

ANNEX C to ATTACHMENT F

*CROSSWALK OF TRANSURANIC WASTE BASELINE INVENTORY REPORT REVISION
2/3 AND 2003 UPDATE WASTE STREAMS*

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Table of Contents

1

2 ***DATA-F-C-1.0 INTRODUCTION.....1***

3 ***DATA-F-C-1.1 Argonne National Laboratory-East1***

4 ***DATA-F-C-1.2 Argonne National Laboratory-West.....2***

5 ***DATA-F-C-1.3 Battelle Columbus Laboratories.....2***

6 ***DATA-F-C-1.4 Bettis Atomic Power Laboratory4***

7 ***DATA-F-C-1.5 Energy Technology Engineering Center4***

8 ***DATA-F-C-1.6 Hanford Site.....5***

9 ***DATA-F-C-1.7 Idaho National Engineering and Environmental***

10 ***Laboratory.....18***

11 ***DATA-F-C-1.8 Knolls Atomic Power Laboratory.....19***

12 ***DATA-F-C-1.9 Lawrence Berkeley National Laboratory.....22***

13 ***DATA-F-C-1.10 Lawrence Livermore National Laboratory23***

14 ***DATA-F-C-1.11 Los Alamos National Laboratory.....23***

15 ***DATA-F-C-1.11.1 Redefinition of Waste Streams.....23***

16 ***DATA-F-C-1.11.2 Addition of Waste24***

17 ***DATA-F-C-1.11.3 Radiography Characterization Data.....24***

18 ***DATA-F-C-1.12 Nevada Test Site.....26***

19 ***DATA-F-C-1.13 Oak Ridge National Laboratory26***

20 ***DATA-F-C-1.13.1 Waste Streams.....26***

21 ***DATA-F-C-1.13.2 TRUCON Codes.....26***

22 ***DATA-F-C-1.13.3 EPA Codes27***

23 ***DATA-F-C-1.13.4 Radionuclides27***

24 ***DATA-F-C-1.13.5 Packaging28***

25 ***DATA-F-C-1.13.6 Volumes.....28***

26 ***DATA-F-C-1.14 Paducah Gaseous Diffusion Plant29***

27 ***DATA-F-C-1.15 Rocky Flats Environmental Technology Site29***

28 ***DATA-F-C-1.16 Sandia National Laboratories35***

29 ***DATA-F-C-1.16.1 Inventory Changes.....35***

30 ***DATA-F-C-1.17 Savannah River Site.....36***

31 ***DATA-F-C-1.18 U.S. Army Material Command.....37***

32 ***DATA F-C-1.19 West Valley Demonstration Project.....37***

33 ***REFERENCES.....39***

List of Tables

35 ***Table DATA-F-C-1. Argonne National Laboratory-East Crosswalk of Waste***

36 ***Streams TWBIR Revision 2 vs 2003 Update Report..... 2***

37 ***Table DATA-F-C-2. Argonne National Laboratory-West Crosswalk of Waste***

38 ***Streams TWBIR Revision 2 vs 2003 Update Report..... 3***

39 ***Table DATA-F-C-3. Battelle Columbus Laboratories Crosswalk of Waste Streams***

40 ***TWBIR Revision 2 to 2003 Update Report 4***

41 ***Table DATA-F-C-4. Energy Technology and Engineering Center Crosswalk of***

42 ***Waste Streams TWBIR Revision 2 vs 2003 Update Report..... 5***

1	<i>Table DATA-F-C-5</i>	<i>Hanford Site (RL) Crosswalk of Waste Streams TWBIR</i>	
2		<i>Revision 2 vs 2003 Update Report.....</i>	<i>5</i>
3	<i>Table DATA-F-C-6.</i>	<i>Idaho National Engineering and Environmental Laboratory</i>	
4		<i>Crosswalk of Waste Streams TWBIR Revision 2 vs 2003</i>	
5		<i>Update Report.....</i>	<i>19</i>
6	<i>Table DATA-F-C-7.</i>	<i>Lawrence Berkeley National Laboratory Crosswalk of Waste</i>	
7		<i>Streams TWBIR Revision 2 to the 2003 Update Report.....</i>	<i>23</i>
8	<i>Table DATA-F-C-8.</i>	<i>Lawrence Livermore National Laboratory Crosswalk of Waste</i>	
9		<i>Streams TWBIR Revision 2 vs 2003 Update Report.....</i>	<i>23</i>
10	<i>Table DATA-F-C-9.</i>	<i>Los Alamos National Laboratory Crosswalk of Waste Streams</i>	
11		<i>TWBIR Revision 2 vs 2003 Update Report.....</i>	<i>24</i>
12	<i>Table DATA-F-C-10.</i>	<i>Nevada Test Site Laboratory Crosswalk of Waste Streams</i>	
13		<i>TWBIR Revision 2 vs 2003 Update Report.....</i>	<i>26</i>
14	<i>Table DATA-F-C-11.</i>	<i>Oak Ridge National Laboratory Crosswalk of Waste Streams</i>	
15		<i>TWBIR Revision 2 to 2003 Update Report.....</i>	<i>28</i>
16	<i>Table DATA-F-C-12.</i>	<i>Paducah Gaseous Diffusion Plant Laboratory Crosswalk of</i>	
17		<i>Waste Streams TWBIR Revision 2 to 2003 Update Report.....</i>	<i>29</i>
18	<i>Table DATA F-C-13.</i>	<i>Rocky Flats Environmental Technology Site Crosswalk of</i>	
19		<i>Waste Streams TWBIR Revision 2 to 2003 Update Report.....</i>	<i>29</i>
20	<i>Table DATA-F-C-14.</i>	<i>Sandia National Laboratories Crosswalk of Waste Streams</i>	
21		<i>TWBIR Revision 2 to 2003 Update Report.....</i>	<i>35</i>
22	<i>Table DATA-F-C-15.</i>	<i>Savannah River Site Crosswalk of Waste Streams TWBIR</i>	
23		<i>Revision 2 to 2003 Update Report.....</i>	<i>36</i>
24	<i>Table DATA-F-C-16.</i>	<i>U.S. Army Material Command.....</i>	<i>37</i>
25	<i>Table DATA-F-C-17.</i>	<i>West Valley Demonstration Project (WVDP) Crosswalk of</i>	
26		<i>Waste Streams TWBIR Revision 2 to 2003 Update Report.....</i>	<i>38</i>
27			

DATA-F-C-1.0 INTRODUCTION

This 2003 Update Report contains the update to the Transuranic Waste Baseline Inventory Report, Revision 2 (TWBIR Revision 2) (DOE 1995) and TWBIR Revision 3 (DOE 1996). The U.S. Environmental Protection Agency (EPA) is interested in the differences in the inventory between TWBIR Revisions 2/3 and this 2003 Update Report. The EPA used the TWBIR Revisions 2/3 data for the Compliance Certification Decision (EPA 1998) to initially certify Waste Isolation Pilot Plant (WIPP).

A crosswalk of the waste streams and a qualitative discussion of the changes are provided in this annex. Each transuranic (TRU) waste site with changes in their waste streams was requested to provide an explanation for the changes. There were no changes in the waste streams from the University of Missouri Research Reactor (MURR). New sites have been included in this update but are not included in this Annex. The new sites are: Framatome (FR), Hanford-River Protection (RP), General Electric Vallecitos Nuclear Center (GE), Separations Process Research Unit (SPRU), Babcock & Wilcox-Lynchburg (BL), and Knolls Atomic Power Laboratory-Nuclear Fuels Services (KN). Waste streams presented in this section include waste streams from both Annex I and Annex J.

In addition, several sites no longer have TRU waste on their sites. Those sites are: ARCO Medical Products (AM), Pantex (PX), Teledyne-Brown (TB), and Ames Laboratory (AL). Mound (MD) TRU waste is being shipped to and accounted for at Savannah River Site (SRS).

In the tables "NA" in the TWBIR Revision 2 Waste Streams column identifies a new waste stream in the 2003 Update. "NA" in the 2003 Update Report Waste Streams column identifies a deleted waste stream from TWBIR Revision 2.

DATA-F-C-1.1 Argonne National Laboratory-East

During the Argonne National Laboratory-East (ANL-E) 1996 data generation period for the TWBIR, the information submitted was the best available at the time. The ANL-E had a large number of bins (typically 3.5 m³ (123 ft³)¹ in size), in inventory that contained waste dating back to the late 1980s. These bins, containing various sized containers, were assigned a TRU waste designation by the generators based on the knowledge of the waste generation process. As a result, some of the waste may or may not have been TRU. There also was a quantity of various-sized containers that contained liquids or solids that made it difficult to determine what the final volume would be.

Subsequent to the TWBIR Revision 3 submittal, ANL-E embarked on an aggressive campaign to characterize, treat, and where appropriate repackage the TRU waste from the bins and containers identified and reported in the TWBIR Revision 3. Whenever possible, repackaging was performed that resulted in the waste being placed into 55-gallon drums for enhanced inventory identification and tracking, and also in preparation for eventual characterization and disposal. This repackaging process has resulted in a refinement of ANL-E's ability to more accurately quantify the TRU waste.

¹ The conversion factor used throughout this section is 1 m³ (35.32 ft³).

1 *In addition to improved inventory accountability through ANL-E repackaging efforts, an*
 2 *increase in the volume of TRU waste on hand at ANL-E resulted. Additionally, more TRU*
 3 *waste was generated since the TWBIR Revision 3 as a result of aggressive site-wide cleanup*
 4 *activities performed during the late 1990s.*

5 *Table DATA-F-C-1 contains the crosswalk of the waste streams from TWBIR Revision 2 to*
 6 *the 2003 Update Report.*

7 *Table DATA-F-C-1. Argonne National Laboratory-East Crosswalk of Waste Streams TWBIR*
 8 *Revision 2 vs 2003 Update Report*

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>AE-W041, AE-W042, AE-T001</i>	<i>AE-T001</i>
<i>AE-W038, AE-W039, AE-W040, AE-T003</i>	<i>AE-T003</i>
<i>AE-T009</i>	<i>AE-T009</i>

9 *DATA-F-C-1.2 Argonne National Laboratory-West*

10 *The increase in the TWBIR Revision 2 quantity of 26 m³ (918 ft³) to the 2003 Update Report*
 11 *quantity of 306 m³ (10,808 ft³) is caused by the inclusion of the waste volume that is suspect*
 12 *and may be TRU with waste that is known to be TRU.*

13 *The 280 m³ (9,890 ft³) of suspect TRU waste is difficult to characterize since it is typically*
 14 *mixed with highly radioactive waste and stored inside sealed steel in-ground silos at the ANL-*
 15 *Radioactive Scrap and Waste facility. Many of the suspect TRU silos were loaded in the 1960s*
 16 *and 1970s and do not have detailed inventory records that call out TRU isotopes.*

17 *A request for funding has been made to design and build a remote-handled waste treatment*
 18 *facility to unload, sort, characterize, treat and repackage the waste in these silos. Until this*
 19 *facility begins operation (scheduled in 2009), it is believed that it is wise to give an upper*
 20 *bound estimate of the Argonne National Laboratory-West (ANL-W) TRU waste that could*
 21 *potentially go to WIPP for disposal.*

22 *It may be important to note that the 306 m³ (10,808 ft³) number is the TRU inventory figure*
 23 *that ANL-W reported to the Inspector General during their April 2002 survey of remote-*
 24 *handled TRU waste site generator activities.*

25 *Table DATA-F-C-2 contains the crosswalk of the waste streams from the TWBIR Revision 2*
 26 *to the 2003 Update Report.*

27 *DATA-F-C-1.3 Battelle Columbus Laboratories*

28 *The initial baseline document reported only one waste stream – BC-T001 for Battelle*
 29 *Columbus Laboratories (BCL). This waste has been repackaged and characterized. As a*
 30 *result, better data were used to define multiple waste streams.*

