-CR; 930-CR

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Can consist of soils, debris, particulates, etc. with LDR compliant levels of hazardous constituents, and/or state-only dangerous constituents. This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

Waste at WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repackaging mission.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	N/A	

2.1.1 How was the waste managed prior to storage?

Waste was repackaged at WRAP.

2.1.2 Timeframe when waste was placed to storage?

MLLW at WRAP is recently generated waste that is being verified for waste shipment.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2404WB	5
2336W	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 1.250

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory is not expected to be generated in the future. Inventory based on Drum Management System (DMS) printout dated 12/31/2003.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When Is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. To minimize the generation of mixed waste, WRAP actively seeks nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and is being directly disposed of, no additional waste minimization activities are planned.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for non-debris waste that contains hazardous constituents that either requires non-thermal treatment (specified technology) or non-thermal treatment is BDAT for meeting the applicable LDR treatment standards (concentration-based standards). The applicable WSRds for this treatability group are: ALI, EH4, EHP, H3C, H3G, H3M, H3S, IXI, LPI, PAI, SSA, 420, 421, 422, 425, 426, 428, 506, 507, 521, 523, 524, 525, 900, 901, 902, 904. This waste consists of many different inorganic solids (e.g., particulates, absorbed liquids, sludges, resin beads, soils) and lab packs that are contaminated with regulated metals and other inorganics. This waste treatability group does not include hazardous debris other than incidental debris material commingled with the non-debris. Mixed waste generated from closure of the 183-H Solar Evaporation Basins is planned for treatment at ERDF. The volume of waste that will be treated at ERDF is included in storage inventory being reported on the location-specific data sheet for CWC under treatability group MLLW-02.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 920.160

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	19.290		
2006	13.840		
2007	14.400		
2008	20.300		
2009	12.300		
Total	80.130		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste characteristics, the radiological characteristics are expected to vary greatly. There is a high level of confidence that this waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☒ Liquid ☒ Semi-solid ☐ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste received under the Waste Specification System (WSS) has a high confidence level. Waste received prior to the WSS has a medium to low confidence level and will require matrix characterization assessment prior to treatment and disposal. If, during the assessment process, it is determined that some of the waste does not meet the MLLW-02 waste stream description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-03 through -10). The majority of this waste is from the closure of the 183-H Solar Evaporation Basins which has been characterized extensively.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	DEACT and meet 40 CFR 268.48
D002	Corrosive	Corrosive Charac.	***	***	DEACT and meet 40 CFR 268.48
D003	Reactive	Reactive Cyanides	***	***	590/30 mg/kg
D004	TC-Arsenic	N/A	***	***	5.0 mg/l TCLP and meet 40 CFR 268.48
D005	TC-Barium	N/A	***	***	21 mg/l TCLP and meet 40 CFR 268.48
D006	TC-Cadmium	Cadmium Charac.	***	***	0.11 mg/l TCLP and meet 40 CFR 268.48
D007	TC-Chromium	N/A	***	***	0.60 mg/l TCLP and meet 40 CFR 268.48
D008	TC-Lead	Lead Charac.	***	***	0.75 mg/l TCLP and meet 40 CFR 268.48
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	0.20 mg/l TCLP and meet 40 CFR 268.48
D010	TC-Selenium	N/A	***	***	5.7 mg/l TCLP and meet 40 CFR 268.48
D011	TC-Silver	N/A	***	***	0.14 mg/l TCLP and meet 40 CFR 268.48
D016	2,4 D(2,4-Dichlorophenoxy acetic acid) Char.	N/A	***	***	10 and meet 268.48
D018	Benzene	N/A	***	***	10 and meet 268.48
D019	Carbon tetrachloride	N/A	***	***	6.0 and meet 268.48
D022	Chloroform	N/A	***	***	6.0 and meet 268.48
D028	1,2-Dichloroethane	N/A	***	***	6.0 and meet 268.48
D029	1,1-Dichloroethylene	N/A	***	***	6.0 and meet 268.48
D030	2,4- Dinitrotoluene	N/A	***	***	140 and meet 268.48
D033	Hexachlorobutadiene	N/A	***	***	5.6 and meet 268.48
D035	Methy Ethyl Ketone	N/A	***	***	36 and meet 268.48
D036	Nitrobenzene	N/A	***	***	14 and meet 268.48
D038	Pyridine	N/A	***	***	16 and meet 268.48
D039	Tetra chloroethylene	N/A	***	***	6.0 and meet 268.48
D040	Trichloroethylene	N/A	***	***	6.0 and meet 268.48
D043	Vinyl Chloride	N/A	***	***	6.0 and meet 268.48
F001	1,1,1-Trichloroethane	Spent Solvent	<6.0 mg/kg	***	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	<30 mg/kg	***	30 mg/kg
F003	Acetone & Hexone	Spent Solvent	<160 mg/kg	***	160 mg/kg

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
F004	o-Cresol & p-Cresol	Spent Solvent	<5.6 mg/kg	***	5.6 mg/kg
F005	Methyl Ethyl Ketone	Spent Solvent	<36 mg/kg	***	36 mg/kg
P012	Arsenic Trioxide	N/A	***	***	5.0 mg/l TCLP
P024	p-Chloroaniline	N/A	***	***	16
P029	Copper Cyanide	N/A	10/0.32 mg/kg	Analysis	590/30 mg/kg
P030	Cyanides	N/A	10/0.32 mg/kg	Analysis	590/30 mg/kg
P098	Potassium Cyanide	N/A	10/0.32 mg/kg	Analysis	590/30 mg/kg
P105	Sodium azide	N/A	***	***	CHOXD, CHRED, OR CMBST
P106	Sodium Cyanide	N/A	10/0.32 mg/kg	Analysis	590/30 mg/kg
P120	Vanadium Pentoxide	N/A	32.3 mg/kg (max)	Analysis	STABL
U002	Acetone	N/A	***	***	160
U031	n-butyl alcohol	N/A	***	***	2.6
U108	1,4-Dioxane	N/A	***	***	CMBST or 170(alternate standard)
U123	Formic Acid (Formate)	N/A	366 mg/kg (max)	Analysis	STABL (equivalency)
U133	hydrazine	N/A	***	***	CHOXD, CHRED, OR CMBST
U154	Methanol	N/A	***	***	CMBST OR .0.75 mg/l TCLP
U159	Methyl Ethyl Ketone	N/A	***	***	36
U161	Methyl Isobutyl Ketone	N/A	***	***	33
U162	Methyl methacrylate	N/A	***	***	160
U169	Nitrobenzene	N/A	***	***	14
U217	Thallium (I) nitrate	N/A	***	***	RTHRM; OR STABL
U226	1,1,1-Trichloroethane	N/A	***	***	6.0
U239	Xylene	N/A	***	***	30
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	<=2.5 pH	Process Knowledge	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	None (1)
WT02	Toxic, DW	N/A	***	***	N/A

LDR REPORT TREATABILITY GROUP DATA SHEET

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

***The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHCs to be determined on a per-package basis during waste receipt, from characterization activities, or when the waste is sent for treatment.
(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050 (2)

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☒ List: F001-F005 (Tank Farm contacted waste); P030, P098, P106 and P029 (183H Basin Waste).

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☐ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☐ Yes ☒ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☐ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☐ < 50 ppm ☐ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Waste received under the Waste Specification System (WSS) has a high confidence level. With the exception of the 183-H waste that was verified to the WSS during FY1998, waste received prior to establishment of the WSS has a medium to low confidence level and may require characterization verifications prior to treatment and disposal. If, during the verification process, it is determined that some of the waste does not meet the MLLW-02 waste stream description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-03 through -10).

LDR REPORT TREATABILITY GROUP DATA SHEET

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☐ Yes ☒ No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☒ Treating or plan to treat on site

☒ Treating or plan to treat off site

☒ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Future characterization will determine treatment method, facility, and schedule for a portion of the subject waste. Commercial stabilization is a targeted primary treatment technology for subject waste. Treatment will be performed by means of onsite and offsite commercial treatment contracts, and/or by onsite treatment units (mainly T Plant Complex). The onsite treatment capability for this type of waste is very limited at this time (i.e., less than 10 cubic meters per year). Additional onsite treatment capacity or offsite contracts will need to be obtained to meet Hanford's treatment needs.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☒ Yes ☐ No ☐ Unknown

If yes, describe: To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

LDR REPORT TREATABILITY GROUP DATA SHEET

Obtained a treatability equivalency from EPA/Ecology to allow stabilization in lieu of combustion treatment for formic acid (U123) for waste originating from the closure of the 183-H Solar Evaporation Basins.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 200 LEF **Waste Stream:** RCRA Powder, Inorganic Non-Debris Non-LDR Compliant

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

2LEF-525-0001

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Secondary waste (dry powder) generated during treatment of RCRA wastewaters from various generators on the Hanford Site.

1.3.2 **History of how and where the waste was/is generated:**

Generated from the treatment of wastewater through ETF. The contaminants are destroyed or removed from the wastewater and dried to powder.

1.3.3 **Source of the regulated constituents:**

Wastewaters from various generators on the Hanford Site, for example, 242-A Evaporator Process Condensate, Mixed Waste Burial Trench leachate, WSCF laboratory wastewater, etc.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Wastewaters are characterized using analytical data and process knowledge in accordance with the RCRA waste analysis plan for LERF/ETF.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Waste was in the process of being generated.

2.1.2 **Timeframe when waste was placed to storage?**

02/02 for current inventory.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
ETF	1 drum

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.200

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-004	10/17/2000

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Sampling and analysis is performed to determine compliance with treatability standard on a case-by-case basis. No commitment is necessary because characterization occurs as part of normal waste transfer activities. CWC will be required to perform any further sampling and analysis after treament.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No assessment planned at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

The ETF destroys or removes contaminants from wastewater and dries them to powder. The wastewaters are segregated and processed to minimize the generation of secondary wastes which require further treatment.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 324 **Waste Stream:** Inorganic Non-Debris Discarded Chemical/Waste

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded/unused chemical products or waste.

1.3.2 History of how and where the waste was/is generated:

Chemical products were used for maintenance or clean-up activities.

1.3.3 Source of the regulated constituents:

In the chemical products.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.600		
2006	1.200		
2007	2.400		
2008	7.400		
2009	2.100		
Total	13.700		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is achieved by substitution of less hazardous materials, waste segregation, and disposal of hazardous waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation planning

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 327 **Waste Stream:** Inorganic Non-Debris Discarded Chemical/Waste

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded/unused chemical products or waste.

1.3.2 History of how and where the waste was/is generated:

Chemical products were used for maintenance or clean-up activities.

1.3.3 Source of the regulated constituents:

In the chemical products.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	1.000		
2006	1.600		
2007	2.000		
2008	1.600		
2009	2.000		
Total	8.200		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is achieved by substitution of less hazardous materials, waste segregation and disposal of hazardous waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** Inorganic Non-Debris Solids and Labpacks

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

This waste stream consists of many different inorganic solids including particulates, absorbed liquids, sludges, labpacks, paint waste, salt waste, etc. This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and by offsite generators. The inventory was primarily from the closure of the 183-H Solar Basins.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	3277

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 919.280

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on the inventory residing at CWC as reported in SWITS for WSRds 420, 421, 422, 425, 428, 500, 506, 507, 521, 523, 524, 525, 605, 607, 625, 900, 901, 902, 904, ALI, DBR, EH4, EHP, EPB, H3D, H3M, IXI, LPI, PAI, PFD, SSA, and WDD.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20-year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

N/A

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected waste generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Laboratory Chemical Wastes, Inorganic Non-Debris

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

PFPX-420-0001, PFPX-428-0001, PFPX-428-0002, PFPX-421-0001.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Spent expired chemicals or lab generated waste. Acidic liquids, caustic liquids, oxidizer liquids, oxidizer solids, and State only inorganic solid acid waste.

1.3.2 **History of how and where the waste was/is generated:**

Laboratory operations.

1.3.3 **Source of the regulated constituents:**

Intrinsically hazardous.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is placed directly into SAA area upon generation.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	11.890		
2006	5.440		
2007	3.400		
2008	3.400		
2009	0.000		
Total	24.130		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be characterized before transfer to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: CY2001

If yes, provide document number or other identification:

PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter #M2100-02-016

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP routinely evaluates the chemicals in the labs to ensure that there is an identified use for them. Chemicals with no justifiable use will be either recycled, if possible, or discarded as waste and not reordered.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex **Waste Stream:** Inorganic Non-Debris

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

WSRd: 420.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Mixed waste solids, sorbed liquids and soils, subcategory - other solids (non-thermal treatment). This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and/or process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☒ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	N/A	

2.1.1 How was the waste managed prior to storage?

Waste generated at numerous onsite locations and by offsite generators.