31

1 **Table DATA-F-C-2. Argonne National Laboratory-West Crosswalk of Waste Streams TWBIR**
 2 **Revision 2 vs 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>AW-N026.82</i>	<i>AW-N026.82</i>
<i>AW-N027.531</i>	<i>AW-N027.531</i>
<i>AW-T029.1323</i>	<i>AW-W029</i>
<i>AW-T030.1321</i>	<i>N/A</i>
<i>AW-T031.1322</i>	<i>AW-T031.1322</i>
<i>AW-T032.1324</i>	<i>N/A</i>
<i>AW-T033.1325</i>	<i>AW-T033.1325</i>
<i>AW-T034.1327</i>	<i>N/A</i>
<i>AW-T035.1326</i>	<i>N/A</i>
<i>AW-W012.10</i>	<i>AW-W012.10</i>
<i>AW-W016.20</i>	<i>N/A</i>
<i>AW-W018</i>	<i>AW-W018</i>
<i>AW-W019</i>	<i>AW-W019</i>
<i>AW-W020.13</i>	<i>AW-W20.13</i>
<i>AW-W021.16</i>	<i>N/A</i>
<i>AW-W022.22</i>	<i>N/A</i>
<i>AW-W028</i>	<i>AW-W028</i>
<i>N/A</i>	<i>AW-W046</i>
<i>N/A</i>	<i>AW-W047</i>
<i>N/A</i>	<i>AW-W048</i>
<i>N/A</i>	<i>AW-W049</i>

3 *The inventory volume for the initial baseline of 580 m³ (20,486 ft³) was an estimate based on*
 4 *the storage vault and container dimensions and included the storage vaults, containers, and*
 5 *the research hot-cells internal volume, and all utilities. The current inventory of 35 m³ (1,236*
 6 *ft³) is well documented and characterized. An extensive sorting, segregation, compaction, and*
 7 *decontamination process reduced the initial inventory estimate by approximately 95 percent.*
 8 *The weight-dose-to-curie computer modeling program and database developed by the project*
 9 *allowed for the segregation of low-level waste from the TRU waste and helped reduce the*
 10 *initial inventory.*

11 *The waste matrix code for the initial inventory was S5400. The revised inventory is well*
 12 *defined and the Central Characterization Project (CCP) Acceptable Knowledge (AK)*
 13 *documentation is complete. New waste matrix codes for the waste streams were assigned. For*
 14 *example, there are several absorbed liquid waste streams and resins that require an S series*
 15 *waste matrix code. In addition, the Carlsbad Field Office (CBFO) has better defined the*
 16 *requirements for waste designation since the initial inventory baseline was issued.*

17 *Finally, TRUCON Codes were assigned for the new waste streams and were not known or*
 18 *required for RH-TRU for the initial inventory.*

1 *Table DATA-F-C-3 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 2 *2003 Update Report for BCL.*

3 *Table DATA-F-C-3. Battelle Columbus Laboratories Crosswalk of Waste Streams*
 4 *TWBIR Revision 2 to 2003 Update Report*

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>BC-T001</i>	<i>BCLRH-T001, BCLRH-T002, BCLRH-T003, BCLRH-T004, BCLRH-T005, BCLRH-T006, BCLRH-T007, BCLRH-T008, BCLRH-T009, BCLRH-T010, BCLRH-MT01, BCLRH-T011</i>
<i>N/A</i>	<i>BCLCH-MT01</i>

5 *DATA-F-C-1.4 Bettis Atomic Power Laboratory*

6 *The 1996 inventory report for Bettis Atomic Power Laboratory (BAPL) listed five waste*
 7 *streams: BT-T001 through BT-T005. Waste streams BT-T004 and BT-T005 were deleted, as*
 8 *these were radioactive sources that were subsequently placed in the Offsite Source Recovery*
 9 *(OSR) database. Waste stream BT-T003 consisted of waste containing uranium-233. As*
 10 *uranium-233 is no longer considered TRU from a waste disposal standpoint, this waste stream*
 11 *was deleted. This waste will be disposed of at a DOE low-level waste disposal site. Records*
 12 *indicate that the 1996 BT-T001 and BT-T002 volumes were 1.95 m³ (68.87 ft³) and 17.6 m³*
 13 *(621.6 ft³) respectively—essentially the same as the 2003 inventory values of 2 m³ (70.64 ft³)*
 14 *and 18.6 m³ (656.95 ft³).*

15 *DATA-F-C-1.5 Energy Technology Engineering Center*

16 *The original Energy Technology Engineering Center (ETEC) (1988) TRU waste was stored in*
 17 *12 drums and identified as two waste streams in 1995. That waste has been further*
 18 *characterized and is now identified as five waste streams based on origin and characteristics.*
 19 *The contents of one of the original 12 drums were split into 2 drums to meet Hanford's*
 20 *storage criteria; thus now 13 drums exist. Radiological properties have been revised based on*
 21 *detailed characterization of the ET-R2-D107 and ET-C2-SEFOR waste streams.*

22 *The drain line residue was originally stored in one-gallon paint cans in concrete-shielded*
 23 *drums, plus material in two weir boxes and a 3,000-gallon container. That waste was*
 24 *characterized in detail and repackaged into seven drums for shipment to Hanford. Significant*
 25 *volume reduction resulted from moving one-gallon cans from shielded drums (2/drum) to*
 26 *unshielded drums (28/drum), plus packaging material from a 3,000-gallon container.*
 27 *Radiological and chemical property reporting were updated as a result of detailed*
 28 *characterization of the waste during repackaging. This waste has all been shipped to Hanford*
 29 *since the date of the inventory (September 30, 2002).*

30 *Table DATA-F-C-4 contains the crosswalk of waste streams between TWBIR Revision 2 and*
 31 *the 2003 Update Report for ETEC.*

1 ***Table DATA-F-C-4. Energy Technology and Engineering Center Crosswalk of Waste***
 2 ***Streams TWBIR Revision 2 vs 2003 Update Report***

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>ET-T001A</i>	<i>ET-R1-DLR</i>
<i>ET-M001</i>	<i>ET-R2-D107, ET-C2-SEFOR</i>
<i>ET-T001B</i>	<i>ET-C1-B55, ET-C1-D139</i>

3 ***DATA-F-C-1.6 Hanford Site***

4 ***The most significant change from the Hanford Site is the inclusion of the TRU waste from 12***
 5 ***tanks. The tank waste is maintained by the DOE’s Office of River Protection and the waste***
 6 ***streams are designated with an “RP” identifier. The TRU waste identified for the Richland***
 7 ***Operations Office is designated with an “RL” identifier. A significant change in this update***
 8 ***for RL is that the inventory information from the Plutonium Finishing Plant has been***
 9 ***updated. There are many minor updates to other waste streams and additional new waste***
 10 ***streams identified.***

11 ***Table DATA-F-C-5 contains the crosswalk of waste streams from TWBIR Revision 2 to the***
 12 ***2003 Update Report.***

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision
2 vs 2003 Update Report

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-T101</i>	<i>RL-T101</i>
<i>RL-T102</i>	<i>RL-T102</i>
<i>RL-T103</i>	<i>RL-T103</i>
<i>RL-T104</i>	<i>RL-T104</i>
<i>RL-T105</i>	<i>RL-T105</i>
<i>RL-T106</i>	<i>RL-T106</i>
<i>RL-T107</i>	<i>RL-T107</i>
<i>RL-T108</i>	<i>RL-T108</i>
<i>RL-T109</i>	<i>RL-T109</i>
<i>RL-T110</i>	<i>RL-T110</i>
<i>RL-T112</i>	<i>RL-T112</i>
<i>RL-T113</i>	<i>RL-T113</i>
<i>RL-W114</i>	<i>RL-W114</i>
<i>RL-T115</i>	<i>RL-T115</i>
<i>RL-T116</i>	<i>RL-T116</i>
<i>RL-T118</i>	<i>RL-T118</i>
<i>RL-T120</i>	<i>RL-T120</i>
<i>RL-T121</i>	<i>RL-T121</i>
<i>RL-T122</i>	<i>RL-T122</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-T123</i>	<i>RL-T123</i>
<i>RL-T124</i>	<i>RL-T124</i>
<i>RL-T125</i>	<i>RL-T125</i>
<i>RL-T127</i>	<i>RL-T127</i>
<i>RL-T128</i>	<i>RL-T128</i>
<i>RL-T129</i>	<i>RL-T129</i>
<i>RL-T130</i>	<i>RL-T130</i>
<i>RL-T131</i>	<i>RL-T131</i>
<i>RL-T132</i>	<i>RL-T132</i>
<i>RL-T133</i>	<i>RL-T133</i>
<i>RL-T134</i>	<i>RL-T134</i>
<i>RL-T135</i>	<i>RL-T135</i>
<i>RL-T137</i>	<i>RL-T137</i>
<i>RL-T140</i>	<i>RL-T140</i>
<i>RL-T143</i>	<i>RL-T143</i>
<i>RL-T145</i>	<i>RL-T145</i>
<i>RL-T147</i>	<i>RL-T147</i>
<i>RL-T148</i>	<i>RL-T148</i>
<i>RL-T149</i>	<i>RL-T149</i>
<i>RL-W161</i>	<i>RL-W161</i>
<i>RL-W162</i>	<i>RL-W162</i>
<i>RL-W276</i>	<i>N/A</i>
<i>RL-W277</i>	<i>N/A</i>
<i>RL-W278</i>	<i>N/A</i>
<i>RL-W279</i>	<i>N/A</i>
<i>RL-W280</i>	<i>N/A</i>
<i>RL-W281</i>	<i>N/A</i>
<i>RL-W282</i>	<i>N/A</i>
<i>RL-W283</i>	<i>N/A</i>
<i>RL-W284</i>	<i>RL-W284</i>
<i>RL-W285</i>	<i>N/A</i>
<i>RL-W286</i>	<i>N/A</i>
<i>RL-W287</i>	<i>N/A</i>
<i>RL-W288</i>	<i>N/A</i>
<i>RL-W289</i>	<i>N/A</i>
<i>RL-W290</i>	<i>N/A</i>
<i>RL-W291</i>	<i>N/A</i>
<i>RL-W292</i>	<i>N/A</i>
<i>RL-W293</i>	<i>N/A</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-W294</i>	<i>N/A</i>
<i>RL-W295</i>	<i>N/A</i>
<i>RL-W296</i>	<i>N/A</i>
<i>RL-W297</i>	<i>N/A</i>
<i>RL-W298</i>	<i>N/A</i>
<i>RL-W299</i>	<i>N/A</i>
<i>RL-W300</i>	<i>N/A</i>
<i>RL-W301</i>	<i>N/A</i>
<i>RL-W302</i>	<i>N/A</i>
<i>RL-W303</i>	<i>N/A</i>
<i>RL-W304</i>	<i>N/A</i>
<i>RL-W305</i>	<i>N/A</i>
<i>RL-W306</i>	<i>N/A</i>
<i>RL-W307</i>	<i>N/A</i>
<i>RL-W308</i>	<i>N/A</i>
<i>RL-W309</i>	<i>N/A</i>
<i>RL-W310</i>	<i>N/A</i>
<i>RL-W311</i>	<i>N/A</i>
<i>RL-W312</i>	<i>N/A</i>
<i>RL-W313</i>	<i>N/A</i>
<i>RL-W314</i>	<i>N/A</i>
<i>RL-W315</i>	<i>N/A</i>
<i>RL-W316</i>	<i>N/A</i>
<i>RL-W317</i>	<i>N/A</i>
<i>RL-W318</i>	<i>N/A</i>
<i>RL-W319</i>	<i>N/A</i>
<i>RL-W320</i>	<i>N/A</i>
<i>RL-W321</i>	<i>N/A</i>
<i>RL-W322</i>	<i>N/A</i>
<i>RL-W323</i>	<i>N/A</i>
<i>RL-W324</i>	<i>N/A</i>
<i>RL-W325</i>	<i>N/A</i>
<i>RL-W326</i>	<i>N/A</i>
<i>RL-W327</i>	<i>RL-W327</i>
<i>RL-W328</i>	<i>RL-W328</i>
<i>RL-W329</i>	<i>RL-W329</i>
<i>RL-W330</i>	<i>N/A</i>
<i>RL-W331</i>	<i>N/A</i>
<i>RL-W332</i>	<i>RL-W332</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-W333</i>	<i>RL-W333</i>
<i>RL-W334</i>	<i>N/A</i>
<i>RL-W335</i>	<i>N/A</i>
<i>RL-W336</i>	<i>N/A</i>
<i>RL-W337</i>	<i>N/A</i>
<i>RL-W338</i>	<i>N/A</i>
<i>RL-W339</i>	<i>N/A</i>
<i>RL-W340</i>	<i>N/A</i>
<i>RL-W341</i>	<i>N/A</i>
<i>RL-W342</i>	<i>N/A</i>
<i>RL-W343</i>	<i>N/A</i>
<i>RL-W344</i>	<i>N/A</i>
<i>RL-W345</i>	<i>N/A</i>
<i>RL-W346</i>	<i>N/A</i>
<i>RL-W347</i>	<i>N/A</i>
<i>RL-W348</i>	<i>N/A</i>
<i>RL-W349</i>	<i>N/A</i>
<i>RL-W350</i>	<i>N/A</i>
<i>RL-W351</i>	<i>N/A</i>
<i>RL-W352</i>	<i>N/A</i>
<i>RL-W353</i>	<i>N/A</i>
<i>RL-W354</i>	<i>N/A</i>
<i>RL-W355</i>	<i>N/A</i>
<i>RL-W356</i>	<i>N/A</i>
<i>RL-W357</i>	<i>RL-W357</i>
<i>RL-W358</i>	<i>N/A</i>
<i>RL-W359</i>	<i>N/A</i>
<i>RL-W360</i>	<i>N/A</i>
<i>RL-W361</i>	<i>N/A</i>
<i>RL-W362</i>	<i>N/A</i>
<i>RL-W363</i>	<i>N/A</i>
<i>RL-W364</i>	<i>N/A</i>
<i>RL-W365</i>	<i>N/A</i>
<i>RL-W366</i>	<i>RL-W366</i>
<i>RL-W367</i>	<i>N/A</i>
<i>RL-W368</i>	<i>N/A</i>
<i>RL-W369</i>	<i>N/A</i>
<i>RL-W370</i>	<i>N/A</i>
<i>RL-W371</i>	<i>N/A</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-W372</i>	<i>N/A</i>
<i>RL-W373</i>	<i>N/A</i>
<i>RL-W374</i>	<i>N/A</i>
<i>RL-W375</i>	<i>N/A</i>
<i>RL-W376</i>	<i>N/A</i>
<i>RL-W377</i>	<i>N/A</i>
<i>RL-W378</i>	<i>N/A</i>
<i>RL-W379</i>	<i>N/A</i>
<i>RL-W380</i>	<i>N/A</i>
<i>RL-W381</i>	<i>N/A</i>
<i>RL-W382</i>	<i>RL-W382</i>
<i>RL-W383</i>	<i>N/A</i>
<i>RL-W384</i>	<i>N/A</i>
<i>RL-W385</i>	<i>N/A</i>
<i>RL-W386</i>	<i>N/A</i>
<i>RL-W387</i>	<i>N/A</i>
<i>RL-W388</i>	<i>N/A</i>
<i>RL-W389</i>	<i>N/A</i>
<i>RL-W390</i>	<i>N/A</i>
<i>RL-W391</i>	<i>RL-W391</i>
<i>RL-W392</i>	<i>N/A</i>
<i>RL-W393</i>	<i>N/A</i>
<i>RL-W394</i>	<i>N/A</i>
<i>RL-W395</i>	<i>N/A</i>
<i>RL-W396</i>	<i>N/A</i>
<i>RL-W397</i>	<i>N/A</i>
<i>RL-W398</i>	<i>N/A</i>
<i>RL-W399</i>	<i>N/A</i>
<i>RL-W400</i>	<i>N/A</i>
<i>RL-W401</i>	<i>N/A</i>
<i>RL-W402</i>	<i>N/A</i>
<i>RL-W403</i>	<i>N/A</i>
<i>RL-W404</i>	<i>N/A</i>
<i>RL-W405</i>	<i>N/A</i>
<i>RL-W406</i>	<i>N/A</i>
<i>RL-W407</i>	<i>RL-W407</i>
<i>RL-W408</i>	<i>RL-W408</i>
<i>RL-W409</i>	<i>N/A</i>
<i>RL-W410</i>	<i>N/A</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>RL-W411</i>	<i>N/A</i>
<i>RL-W412</i>	<i>N/A</i>
<i>RL-W413</i>	<i>N/A</i>
<i>RL-W414</i>	<i>N/A</i>
<i>RL-W415</i>	<i>RL-W415</i>
<i>RL-W416</i>	<i>N/A</i>
<i>RL-W417</i>	<i>N/A</i>
<i>RL-W418</i>	<i>RL-W418</i>
<i>RL-W419</i>	<i>RL-W419</i>
<i>RL-W420</i>	<i>RL-W420</i>
<i>RL-W421</i>	<i>RL-W421</i>
<i>RL-W422</i>	<i>N/A</i>
<i>RL-W423</i>	<i>N/A</i>
<i>RL-W424</i>	<i>RL-W424</i>
<i>RL-W425</i>	<i>RL-W425</i>
<i>RL-W426</i>	<i>RL-W426</i>
<i>RL-W427</i>	<i>RL-W427</i>
<i>RL-W428</i>	<i>RL-W428</i>
<i>RL-W429</i>	<i>RL-W429</i>
<i>RL-W430</i>	<i>RL-W430</i>
<i>RL-W431</i>	<i>RL-W431</i>
<i>RL-W432</i>	<i>RL-W432</i>
<i>RL-W433</i>	<i>RL-W433</i>
<i>RL-W434</i>	<i>RL-W434</i>
<i>RL-W435</i>	<i>N/A</i>
<i>RL-W436</i>	<i>RL-W436</i>
<i>RL-W437</i>	<i>RL-W437</i>
<i>RL-W438</i>	<i>RL-W438</i>
<i>RL-W439</i>	<i>N/A</i>
<i>RL-W440</i>	<i>N/A</i>
<i>RL-W441</i>	<i>N/A</i>
<i>RL-W442</i>	<i>N/A</i>
<i>RL-W443</i>	<i>RL-W443</i>
<i>RL-W444</i>	<i>RL-W444</i>
<i>N/A</i>	<i>RL-W445</i>
<i>N/A</i>	<i>RL-W446</i>
<i>Unavailable</i>	<i>RL-W447</i>
<i>Unavailable</i>	<i>RL-W448</i>
<i>Unavailable</i>	<i>RL-W449</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W450</i>
<i>Unavailable</i>	<i>RL-W451</i>
<i>Unavailable</i>	<i>RL-W452</i>
<i>Unavailable</i>	<i>RL-W453</i>
<i>Unavailable</i>	<i>RL-W454</i>
<i>Unavailable</i>	<i>RL-W455</i>
<i>Unavailable</i>	<i>RL-W456</i>
<i>Unavailable</i>	<i>RL-W457</i>
<i>Unavailable</i>	<i>RL-W458</i>
<i>Unavailable</i>	<i>RL-W459</i>
<i>Unavailable</i>	<i>RL-W460</i>
<i>Unavailable</i>	<i>RL-W461</i>
<i>Unavailable</i>	<i>RL-W462</i>
<i>Unavailable</i>	<i>RL-W463</i>
<i>Unavailable</i>	<i>RL-W464</i>
<i>Unavailable</i>	<i>RL-W465</i>
<i>Unavailable</i>	<i>RL-W466</i>
<i>Unavailable</i>	<i>RL-W467</i>
<i>Unavailable</i>	<i>RL-W468</i>
<i>Unavailable</i>	<i>RL-W469</i>
<i>Unavailable</i>	<i>RL-W470</i>
<i>Unavailable</i>	<i>RL-W471</i>
<i>Unavailable</i>	<i>RL-W472</i>
<i>Unavailable</i>	<i>RL-W473</i>
<i>Unavailable</i>	<i>RL-W474</i>
<i>Unavailable</i>	<i>RL-W475</i>
<i>Unavailable</i>	<i>RL-W476</i>
<i>Unavailable</i>	<i>RL-W477</i>
<i>Unavailable</i>	<i>RL-W478</i>
<i>Unavailable</i>	<i>RL-W479</i>
<i>Unavailable</i>	<i>RL-W480</i>
<i>Unavailable</i>	<i>RL-W481</i>
<i>Unavailable</i>	<i>RL-W482</i>
<i>Unavailable</i>	<i>RL-W483</i>
<i>N/A</i>	<i>RL-W484</i>
<i>N/A</i>	<i>RL-W485</i>
<i>N/A</i>	<i>RL-W486</i>
<i>Unavailable</i>	<i>RL-W487</i>
<i>Unavailable</i>	<i>RL-W488</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W489</i>
<i>Unavailable</i>	<i>RL-W490</i>
<i>Unavailable</i>	<i>RL-W491</i>
<i>Unavailable</i>	<i>RL-W492</i>
<i>Unavailable</i>	<i>RL-W493</i>
<i>Unavailable</i>	<i>RL-W494</i>
<i>Unavailable</i>	<i>RL-W495</i>
<i>Unavailable</i>	<i>RL-W496</i>
<i>N/A</i>	<i>RL-W497</i>
<i>Unavailable</i>	<i>RL-W498</i>
<i>Unavailable</i>	<i>RL-W499</i>
<i>Unavailable</i>	<i>RL-W500</i>
<i>Unavailable</i>	<i>RL-W501</i>
<i>Unavailable</i>	<i>RL-W502</i>
<i>Unavailable</i>	<i>RL-W503</i>
<i>Unavailable</i>	<i>RL-W504</i>
<i>Unavailable</i>	<i>RL-W505</i>
<i>Unavailable</i>	<i>RL-W506</i>
<i>Unavailable</i>	<i>RL-W507</i>
<i>Unavailable</i>	<i>RL-W508</i>
<i>Unavailable</i>	<i>RL-W509</i>
<i>Unavailable</i>	<i>RL-W510</i>
<i>Unavailable</i>	<i>RL-W511</i>
<i>Unavailable</i>	<i>RL-W512</i>
<i>Unavailable</i>	<i>RL-W513</i>
<i>Unavailable</i>	<i>RL-W514</i>
<i>Unavailable</i>	<i>RL-W515</i>
<i>Unavailable</i>	<i>RL-W516</i>
<i>N/A</i>	<i>RL-W517</i>
<i>Unavailable</i>	<i>RL-W518</i>
<i>Unavailable</i>	<i>RL-W519</i>
<i>Unavailable</i>	<i>RL-W520</i>
<i>Unavailable</i>	<i>RL-W521</i>
<i>Unavailable</i>	<i>RL-W522</i>
<i>Unavailable</i>	<i>RL-W523</i>
<i>Unavailable</i>	<i>RL-W524</i>
<i>Unavailable</i>	<i>RL-W525</i>
<i>Unavailable</i>	<i>RL-W526</i>
<i>Unavailable</i>	<i>RL-W527</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W528</i>
<i>Unavailable</i>	<i>RL-W529</i>
<i>Unavailable</i>	<i>RL-W530</i>
<i>Unavailable</i>	<i>RL-W531</i>
<i>Unavailable</i>	<i>RL-W532</i>
<i>Unavailable</i>	<i>RL-W533</i>
<i>Unavailable</i>	<i>RL-W534</i>
<i>Unavailable</i>	<i>RL-W535</i>
<i>Unavailable</i>	<i>RL-W536</i>
<i>Unavailable</i>	<i>RL-W537</i>
<i>Unavailable</i>	<i>RL-W538</i>
<i>Unavailable</i>	<i>RL-W539</i>
<i>Unavailable</i>	<i>RL-W540</i>
<i>Unavailable</i>	<i>RL-W541</i>
<i>Unavailable</i>	<i>RL-W542</i>
<i>Unavailable</i>	<i>RL-W543</i>
<i>Unavailable</i>	<i>RL-W544</i>
<i>Unavailable</i>	<i>RL-W545</i>
<i>Unavailable</i>	<i>RL-W546</i>
<i>Unavailable</i>	<i>RL-W547</i>
<i>Unavailable</i>	<i>RL-W548</i>
<i>Unavailable</i>	<i>RL-W549</i>
<i>Unavailable</i>	<i>RL-W550</i>
<i>Unavailable</i>	<i>RL-W551</i>
<i>Unavailable</i>	<i>RL-W552</i>
<i>Unavailable</i>	<i>RL-W553</i>
<i>Unavailable</i>	<i>RL-W554</i>
<i>Unavailable</i>	<i>RL-W555</i>
<i>Unavailable</i>	<i>RL-W556</i>
<i>Unavailable</i>	<i>RL-W557</i>
<i>Unavailable</i>	<i>RL-W558</i>
<i>Unavailable</i>	<i>RL-W559</i>
<i>Unavailable</i>	<i>RL-W560</i>
<i>Unavailable</i>	<i>RL-W561</i>
<i>Unavailable</i>	<i>RL-W562</i>
<i>Unavailable</i>	<i>RL-W563</i>
<i>Unavailable</i>	<i>RL-W564</i>
<i>Unavailable</i>	<i>RL-W565</i>
<i>Unavailable</i>	<i>RL-W566</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W567</i>
<i>Unavailable</i>	<i>RL-W568</i>
<i>Unavailable</i>	<i>RL-W569</i>
<i>Unavailable</i>	<i>RL-W570</i>
<i>Unavailable</i>	<i>RL-W571</i>
<i>Unavailable</i>	<i>RL-W572</i>
<i>Unavailable</i>	<i>RL-W573</i>
<i>Unavailable</i>	<i>RL-W574</i>
<i>Unavailable</i>	<i>RL-W575</i>
<i>Unavailable</i>	<i>RL-W576</i>
<i>Unavailable</i>	<i>RL-W577</i>
<i>Unavailable</i>	<i>RL-W578</i>
<i>N/A</i>	<i>RL-W579</i>
<i>Unavailable</i>	<i>RL-W580</i>
<i>Unavailable</i>	<i>RL-W581</i>
<i>Unavailable</i>	<i>RL-W582</i>
<i>Unavailable</i>	<i>RL-W583</i>
<i>Unavailable</i>	<i>RL-W584</i>
<i>Unavailable</i>	<i>RL-W585</i>
<i>Unavailable</i>	<i>RL-W586</i>
<i>Unavailable</i>	<i>RL-W587</i>
<i>Unavailable</i>	<i>RL-W588</i>
<i>Unavailable</i>	<i>RL-W589</i>
<i>Unavailable</i>	<i>RL-W590</i>
<i>Unavailable</i>	<i>RL-W591</i>
<i>Unavailable</i>	<i>RL-W592</i>
<i>Unavailable</i>	<i>RL-W593</i>
<i>Unavailable</i>	<i>RL-W594</i>
<i>Unavailable</i>	<i>RL-W595</i>
<i>Unavailable</i>	<i>RL-W596</i>
<i>Unavailable</i>	<i>RL-W597</i>
<i>Unavailable</i>	<i>RL-W598</i>
<i>Unavailable</i>	<i>RL-W599</i>
<i>Unavailable</i>	<i>RL-W600</i>
<i>N/A</i>	<i>RL-W601</i>
<i>Unavailable</i>	<i>RL-W602</i>
<i>N/A</i>	<i>RL-W603</i>
<i>Unavailable</i>	<i>RL-W604</i>
<i>N/A</i>	<i>RL-W605</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>N/A</i>	<i>RL-W606</i>
<i>N/A</i>	<i>RL-W607</i>
<i>N/A</i>	<i>RL-W608</i>
<i>N/A</i>	<i>RL-W609</i>
<i>Unavailable</i>	<i>RL-W610</i>
<i>Unavailable</i>	<i>RL-W612</i>
<i>N/A</i>	<i>RL-W613</i>
<i>N/A</i>	<i>RL-W614</i>
<i>Unavailable</i>	<i>RL-W615</i>
<i>N/A</i>	<i>RL-W616</i>
<i>N/A</i>	<i>RL-W617</i>
<i>N/A</i>	<i>RL-W618</i>
<i>N/A</i>	<i>RL-W619</i>
<i>N/A</i>	<i>RL-W620</i>
<i>N/A</i>	<i>RL-W621</i>
<i>Unavailable</i>	<i>RL-W622</i>
<i>N/A</i>	<i>RL-W623</i>
<i>Unavailable</i>	<i>RL-W625</i>
<i>Unavailable</i>	<i>RL-W626</i>
<i>Unavailable</i>	<i>RL-W627</i>
<i>Unavailable</i>	<i>RL-W628</i>
<i>Unavailable</i>	<i>RL-W629</i>
<i>Unavailable</i>	<i>RL-W630</i>
<i>Unavailable</i>	<i>RL-W631</i>
<i>Unavailable</i>	<i>RL-W632</i>
<i>Unavailable</i>	<i>RL-W633</i>
<i>N/A</i>	<i>RL-W634</i>
<i>Unavailable</i>	<i>RL-W635</i>
<i>Unavailable</i>	<i>RL-W636</i>
<i>Unavailable</i>	<i>RL-W637</i>
<i>Unavailable</i>	<i>RL-W638</i>
<i>Unavailable</i>	<i>RL-W639</i>
<i>Unavailable</i>	<i>RL-W640</i>
<i>Unavailable</i>	<i>RL-W641</i>
<i>Unavailable</i>	<i>RL-W642</i>
<i>Unavailable</i>	<i>RL-W643</i>
<i>Unavailable</i>	<i>RL-W644</i>
<i>Unavailable</i>	<i>RL-W645</i>
<i>Unavailable</i>	<i>RL-W646</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W647</i>
<i>Unavailable</i>	<i>RL-W648</i>
<i>Unavailable</i>	<i>RL-W649</i>
<i>Unavailable</i>	<i>RL-W650</i>
<i>Unavailable</i>	<i>RL-W651</i>
<i>Unavailable</i>	<i>RL-W652</i>
<i>Unavailable</i>	<i>RL-W653</i>
<i>Unavailable</i>	<i>RL-W654</i>
<i>Unavailable</i>	<i>RL-W655</i>
<i>Unavailable</i>	<i>RL-W656</i>
<i>Unavailable</i>	<i>RL-W657</i>
<i>N/A</i>	<i>RL-W658</i>
<i>Unavailable</i>	<i>RL-W659</i>
<i>Unavailable</i>	<i>RL-W660</i>
<i>Unavailable</i>	<i>RL-W661</i>
<i>Unavailable</i>	<i>RL-W662</i>
<i>N/A</i>	<i>RL-W663</i>
<i>Unavailable</i>	<i>RL-W664</i>
<i>Unavailable</i>	<i>RL-W665</i>
<i>Unavailable</i>	<i>RL-W666</i>
<i>Unavailable</i>	<i>RL-W667</i>
<i>Unavailable</i>	<i>RL-W668</i>
<i>Unavailable</i>	<i>RL-W669</i>
<i>Unavailable</i>	<i>RL-W670</i>
<i>N/A</i>	<i>RL-W671</i>
<i>N/A</i>	<i>RL-W672</i>
<i>Unavailable</i>	<i>RL-W673</i>
<i>N/A</i>	<i>RL-W674</i>
<i>N/A</i>	<i>RL-W675</i>
<i>Unavailable</i>	<i>RL-W676</i>
<i>N/A</i>	<i>RL-W677</i>
<i>Unavailable</i>	<i>RL-W678</i>
<i>Unavailable</i>	<i>RL-W679</i>
<i>Unavailable</i>	<i>RL-W680</i>
<i>N/A</i>	<i>RL-W681</i>
<i>N/A</i>	<i>RL-W682</i>
<i>N/A</i>	<i>RL-W683</i>
<i>N/A</i>	<i>RL-W684</i>
<i>N/A</i>	<i>RL-W685</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>N/A</i>	<i>RL-W686</i>
<i>N/A</i>	<i>RL-W687</i>
<i>N/A</i>	<i>RL-W688</i>
<i>Unavailable</i>	<i>RL-W689</i>
<i>Unavailable</i>	<i>RL-W690</i>
<i>Unavailable</i>	<i>RL-W691</i>
<i>Unavailable</i>	<i>RL-W692</i>
<i>Unavailable</i>	<i>RL-W693</i>
<i>Unavailable</i>	<i>RL-W694</i>
<i>Unavailable</i>	<i>RL-W695</i>
<i>N/A</i>	<i>RL-W696</i>
<i>Unavailable</i>	<i>RL-W697</i>
<i>N/A</i>	<i>RL-W698</i>
<i>Unavailable</i>	<i>RL-W699</i>
<i>Unavailable</i>	<i>RL-W700</i>
<i>N/A</i>	<i>RL-W701</i>
<i>Unavailable</i>	<i>RL-W702</i>
<i>Unavailable</i>	<i>RL-W703</i>
<i>Unavailable</i>	<i>RL-W704</i>
<i>Unavailable</i>	<i>RL-W705</i>
<i>Unavailable</i>	<i>RL-W706</i>
<i>Unavailable</i>	<i>RL-W707</i>
<i>Unavailable</i>	<i>RL-W708</i>
<i>Unavailable</i>	<i>RL-W709</i>
<i>Unavailable</i>	<i>RL-W710</i>
<i>Unavailable</i>	<i>RL-W711</i>
<i>Unavailable</i>	<i>RL-W712</i>
<i>Unavailable</i>	<i>RL-W713</i>
<i>Unavailable</i>	<i>RL-W714</i>
<i>Unavailable</i>	<i>RL-W715</i>
<i>Unavailable</i>	<i>RL-W716</i>
<i>Unavailable</i>	<i>RL-W717</i>
<i>Unavailable</i>	<i>RL-W718</i>
<i>Unavailable</i>	<i>RL-W719</i>
<i>Unavailable</i>	<i>RL-W720</i>
<i>Unavailable</i>	<i>RL-W721</i>
<i>Unavailable</i>	<i>RL-W722</i>
<i>Unavailable</i>	<i>RL-W723</i>
<i>Unavailable</i>	<i>RL-W724</i>