2.1.2 Timeframe when waste was placed to storage?

1994 to present.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	1

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.470

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory will fluctuate as T Plant Complex generates or performs treatment/verification of onsite/offsite generators waste.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005.

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See Section 3.3.3 for discussion on waste minimization.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. To minimize the generation of mixed waste, T Plant actively seeks nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year-by-year basis. T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WRAP **Waste Stream:** Inorganic Non-Debris

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

WSRd 420-CR

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, resins, and soils) and labpacks that are contaminated with inorganic regulated dangerous waste constituents. This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

Various onsite generators

1.3.3 Source of the regulated constituents:

See 1.3.1 & 1.3.2

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge

1.3.5 Additional notes:

N/A

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Waste was generated and packaged at various Hanford generating facilities.

2.1.2 Timeframe when waste was placed to storage?

Most MLLW at WRAP is recently generated waste that is being verified as part of the waste acceptance process.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2404WB	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.210

Date of inventory values: 12/31/2004

Comments on waste inventory:

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Through source reduction, waste minimization practices are being employed to ensure that the generation of this stream is being minimized. Additional waste is not expected to be generated in the future.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and will be treated for directly disposal, no additional waste minimization activities are planned. WRAP does not generate this waste stream, rather will receive waste for further processing from other generating facilities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WSCF **Waste Stream:** Inorganic Non-Debris

Treatabilitiy Group Name: MLLW-02 - Inorganic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

WSCF-505-0003

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The inorganic non-debris waste stream, sodium sulfate, is generated during analytical processes in the laboratory. Additionally, a silver zeolite waste stream will be managed under the same treatability group as the sodium sulfate waste stream.

1.3.2 History of how and where the waste was/is generated:

The sodium sulfate waste stream is a product of an analytical process within the laboratory. Sodium sulfate is generated as a result of analytical methods that utilize accelerated solvent extraction and liquid/liquid extractions. The silver zeolite waste stream is produced as a result of Gamma Energy Analysis (GEA) analysis within the lab. However, this waste stream does not produce large quantities of silver zeolite.

1.3.3 Source of the regulated constituents:

The hazardous constituents are derived from sample contribution and/or the addition of reagents and lab standards during the analytical process. The reagents and standards may be considered regulated constituents and contribute to the hazardous nature of the waste stream.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Information to characterize these waste streams is obtained from process knowledge and analytical data.

1.3.5 Additional notes:

SAA/90-Day accumulation areas only; no TSD units at WSCF.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain): N/A

2.1.1 How was the waste managed prior to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2005

Comments on waste inventory:

WSCF has no TSD unit, all waste is managed in an SAA or 90 day pad.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity?

When is this capacity expected to be reached?

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	5.400		
2006	5.200		
2007	6.200		
2008	7.500		
2009	7.800		
Total	32.100		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

N/A

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No date established at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

None. Waste is generated from laboratory operations during analysis of samples.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 kg

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-03 - Organic Non-Debris

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for non-debris waste that contains hazardous constituents that either requires thermal treatment (specified technology) or thermal treatment is BDAT for meeting the applicable LDR treatment standards (concentration-based standards). Stabilization of the thermal treatment residue may also be required. The applicable WSRds for this treatability group are: ALO, IDW, IXO, LPA, LPO, PAO, SOC, SOE, SOW, TFS, TSC, 300, 301, 302, 303, 304, 305, 310, 311, 315, 320, 321, 330, 331, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 40A, 40B, 427, 429, 430, 431, 432, 43A, 43C, 45A, 46A, 47A, 500, 501, 502, 503, 504, 505, 50A, 50B, 50C, 520, 522, 52A, 53A, 700, 701, 720, 721, 90A, 920, 921, 922, 923. This waste stream consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, resins, soils) and labpacks that are contaminated with organic regulated dangerous waste constituents, including PCBs. This waste stream does not include hazardous debris other than incidental debris material commingled with the non-debris.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas): [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 1,193.140

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	23.640		
2006	17.450		
2007	15.200		
2008	19.300		
2009	11.700		
Total	87.290		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste characteristics, the radiological characteristics are expected to vary greatly. However there is high confidence that the waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☒ Liquid ☒ Semi-solid ☐ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste received under the Waste Specification System (WSS) has a high confidence level that subject waste stream will not contain physical matrix characteristics that do not meet the waste stream description. Waste received prior to the WSS has a medium to low confidence level and will require matrix characterization review and updates prior to treatment and disposal. If, during the assessment process, it is determined that some of the waste does not meet the MLLW-03 waste stream description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-02 or 04 through 10).

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Low TOC	***	***	DEACT & meet 40 CFR 268.48
D002	Corrosive	Corrosive Charac.	***	***	DEACT & meet 40 CFR 268.48
D004	TC-Arsenic	N/A	***	***	5.0 mg/l TCLP & meet 40 CFR 268.48
D005	TC-Barium	N/A	***	***	21 mg/l TCLP & meet 40 CFR 268.48
D006	TC-Cadmium	Cadmium Charac.	***	***	0.11 mg/l TCLP & meet 40 CFR 268.48
D007	TC-Chromium	N/A	***	***	0.60 mg/l TCLP & meet 40 CFR 268.48
D008	TC-Lead	Lead Charac.	***	***	0.75 mg/l TCLP & meet 40 CFR 268.48
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	0.20 mg/l TCLP & meet 40 CFR 268.48
D010	TC-Selenium	N/A	***	***	5.7 mg/l TCLP & meet 40 CFR 268.48
D011	TC-Silver	N/A	***	***	0.14 mg/l TCLP & meet 40 CFR 268.48
D012	Endrin	N/A	***	***	0.13 mg/kg & meet 40 CFR 268.48
D016	2,4-D	N/A	***	***	10 mg/kg & meet 40 CFR 268.48
D018	Benzene	N/A	***	***	10 mg/kg & meet 40 CFR 268.48
D019	Carbon Tetrachloride	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D020	Chlordane	N/A	***	***	0.26 mg/kg & meet 40 CFR 268.48
D021	Chlorobenzene	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D022	Chloroform	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D023	o-Cresol	N/A	***	***	5.6 mg/kg & meet 40 CFR 268.48
D024	m-Cresol	N/A	***	***	5.6 and meet 268.48
D025	p-Cresol	N/A	***	***	5.6 and meet 268.48
D026	Cresol	N/A	***	***	11.2 mg/kg & meet 40 CFR 268.48
D027	p-Dichlorobenzene	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D028	1,2-Dichloroethane	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D029	1,1-Dichloroethylene	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D030	2,4-Dinitrotoluene	N/A	***	***	140 mg/kg & meet 40 CFR 268.48
D031	Heptachlor	N/A	***	***	0.066 mg/kg & meet 40 CFR 268.48
D032	Hexachlorobenzene	N/A	***	***	10 and meet 268.48
D033	Hexachlorobutadiene	N/A	***	***	5.6 mg/kg & meet 40 CFR 268.48
D034	Hexachloroethane	N/A	***	***	30 mg/kg & meet 40 CFR 268.48
D035	Methyl Ethyl Ketone	N/A	***	***	36 mg/kg & meet 40 CFR 268.48
D036	Nitrobenzene	N/A	***	***	14 mg/kg & meet 40 CFR 268.48
D037	Pentachlorophenol	N/A	***	***	7.4 mg/kg & meet 40 CFR 268.48
D038	Pyridine	N/A	***	***	16 mg/kg & meet 40 CFR 268.48
D039	Tetrachloroethylene	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D040	Trichlorethylene	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
D041	2,4,5- Trichlorophenol	N/A	***	***	7.4 and meet 268.48
D042	2,4,6- Trichlorophenol	N/A	***	***	7.4 and meet 268.48
D043	Vinyl Chloride	N/A	***	***	6.0 mg/kg & meet 40 CFR 268.48
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	***	***	30 mg/kg
F003	Acetone & Hexone	Spent Solvent	***	***	160 mg/kg
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	5.6 mg/kg
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	36 mg/kg
F022	Process Waste Tetra-penta- or hexachloro-benzenes	N/A	***	***	Various
P012	Arsenic Trioxide	N/A	***	***	5.0 mg/l
P022	Carbon Disulfide	N/A	***	***	CMBST
P023	Chloreacetaldehyde	N/A	***	***	CMBST
P024	p-Chloroaniline	N/A	***	***	16
P029	Copper Cyanide	N/A	***	***	590 Total/30 Amenable
P030	Cyanide	N/A	***	***	590/30 mg/kg
P098	Potassium Cyanide	N/A	***	***	590 Total/30 Amenable

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
P102	Propargyl Alcohol	N/A	***	***	CMBST
P106	Sodium Cyanide	N/A	***	***	590 Total/30 Amenable
P113	Thallic oxide	N/A	***	***	RTHRM; OR STABL
P120	Vanadium pentoxide	N/A	***	***	STABL
U001	Acetaldeyde	N/A	***	***	CMBST
U002	Acetone	N/A	***	***	160 mg/kg
U003	Acetonitrile	N/A	***	***	CMBST
U004	Acetophenone	N/A	***	***	9.7 mg/kg
U006	Acteyl Chloride	N/A	***	***	CMBST
U007	Acryl chloride	N/A	***	***	CMBST
U012	Aniline	N/A	***	***	14
U019	Benzene	N/A	***	***	10 mg/kg
U025	Bis(2-Chloroethyl)ether	N/A	***	***	6.0 mg/kg
U031	n-Butyl Alcohol	N/A	***	***	2.6 mg/kg
U037	Chlorobenzene	N/A	***	***	6.0
U044	Chloroform	N/A	***	***	6.0 mg/kg
U056	Cyclohexane	N/A	***	***	CMBST
U057	Cyclohexanone	N/A	***	***	CMBST
U063	Dibenz(a,h)anthracene	N/A	***	***	8.2
U080	Methylene Chloride	N/A	***	***	30 mg/kg
U103	Dimethyl Sulfate	N/A	***	***	CMBST
U108	1,4-Dioaxane	N/A	***	***	CMBST
U112	Ethyl Acetate	N/A	***	***	CMBST
U117	Ethyl Ether	N/A	***	***	160 mg/kg
U121	Trichloromonofluoromethane	N/A	***	***	30 mg/kg
U122	Formaldehyde	N/A	***	***	CMBST
U123	Formic Acid	N/A	***	***	CMBST
U133	Hydrazine	N/A	***	***	CMBST
U134	Hydrogen Fluoride	N/A	***	***	NEUTR
U144	Lead Acetate	N/A	***	***	0.37 mg/kg
U154	Methanol	N/A	***	***	CMBST
U159	Methyl Ethyl Ketone	N/A	***	***	36 mg/kg
U160	Methyl Ethyl Ketone Peroxide	N/A	***	***	CMBST

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
U161	Methyl Isobutyl Ketone	N/A	***	***	33 mg/kg
U162	Methyl Methacrylate	N/A	***	***	160 mg/kg
U165	Naphthalene	N/A	***	***	5.6 mg/kg
U169	Nitrobenzene	N/A	***	***	14 mg/kg
U170	p-Nitropropane	N/A	***	***	29 mg/kg
U187	Phenacetin	N/A	***	***	16 mg/kg
U188	Phenol	N/A	***	***	6.2 mg/kg
U189	Phosphorus Sulfide	N/A	***	***	CMBST
U196	Pyridine	N/A	***	***	16 mg/kg
U201	Resorcinol	N/A	***	***	CMBST
U203	Safrole	N/A	***	***	22 mg/kg
U204	Selenium dioxide	N/A	***	***	5.7 mg/l TCLP
U210	Tetrachloroetylene	N/A	***	***	6.0 mg/kg
U211	Carbon Tetrachloride	N/A	***	***	6.0 mg/kg
U213	Tetrahydrofuran	N/A	***	***	CMBST
U218	Thioacetamide	N/A	***	***	CMBST
U218	Thioacetamide	N/A	***	***	CMBST
U220	Toluene	N/A	***	***	10 mg/kg
U226	1,1,1-Trichloroethane	N/A	***	***	6.0 mg/kg
U228	Trichloroethylene	N/A	***	***	6.0 mg/kg
U239	Xylenes	N/A	***	***	30 mg/kg
U353	p-Toluidine	N/A	***	***	CMBST
U359	2-Ethoxyethanol	N/A	***	***	CMBST
WP01	Persistent, EHW	N/A	***	***	None (1)
WP02	Persistent, DW	N/A	***	***	N/A
WP03	Polycyclic Aromatic Hydrocarbons	N/A	***	***	STATE EHW
WSC2	Solid Corrosive	N/A	***	***	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	None(1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

LDR REPORT TREATABILITY GROUP DATA SHEET

***The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHCs to be determined on a per-package basis during waste receipt, from characterization activities, or when waste is sent for treatment, unless waste package is a lab pack eligible for the alternative treatment standards in 40 CFR 268.42.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☒ List: Some of the F001-F005 designated waste may meet LDR treatment standards with out the need for further treatment. This may include soils from the various Tank Farm facilities, and some pump-and-treat filter media, WT02, WP02.