Table DATA-F-C-5 Hanford Site (RL) Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Waste Streams</i>
<i>Unavailable</i>	<i>RL-W725</i>
<i>Unavailable</i>	<i>RL-W726</i>
<i>Unavailable</i>	<i>RL-W727</i>
<i>Unavailable</i>	<i>RL-W728</i>
<i>Unavailable</i>	<i>RL-W729</i>
<i>Unavailable</i>	<i>RL-W730</i>
<i>Unavailable</i>	<i>RL-W731</i>
<i>Unavailable</i>	<i>RL-W732</i>
<i>Unavailable</i>	<i>RL-W733</i>
<i>Unavailable</i>	<i>RL-W734</i>
<i>Unavailable</i>	<i>RL-W735</i>
<i>Unavailable</i>	<i>RL-W736</i>
<i>Unavailable</i>	<i>RL-W737</i>
<i>Unavailable</i>	<i>RL-W738</i>
<i>Unavailable</i>	<i>RL-W739</i>
<i>Unavailable</i>	<i>RL-W740</i>
<i>Unavailable</i>	<i>RL-W741</i>
<i>Unavailable</i>	<i>RL-W742</i>
<i>Unavailable</i>	<i>RL-W743</i>
<i>Unavailable</i>	<i>RL-W744</i>
<i>Unavailable</i>	<i>RL-W745</i>
<i>Unavailable</i>	<i>RL-W746</i>
<i>Unavailable</i>	<i>RL-W747</i>
<i>Unavailable</i>	<i>RL-W748</i>
<i>Unavailable</i>	<i>RL-W749</i>
<i>Unavailable</i>	<i>RL-W750</i>
<i>Unavailable</i>	<i>RL-W751</i>
<i>Unavailable</i>	<i>RL-W752</i>
<i>Unavailable</i>	<i>RL-W753</i>
<i>Unavailable</i>	<i>RLW-756</i>
<i>RL-Z001</i>	<i>RL-Z001</i>
<i>N/A</i>	<i>RL-Z002</i>
<i>N/A</i>	<i>RL-Z003</i>

- 1 **DATA-F-C.1.7 Idaho National Engineering and Environmental Laboratory**
- 2 **The most significant change at the Idaho National Engineering and Environmental**
- 3 **Laboratory (INEEL) is that the legacy contact-handled (CH)-TRU waste will be processed**
- 4 **through the Advanced Mixed Waste Treatment Facility. Plans are for the CH-TRU debris**

1 *waste to be compacted in the facility. An average of four 55-gallon drums that have been*
 2 *compacted will be placed into a 100-gallon drum for shipment to the WIPP. With the*
 3 *compaction of the debris waste, the mass of the cellulosic, plastic, and rubber (CPR) materials*
 4 *has increased.*

5 *The CH-TRU homogeneous waste will be overpacked into the 10-drum overpack (TDOP – 10*
 6 *55-gallon drums will be placed in the TDOP) for shipment to WIPP.*

7 *For the RH-TRU waste, the data in TWBIR Revision 3 included waste that was potentially*
 8 *RH-TRU waste, as well as waste known to be RH-TRU waste. The data for the 2003 Update*
 9 *Report only addresses waste that is known to be RH-TRU waste; therefore, the volume has*
 10 *decreased.*

11 *Table DATA-F-C-6 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 12 *2003 Update Report for the INEEL.*

13 ***DATA-F-C-1.8 Knolls Atomic Power Laboratory***

14 *The moderate increase of the projected volumes of TRU waste for the Knolls Atomic Power*
 15 *Laboratory (KAPL) waste streams KA-T001 and KA-W016 between the 1995 and 2003*
 16 *inventory reporting periods are a result of improved estimates of material that is expected to be*
 17 *generated, characterized, and packaged in its final waste form.*

18 *The TRU waste inventory volumes listed in 1995 for waste stream KA-T001 stored in final*
 19 *form was erroneously listed as 2.5 m³ (88.3 ft³). In 1995, a small amount of TRU waste had*
 20 *been generated – 0.2 m³ (7.06 ft³) as generated waste form volume. At the time, there was no*
 21 *volume of TRU waste stored in its final waste form. The 2.5 m³ (88.3 ft³) listed in the*
 22 *inventory report was the projected volume of TRU waste had the 0.2 m³ (7.06 ft³) been in its*
 23 *final waste form. The 1995 inventory report should have indicated 0 m³ of TRU waste in its*
 24 *final waste form. The 2003 value is 0 m³, since there is no TRU waste in its final waste form.*

Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>IN-W112</i>	<i>N/A</i>
<i>IN-W139.627, IN-W161.231, IN-W161.806, IN-W166.151, IN-W166.928, IN-W169-191, IN-W169-192, IN-W169.193, IN-W169.194, IN-W169.985, IN-W170.189, IN-W170.938, IN-W171.184, IN-W171.801, IN-W172.182, IN-W172.911, IN-W186.187, IN-W187.1094, IN-W187.121, IN-W189.1048, IN-W189.131, IN-W197.196, IN-W197.197, IN-W197.198, IN-W197.802, IN-W197.803, IN-W198.202, IN-W198.203, IN-W198.204, IN-W198.205, IN-W198.205, IN-W198.804, IN-W199.1039, IN-W199.209, IN-W202.1092, IN-W202.224, IN-W203.1081, IN-W203.210, IN-W203.211, IN-W203.212, IN-W204.215, IN-W204.216, IN-W204.217, IN-W205.1086, IN-W205.1087, IN-W205.220, IN-W206.935, IN-W206.936,</i>	<i>IN-BN-510</i>

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Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>IN-W207.238, IN-W207.980, IN-W207.981, IN-W208.242, IN-W208.243, IN-W208.988, IN-W209.244, IN-W209.994, IN-W210.1001, IN-W210.247, IN-W211.1009, IN-W211.249, IN-W212.1058, IN-W212.251, IN-W213.1069, IN-W213.252, IN-W213.253, IN-W214.1075, IN-W214.755, IN-W214.756, IN-W225.127, IN-W225.800, IN-W230.229, IN-W230.940, IN-W250.259, IN-W250.941, IN-W252.1000, IN-W252.282, IN-W252.283, IN-W252.811, IN-W254.1044, IN-W254.1045, IN-W254.289, IN-W254.290, IN-W256.1062, IN-W256.295, IN-W259.552, IN-W259.920, IN-W260.565, IN-W260.566, IN-W260.567, IN-W260.568, IN-W260.916, IN-W265.516, IN-W265.517, IN-W269.510, IN-W269.535, IN-W271.532, IN-W271.533, IN-W272.504, IN-W272.974, IN-W275.502, IN-W275.967, IN-W276.500, IN-W276.966, IN-W278.1090, IN-W278.495, IN-W280.1066, IN-W280.448, IN-W280.449, IN-W281.487, IN-W281.488, IN-W283.481, IN-W283.534, IN-W283.963, IN-W283.964, IN-W285.471, IN-W285.815,</i>	
<i>IN-W287.460, IN-W289.466, IN-W291.454, IN-W291.455, IN-W291.456, IN-W294.1057, IN-W294.342, IN-W294.343, IN-W294.814, IN-W296.327, IN-W296.329, IN-W296.330, IN-W296.331, IN-W296.813, IN-W298.317, IN-W298.318, IN-W298.812, IN-W298.979, IN-W300.308, IN-W300.930, IN-W302.299, IN-W302.913, IN-W304.860, IN-W304.861, IN-W305.1068, IN-W305.828, IN-W306.632, IN-W306.633, IN-W306.634, IN-W306.635, IN-W308.618, IN-W308.621, IN-W311.1013, IN-W311.604, IN-W312.602, IN-W312.942, IN-W314.1017, IN-W314.606, IN-W317.1028, IN-W317.1029, IN-W317.757, IN-W317.758, IN-W327.1085, IN-W327.735, IN-W329.681, IN-W329.682, IN-W330.667, IN-W330.678, IN-W334.675, IN-W334.961, IN-W336.660, IN-W336.820, IN-W338.657, IN-W338.956, IN-W339.655, IN-W339.955, IN-W345.669, IN-W345.819, IN-W351.648, IN-W351.922,</i>	
<i>IN-W354.1016, IN-W354.858, IN-W355.1015, IN-W355.857, IN-W356.1014, IN-W356.856, IN-W367.840, IN-W367.973, IN-W368.839, IN-W368.971, IN-W369.837, IN-W369.970, IN-W370.836, IN-W370.929, IN-W371.1018, IN-W371.831, IN-W373.1003, IN-W373.830, IN-W374.1091, IN-W374.829,</i>	
<i>IN-W157.906, IN-W157.907, IN-W157.144</i>	<i>IN-W157.144</i>
<i>IN-W159.119, IN-W159.120, IN-W159.1072</i>	<i>IN-W159.1072</i>
<i>IN-W163.234, IN-W163.1007</i>	<i>IN-W163.1007</i>
<i>IN-W164.1060, IN-W164.153</i>	<i>IN-W164.153</i>
<i>IN-W167.926, IN-W167.149</i>	<i>IN-W167.149</i>
<i>IN-W174.1082, IN-W174.154</i>	<i>IN-W174.154</i>
<i>IN-W177.1083, IN-W177.156</i>	<i>IN-W177.156</i>
<i>IN-W179.1084, IN-W179.158</i>	<i>IN-W179.158</i>
<i>IN-W188.1093, IN-W188.160</i>	<i>IN-W188.160</i>
<i>IN-W216.875, IN-W216.876, IN-W216.98,</i>	<i>IN-W216.98</i>

Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>IN-W216.877, IN-W216.99, IN-W306.817, INW308-816</i>	
<i>IN-W218.109, IN-W218.909</i>	<i>IN-W218.909</i>
<i>IN-W220.925, IN-W220.114</i>	<i>IN-W220.114</i>
<i>IN-W221.113, IN-W221.927</i>	<i>IN-W221.927</i>
<i>IN-W222.117, IN-W222.965, IN-W222.116</i>	<i>IN-W222.116</i>
<i>IN-W228.102, IN-W228.103, IN-W228.883, IN-W228.884, IN-W228.885, IN-W306.817, INW308.816, IN-W228.101</i>	<i>IN-W228.101</i>
<i>IN-W240.272, IN-W240.931</i>	<i>IN-W240.931</i>
<i>IN-W243.274, IN-W243.275, IN-W243.276, IN-W243.277, IN-W243.808</i>	<i>IN-W243.808</i>
<i>IN-W245.1034, IN-W245.1035, IN-W245.302, IN-W245.301</i>	<i>IN-W245.301</i>
<i>IN-W-247.1038, IN-W247.523, IN-W247.524, IN-W247.810</i>	<i>IN-W247.810</i>
<i>IN-W249.1071, IN-W249.528, IN-W249.527</i>	<i>IN-W249.527</i>
<i>IN-W257.558, IN-W257.947</i>	<i>IN-INTEC-SFS-01</i>
<i>IN-W259.921, IN-W349.667, IN-W349.924</i>	<i>IN-AE-AGHC-01</i>
<i>IN-W267.514, IN-W267.1005</i>	<i>IN-W267.1005</i>
<i>IN-W309.610, IN-W308.816, IN-W306.817, IN-W309.609</i>	<i>IN-W309.609</i>
<i>IN-W319.583, IN-W319.584</i>	<i>IN-W319.584</i>
<i>IN-W321.578, IN-W321.1023</i>	<i>IN-W321.1023</i>
<i>IN-W332.962, IN-W332.661</i>	<i>IN-W332.661</i>
<i>IN-W347.646, IN-W347.818</i>	<i>IN-W347.818</i>
<i>IN-W348.846, IN-W348.1012</i>	<i>IN-W348.1012</i>
<i>IN-W357.850, IN-W357.1022</i>	<i>IN-W357.1022</i>
<i>IN-W361.849, IN-W361.1021</i>	<i>IN-W361.1021</i>
<i>IN-W362.848, IN-W362.1020</i>	<i>IN-W362.1020</i>
<i>IN-W363.847, IN-W363.1019</i>	<i>IN-W363.1019</i>
<i>IN-W364.844, IN-W364.845, IN-W364.1011</i>	<i>IN-W364.1011</i>
<i>IN-W365.842, IN-W365.843, IN-W365.1010</i>	<i>IN-W365.1010</i>
<i>IN-W366.1004, IN-W366.841</i>	<i>IN-W366.841</i>
<i>IN-W375.827, IN-W375.1096</i>	<i>IN-W375.1096</i>
<i>IN-W263.520</i>	<i>IN-W263.520</i>
<i>IN-W353.859</i>	<i>IN-W353.859</i>
<i>IN-W315.601</i>	<i>IN-W315.601</i>
<i>IN-W181.162</i>	<i>IN-W181.162</i>
<i>IN-W219.110</i>	<i>IN-W219.110</i>
<i>IN-W219.914</i>	<i>IN-W219.914</i>
<i>IN-W322.851</i>	<i>IN-W322.851</i>
<i>IN-W323.562</i>	<i>IN-W323.562</i>
<i>IN-W323.951</i>	<i>IN-W323.951</i>