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☐ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☒ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☒ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Waste received under the Waste Specification System (WSS) has a high confidence level that subject waste stream will not have contaminant characteristics that do not meet the waste stream description. Waste received prior to implementation of the WSS has a medium to low confidence level and will require characterization assessment prior to treatment and disposal. If, during the assessment process, it is determined that some of the waste does not meet the MLLW-03 waste *stream* description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-02 or -04 through -10). Some of the waste in this waste stream does contain a wide range of PCB concentrations subject to TSCA regulation. If a waste package is regulated by TSCA, it is identified as such on storage records and tracked in SWITS. Some of the waste has already met the rigors of the WSS for waste storage and treatment that came into effect in 1995. However, there have been several changes to the dangerous waste regulations since then that impose additional characterization requirements on the generator, namely identification of UHCs for all waste designated with a characteristic waste code (i.e., D001 through D043).

LDR REPORT TREATABILITY GROUP DATA SHEET

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☒ Yes ☐ No

If yes, provide details: Thermal treatment at Allied Technology Group (ATG), including waste from this waste stream, began 12/31/2000 and continued in 2001. ATG thermal treatment meets the requirements for CMBST, organic destruction, and stabilization. The capability of thermal treatment at ATG ended with the disposal of 11.6 cubic meters of thermal residue in 2002. Currently, Hanford has two commercial thermal treatment contracts in use for subject waste.

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☐ Treating or plan to treat on site

☒ Treating or plan to treat off site

☐ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Some waste in this waste stream may require further characterization before treatment. Thermal treatment is targeted as the primary treatment technology for the subject waste. Treatment will be performed by means of an offsite commercial treatment contract.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
M-091-12	11/16/2007
M-091-12A	09/30/2005

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☐ Yes ☐ No ☐ Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None currently identified.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste will ultimately be disposed of in mixed waste trenches located on the Hanford Site or at commercial facilities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 100-Area Reactors **Waste Stream:** Waste oil from reactors

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

BHIX-404-0001-00

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Waste stream consists of oils contaminated with metals and trace organics that were removed from equipment during the N Reactor Interim Safe Storage activities, and ancillary facility decommissioning and demolition at 100-N and 100-K.

1.3.2 **History of how and where the waste was/is generated:**

Waste is generated during Interim Safe Storage activities at the N Reactors, and ancillary facilities at 100-N amd 100-K.

1.3.3 **Source of the regulated constituents:**

Oil contaminated with radioactive materials during reactor operations.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge and analytical data.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad)	☐ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☒ Other (explain):	Stored within CERCLA Area of Contamination or the onsite areas.	

2.1.1 **How was the waste managed prior to storage?**

Waste is generated during reactor Interim Safe Storage activities and upcoming D&D activities in the 100-N Area.

2.1.2 **Timeframe when waste was placed to storage?**

Placed into storage as waste is generated.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

None

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.400		
2006	0.400		
2007	0.400		
2008	0.400		
2009	0.400		
Total	2.000		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Characterization is performed in accordance with regulator approved facility/activity specific Waste Management Plans.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

Assumes same levels of oil generated for the N Reactor, and ancillary facilities at 100-N and 100-K. This forecast excludes K Reactor. DOE is completing Interim Safe Storage and D&D of these facilities under Action Memos from EPA and Ecology.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See item 3.2.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste oils are segregated to separate the mixed waste from the oil that designates as a hazardous waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 324 **Waste Stream:** Organic Non-Debris Discarded Chemical/Waste

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded/unused chemical products or waste.

1.3.2 History of how and where the waste was/is generated:

Chemical products were used for maintenance or clean-up activities.

1.3.3 Source of the regulated constituents:

Hazardous constituents in chemical products.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

SAA waste.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.600		
2006	3.000		
2007	2.400		
2008	6.000		
2009	2.900		
Total	14.900		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is achieved by substitution of less hazardous chemicals, waste segregation, and disposal of hazardous waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 327 **Waste Stream:** Organic Non-Debris Discarded Chemical/Waste

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded/unused chemical products or waste.

1.3.2 History of how and where the waste was/is generated:

Chemical products were used for maintenance or clean-up activities.

1.3.3 Source of the regulated constituents:

Chemical products containing hazardous constituents.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.800		
2006	1.200		
2007	1.400		
2008	1.200		
2009	1.800		
Total	6.400		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is achieved by substitution of less hazardous materials, waste segregation, and disposal of hazardous waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** Organic Non-Debris Solids and Labpacks

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, resins, and soils) and labpacks that are contaminated with organic regulated dangerous waste constituents, including PCBs This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2. Wastes are either contaminated with regulated organic constituents or are themselves regulated organic chemicals.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	3,761

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 868.080

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in SWITS for WSRds 300, 302, 303, 304, 310, 311, 315, 331, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 427, 430, 431, 45A, 500, 501, 502, 503, 504, 505, 522, 601, 621, 627, 700, 701, 720, 721, 920, 921, 922, 923, 45A, 50A, 50B, 52A, 53A, 90A, ALO, ASB, DBR, LPA, LPO, PAO, SOC, SOE, SOW, TFS, and TSC.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on life cycle waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling may be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no generation projected by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: LLBG **Waste Stream:** MLLW Retrieval Organic Non-Debris

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, resins and soils). This waste does not include hazardous debris other than incidental debris material commingled with non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2. Wastes are either contaminated with regulated organic constituents or are themselves regulated organic chemicals.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

Per TPA Milestone M-91-40 this entire waste stream is suspected of being mixed waste.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☐ Container (covered)
- ☒ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☒ Other (explain): Stored pursuant to M-091 TPA milestones.

2.1.1 How was the waste managed prior to storage?

In LLBG trenches.

2.1.2 Timeframe when waste was placed to storage?

Varies from 1970 through 1987.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 318.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Per TPA Milestone M-91-40 this entire waste stream is suspected of being mixed waste. There waste is stored pursuant to M-091 milestones.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on life cycle waste generation forecasts.

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-003	03/28/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-40	12/31/2010

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

If information is not sufficient to ensure waste meets CWC acceptance criteria, further characterization may be necessary.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

If information is not sufficient to ensure waste meets the treatment facilities acceptance criteria, further characterization may be necessary.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned. Waste has already been generated.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste has already been generated. There is no opportunity to reduce the existing volume.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no generation projected.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Lab Chemicals/Waste, Organic Non-debris

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

PFPX-505-000, PFPX-402-0001, PFPX-403-0001, PFPX-405-0001, PFPX-500-0001, PFPX-404-0001, PFPX-404-0002, PFPX-921-0001.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Spent/expired chemicals or lab generated wastes. Oxidizer solids, caustic solids and other solids all by thermal treatment; ignitable solids, State only organic solid acid waste, and State only organic solid caustic waste.

1.3.2 **History of how and where the waste was/is generated:**

Laboratory operations.

1.3.3 **Source of the regulated constituents:**

Intrinsically hazardous.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is placed directly into SAA upon generation.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	16.790		
2006	7.700		
2007	5.300		
2008	5.300		
2009	0.000		
Total	35.090		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #0104940	09/13/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be characterized before transfer to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: CY 2001

If yes, provide document number or other identification:

PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter# M2100-02-016

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP routinely evaluates the chemicals in the labs to ensure that there is an identified use for them. Chemicals with no justifiable use will be either recycled, if possible, or discarded as waste and not reordered.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex **Waste Stream:** Organic Non-Debris

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 Applicable profile number(s) for this waste stream:

WSRd: 402, 403, 404, 405, 505, 923, LPO.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

This waste consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, soils, labpacks, etc.) and could contain PCBs. This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 History of how and where the waste was/is generated:

The waste was generated by T Plant Complex and from various other onsite other locations, and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☒ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	N/A	

2.1.1 How was the waste managed prior to storage?

Generated and accumulated and packaged at various onsite locations and by offsite generators before transfer/shipment to T Plant and from T Plant maintenance/operational activities.

2.1.2 Timeframe when waste was placed to storage?

1989 to present.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant	29

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 6.640

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005.

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See Section 3.3.3 for discussion on waste minimization.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRUM. The volume of mixed waste is reduced by compaction when possible. To minimize the generation of mixed waste, T Plant Complex personnel actively seek nondangerous alternatives. In addition, waste minimization goals are set annually and tracked quarterly.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year-by-year basis. T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** WRAP **Waste Stream:** Organic Non-Debris

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

WSRd ,503-CR, 923-CR

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste consists of many different inorganic and organic solids (e.g., particulates, absorbed liquids, sludges, resins, and soils) and labpacks that are contaminated with organic regulated dangerous waste constituents, including PCBs This waste does not include hazardous debris other than incidental debris material commingled with the non-debris.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents were generated at various Hanford Site generator locations (e.g. PFP, 222S, etc.)

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

Waste at WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repackaging mission.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain): N/A

2.1.1 **How was the waste managed prior to storage?**

Waste was generated and packaged at various Hanford generating facilities.

2.1.2 **Timeframe when waste was placed to storage?**

Most MLLW at WRAP is recently generated waste that is being verified as part of the waste acceptance process.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2404WB	2

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.420

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory based on Drum Management System (DMS) printout dated 12/31/03.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Through source reduction, waste minimization practices are being employed to ensure that the generation of this stream is being minimized. Additional waste is not expected to be generated in the future.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and will be treated for directly disposal, no additional waste minimization activities are planned. WRAP does not generate this waste stream, rather will receive waste for further processing from other generating facilities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** WSCF **Waste Stream:** Organic Non-Debris

Treatabilitiy Group Name: MLLW-03 - Organic Non-Debris

1.2 **Applicable profile number(s) for this waste stream:**

WSCF-404-0003-00, WSCF-402-0003-01, WSCF-404-0004-00, WSCF-404-0005, WSCF-404-0003-03, WSCF-422-0001-00, WSCF-422-0002-00

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste stream is generated from analytical processes within the laboratory. The organic non-debris wastes are collected in the WSCF SAA's and packaged for transfer to the CWC.

1.3.2 **History of how and where the waste was/is generated:**

WSCF has been sending these waste streams to the CWC for approximately the last six years. This waste stream is generated as a result of analysis within the laboratory.

1.3.3 **Source of the regulated constituents:**

The hazardous constituents are derived from sample contributions and/or the addition of reagents during the analytical process. These reagents may be considered regulated constituents and contribute to the hazardous nature of the waste stream.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Information to characterize this waste stream is obtained from process knowledge and analytical data.

1.3.5 **Additional notes:**

This material is managed in a SAA and 90-day accumulation area. WSCF has no TSD unit.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2005

Comments on waste inventory:

WSCF waste is managed in a SAA or 90 day accumulation area. WSCF has no TSD.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity?

When is this capacity expected to be reached?

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	4.850		
2006	4.950		
2007	5.500		
2008	6.200		
2009	6.400		
Total	27.900		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No date established.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

None, waste is currently generated from sample analysis using SW-846/equal protocol procedures.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 kg

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that meets the definition of hazardous debris as defined in 40 CFR 268.2, and the waste contains physical and/or chemical constituents that meet the definition of organic/carbonaceous waste as defined in WAC 173-303-040. The physical characteristics include paper, plastic, wood, rubber, rags, and lesser quantities of metallic and inorganic waste components. Applicable WSRds may include: BAB, MGD, PFD, PUD, WDD, H3D, RCB, BLD, DBR, UUU, 334, 600, 601,603, 605, 606, 607, 60A, 60B, 620, 621, 622, 625, 626, and 627.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 3,391.030

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	65.240		
2006	71.050		
2007	77.500		
2008	76.000		
2009	65.600		
Total	355.390		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste characteristics, the radiological characteristics are expected to vary greatly. However, there is high confidence that the waste is MLLW. The waste as packaged is considered Contact-handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☐ Solid ☐ Liquid ☐ Semi-solid ☒ Debris

☐ Other (Describe in comments.)

3.2.2 Comments on physical form:

The matrix characteristics has or may be assessed prior to the waste being transferred/shipped to the receiving TSD unit. Waste assessments take place either at the generating site or at one of the centralized TSD units at Hanford.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	N/A	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D002	Corrosive	Corrosive Charac.	N/A	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D003	Reactive	Reactive Cyanides	N/A	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D004	TC-Arsenic	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D005	TC-Barium	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D006	TC- Cadmium	Cadmium Charac.	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D007	TC-Chromium	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D008	Radioactive Lead Solids	Radioactive Lead Solids	<50 vol% per package basis	***	Macroencapsulation
D008	TC-Lead	Lead Charac.	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D009	TC-Mercury	Low Mercury	<260 mg/kg Hg	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D010	TC-Selenium	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D011	TC-Silver	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D012	Endrin	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D013	Lindane	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D014	Methoxychlor	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D015	Toxaphene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D016	2,4-D	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D017	2,4,5-TP (Silvex)	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D018	Benzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D019	Carbon Tetrachloride	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D020	Chlordane	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D021	Chlorobenzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D022	Chloroform	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D023	o-Cresol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D024	m-Cresol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D025	p-Cresol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D026	Cresol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D027	p-Dichlorobenzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D028	1,2-Dichlorbenzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D029	1,1-Dichloroethylene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D030	2,4-Dinitrotoluene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D031	Heptachlor	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D032	Hexachlorobenzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D033	Hexachlorobutadiene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D034	Hexachloroethane	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D035	Methyl Ethyl Ketone	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D036	Nitrobenzene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D037	Pentachlorophenol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D038	Pyridine	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D039	Tetrachloroethylene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D040	Trichloroethylene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D041	2,4,5-Trichlorophenol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D042	2,4,6-Trichlorophenol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
D043	Vinyl Chloride	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
F001	1,1,1-Trichlorethane	Spent Solvent	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
F002	Methylene Chloride	Spent Solvent	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
F003	Acetone & Hexone	Spent Solvent	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
F039	Various	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P029	Copper Cyanide	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P030	Cyanides	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P098	Potassium Cyanide	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P102	Propargyl Alcohol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P106	Sodium Cyanide	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
P120	Vanadium Pentoxide	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U002	Acetone	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U006	Acetyl Chloride	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U031	n-Butyl Alcohol	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U043	Vinyl Chloride	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U057	Cyclohexanone	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U080	Methylene Chloride	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U108	1,4-Dioxane	N/A	***	***	CMBST or 170
U123	Formic Acid	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U133	Hydrazine	N/A	***	***	CHOXD; CHRED; or CMBST

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
U151	Mercury	Low Mercury	<260 mg/kg Hg	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U154	Methanol	N/A	***	***	CMBST or 0.75 mg/l TCLP
U159	Methyl Ethyl Ketone	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U161	Methyl Isobutyl Ketone	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U162	Methyl methacrylate	N/A	***	***	160
U196	Pyridine	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U210	Tetrachloroethylene	N/A	***	***	6.0
U220	Toluene	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U226	1,1,1-Trichloroethane	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
U239	Xylenes	N/A	***	***	Alternative Stds. for Haz. Debris (40 CFR 268.45)
WP01	Persistent, EHW	N/A	***	***	None (1)
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	None (1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

(2) The combination of waste codes varies on a per-package basis in accordance with WAC 173-303-070(3) and (5).

UHC identification not required when using the alternative treatment standards for hazardous debris.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☒ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☒ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☒ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

The waste characterization information is reviewed on a per-package basis prior to the waste being shipped to an onsite or offsite TSD. Waste that has been residing in storage for a long time may require more extensive verification work to make it acceptable for treatment and/or disposal. If, during the verification activities, it is determined that some of the waste does not meet the MLLW-04A waste stream description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-02, -03 or -04B through -10) and the correct WSRd will be assigned to it. Recently, in 2004 Washington Department of Ecology (WDOE) adopted the new LDR standard for batteries in 40 CFR 268. This will allow treatment and disposal of batteries containing cadmium, mercury and silver in this wastestream. With recent changes in the TSCA, TSCA regulated PCBs may be contained in this wastestream in varying concentrations. The PCB contaminated waste has a regulated disposal path consistent with the wastestream. However, container remain in storage until receiving facilities are allowed to accept these PCBs. It is possible that some containers do not comply with the disposal path. These containers will be reassigned to the proper treatabilty group.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☒ Yes ☐ No

LDR REPORT TREATABILITY GROUP DATA SHEET

If yes, provide details: Hanford has been sending a portion of this waste treatability group to PEcoS located in Richland, WA for treatment. The treatment being utilized by PEcoS is macroencapsulation. The treated waste is being returned back to Hanford and disposed of in the Mixed Waste Disposal trench located in 200-W Area.

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☒ Treating or plan to treat on site

☒ Treating or plan to treat off site

☐ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

The treatment method being used to treat this waste group is macroencapsulation per 40 CFR 268.45. The waste is mainly being sent offsite to a commercial treatment facility for treatment. There is additional commercial treatment capacity available in the nation which can be accessed via contracts. Some treatment may also be performed onsite.

4.4 Treatment schedule information:

Treatment of this waste has been ongoing for several years. Additional treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☒ Yes ☐ No ☐ Unknown

If yes, describe: To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

The O/C LDR 1,000 mile inapplicability certification has been in effect for several years that allows for the treatment of the O/C debris by other than incineration.

4.9 Key Assumptions:

LDR REPORT TREATABILITY GROUP DATA SHEET

Commercial thermal treatment capacity is not sufficient to change the status of the LDR 1,609 kilometer (1,000 mile) inapplicability certification. To dispose of non-F001-F005 listed waste, the 200 Area ETF delisting petition must be modified to manage the leachate generated from the LLBG mixed waste trenches.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste will be disposed of in mixed waste trenches located on the Hanford Site and off-site facilities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 200 ETF **Waste Stream:** Acid O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

None.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Acid waste is generated from spill clean-up and debris generated from maintenance activities.

1.3.2 History of how and where the waste was/is generated:

The ETF uses acid throughout the treatment process for pH adjustment.

1.3.3 Source of the regulated constituents:

Acid used for pH adjustment in the ETF treatment process.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, source information, MSDS's, process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

The waste was in the process of being generated.

2.1.2 Timeframe when waste was placed to storage?

07/99 - 10/99 for current inventory. This type waste has been generated at this location since 1995.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
ETF	3 drums

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.600

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-004	10/17/2000

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No assessment planned at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Facility operating procedures provide instructions on packaging and segregation of waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 200 ETF **Waste Stream:** Caustic O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

None.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Caustic waste is generated from spill clean-up and debris generated from maintenance activities.

1.3.2 History of how and where the waste was/is generated:

The ETF uses caustic throughout the treatment process for pH adjustment.

1.3.3 Source of the regulated constituents:

Caustic is used for pH adjustment in the ETF treatment process.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, source information, MSDS's, process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

The waste was in the process of being generation.

2.1.2 Timeframe when waste was placed to storage?

No current inventory. This type waste has been generated at this location since 1995.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
ETF	0 drums

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-004	10/17/2000

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No assessment planned at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Facility operating procedures provide instructions on packaging and segregation of waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 200 ETF **Waste Stream:** RCRA O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

2LEF-930/931-0004

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Process contacted debris generated from maintenance and clean-up activities.

1.3.2 **History of how and where the waste was/is generated:**

Generated during operation and maintenance activities at the ETF and associated facilities.

1.3.3 **Source of the regulated constituents:**

Hanford Site generated RCRA wastewaters that are treated through the ETF and used oils/greases from LERF/ETF equipment.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge, MSDS's.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Waste was in the process of generation.

2.1.2 **Timeframe when waste was placed to storage?**

1997 - present.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2025E	26 drums
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 5.400

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	21.000		
2006	28.000		
2007	35.000		
2008	32.000		
2009	23.000		
Total	139.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-004	10/17/2000

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

No assessment planned at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Facility operating procedures provide instructions on packaging and segregation of waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 202-S **Waste Stream:** 202-S O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

Not available at this time.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Grease and oils used in maintenance activities on the canyon crane way.

1.3.2 **History of how and where the waste was/is generated:**

The grease and oils were taken into the canyon for crane maintenance activities performed at the REDOX facility and were abandoned in place.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents resulting from equipment maintenance materials.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☒ Other (explain): Legacy waste stored loosely on the craneway.

2.1.1 **How was the waste managed prior to storage?**

The grease and oils were taken into the canyon and abandoned in place.

2.1.2 **Timeframe when waste was placed to storage?**

When the process was shut down about 1967

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
202-S Craneway	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 10.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: No assessment is required because the facility is being managed under TPA Section 8.0.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

It may be necessary to sample the waste prior to placing the waste in storage at CWC.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

REDOX is under Long Term Surveillance and Maintenance under Chapter 8 of the TPA.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

N/A

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The facility is inactive. No waste is being generated.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 324 **Waste Stream:** O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

None.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Waste items from maintenance or clean-up activities.

1.3.2 History of how and where the waste was/is generated:

Waste generated from decontamination activities using organic solvent.

1.3.3 Source of the regulated constituents:

In the chemical product.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.400		
2006	0.800		
2007	0.600		
2008	2.000		
2009	1.400		
Total	5.200		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is achieved by chemical reduction, waste segregation, and less hazardous chemical substitution.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance /maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** CWC **Waste Stream:** O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste consists of hazardous debris containing primarily organic debris material (e.g., paper, plastic, rubber, wood, cloth, tumbleweeds, etc.) that is contaminated with hazardous constituents. Some inorganic debris material (e.g., building rubble, metals, asbestos, etc.) would be present in the waste; however, the debris would be considered as organic/carbonaceous waste (as defined per WAC 173-303-040) on a per-container basis. Debris that is contaminated with PCBs at concentrations greater than 50 ppm is not included in this waste.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2. Waste is debris contaminated with hazardous materials such as F, P, and U listed constituents, RCRA metals, corrosives, etc.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 **Timeframe when waste was placed to storage?**

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	2418

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 647.500

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in SWITS for WSRds: 200, 325, 601, 603, 606, 625, 626, 627, 647, BAB, BLD, DBR, PFD, PUD, and WDD.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** LLBG **Waste Stream:** MLLW Retrieval Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste consists of hazardous debris containing primarily organic debris material (e.g., paper, plastic, rubber, wood, cloth, tumbleweeds, etc.) that is contaminated with hazardous constituents. Some inorganic debris material (e.g., building rubble, metals, asbestos, etc.) would be present in the waste; however, the debris would be considered as organic/carbonaceous waste (as defined per WAC 173-303-040) on a per-container basis. Debris that is contaminated with PCBs at concentrations greater than 50 ppm is not included in this waste. In addition, plywood, tarps, PPE, and soil contaminated by breached containers being retrieved from the covered TRUM retrieval project. It is assumed that breached containers hold material that would be regulated as hazardous waste under today's regulations.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators. In addition, incidental waste from TRU retrieval has not been generated yet, this waste is forecasted to be generated starting in mid FY04.

1.3.3 **Source of the regulated constituents:**

See 1.3.1, 1.3.2 and 1.3.5. Hazardous materials could potentially be commingled with suspect-TRUM waste. Hazardous constituents were not regulated at the time of disposal but are expected to be present.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge, analytical data.

1.3.5 **Additional notes:**

Per TPA Milestone M-91-40 the entire waste stream is suspected of being mixed waste.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad)	☐ Container (covered)	☒ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☒ Other (explain):	Stored pursuant to M-091 TPA milestones.	

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.1.1 How was the waste managed prior to storage?

In LLBG trenches.

2.1.2 Timeframe when waste was placed to storage?

Varies from 1970 through 1087.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 2,694.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is stored pursuant to M-091 TPA milestones. The projected quantities are based upon the secondary waste generated during retrieval activities.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	30.000		
2006	30.000		
2007	30.000		
2008	30.000		
2009	30.000		
Total	150.000		

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-003	03/28/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-40	12/31/2010

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
M-091-40	12/31/2010

If yes or unknown, comment on characterization for storage.