Table DATA-F-C-6. Idaho National Engineering and Environmental Laboratory Crosswalk of Waste Streams TWBIR Revision 2 vs 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>IN-W337.673</i>	<i>IN-W337.673</i>
<i>IN-W337.957</i>	<i>IN-W337.957</i>
<i>IN-W341.671</i>	<i>IN-W341.671</i>
<i>IN-W341.954</i>	<i>IN-W341.954</i>
<i>IN-W342.652</i>	<i>IN-W342.652</i>
<i>IN-W342.953</i>	<i>IN-W342.953</i>
<i>IN-W358.854</i>	<i>IN-W358.854</i>
<i>IN-W358.855</i>	<i>IN-W358.855</i>
<i>IN-W358.948</i>	<i>IN-W358.948</i>
<i>IN-W358.949</i>	<i>IN-W358.949</i>
<i>IN-W372.832</i>	<i>IN-W372.832</i>
<i>IN-W372.918</i>	<i>IN-W372.918</i>
<i>N/A</i>	<i>IN-NRF-153</i>
<i>N/A</i>	<i>IN-TRA-150</i>
<i>N/A</i>	<i>IN-TRA-157</i>
<i>N/A</i>	<i>IN-AW-161</i>
<i>IN-Z001</i>	<i>IN-GEM-01</i>
<i>IN-Z001</i>	<i>IN-GEM-02</i>
<i>IN-W325.1076</i>	<i>IN-W325.1076</i>
<i>IN-W325.679</i>	<i>IN-W325.679</i>
<i>IN-W350.650</i>	<i>IN-W350.650</i>
<i>IN-W350.923</i>	<i>IN-W350.923</i>
<i>IN-W359.853</i>	<i>IN-W359.853</i>
<i>IN-W360.852</i>	<i>IN-W360.852</i>
<i>IN-W360.912</i>	<i>IN-W360.912</i>
<i>IN-W146.699</i>	<i>IN-W146.699</i>
<i>N/A</i>	<i>IN-SBW-01A</i>
<i>N/A</i>	<i>IN-SBW-01B</i>
<i>N/A</i>	<i>IN-TRA-BE-01</i>
<i>IN-Z001</i>	<i>IN-Z001</i>
<i>N/A</i>	<i>IN-Z001A</i>

1 ***DATA-F-C-1.9 Lawrence Berkeley National Laboratory***

- 2 ***No changes were made to Lawrence Berkeley National Laboratory (LBNL) waste streams.***
 3 ***Table DATA-F-C-7 contains the crosswalk of waste streams from TWBIR Revision 2 to the***
 4 ***2003 Update Report for the LBNL.***

1 **Table DATA-F-C-7. Lawrence Berkeley National Laboratory Crosswalk of Waste Streams**
 2 **TWBIR Revision 2 to the 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>LB-T001</i>	<i>LB-T001</i>

3 **DATA-F-C-1.10 Lawrence Livermore National Laboratory**

4 *The inventory of stored waste at Lawrence Livermore National Laboratory (LLNL) increased*
 5 *because of ongoing TRU waste generation. LLNL scaled up the originally reported numbers*
 6 *for most of the waste streams to match the current inventory.*

7 *A new high-efficiency particulate air (HEPA) filter mixed waste stream was established, LL-*
 8 *W034, to accommodate several old boxes and one drum.*

9 *Table DATA-F-C-8 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 10 *2003 Update Report for the LLNL.*

11 **DATA-F-C-1.11 Los Alamos National Laboratory**

12 *The major differences in the submittals for the TWBIR Revision 2 and the 2003 Update are*
 13 *due to three factors:*

- 14 • *Redefinition of waste streams,*
- 15 • *Addition of waste generated between 1996 and 2003, and*
- 16 • *Addition of radiography characterization data for ~5,000 drums.*

17 **Table DATA-F-C-8. Lawrence Livermore National Laboratory Crosswalk of Waste Streams**
 18 **TWBIR Revision 2 vs 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>LL-M001</i>	<i>LL-M001</i>
<i>LL-T001</i>	<i>LL-T001</i>
<i>LL-T002</i>	<i>LL-T002</i>
<i>LL-T003</i>	<i>LL-T003</i>
<i>LL-T004</i>	<i>LL-T004</i>
<i>LL-T005</i>	<i>LL-T005: LL-W034</i>
<i>LL-W018</i>	<i>LL-W018</i>
<i>LL-W019</i>	<i>LL-W019</i>

1 **DATA-F-C-1.11.1 Redefinition of Waste Streams**

2 *Following the guidance in the draft WIPP Waste Analysis Plan (WAP) (NMED 1999), LANL*
 3 *reorganized waste streams beginning in 1998 with publication of the “LANL Waste*
 4 *Characterization Sampling Plan, R.0.” Waste streams in the 1996 TWBIR were defined based*
 5 *on major waste material parameter content (e.g., metals, combustible debris, etc.). These were*
 6 *further subdivided beginning in 1998 according to the waste generation facility. Waste stream*
 7 *assignments, especially involving the mixed or non-mixed status of wastes, were further*
 8 *refined using additional acceptable knowledge studies in subsequent versions of the*
 9 *“Acceptable Knowledge Information Summary.” There is no simple rule for correspondence*
 10 *in waste stream assignment between the two submittals; improved AK resulted in numerous*
 11 *waste stream reassignments.*

12 **DATA-F-C-1.11.2 Addition of Waste**

13 *Los Alamos National Laboratory (LANL) continues to generate waste – approximately 1,600*
 14 *containers were generated between 1996 and the latest 2003 Update submittal. These have*
 15 *been added to the LANL inventory in the latest data submittal.*

16 **DATA-F-C-1.11.3 Radiography Characterization Data**

17 *LANL has obtained real-time radiography (RTR) data for about 5,000 waste drums from*
 18 *almost all of the defined waste streams. This actual data has been used to complete the*
 19 *information on average, minimum, and maximum waste material parameter content for each*
 20 *waste stream. Isotopic information for each waste stream is still based primarily on AK*
 21 *(generator assays).*

22 *Table DATA-F-C-9 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 23 *2003 Update Report for the LANL.*

**Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams
 TWBIR Revision 2 vs 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>LA-M002</i>	<i>LA-TA-00-05, LA-TA-03-28, LA-TA-21-13, LA-TA-21-43, LA-TA-50-17, LA-TA-50-18</i>
<i>LA-T001</i>	<i>LA-TA-00-01, LA-TA-21-42, LA-TA-50-15, LA-TA-55-19, LA-TA-55-30, LA-TA-55-44</i>
<i>LA-T002</i>	<i>LA-TA-50-17</i>
<i>N/A</i>	<i>LA-0S-00-01</i>
<i>LA-T004</i>	<i>LA-IT-00-01, LA-PX-00-01, LA-TA-00-02, LA-TA-00-05, LA-TA-00-06, LA-TA-03-12, LA-TA-03-13, LA-TA-03-19, LA-TA-03-20, LA-TA-03-24, LA-TA-03-26, LA-TA-03-30, LA-TA-21-06, LA-TA-21-12, LA-TA-21-15, LA-TA-21-42, LA-TA-48-01, LA-TA-50-11, LA-TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-30, LA-TA-55-33, LA-TA-55-38, LA-TA-55-43, LA-TA-55-44, LA-TA-55-48, LA-TA-55-49</i>

24

**Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams
TWBIR Revision 2 vs 2003 Update Report — Continued**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>LA-T005</i>	<i>IT-00-01, SL-00-01, LA-TA-00-01, LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-00-06, LA-TA-00-07, LA-TA-03-12, LA-TA-03-19, LA-TA-03-24, LA-TA-03-42, LA-TA-21-12, LA-TA-48-01, LA-TA-50-11, LA-TA-50-15, LA-TA-55-18, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-22, LA-TA-55-23, LA-TA-55-24, LA-TA-55-25, LA-TA-55-26, LA-TA-55-28, LA-TA-55-30, LA-TA-55-32, LA-TA-55-33, LA-TA-55-34, LA-TA-55-38, LA-TA-55-39, LA-TA-55-42, LA-TA-55-43, LA-TA-55-44, LA-TA-55-49, LA-TA-55-53, LA-TA-55-56, LA-TA-55-60</i>
<i>LA-T006</i>	<i>LA-TA-00-02, LA-TA-00-05, LA-TA-21-15, LA-TA-48-01, LA-TA-50-15, LA-TA-55-30, LA-TA-55-32, LA-TA-55-33, LA-TA-55-38, LA-TA-55-49</i>
<i>LA-T007</i>	<i>LA-TA-03-24, LA-TA-03-26</i>
<i>LA-T008</i>	<i>TA-00-01, LA-TA-21-14, LA-TA-21-44, LA-TA-50-20</i>
<i>LA-T009</i>	<i>LA-IT-00-01, LA-OS-00-02, LA-TA-00-01, LA-TA-00-04, LA-TA-00-07, LA-TA-03-12, LA-TA-03-19, LA-TA-03-20, LA-TA-03-24, LA-TA-03-26, LA-TA-03-40, LA-TA-03-42, LA-TA-21-41, LA-TA-21-42, LA-TA-21-44, LA-TA-50-10, LA-TA-50-15, LA-TA-50-17, LA-TA-50-19, LA-TA-50-41, LA-TA-55-19, LA-TA-55-30, LA-TA-55-33, LA-TA-55-34, LA-TA-55-38, LA-TA-55-44, LA-TA-55-48, LA-TA-55-49, LA-TA-55-53, LA-TA-55-56, LA-TA-55-60, LA-TA-55-62, LA-TA-55-63</i>
<i>LA-TR04</i>	<i>LA-TA-03-27</i>
<i>LA-TR05</i>	<i>N/A</i>
<i>LATR07</i>	<i>LA-TA-00-02, LA-TA-03-27</i>
<i>LA-W001 is LA-M001 (This is LANL Local ID.)</i>	<i>LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-03-12, LA-TA-03-19, LA-TA-03-24, LA-TA-03-40, LA-TA-21-12, LA-TA-21-40, LA-TA-21-42, LA-TA-49-01, LA-TA-50-11, LA-TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-30, LA-TA-55-44</i>
<i>LA-W003 is LA-M003 (This is LANL Local ID.)</i>	<i>LA-TA-00-05, LA-TA-50-19</i>
<i>LA-W004 is LA-M004 (This is LANL Local ID.)</i>	<i>LA-TA-00-05, LA-TA-00-06, LA-TA-00-07, LA-TA-03-12, LA-TA-03-13, LA-TA-03-20, LA-TA-21-06, LA-TA-55-19, LA-TA-55-20, LA-TA-55-30, LA-TA-55-44, LA-TA-55-56</i>
<i>LA-W005 is LA-M005 (This is LANL Local ID.)</i>	<i>LA-TA-00-02, LA-TA-00-04, LA-TA-00-06, LA-TA-03-13, LA-TA-03-19, LA-TA-03-24, LA-TA-55-19, LA-TA-55-20, LA-TA-55-21, LA-TA-55-22, LA-TA-55-23, LA-TA-55-28, LA-TA-55-30, LA-TA-55-32, LA-TA-55-34, LA-TA-55-38, LA-TA-55-39, LA-TA-55-43, LA-TA-55-44, LA-TA-55-53, LA-TA-55-56, LA-TA-55-60, LA-TA-55-61</i>
<i>LA-W006 is LA-M006</i>	<i>LA-TA-00-05, LA-TA-03-30, LA-TA-21-16, LA-TA-50-19, LA-TA-55-30, LA-TA-55-32, LA-TA-55-38, LA-TA-55-41, LA-TA-55-44, LA-TA-55-49, LA-TA-55-53, LA-TA-03-31</i>
<i>LA-W009 is LA-M009 (This is LANL Local ID.)</i>	
<i>LA-W066 is LA-M001 (This is LANL Local ID.)</i>	<i>LA-TA-00-02, LA-TA-00-04, LA-TA-00-05, LA-TA-03-12,</i>

**Table DATA-F-C-9. Los Alamos National Laboratory Crosswalk of Waste Streams
TWBIR Revision 2 vs 2003 Update Report — Continued**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
	<i>LA-TA-03-19, LA-TA-03-24, LA-TA-03-40, LA-TA-21-12, LA-TA-21-42, LA-TA-49-01, LA-TA-50-11, LA-TA-50-15, LA-TA-50-40, LA-TA-55-19, LA-TA-55-30, LA-TA-55-44</i>
<i>LA-W067 is LA-T004 (This is LANL Local ID.)</i>	<i>See LANL LA-T004</i>
<i>LA-W068 is LA-T005 (This is LANL Local ID.)</i>	<i>See LANL LA-T005</i>
<i>LA-WR01 is LA-MR01 (This is LANL Local ID.)</i>	<i>LA-TA-00-01, LA-TA-03-27</i>
<i>LA-WR05 is LA-MR05 (This is LANL Local ID.)</i>	<i>LA-TA-03-27</i>

1 **DATA-F-C-1.12 Nevada Test Site**

2 *The Nevada Test Site (NTS) has one new waste stream identified in the 2003 Update from the*
 3 *National Nuclear Security Administration. That new waste stream results from activities from*
 4 *the Joint Actinide Shock Physics Experimental Research (JASPER) Facility.*