As part of waste generation and transferring the MLLW to storage, further characterization could be necessary.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If information is not sufficient to ensure waste meets the treatment facilities acceptance criteria, further characterization may be necessary

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatments standards applicable for the residues, sampling may be required after treatment if the residues are MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned. Waste has either already been generated or will be minimized as described in 3.2

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Ability to reduce the volume of waste is limited, since waste has either already been generated or will be encountered during suspect-TRUM retrieval activities and identified when radiological contamination is found. Thorough document review and visual observation of waste contaminants contributing to waste stream could lead to portions of waste stream being not regulated as hazardous waste (low-level only).

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: PFP **Waste Stream:** Operations and D&D Waste O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

PFPX-627-0001, PFPX-627-0002, PFPX-627-0003, PFPX-627-0004.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Operations and D&D waste. Other organic debris.

1.3.2 History of how and where the waste was/is generated:

Waste generated from routine facility operations and D&D activities.

1.3.3 Source of the regulated constituents:

Materials/debris contaminated with hazardous constituents from operations, construction and D&D activities.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data, process knowledge

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is placed directly into satellite accumulation area upon generation.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	2.790		
2006	1.300		
2007	0.800		
2008	0.800		
2009	0.000		
Total	5.690		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be characterized before transfer to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: CY 2001

If yes, provide document number or other identification:

PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter# M2100-02-016

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP has a waste minimization program. A hierarchical approach to environmental management is applied to all types of pollution and waste generating activities. Pollution prevention and waste minimization, through source reduction, is the preferred option, followed by environmentally safe recycling. Treatment to reduce the quantity, toxicity, and/or mobility will be considered only when prevention or recycling is not possible or practical. Environmentally safe disposal is the last option. Segregation is applicable in all of these activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex **Waste Stream:** O/C Hazardous Debris

Treatability Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

WSRD: 601, 60A, 606, 626, 627.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Organic debris generated as a result of 221-T Canyon cleanout (e.g., plastic, rubber, wood, paper, cloth, etc.), maintenance, and operational activities. In addition, this waste is generated from various onsite and offsite generators in which their waste is sent to the T Plant Complex for waste verification/storage/treatment.

1.3.2 History of how and where the waste was/is generated:

Waste generated as part of cleanup activities, maintenance, operations, and from various onsite locations and offsite generators. See discussion in Section 1.3.1.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☒ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Generated from various onsite locations and offsite generators. Generated as part of routine maintenance, operation and cell cleanout/canyon deck cleanoff.

2.1.2 Timeframe when waste was placed to storage?

1994 to present.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	19

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 23.560

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory will fluctuate as T Plant Complex generates or performs treatment/verification on onsite/offsite generators.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	3.200		
2006	3.200		
2007	3.200		
2008	3.200		
2009	3.200		
Total	16.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005.

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: Not aware of any variances.

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See Section 3.3.3 for discussion on waste minimization.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste minimization is and will continue to be incorporated to the extent practical during canyon deck cleanoff, cell cleanout as well as from other activities. Attempts will be made to segregate low-level from mixed and from TRU.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year-by-year basis. The T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** Well Maintenance Debris **Waste Stream:** O/C Hazardous Debris Well Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

To be developed.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Miscellaneous Solid Waste (MSW) from groundwater well maintenance, sampling, analyses, drilling, and decommissioning activities includes glass, plastic, rubber, concrete, paper, and metal including pipe and pumps. This waste stream accounts for MSW generated from groundwater well activities across the site.

1.3.2 **History of how and where the waste was/is generated:**

Waste is generated during routine maintenance, sampling, drilling, and decommissioning of the groundwater wells across the Hanford Site.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents were discharged to the soil during past Hanford Site operations.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

This waste stream accounts for groundwater well waste generated across the Hanford Site.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain): N/A

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is managed in a SAA and 90-day accumulation area before transfer to CWC.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity?

When is this capacity expected to be reached?

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	5.000		
2006	5.000		
2007	5.000		
2008	5.000		
2009	5.000		
Total	25.000		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Characterization is performed before placing the waste in storage.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

If purgewater generated during sampling is eliminated (see Location Specific Data Sheet for the Purgewater Storage and Treatment Facility), then the volume of MSW generated would be reduced. "Contained-in" determinations are being pursued with Ecology to eliminate listed waste codes where appropriate, which could result in reducing the volume of mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** WRAP **Waste Stream:** O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

WSRds 627.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste consists of hazardous debris containing primarily organic debris material (e.g., paper plastic, rubber, wood, cloth, tumbleweeds, etc.). Some inorganic debris material (e.g., building rubble, metals, asbestos, etc.) would be present in the waste; however, the debris would be considered as organic/carbonaceous waste (as defined per WAC 173-303-040) on a per-container basis. Debris that is contaminated with PCBs at concentrations greater than 50 ppm is not included in this waste.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents most likely entered the waste as chemicals used during analytical processes and operating activities. See 1.3.1 and 1.3.2.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

Waste at WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repackaging mission.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Waste was generated and packaged at various locations around the Hanford Site or by offsite generators.

2.1.2 **Timeframe when waste was placed to storage?**

Most MLLW at WRAP is recently generated waste that is being verified as part of the waste acceptance process.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2336W	11
2404WB	33
2404WC	3

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 9.970

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory fluctuates daily to support WRAP's mission of waste verification. Inventory based on SWITS and the WRAP Data Management System (DMS) printouts dated 12/31/03.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

This is waste generated by other facilities. However, to the extent practical, all mixed waste is segregated and packaged separately from LLW or TRUM wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and will be treated for direct disposal, no additional waste minimization activities are planned. WRAP does not generate this waste stream, rather is previously generated by various generating facilities.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WSCF **Waste Stream:** O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04A - O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

WSCF-921-0001-01

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

TEVA resins and F001-F005 listed solid debris is generated from discarded lab materials and analytical processes in the lab. Note, TEVA resins are a product name from Eichrom Technologies.

1.3.2 History of how and where the waste was/is generated:

The F001-F005 listed solid debris is generated as a result of handling samples that are F-listed. This waste stream consists of debris (e.g., PPE, paper towels, and plastic pipettes) that have been contacted with F-listed constituents.

1.3.3 Source of the regulated constituents:

The hazardous constituents are derived from sample contribution and or the addition of reagents and standards during the analytical process. The reagents and standards may be considered regulated constituents and contribute to the hazardous nature of the waste stream.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Information to characterize these waste streams is obtained from process knowledge and analytical data.

1.3.5 Additional notes:

This waste is managed in a SAA and 90 day accumulation area. WSCF has no TSD unit.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2005

Comments on waste inventory:

WSCF has no TSD unit, all waste is managed in an SAA or on 90-day accumulation area.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

Yes No

If yes, what is the total estimated storage capacity?

When is this capacity expected to be reached?

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	2.850		
2006	2.750		
2007	2.900		
2008	3.000		
2009	3.000		
Total	14.500		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

N/A

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: September 23, 1999

If yes, provide document number or other identification:

WSCF-1999-1

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste is segregated by the worker at the bench. Training has raised awareness of how to properly segregate the wastes generated from analysis procedures.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 kg

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that meets the definition of hazardous debris as defined in 40 CFR 268.2, and the waste does not contain physical and/or chemical organic/carbonaceous waste constituents in excess of 10% as defined in WAC 173-303-040. The physical characteristics include metals, inorganic debris items and lesser quantities of O/C waste components (paper, plastic, wood, etc.). Applicable WSRds may include: ASB, 640, 641, 645, 646, and 647.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 1,672.718

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	0.408		
2006	0.616		
2007	0.824		
2008	1.032		
2009	1.240		
Total	4.120		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste characteristics, the radiological characteristics are expected to vary greatly. However, there is high confidence that the waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☐ Solid ☐ Liquid ☐ Semi-solid ☒ Debris

☐ Other (Describe in comments.)

3.2.2 Comments on physical form:

The matrix characteristics have been, or maybe, assessed prior to the waste being transferred/shipped to the receiving TSD unit. Waste assessments take place either at the generating site or at one of the centralized Hanford Site TSD units.

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D002	Corrosive	Corrosive Charac.	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D003	Reactive	Reactive Cyanides	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D004	TC-Arsenic	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D005	TC-Barium	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D006	TC-Cadmium	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D007	TC-Chromium	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D008	TC-Lead	Lead Charac.	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D010	TC-Selenium	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D011	TC-Silver	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D012	Endrin	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D013	Lindane	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D014	Methoxychlor	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D015	Toxaphene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D016	2,4-D	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D017	2,4,5-TP (Silvex)	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D018	Benzene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D019	Carbon Tetrachloride	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D020	Chlordane	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D021	Chlorobenzene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D022	Chloroform	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D023	o-Cresol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D024	m-Cresol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D025	p-Cresol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D026	Cresol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D027	p-Dichlorobenzene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D028	1,2-Dichloroethane	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D029	1,1-Dichloroethylene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D030	2,4-Dinitrotoluene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D031	Heptachlor	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D032	Hexachlorobenzene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D033	Hexachlorobutadiene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D034	Hexachloroethane	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D035	Methyl Ethyl Ketone	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D036	Nitrobenzene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D037	Pentachlorophenol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D038	Pyridine	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D039	Tetrachloroethylene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D040	Trichloroethylene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D041	2,4,5-Trichlorophenol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D042	2,4,6-Trichlorophenol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D043	Vinyl Chloride	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
F002	Methylene Chloride	Spent Solvent	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
F003	Acetone & Hexone	Spent Solvent	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
F005	Methyl Ethyl ketone	Spent Solvent	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
P029	Copper Cyanide	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
P030	Cyanides	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
p098	Potassium Cyanide	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
P102	Propargyl Alcohol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
P106	Sodium Cyanide	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
P120	Vanadium Pentoxide	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U002	Acetone	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U006	Acetyl Chloride	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U031	n-Butyl Alcohol	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U043	Vinyl Chloride	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U057	Cyclohexanone	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U080	Methylene Chloride	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U123	Formic Acid	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U151	Mercury	Low Mercury	<260 mg/kg Hg	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U159	Methyl Ethyl Ketone	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U161	Methyl Isobutyl Ketone	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
U196	Pyridine	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U220	Toluene	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U226	1,1,1-Trichlorethane	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
U239	Xylenes	N/A	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
WP01	Persistant, EHW	N/A	***	***	None (1)
WP02	Persistant, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	Remove solid-acid charac.
WT01	Toxic, EHW	N/A	***	***	None (1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

***The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

(2) The combination of waste codes varies on a per-package basis in accordance with WAC 173-303-070(3) and (5).

UHCs identification not required when using the alternative treatment standards for hazardous debris.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☒ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☒ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☐ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

The waste characterization information is reviewed on a per-package basis prior to the waste being transferred/shipped to an onsite or offsite TSD. Waste that has been residing in storage for a long time may require more extensive verification work to make it acceptable for treatment and/or disposal. If during the verification activities, it is determined that some of the waste does not meet the MLLW-04B waste stream description, then it will be reassigned into the appropriate waste stream (e.g., MLLW-02, -03, etc.), and the correct WSRd will be assigned to it. With changes in TSCA, there may be TSCA regulated PCBs with consistent disposal options in this wastestream.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☒ Yes ☐ No

If yes, provide details: Hanford has been actively sending a portion of this waste treatability group to the Allied Technology Group (ATG) facility located in Richland, WA for treatment. The treatment utilized by ATG is macroencapsulation. The treated waste is being returned back to Hanford and disposed of into the LLBG mixed waste trenches located in 200-W Area.

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☒ Treating or plan to treat on site

☒ Treating or plan to treat off site

☐ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

LDR REPORT TREATABILITY GROUP DATA SHEET

The treatment method being used to treat this waste group is macroencapsulation per 40 CFR 268.45. The waste is mainly being sent offsite to a commercial facility for treatment. There is additional commercial treatment capacity available in the nation which can be accessed via contracts. On site treatment may also be performed.

4.4 Treatment schedule information:

Treatment of this waste has been ongoing for several years. Additional treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☒ Yes ☐ No ☐ Unknown

If yes, describe: To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste is being disposed of in mixed waste trenches located on the Hanford Site and might be disposed commercially in the future.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 200 Areas D&D waste **Waste Stream:** Miscellaneous debris

Treatabilitiy Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

None at this time.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

This waste includes hazardous inorganic debris and other incidental non-debris material commingled.

1.3.2 **History of how and where the waste was/is generated:**

Waste is generated as during decontamination and demolition (D&D) of surplus buildings in the 200 Areas.

1.3.3 **Source of the regulated constituents:**

Materials/debris contaminated with hazardous constituents from D&D activities.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

Miscellaneous debris may be generated from D&D activities at many different buildings within the 200 Areas under the D&D Project.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☒ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.208

Date of inventory values: 12/31/2004

Comments on waste inventory:

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.208		
2006	0.416		
2007	0.624		
2008	0.832		
2009	1.040		
Total	3.120		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

D&D Projects has a waste minimization program. A hierarchical approach to environmental management is applied to all types of pollution and waste generating activities. Pollution prevention and waste minimization, through source reduction, is the preferred option, followed by environmentally safe recycling. Treatment to reduce the quantity, toxicity, and/or mobility will be considered only when prevention or recycling is not possible or practical. Environmentally safe disposal is the last option. Segregation is applicable in all of these activities.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** CWC **Waste Stream:** Non-O/C Inorganic Hazardous Debris

Treatability Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

The waste consists of hazardous debris containing primarily inorganic debris material (e.g., building rubble, metals, asbestos, etc.) that is contaminated with hazardous constituents.

1.3.2 **History of how and where the waste was/is generated:**

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2. Waste is debris contaminated with hazardous materials such as F, P, and U listed constituents, RCRA metals, corrosives, etc.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data and process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 **Timeframe when waste was placed to storage?**

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	28

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 11.890

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in SWITS for WSRds: 645, 646 647, and ASB.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: LLBG **Waste Stream:** MLLW Retrieval Non O/C Hazardous Debris

Treatabilitiy Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of hazardous debris containing primarily inorganic debris material (e.g., building rubble, metals, asbestos, etc.) that is contaminated with hazardous constituents.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

Per TPA Milestone M-91-40 this entire waste stream is suspected of being mixed waste.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad)	☐ Container (covered)	☒ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☒ Other (explain):	Stored pursuant to M-091 TPA milestones.	

2.1.1 How was the waste managed prior to storage?

In LLBG trenches.

2.1.2 Timeframe when waste was placed to storage?

Varies from 1970 through 1987.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 1,660.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is stored pursuant to M-091 milestones.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on life cycle waste generation forecasts

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-003	03/28/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-40	12/31/2010

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain:

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
M-091-40	12/31/2010

If yes or unknown, comment on characterization for storage.

If information is not sufficient to ensure waste meets CWC acceptance criteria, further characterization may be necessary

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

If information is not sufficient to ensure waste meets the treament facilities acceptance criteria, further characterization may be necessary.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☐ No ☒ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling may be required after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on this MLLW.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned. Waste has already been generated.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Waste has already been generated. There is no opportunity to reduce the existing volume.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex **Waste Stream:** Non-O/C Inorganic Hazardous Debris

Treatability Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 Applicable profile number(s) for this waste stream:

647.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

This waste consists of dangerous debris containing inorganic debris (e.g., metal, asbestos, etc.).

1.3.2 History of how and where the waste was/is generated:

Waste is typically generated by Tank Farms and from operations activities at the T Plant Complex (e.g., repackaging waste).

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2. Waste is contaminated with F listed waste.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Proccess and/or analytical data.

1.3.5 Additional notes:

N/A

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☒ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	If this waste is received during CY 2004, waste can be stored in outdoor storage pads or within buildings or other structures.	

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by onsite and/or offsite generators as well as the T Plant Complex

2.1.2 Timeframe when waste was placed to storage?

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

This waste could be generated during canyon deck and/or cell clean out, maintenance, or from operations (e.g., repackaging, treatment, etc., on other generators waste). Waste minimization techniqaues are incorporated to the extent practical at the T Plant Complex including segregation of low-level from mixed.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2004 to 2008, new goals will be evaluated and identified on a year-by-year basis. The T Plant Complex does not track waste reduction by treatabiity groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** WRAP **Waste Stream:** Non-O/C Inorganic Hazardous Debris

Treatability Group Name: MLLW-04B - Non-O/C Hazardous Debris

1.2 **Applicable profile number(s) for this waste stream:**

WSRd 647.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

This waste includes hazardous inorganic debris and other incidental non-debris material commingled.

1.3.2 **History of how and where the waste was/is generated:**

This waste originated from non WRAP processes.

1.3.3 **Source of the regulated constituents:**

Hazardous constituents most likely entered the waste as chemicals used during analytical processes.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

Waste from WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repacking mission.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

This waste was generated at Hanford facilities.

2.1.2 **Timeframe when waste was placed to storage?**

Most MLLW at WRAP is recently generated waste that is being verified as part of the LLW waste acceptance process.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2404WB	2
2336W	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.620

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory fluctuates daily to support WRAP's mission of waste verification. Inventory based on Drum Management System (DMS) printout dated 12/31/03.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

To the extent practical, all mixed waste is segregated and packaged separately from LLW or TRU wastes. The volume of mixed waste is reduced by in-drum compaction when possible, and where it does not interfere with future treatment activities. To minimize the generation of mixed waste, generators actively seek nondangerous alternatives for the dangerous constituents in their processes. Minimization goals are set annually and tracked quarterly, and waste treatment is used to destroy the hazardous constituents, as allowable.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and treated for direct disposal, no additional waste minimization activities are planned. WRAP does not generate this waste stream, rather this waste stream is generated by various generating facilities.

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LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-05 - Elemental Lead

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that is determined to meet the "Radioactive Lead Solids Subcategory" as described in 40 CFR 268.40. Applicable WSRds for this treatability group are: EPB, 800, 801, 802, 803. This treatability group consists of many different forms of radioactive lead solids including bricks, sheets, shot-filled blankets, lead-lined debris items where the lead comprises more than 50% of the waste matrix. The waste was and is generated by many onsite generating organizations and offsite generators.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 12.066

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	0.890		
2006	21.220		
2007	19.600		
2008	14.700		
2009	13.000		
Total	69.410		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. However, there is high confidence that the waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☐ Liquid ☐ Semi-solid ☐ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste received under the Waste Specification System (WSS) has a high confidence level that the physical matrix characteristics meet the waste stream description. Waste received prior to the WSS being implemented has a low to medium confidence level. For this older waste, the matrix characterization may be assessed prior to sending it to treatment and disposal. If during the assessment process, it is determined that some of the waste does not meet the MLLW-05 waste stream description, it will be reassigned into the appropriate waste stream (e.g., MLLW-04A or -04B).

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D002	Corrosive	Corrosive Charac.	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D004	TC-Arsenic	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D005	TC-Barium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D006	TC-Cadmium	Cadmium Charac.	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D007	TC-Chromium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D008	TC-Lead	Rad. Lead Solids	***	***	MACRO (40 CFR 268.40)
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D010	TC-Selenium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D011	TC-Silver	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D018	Benzene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D030	2,4-Dinitrotoluene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D033	Hexachlorobutadiene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D035	Methyl Ethyl Ketone	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D043	Vinyl Chloride	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F002	Methylene Chloride	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F003	Acetone & Hexone	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
WSC2	Solid Corrosive Acid	N/A	***	***	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	None (1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHC identification not required for D008 radioactive lead solids and hazardous debris when using alternative treatment standards for hazardous debris.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☒ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

LDR REPORT TREATABILITY GROUP DATA SHEET

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☐ Yes ☒ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☐ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Waste received under the WSS has a high confidence level that the regulated contaminant characteristics meet the prescribed treatability group. Waste received prior to the WSS implementation has a low to medium confidence level and may require assessing the characterization prior to sending it to treatment and disposal. If, during the assessment process, it is determined that some of the waste does not meet the MLLW-05 Treatability Group, then it will be reassigned into the appropriate waste stream (e.g., MLLW-04A or -04B).

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☒ Yes ☐ No

If yes, provide details: Since 2003 this wastestream has been macroencapsulated in accordance with the requirements of 268.42 at PEcoS (Previously known as ATG).

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☒ Treating or plan to treat on site

☒ Treating or plan to treat off site

☒ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

RCRA specifies that this waste type (D008) be treated via macroencapsulation without using a sealed container. Treatment will be performed by means of onsite and offsite commercial treatment contracts, and/or by onsite treatment units.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☐ Yes ☐ No ☒ Unknown

If yes, describe: When feasible and/or practical, decontamination and segregation will be performed on this waste to reduce the ultimate disposal volumes.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

To dispose of non-F001-F005 listed waste, the ETF delisting petition must be modified to manage the leachate generated from the mixed waste trenches.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste ultimately will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 324 **Waste Stream:** Elemental Lead

Treatability Group Name: MLLW-05 - Elemental Lead

1.2 **Applicable profile number(s) for this waste stream:**

N/A

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Lead blocks, lead bricks, lead blankets, lead sheets, and lead shot.

1.3.2 **History of how and where the waste was/is generated:**

Lead items were used for shielding or counter balances.

1.3.3 **Source of the regulated constituents:**

Lead.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	19.200		
2007	19.200		
2008	12.800		
2009	12.800		
Total	64.000		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Assessment not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Lead items will be reused, excessed or recycled. Purchasing of new lead materials will be limited.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 327 **Waste Stream:** Elemental Lead

Treatabilitiy Group Name: MLLW-05 - Elemental Lead

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Lead bricks, lead sheets, lead blankets, and lead shot.

1.3.2 History of how and where the waste was/is generated:

Lead items were used to provided shielding, or were used as manipulator counter balances.

1.3.3 Source of the regulated constituents:

Lead.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	1.500		
2007	0.000		
2008	1.500		
2009	0.000		
Total	3.000		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Excess of unused and uncontaminated lead. Purchasing of new lead items will be limited.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** Elemental Lead

Treatabilitiy Group Name: MLLW-05 - Elemental Lead

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

The waste consists of elemental lead solids (bricks, shot, gloves, shielding, etc.). The lead may be commingled with heterogeneous debris or the lead may be a component of a debris article.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☒ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage began at CWC in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	58
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 11.650

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in SWITS for WSRds EPB, 601, 800, 801, and 802.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** PFP **Waste Stream:** Elemental Lead

Treatabilitiy Group Name: MLLW-05 - Elemental Lead

1.2 **Applicable profile number(s) for this waste stream:**

PFPX-800-0002

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Elemental lead previously used for shielding. Radioactive lead solids LDR subcategory.

1.3.2 **History of how and where the waste was/is generated:**

Elemental lead previously used for shielding.

1.3.3 **Source of the regulated constituents:**

Intrinsically hazardous.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Analytical data, process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 **How was the waste managed prior to storage?**

N/A

2.1.2 **Timeframe when waste was placed to storage?**

N/A

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Lead is used as shielding prior to being declared waste. Lead will not be stored, it will go to a satellite accumulation area/90 day accumulation area.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.690		
2006	0.320		
2007	0.200		
2008	0.200		
2009	0.000		
Total	1.410		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

Will be characterized before transfer to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☒ Yes ☐ No

If yes, provide date assessment conducted: CY 2001

If yes, provide document number or other identification:

PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter# M2100-02-016

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP routinely evaluates the use of lead to ensure that its use is appropriate and necessary. Lead with no justifiable use will be either recycled, if possible, or discarded as waste and not reordered.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** T Plant Complex **Waste Stream:** Elemental Lead

Treatabilitiy Group Name: MLLW-05 - Elemental Lead

1.2 **Applicable profile number(s) for this waste stream:**

800

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Radioactive lead solids.

1.3.2 **History of how and where the waste was/is generated:**

Light-bulb tips.

1.3.3 **Source of the regulated constituents:**

See 1.3.1 and 1.3.2

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Process knowledge.

1.3.5 **Additional notes:**

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☒ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☐ Tank	☐ DST	☐ SST
☐ Other (explain):	If this waste is received and/or generated by the T Plant Complex is CY 2004, this waste could be stored in outdoor storage pads or within buildings or other types of structures.	

2.1.1 **How was the waste managed prior to storage?**

Waste could be generated during routine maintenance and packaged accordingly.

2.1.2 **Timeframe when waste was placed to storage?**

2002.