5 *Table DATA-F-C-10 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 6 *2003 Update Report for the NTS.*

7 **Table DATA-F-C-10. Nevada Test Site Laboratory Crosswalk of Waste Streams**
 8 **TWBIR Revision 2 vs 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>NT-W001</i>	<i>NT-W001</i>
<i>NT-W021</i>	<i>NT-W021</i>
<i>N/A</i>	<i>NT-JAS-01</i>

9 **DATA-F-C-1.13 Oak Ridge National Laboratory**

10 **DATA-F-C-1.13.1 Waste Streams**

11 *The number of waste streams was reduced from 16 to 9. The reason for the change is to better*
 12 *represent the waste streams that WIPP will receive. The previously identified waste streams*
 13 *were reflective of the stored inventory. The new waste stream information reflects the*
 14 *repackaged waste after sorting, treatment, recharacterization, and repackaging.*

15 *Corresponding to the WIPP-ID changes, the matrix codes have been updated to reflect the*
 16 *waste stream parameters.*

17 **DATA-F-C-1.13.2 TRUCON Codes**

18 *There were no significant changes in the TRUCON codes. Oak Ridge will need to work with*
 19 *WIPP to obtain TRUCON codes for the various waste streams as Oak Ridge approaches*

1 *certification. The currently approved Oak Ridge TRUCON codes (OR-125 and OR-225) are*
2 *still needed.*

3 ***DATA-F-C-1.13.3 EPA Codes***

4 *The EPA codes were eliminated for the waste because of treatment. The previous waste*
5 *stream description included EPA codes for characteristic heavy metals including D006, D008,*
6 *D009, and D011. The current DOE-ORO contract for processing the TRU waste includes*
7 *treatment to meet the Resource Conservation and Recovery Act (RCRA) Land Disposal*
8 *Restrictions. Therefore, the TRU waste will not be characteristic at the time it is sent to*
9 *WIPP.*

10 ***DATA-F-C-1.13.4 Radionuclides***

11 *The radioactive isotope inventory for Oak Ridge has changed considerably. The radioisotope*
12 *inventories have increased from approximately 125,000 curies in Revision 2 to 245,000 curies*
13 *in the 2003 Update. The Revision 2 data indicated that the predominant isotopes by activity*
14 *were ^{60}Co and $^{110\text{m}}\text{Ag}$ with over a factor of ten reduction to reach the next dominant isotopes*
15 *(^{241}Pu , ^{241}Am , ^{90}Sr , ^{137}Cs , etc.). The 2003 Update data indicate the predominant isotopes are*
16 *^{241}Pu , ^{90}Sr , and ^{137}Cs with over a factor of ten reduction to reach the next dominant isotopes*
17 *(^{238}Pu , ^{152}Eu , ^{244}Cm , etc.). The changes in the radioisotope inventory are attributable to three*
18 *sources:*

- 19 • *Additional characterization information,*
- 20 • *Differences in waste processing strategies, and*
- 21 • *Additional waste streams.*

22 *Oak Ridge has obtained more reliable data for characterization than existed five years ago. A*
23 *considerable number of samples have been obtained and analyzed from the TRU sludge. The*
24 *new analysis is reflected in the characterization information submitted. Further*
25 *characterization has also been performed for the CH-TRU and RH-TRU waste debris from*
26 *the major production facilities in Oak Ridge. The debris characterization effort identified*
27 *more actinides and other isotopes than were previously included.*

28 *The Oak Ridge waste processing includes compaction of the waste and size reduction of the*
29 *waste equipment. Since the TWBIR activities are reported as concentrations (i.e., Ci/m³),*
30 *compaction and size reduction would increase the concentration. However, a net reduction of*
31 *radioisotopes will be going to WIPP as a result of waste sorting and segregation. Sorting will*
32 *generate low-level radioactive waste (LLW) that will be sent to the NTS. Offsetting the*
33 *isotope reduction by the generation of LLW is a small increase in the volume of unsorted*
34 *waste. All told, these changes result in only moderate change to the overall totals.*

35 *Oak Ridge has identified a few additional waste streams that have added a significant amount*
36 *of radioisotopes. These streams include TRU soils, fuel salts, and decontamination and*
37 *decommissioning (D&D) debris.*

1 **DATA-F-C-1.13.5 Packaging**

2 *The packaging when realigned to the new waste streams designators has not changed. Oak*
 3 *Ridge plans to send CH-TRU waste in 55-gallon drums and RH-TRU waste in 72B canisters.*

4 **DATA-F-C-1.13.6 Volumes**

5 *The volume of waste being sent from Oak Ridge to WIPP has reduced from approximately*
 6 *3,800 m³ (134,216 ft³) in Revision 2 to 1,100 m³ (38,852 ft³) in the 2003 Update. The reason is*
 7 *mostly attributable to the planned volume reduction techniques during waste processing*
 8 *including waste segregation (LLW from TRU), compaction, size reduction, and evaporative*
 9 *drying for sludge.*

10 *Oak Ridge's submittal for the 2003 Update is focused on the projected volumes, not the*
 11 *current volumes. The reason for the emphasis on projected volumes is that the Oak Ridge*
 12 *waste streams will be completely repackaged and will include considerable volume reduction*
 13 *to most of the waste streams. The repackaged waste is what WIPP will be sent. The effort to*
 14 *prepare the 2003 Update information included a detailed evaluation of the projected volumes.*

15 *Essentially, this submittal is the same as Revision 2 for the debris and homogeneous solids*
 16 *(sludge). The addition of Environmental Restoration waste streams (i.e., soil, salts, PCB-*
 17 *containing TRU, etc.) has resulted in new material parameter mixes for those waste streams*
 18 *and some influence in global totals for larger waste streams.*

19 *There is a significant change between waste densities in Revision 2 and the 2003 Update due*
 20 *to the compaction and size reduction efforts previously discussed. Also, new waste streams*
 21 *(e.g., soil) have been added and their specific densities included in the 2003 Update.*

22 *Table DATA-F-C-11 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 23 *2003 Update Report for the ORNL.*

24 **Table DATA-F-C-11. Oak Ridge National Laboratory Crosswalk of Waste Streams**
 25 **TWBIR Revision 2 to 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>OR-W041, OR-W053</i>	<i>OR-W201</i>
<i>OR-W044, OR-W045, OR-W047, OR-W048</i>	<i>OR-W202</i>
<i>N/A</i>	<i>OR-W203</i>
<i>N/A</i>	<i>OR-W204</i>
<i>OR-W054</i>	<i>OR-W211</i>
<i>OR-W040, OR-W043</i>	<i>OR-W212</i>
<i>N/A</i>	<i>OR-W213</i>
<i>N/A</i>	<i>OR-W214</i>
<i>OR-W042, OR-W046</i>	<i>OR-W215</i>
<i>OR-W051</i>	<i>N/A</i>
<i>OR-W049</i>	<i>N/A</i>
<i>OR-W050</i>	<i>N/A</i>
<i>OR-Z001</i>	<i>N/A</i>

1 ***DATA-F-C-1.14 Paducah Gaseous Diffusion Plant***

2 ***There were no changes to the Paducah waste streams with this Update. Table DATA-F-C-12***
 3 ***contains the crosswalk of waste streams from TWBIR Revision 2 to the 2003 Update Report***
 4 ***for the Paducah Gaseous Diffusion Plant (PGDP).***

5 ***Table DATA-F-C-12. Paducah Gaseous Diffusion Plant Laboratory Crosswalk of Waste***
 6 ***Streams TWBIR Revision 2 to 2003 Update Report***

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>PA-A015</i>	<i>PA-A015</i>
<i>PA-B015</i>	<i>PA-B015</i>
<i>PA-W014</i>	<i>PA-W014</i>

7 ***DATA-F-C-1.15 Rocky Flats Environmental Technology Site***

8 ***The major changes in the Rocky Flats Environmental Technology Site (RFETS) waste***
 9 ***streams are that all the residues have been recharacterized as waste and have been processed***
 10 ***and packaged as TRU/TRUM waste; therefore, many waste streams were renamed from***
 11 ***Mixed Residues (MR) waste to Mixed TRU (MT) waste. Also, several new waste streams have***
 12 ***been added.***

13 ***The waste material parameters (WMPs) and the radionuclide concentration (Ci/m³) data are***
 14 ***based on data from WIPP-approved counters or systems.***

15 ***Table DATA-F-C-13 contains the crosswalk of waste streams from TWBIR Revision 2 to the***
 16 ***2003 Update Report for the RFETS.***

Table DATA F-C-13. Rocky Flats Environmental Technology Site Crosswalk of Waste
Streams TWBIR Revision 2 to 2003 Update Report

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-MR-0070</i>	<i>N/A</i>
<i>RF-MR0089</i>	<i>RF-MT0089</i>
<i>RF-MR0090</i>	<i>RF-MT0090, RF-MT0093</i>
<i>RF-MR0091</i>	<i>RF-MT0091, RF-MT0093</i>
<i>RF-MR0092</i>	<i>RF-MT0092, RF-MT0093</i>
<i>RF-MR0097</i>	<i>RF-MT0097, RF-MT0093</i>
<i>RF-MR-0099</i>	<i>RF-MT0099</i>
<i>RF-MR-0200</i>	<i>RF-MT0200</i>
<i>RF-MR0290</i>	<i>RF-MT0290</i>
<i>RF-MR0292</i>	<i>RF-MT0292</i>
<i>RF-MR0299</i>	<i>RF-MT0299</i>
<i>RF-MR0320</i>	<i>RF-MT0320</i>
<i>RF-MR0321</i>	<i>RF-MT0321</i>
<i>RF-MR0330</i>	<i>RF-MT0330</i>

17

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-MR-0331</i>	<i>RF-MT-0331</i>
<i>RF-MR0332</i>	<i>RF-MT0332</i>
<i>RF-MR-0333</i>	<i>N/A</i>
<i>RF-MR0336</i>	<i>RF-MT0336</i>
<i>RF-MR0337</i>	<i>RF-MT0337</i>
<i>RF-MR-0338</i>	<i>RF-TT0338</i>
<i>RF-MR0339</i>	<i>RF-MT0339</i>
<i>RF-MR0340</i>	<i>RF-TT0340</i>
<i>RF-MR-0342</i>	<i>RF-MT-0342</i>
<i>RF-MR-0365, RF-MR-0409, RF-MR-0411, RF-MR-0413, RF-MR-0414, RF-MR-0434, RF-MT 0411, RF-TR 0404, RF-TR 0405, RF-TR 0406, RF-TR 0407, RF-TR 0408, RF-TR 0410, RF-TR 0411, RF-TR 0413, RF-TR 0415, RF-TR 0417, RF-TR 0418, RF-TR 0427, RF-TR 0429, RF-TR 0433, RF-TR 0434, RF-TR 0473, RF-TR 0654,</i>	<i>RF-TT411R, RF-TT429R, RF-TT433X, RF-TT436R, RF-TT454X</i>
<i>RF-MR0371</i>	<i>RF-MT0371</i>
<i>RF-MR0373</i>	<i>RF-MT0373</i>
<i>RF-MR0374</i>	<i>RF-MT0374</i>
<i>RF-MR-0376</i>	<i>RF-MT0376</i>
<i>RF-MR0377</i>	<i>RF-MT0377</i>
<i>RF-MR0378</i>	<i>RF-MT0378</i>
<i>RF-MR-0387, RF-MR-0390, RF-MR-0392, RF-MR-0391, RF-MR-0395, RF-TR0390, RF-TR0395, RF-TR0396, RF-TR0398</i>	<i>RF-TT398R</i>
<i>RF-MR-0393</i>	<i>RF-TT0393</i>
<i>RF-MR-0401</i>	<i>N/A</i>
<i>RF-MR0419</i>	<i>RF-MT0419</i>
<i>RF-MR0420</i>	<i>RF-MT0420</i>
<i>RF-MR 0421, RF-MR 0422, RF-MR0428</i>	<i>RF-MT420P</i>
<i>RF-MR 0423</i>	<i>RF-MT0423</i>
<i>RF-MR-0500</i>	<i>N/A</i>
<i>RF-MR-0503</i>	<i>RF-MT-0503, MT-0505</i>
<i>RF-MR-0508, RF-MR-0527</i>	<i>RF-MT0828, RF-MT0829, RF-MT0505</i>
<i>RF-MR0533, RF-MR0535</i>	<i>RF-MT0816, RF-MT0827, RF-MT0533</i>
<i>RF-MR-0541</i>	<i>RF-MT0541</i>
<i>RF-MR -X200</i>	<i>RF-TT0523, RF-MT 532C</i>
<i>RF-MT0001</i>	<i>RF-MT0001, RF-MT0002, RF-MT0532E, RF-MT0532F, RF-MT0828, RF-MT0829</i>
<i>RF-MT0003</i>	<i>RF-MT0003, RF-MT0529, RF-MT0531, RF-MT0816, RF-MT0827, RF-MT0857</i>
<i>RF-MT0007</i>	<i>RF-MT0007</i>