2.2 **Storage inventory locations:**

Building/Room Number	Number of Containers/Tanks
T Plant Complex	2

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.416

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.200		
2006	0.200		
2007	0.200		
2008	0.200		
2009	0.200		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

To the extent practical, all mixed waste waste is segregated and packaged separately from LLW. The volume of mixed waste is reducted by compoaction where possible. To minimize the generation of mixed waste, T Plant Complex personnel actively seek non-dangerous waste alternatives. In addition, waste minimization goals are set annually and tracked quarterly.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2004 goal to reduce, where possible, mixed waste generation. For FY 2003 to 2008, new goals will be evaluated and idnetified on a year-by-year basis. T Palnt Comples does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Wmin/P2 group.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-06 - Elemental Mercury

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that is determined to meet the "Elemental Mercury Contaminated with Radioactive Materials" subcategory as described in 40 CFR 268.40. Applicable WSRds for this treatability group are: EHG, HHG, 810, 811, and 812. This treatability group consists of liquid mercury, partially amalgamated mercury, mercury spill cleanups, and some debris waste items packaged in with the mercury waste.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 15.440

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].

Year	m^3	and/or	kg
2005	0.690		
2006	0.520		
2007	0.200		
2008	0.400		
2009	0.000		
Total	1.810		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☒ Contact-handled ☐ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

Since this waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. However, there is a high confidence that the waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☐ Liquid ☒ Semi-solid ☐ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste received under the Waste Specification System (WSS) has a high confidence level. Waste received prior to the implementation of the WSS has a low to medium confidence level. For this older waste, the matrix characterization will be assessed prior to being sent to treatment and disposal. If during the assessment process, it is determined that some of the waste does not meet the MLLW-06 waste stream description, it will be reassigned into the appropriate waste stream (e.g., MLLW-02, MLLW-03, etc.).

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatmeat Concentratioa Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	DEACT and meet 268.48 standards, or RORGS; or CMBST
D002	Corrosive	Corrosive Charac.	***	***	DEACT and meet 268.48 standards
D003	Reactive Waste	Cyanide	***	***	590 (Total) 30 (Amenable)
D003	Reactive Waste	Sulfide	***	***	DEACT
D004	TC-Arsenic	N/A	***	***	5.0 mg/l tclp and meet 268.48 standards
D005	TC-Barium	N/A	***	***	21 mg/l tclp and meet 268.48 standards
D006	TC-Cadmium	Cadmium Charact.	***	***	0.11 mg/l tclp and meet 268.48 standards
D007	TC-Chromium	N/A	***	***	0.60 mg/l tclp and meet 268.48 standards
D008	TC-Lead	Lead Charac.	***	***	0.75 mg/l tclp and meet 268.48 standards
D009	TC-Mercury	Elemental	***	***	Amalgamation
D009	TC-Mercury	High Mercury	>260 mg/kg	***	RMERC
D011	TC-Silver	N/A	***	***	0.14mg/l tclp and meet 268.48 standards
D018	Benzene	N/A	***	***	***
D019	Carbon Tetrachloride	N/A	***	***	6 and meet 268.48 standards
D022	Chloroform	N/A	***	***	6 and meet 268.48 standards
D028	1,2-Dichloroethane	N/A	***	***	6 and meet 268.48 standards
D029	TC-1,1-Dichloroethylene	N/A	***	***	6.0 and Meet 268.48 standards
D030	TC-2,4-Dinitrotoluene	N/A	***	***	140 and meet 268.48 standards
D033	TC-Hexachlorobutadiene	N/A	***	***	5.6 and meet 268.48 standards
D034	TC-Hexachloroethane	N/A	***	***	30 and meet 268.48 standards
D035	Methyl Ethyl Ketone	N/A	***	***	36 and meet 268.48 standards

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D036	TC-Nitrobenzene	N/A	***	***	14 and meet 268.48 standards
D038	TC- Pyridine	N/A	***	***	16 and meet 268.48 standards
D039	TC- Tetrachloroethylene	N/A	***	***	6 and meet 268.48 standards
D040	Trichloroethylene	N/A	***	***	6 and meet 268.48 standards
D043	TC- Vinyl Chloride	N/A	***	***	6 and meet 268.48 standards
F001	F001 - F005 constituents	F001 - F005	***	***	***
F002	Methylene Chloride	Spent Solvent	***	***	30 and meet 268.48 standards
F003	Acetone	Spent Solvent	***	***	160 and meet 268.48 standards
F004	F001 - F005 constituents	F001 - F005	***	***	***
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	36 and meet 268.48 standards
P120	Vanadium pentoxide	N/A	***	***	STABL
U151	Mercury	Elemental	***	***	Amalgamation
WP01	Persistant, EHW	N/A	***	***	None (1)
WSC2	Solid Corrosive	N/A	***	***	Remove solid-acid charac.
WT01	Toxic, EHW	N/A	***	***	NONE(1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

***The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHC identification not required for D009 elemental mercury and hazardous debris when using the alternative treatment standards for hazardous debris.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

LDR REPORT TREATABILITY GROUP DATA SHEET

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☒ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☐ Yes ☒ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☐ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☐ < 50 ppm ☐ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Waste received under the WSS has a high confidence level. Waste received prior to the implementation of the WSS has a low to medium confidence level. Much of the elemental mercury has been amalgamated by the generator due to spill cleanups and safe handling concerns. However, the amalgamation has not been certified as meeting the LDR treatment standard AMLGM. A good portion of the currently stored inventory of this waste will require characterization verifications prior to it being sent to treatment and disposal.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☐ Yes ☒ No

If yes, provide details: N/A

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☐ Treating or plan to treat on site

☐ Treating or plan to treat off site

☒ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Mercury amalgamation per the Treatment Standards for Hazardous Wastes (40 CFR 268.40) is the specified treatment technology for elemental mercury. Treatment will be performed by means of commercial contracts, and/or by onsite treatment units. Currently, there is very limited treatment capacity in the U.S. for this waste treatability group.

LDR REPORT TREATABILITY GROUP DATA SHEET

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
N/A	N/A

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☐ Yes ☐ No ☐ Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

A treatability equivalency may be pursued for this treatability group due to the physical form (partially amalgamated) of much of the waste in this group. A separate request is being considered on the DOE complex level to provide a variance that allows macroencapsulation of mercury-containing batteries instead of RMERC.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste ultimately will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: 327 **Waste Stream:** Elemental Mercury

Treatabilitiy Group Name: MLLW-06 - Elemental Mercury

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded pressure switches, and thermostats.

1.3.2 History of how and where the waste was/is generated:

Used pressure switches, and thermostats in radiological contaminated areas.

1.3.3 Source of the regulated constituents:

Pressure switches and thermostats containing hazardous constituents.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): N/A

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.200		
2007	0.000		
2008	0.200		
2009	0.000		
Total	0.400		

2.7 DOE Storage Compliance Assessment information:

☐ Assessment has been completed.

Document Number	Date

☐ Assessment has been scheduled. Scheduled date:

☒ Other. Explain: Storage assessment not required.

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Not scheduled at this time.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Recycling of radiological released thermostats and pressure switches, when possible.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Facility deactivation and surveillance/maintenance planning.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** Elemental Mercury

Treatabilitiy Group Name: MLLW-06 - Elemental Mercury

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

This waste stream consists of elemental mercury, amalgamated mercury, and debris articles containing small amounts of elemental mercury in their components (mercury switches, thermometers, etc).

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and by offsite generators.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data and process knowledge.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage at CWC began in 1988 and continues.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	76

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 15.230

Date of inventory values: 12/29/2004

Comments on waste inventory:

Volumes based on SWITS information for WSRds EHG, HHG, 422, 500, 606, 626, 646, 647, 800, 801, 810, 811, and 812.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

N/A

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: PFP **Waste Stream:** Hg, Elemental

Treatabilitiy Group Name: MLLW-06 - Elemental Mercury

1.2 Applicable profile number(s) for this waste stream:

To be determined.

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Discarded pressure switches and thermostats. Elemental mercury LDR subcategory.

1.3.2 History of how and where the waste was/is generated:

Used pressure switches and thermostats in radiological contaminated areas.

1.3.3 Source of the regulated constituents:

Pressure switches and thermostats containing hazardous constituents.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge

1.3.5 Additional notes:

None

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

☐ Container (pad) ☐ Container (covered) ☐ Container (retrievably buried)

☐ Tank ☐ DST ☐ SST

☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

N/A

2.1.2 Timeframe when waste was placed to storage?

N/A

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.000

Date of inventory values: 12/31/2004

Comments on waste inventory:

Waste is being accumulated in SAA.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

None.

2.5 Planned storage areas for this waste:

☐ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list): NA

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.690		
2006	0.320		
2007	0.200		
2008	0.200		
2009	0.000		
Total	1.410		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
PFP Env. Compliance Assess.; Ltr. #01-A&E-129	09/13/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain:

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.12 Other key assumptions related to storage, inventory, and generation information:

None

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

See section 3.2 below.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

PFP routinely evaluates the use of mercury to ensure that it is appropriate and necessary. Mercury with no justifiable use will be either recycled, if possible, or discarded as waste and not reorded.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: WRAP **Waste Stream:** Elemental Mercury

Treatabilitiy Group Name: MLLW-06 - Elemental Mercury

1.2 Applicable profile number(s) for this waste stream:

WSRd 810

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Elemental mercury

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and also by offsite generators.

1.3.3 Source of the regulated constituents:

Hazardous constituents were generated at various Hanford Site generator locations (e.g. PFP, 222S, etc.)

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge.

1.3.5 Additional notes:

Waste at WRAP comes from various generators and generating processes around the Hanford Site due to WRAP's verification and repackaging mission.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain): N/A

2.1.1 How was the waste managed prior to storage?

Waste was generated and packaged at a Hanford generating facility.

2.1.2 Timeframe when waste was placed to storage?

Most MLLW at WRAP is recently generated waste that is being verified as part of the waste acceptance process.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
2404WB	1

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.210

Date of inventory values: 12/31/2004

Comments on waste inventory:

Inventory based on Drum Management System (DMS) printout dated 12/31/03.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

Due to proximity to and interchange with CWC, there is no storage capacity issue at WRAP.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
DE-AC06-96RL13200	09/26/2001

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to CWC. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted:

If yes, provide document number or other identification:

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Through source reduction, waste minimization practices are being employed to ensure that the generation of this stream is being minimized. Additional waste is not expected to be generated in the future.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated and will be treated for directly disposal, no additional waste minimization activities are planned. WRAP does not generate this waste stream, rather will receive waste for further processing from other generating facilities.

LDR REPORT TREATABILITY GROUP DATA SHEET

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group Name: MLLW-07 - RH and Large Container

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

WSRds: DBL, HRW, 450, 550, 650, All MLLW WSRds(except for 930 and 931) packages greater than or equal to 10 cubic meters, and All MLLW WSRds (except for 930 and 931) high Rad Waste defined per the Treatability Group Cross-Matrix. This waste stream is comprised of RH-MLLW with various chemical (organics, inorganics, metals) and physical (particulates, debris, sludges, etc.) characteristics. Many different regulated constituents could be represented in this waste stream; however, the primary waste type is heterogeneous debris from the SST/DST Systems operations. This waste stream also contains waste in oversized containers, not typically suited for commercial treatment, that will be treated using the M-91 MLLW capability.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters): 226.820

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m^3	and/or	kg
2005	1.514		
2006	0.514		
2007	0.514		
2008	0.514		
2009	0.514		
Total	3.570		

3.0 WASTE STREAM CHARACTERIZATION

3.1 Radiological Characteristics

3.1.1 Mixed waste type: ☐ High-level ☐ Transuranic ☒ Low-level

3.1.2 Handling (as package contents would need to be handled during treatment):

☐ Contact-handled ☒ Remote-handled

3.1.3 Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):

RH waste must be shielded down to CH levels before it can be accepted into the CWC; therefore, RH waste packages in CWC are actually input into SWITS as CH. To determine if a CWC waste package contains RH waste, the radionuclide, dose rate, physical form and generator information in SWITS is reviewed for clues that might lead a reviewer to believe a waste may be RH.

LDR REPORT TREATABILITY GROUP DATA SHEET

3.2 Physical Form

3.2.1 Physical form of the waste:

☒ Solid ☒ Liquid ☒ Semi-solid ☐ Debris

☒ Other (Describe in comments.)

3.2.2 Comments on physical form:

Waste received under the Waste Specification System (WSS) has a high confidence level. Waste received prior to the implementation of the WSS has a low to medium confidence level. For this older waste, the matrix characterization will be verified prior to being sent to treatment and disposal. If during the verification process, it is determined that some of the waste does not meet the MLLW-07 waste stream description, it will be reassigned into the appropriate waste stream (e.g., MLLW-02, MLLW-03, etc.).

3.3 Regulated constituents and wastewater/non-wastewater category

3.3.1 Wastewater/non-wastewater under RCRA

☐ Wastewater ☒ Non-wastewater ☐ Unknown

3.3.2 Regulated constituents table including treatment requirements and UHCs, if applicable.

LDR REPORT TREATABILITY GROUP DATA SHEET

EPA/ State Number	Waste Description	LDR Sub-Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ingnitable charac.	***	***	DEACT & meet 40 CFR 268.48
D002	Corrosive	Corrosiv charac.	***	***	DEACT & meet 40 CFR 268.48
D005	Barium Characteristic	N/A	***	***	21 mg/l tclp and meet 268.48 standards
D006	TC-Cadmium	Cadmium charac	***	***	0.11 mg/l TCLP & meet 40 CFR 268.48
D007	TC-Chromium	N/A	***	***	0.60 mg/l TCLP & meet 40 CFR 268.48
D008	TC-Lead	Lead charac.	***	***	0.75 mg/l TCLP & meet 40 CFR 268.48
D011	TC-Silver	N/A	***	***	0.14 mg/l TCLP & meet 40 CFR 268.48
D026	Cresols(Total)	N/A	***	***	11.2 and meet 268.48 standards
D035	Methyl Ethyl Ketone	N/A	***	***	36 and meet 268.48 standards
F001	1,1,1-Trichlorethane	Spent Solvent	***	***	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	***	***	30 mg/kg
F003	Acetone & Hexone	Spent Solvent	***	***	160 mg/kg
F004	o-Cresol & p-Cresol	Spent Solvent	***	***	5.6 mg/kg
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	36 mg/kg
WP01	Persistent, EHW	N/A	***	***	NONE(1)
WP02	Persistent, DW	N/A	***	***	N/A
WT01	Toxic, EHW	N/A	***	***	NONE (1)
WT02	Toxic, DW	N/A	***	***	N/A

* LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

*** The concentration varies and is based on process knowledge and/or analytical data.

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHCs to be determined on a per package basis during waste "up-grading" and/or when the waste is sent for treatment.

3.3.3 List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.

☐ List:

LDR REPORT TREATABILITY GROUP DATA SHEET

☐ No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)

☒ None (i.e. all constituents/waste numbers of this waste stream still require treatment).

3.3.4 Does this waste stream contain PCBs?

☒ Yes ☐ No ☐ Unknown

If no or unknown, skip to Section 3.3.5.

3.3.4.1 Is waste stream subject to TSCA regulations for PCBs?

☒ Yes ☐ No ☐ Unknown

3.3.4.2 Indicate the PCB concentration range.

☒ < 50 ppm ☒ $ 50 ppm ☐ Unknown

3.3.5 What is the confidence level for the regulated constituents?

☐ Low ☒ Medium ☐ High

3.3.6 Comments on regulated constituents and wastewater/non-wastewater category:

Subject waste may undergo characterization verifications as part of the past-practice waste stream upgrading program. Once the waste meets all the upgrading requirements, it will be assigned to the appropriate WSS WSRd associated with the proper waste stream. Portions of the waste have met the rigors of the WSS for waste storage and treatment. However, the WSS came into effect in 1995 and was based on the dangerous waste regulations imposed at that time. There have been several changes to the dangerous waste regulations since then that impose additional characterization requirements onto the generator, namely identification of UHCs for all waste designated with a characteristic waste code (i.e., D001 through D043). With changes in TSCA, TSCA regulated amounts of PCBs are possible in this wastestream. During additional characterization and verification the appropiate treatabilty group will be assigned.

4.0 WASTE STREAM TREATMENT

4.1 Is this waste stream currently being treated?

☐ Yes ☒ No

If yes, provide details: N/A

LDR REPORT TREATABILITY GROUP DATA SHEET

4.2 Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.

☐ No treatment required (skip to Section 5.0)

☐ Treating or plan to treat on site

☐ Treating or plan to treat off site

☒ Treatment options still being assessed

4.3 Planned treatment method, facility, extent of treatment capacity available:

Treatment options are being addressed as part of the Project Management Plan specified in TPA Milestone M-91-10.

4.4 Treatment schedule information:

Treatment will be performed in accordance with M-91 milestones and target dates after they have been finalized.

4.5 Applicable Tri-Party Agreement treatment milestone numbers (including permitting):

Milestone Number	Due Date
M-091-10	06/30/1999
M-091-15	06/30/2008

4.6 Proposed new Tri-Party Agreement treatment milestones:

None

4.7 If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?

☐ Yes ☐ No ☐ Unknown

If yes, describe: N/A.

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste ultimately will be disposed of in mixed waste trenches located on the Hanford Site.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 **Unit/Plant name:** 325 HWTU **Waste Stream:** MLLW-07 RH

Treatabilitiy Group Name: MLLW-07 - RH and Large Container

1.2 **Applicable profile number(s) for this waste stream:**

PNNL ships shielded debris under the following profile: PNNL-650-0001-00.

1.3 **Waste stream source information**

1.3.1 **General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):**

Subject waste is generated from PNNL laboratory and hot cell operations.

1.3.2 **History of how and where the waste was/is generated:**

Waste is generated from routine operations at PNNL. - Laboratory analysis (physical and chemical) and other testing conducted on SST/DST waste and other high dose-rate substances and wastes.

1.3.3 **Source of the regulated constituents:**

This waste stream consists of liquid waste and debris contaminated with inorganic and organic regulated dangerous waste constituents.

1.3.4 **Source of the information (e.g., analytical data, process knowledge, document number, etc.)**

Wastes are characterized as specified in PNNL Waste Stream Profiles.

1.3.5 **Additional notes:**

Wastes are shielded to meet CH dose limits for CWC before shipping.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 **Current storage method**

☐ Container (pad)	☒ Container (covered)	☐ Container (retrievably buried)
☒ Tank	☐ DST	☐ SST
☐ Other (explain):		

2.1.1 **How was the waste managed prior to storage?**

Containerized waste was managed in 90 day accumulation areas or SAAs within the hot cells prior to being transferred to this storage area. Wastes in the tank were placed directly there when generated via gravity drain.

2.1.2 **Timeframe when waste was placed to storage?**

Waste was placed in storage between 2/7/01 and 12/7/04.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
325/520	0
325/524	5
325/528	8
325/SAL	1

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.760

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

N/A

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.514		
2006	0.514		
2007	0.514		
2008	0.514		
2009	0.514		
Total	2.570		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Document Number	Date
A&E-DWR-02-004	05/31/2002

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-091-43A	12/31/2008

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☐ Yes ☐ No ☒ Unknown at this time

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

Depending on the treatment methods and standards ultimately selected for these wastes, treated waste may need to be analyzed to verify compliance with concentration-based LDR standards.

2.12 Other key assumptions related to storage, inventory, and generation information:

The inventory information is for what is currently in storage in the specified HWTU location(s).

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

Assessment date to be determined.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

Laboratory staff routinely evaluate their processes to determine if less reagent volume or a less hazardous reagent can be used in the process. The Radioactive Waste Operations Group routinely assess the possibility of consolidating items for shipment to CWC.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

Projects generating wastes usually have strict requirements for process outcomes. Hence, it is not possible to project specific volume reductions. As noted in Section 3.2, each project generating this waste type is reviewed to assure that waste volumes generated are minimized.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: CWC **Waste Stream:** MLLW-07

Treatabilitiy Group Name: MLLW-07 - RH and Large Container

1.2 Applicable profile number(s) for this waste stream:

N/A

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Subject waste is from various sources, however, the primary waste type is heterogeneous debris from the SST/DST Systems operations. Waste also includes pre-FFCA waste from the Navy.

1.3.2 History of how and where the waste was/is generated:

The waste was generated at many onsite locations and by the Navy.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Analytical data; process knowledge.

1.3.5 Additional notes:

Waste is shielded to meet contact handled dose limits for CWC.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☐ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Accumulated and packaged by waste generators prior to storage at CWC.

2.1.2 Timeframe when waste was placed to storage?

Waste storage in CWC began in 1988 and continues.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
CWC	45
N/A	N/A

2.3 Current stored inventory for this stream.

Total volume (cubic meters): 225.440

Date of inventory values: 12/29/2004

Comments on waste inventory:

Based on inventory residing at the CWC as reported in the SWITS for WSRds 315, 601, 621, 627, 641, 647, 650, DBL, DBR, and HRW.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

No issues with CWC storage based on 20 year waste generation forecast.

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
A&E-SEC-02-001	01/21/2002

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

☐ Assessment has been scheduled. Scheduled date:

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
M-020-12	10/31/1991

2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

N/A

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

None planned - waste not generated at CWC.

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

LDR REPORT WASTE LOCATION-SPECIFIC DATA SHEET

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1 Unit/Plant name: T Plant Complex **Waste Stream:** RH and Large Container

Treatabilitiy Group Name: MLLW-07 - RH and Large Container

1.2 Applicable profile number(s) for this waste stream:

450

1.3 Waste stream source information

1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):

Savanah River sample returns.

1.3.2 History of how and where the waste was/is generated:

Waste originally came from Tank Farms.

1.3.3 Source of the regulated constituents:

See 1.3.1 and 1.3.2.

1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)

Process knowledge and analytical data.

1.3.5 Additional notes:

None.

2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION

(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)

2.1 Current storage method

- ☒ Container (pad)
- ☒ Container (covered)
- ☐ Container (retrievably buried)
- ☐ Tank
- ☐ DST
- ☐ SST
- ☐ Other (explain):

2.1.1 How was the waste managed prior to storage?

Generated by Tank Farms.

2.1.2 Timeframe when waste was placed to storage?

2000

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks
T Plant Complex	3

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2.3 Current stored inventory for this stream.

Total volume (cubic meters): 0.620

Date of inventory values: 12/31/2004

Comments on waste inventory:

None.

2.4 Is storage capacity at this location potentially an issue for this waste stream?

☐ Yes ☒ No

If yes, what is the total estimated storage capacity? N/A

When is this capacity expected to be reached? N/A

Bases and assumptions used:

2.5 Planned storage areas for this waste:

☒ Current Location ☒ CWC ☐ DST

☐ Other Area(s) (list):

☐ None

2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):

Year	m^3	and/or	kg
2005	1.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	1.000		

2.7 DOE Storage Compliance Assessment information:

☒ Assessment has been completed.

Document Number	Date
01-A&E-012	11/28/2000

☒ Assessment has been scheduled. Scheduled date: 3rd quarter CY2005

☐ Other. Explain:

2.8 Applicable Tri-Party Agreement milestones related to storage at this location:

Milestone Number	Due Date
N/A	N/A

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2.9 Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?

☐ Yes ☒ No

If yes, summarize releases and quantities and provide date:

N/A

2.10 Are there any plans to submit requests for variances or other exemptions related to storage?

☐ Yes ☒ No

If yes, explain: N/A

2.11 Characterization

2.11.1 Is further characterization needed about the waste prior to acceptance for storage?

☐ Yes ☒ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for storage.

N/A

2.11.2 Is further characterization needed about the waste prior to acceptance for treatment?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for treatment.

Will be completed during activities to facilitate transfer of the container to onsite TSD unit or offiste TSD facility. No commitment is necessary for the characterization needs on this MLLW.

2.11.3 Is further characterization needed about the waste prior to acceptance for disposal?

☒ Yes ☐ No ☐ Unknown at this time

Milestone Number	Due Date
N/A	N/A

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

None.

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3.0 WASTE MINIMIZATION

3.1 Has a waste minimization assessment been completed for this stream?

☐ Yes ☒ No

If yes, provide date assessment conducted: N/A

If yes, provide document number or other identification:

N/A

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

These activities occur before waste is shipped to the T Plant Complex. During treatment/bulking sample returns, efforts are taken to minimize the generation of mixed waste.

3.3 Waste minimization schedule

3.3.1 Reduction achieved during calendar year 2004 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

Year	m^3	and/or	kg
2005	0.000		
2006	0.000		
2007	0.000		
2008	0.000		
2009	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation of this waste by T Plant Complex other than during treatment/bulking sample returns.