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-MT-0292</i>	<i>RF-MT-0292</i>
<i>RF-MT-0299</i>	<i>RF-MT-0299</i>
<i>RF-MT0320</i>	<i>RF-MT0320, RF-MT3010, RF-MT3011</i>
<i>RF-MT0321</i>	<i>RF-MT0321, RF-MT3010, RF-MT3011</i>
<i>RF-MT-0328</i>	<i>RF-MT-0328</i>
<i>RF-MT0330</i>	<i>RF-MT0330, RF-MT3010, RF-MT3011</i>
<i>RF-MT-0331</i>	<i>RF-MT-0331</i>
<i>RF-MT-0335</i>	<i>RF-MT-0335</i>
<i>RF-MT0336</i>	<i>RF-MT0336, RF-MT3010, RF-MT3011</i>
<i>RF-MT0337</i>	<i>RF-MT0337, RF-MT3010, RF-MT3011</i>
<i>RF-MT-0338</i>	<i>N/A</i>
<i>RF-MT0341</i>	<i>RF-MT0339</i>
<i>RF-MT-0342</i>	<i>RF-MT-0342</i>
<i>RF-MT-0372</i>	<i>RF-MT-0372</i>
<i>RF-MT0374</i>	<i>RF-MT0374, RF-MT3010, RF-MT3011</i>
<i>RF-MT0375</i>	<i>RF-MT0375A, RF-MT0375B</i>
<i>RF-MT0377</i>	<i>RF-MT0377</i>
<i>RF-MT0378</i>	<i>RF-MT0378</i>
<i>RF-MT-0368</i>	<i>RF-MT-0368</i>
<i>RF-MT-0391, RF-MT-0392</i>	<i>RF-TT398R</i>
<i>RF-MT-0393</i>	<i>RF-TT0393</i>
<i>RF-MT-0400</i>	<i>N/A</i>
<i>RF-MT -0409</i>	<i>RF-TT0409</i>
<i>RF-MT -0412</i>	<i>RF-TT0412</i>
<i>RF-MT-0414</i>	<i>RF-MT-0414</i>
<i>RF-MT0420</i>	<i>RF-MT0420</i>
<i>RF-MT0425</i>	<i>RF-MT0425</i>
<i>RF-MT-0438</i>	<i>RF-MT-0438</i>
<i>RF-MT0440</i>	<i>RF-MT0440, RF-MT0443</i>
<i>RF-MT0442</i>	<i>RF-MT0442</i>
<i>RF-MT0444</i>	<i>RF-MT0444</i>
<i>RF-MT0480</i>	<i>RF-MT0480, RF-MT3010, RF-MT3011</i>
<i>RF-MT-0491</i>	<i>RF-MT-0491</i>
<i>RF-MT-0492</i>	<i>RF-MT-0492</i>
<i>RF-MT-0541</i>	<i>RF-MT-0541</i>
<i>RF-MT-0492</i>	<i>RF-TT0492</i>
<i>RF-MT0544</i>	<i>RF-MT0545</i>
<i>RF-MT0800</i>	<i>RF-MT0800</i>
<i>RF-MT0801</i>	<i>RF-MT0801</i>
<i>RF-MT0803</i>	<i>RF-MT0803</i>
<i>RF-MT0806</i>	<i>RF-MT0806</i>

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-MT0807</i>	<i>RF-MT0807</i>
<i>RF-MT0821</i>	<i>RF-TT0821, RF-MT3010, RF-MT3011</i>
<i>RF-MT0822</i>	<i>RF-TT0822, RF-MT3010, RF-MT3011</i>
<i>RF-MT-0823</i>	<i>RF-MT-0823</i>
<i>RF-MT0831</i>	<i>RF-MT0831, RF-MT3010, RF-MT3011</i>
<i>RF-MT0831P</i>	<i>N/A</i>
<i>RF-MT0832</i>	<i>RF-MT0832, RF-MT3010, RF-MT3011</i>
<i>RF-MT0833</i>	<i>RF-MT0833, RF-MT3010, RF-MT3011</i>
<i>RF-MT0853</i>	<i>RF-MT0853</i>
<i>RF-MT0855</i>	<i>RF-MT0855</i>
<i>RF-MT0856</i>	<i>RF-MT0443, RF-MT3010, RF-MT3011</i>
<i>RF-MTX111</i>	<i>N/A</i>
<i>RF-MTX112</i>	<i>RF-MT0299</i>
<i>RF-MTX115</i>	<i>RF-MT0816, RF-MT0827</i>
<i>RF-T010</i>	<i>RF-MT0800, RF-MT0803, RF-MT0807</i>
<i>RF-TR0044, RF-TR0067, RF-TR0081, RF-TR0087, RF-TR0146, RF-TR0289</i>	<i>RF-MT532C</i>
<i>RF-TR0080</i>	<i>RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D</i>
<i>RF-TR0082</i>	<i>RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D</i>
<i>RF-TR0083</i>	<i>RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D</i>
<i>RF-TR0084</i>	<i>RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D</i>
<i>RF-TR0086</i>	<i>RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D</i>
<i>RF-TR0089</i>	<i>RF-MT0089, RF-MT0H61, RF-MT532A, RF-MT532B, RF-MT532C, RF-MT532D,</i>
<i>RF-TR0145</i>	<i>N/A</i>
<i>RF-TR0290</i>	<i>RF-MT0H61</i>
<i>RF-TR0299</i>	<i>RF-TT0299</i>
<i>RF-TR0300</i>	<i>RF-TT0300</i>
<i>RF-TR0301</i>	<i>RF-TT0301</i>
<i>RF-TR0303</i>	<i>RF-TT0302</i>
<i>RF-TR0310</i>	<i>RF-TT0310</i>
<i>RF-TR0312</i>	<i>RF-TT0312</i>
<i>RF-TR0320</i>	<i>RF-TT0320</i>
<i>RF-TR0330</i>	<i>RF-TR0330</i>
<i>RF-TR0331</i>	<i>RF-TT-0331</i>
<i>RF-TR0334</i>	<i>RF-TT-0334</i>
<i>RF-TR0335</i>	<i>RF-TT0335</i>
<i>RF-TR0336</i>	<i>RF-TT0336</i>

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-TR0337</i>	<i>RF-TT0337</i>
<i>RF-TR 0338</i>	<i>RF-TT0338</i>
<i>RF-TR0342</i>	<i>RF-TT0342</i>
<i>RF-TR0368</i>	<i>RF-TT0368</i>
<i>RF-TR0370</i>	<i>RF-TT0370</i>
<i>RF-TR0376</i>	<i>RF-TT0371</i>
<i>RF-TR0391</i>	<i>RF-TT0391</i>
<i>RF-TR0392</i>	<i>RF-TT0392</i>
<i>RF-TR0394</i>	<i>RF-TT0394</i>
<i>RF-TR 0409</i>	<i>RF-TT0409</i>
<i>RF-TR 0412</i>	<i>RF-TT0412</i>
<i>RF-TR0414</i>	<i>RF-TT0414</i>
<i>RF-TR 0416</i>	<i>RF-TT0480</i>
<i>RF-TR 0430</i>	<i>RF-TT0430</i>
<i>RF-TR 0431</i>	<i>RF-TT0431</i>
<i>RF-TR 0438</i>	<i>RF-TT0438</i>
<i>RF-TR 0440</i>	<i>RF-TT0440</i>
<i>RF-TR 0441</i>	<i>RF-TT0441</i>
<i>RF-TR 0442</i>	<i>RF-TT0442</i>
<i>RF-TR 0444</i>	<i>RF-MT0444</i>
<i>RF-TR 0479</i>	<i>RF-TT0479</i>
<i>RF-TR 0480</i>	<i>RF-TT0480</i>
<i>RF-TR 0484</i>	<i>RF-TT0484</i>
<i>RF-TR 0485</i>	<i>RF-TT0485</i>
<i>RF-TR 0486</i>	<i>RF-TT0486</i>
<i>RF-TR 0489</i>	<i>RF-TT0489</i>
<i>RF-TR 0504</i>	<i>N/A</i>
<i>RF-TR 0527</i>	<i>RF-MT0828, RF-MT0829</i>
<i>RF-TR 0541</i>	<i>RF-TT0541</i>
<i>RF-TR 0600</i>	<i>N/A</i>
<i>RF-TR 0601</i>	<i>RF-TT0601</i>
<i>RF-TR 0653</i>	<i>RF-MT532D</i>
<i>RF-TR 0655</i>	<i>RF-TT0655</i>
<i>RF-TT0300</i>	<i>RF-TT0300</i>
<i>RF-TT0301</i>	<i>RF-TT0301</i>
<i>RF-TT0302</i>	<i>RF-TT0302, RF-MT0302</i>
<i>RF-TT0303</i>	<i>RF-TT0303</i>
<i>RF-TT0312</i>	<i>RF-TT0312</i>
<i>RF-TT0320</i>	<i>RF-TT0320</i>
<i>RF-TT0330</i>	<i>RF-TT0330</i>
<i>RF-TT0335</i>	<i>RF-TT0335</i>

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>RF-TT0336</i>	<i>RF-TT0336</i>
<i>RF-TT0337</i>	<i>RF-TT0337</i>
<i>RF-TT0338</i>	<i>RF-TT0338</i>
<i>RF-TT0374</i>	<i>RF-TT0374</i>
<i>RF-TT0376</i>	<i>RF-TT0376</i>
<i>RF-TT0430</i>	<i>RF-TT0430</i>
<i>RF-TT0431</i>	<i>RF-TT0431</i>
<i>RF-TT0438</i>	<i>RF-TT0438</i>
<i>RF-TT0440</i>	<i>RF-TT0440</i>
<i>RF-TT0441</i>	<i>RF-TT0441</i>
<i>RF-TT0442</i>	<i>RF-TT0442</i>
<i>RF-TT0479</i>	<i>RF-TT0479</i>
<i>RF-TT0480</i>	<i>RF-TT0480</i>
<i>RF-TT0481</i>	<i>RF-TT0481</i>
<i>RF-TT0484</i>	<i>RF-TT0484</i>
<i>RF-TT0485</i>	<i>RF-TT0485</i>
<i>RF-TT0486</i>	<i>RF-TT0486</i>
<i>RF-TT0487</i>	<i>RF-TT0487</i>
<i>RF-TT0489</i>	<i>RF-TT0489</i>
<i>RF-TT0490</i>	<i>RF-TT0490, RF-MT0490</i>
<i>RF-TT0491</i>	<i>RF-TT0491</i>
<i>RF-TT0508</i>	<i>RF-MT0828, RF-MT0829</i>
<i>RF-TT0541</i>	<i>RF-TT0541</i>
<i>RF-TT0802</i>	<i>RF-TT0802</i>
<i>RF-TT0806</i>	<i>RF-TT0806</i>
<i>RF-TT0809</i>	<i>RF-TT0809</i>
<i>RF-TT0821</i>	<i>RF-TT0821</i>
<i>RF-TT0822</i>	<i>RF-TT0822</i>
<i>RF-TT0823</i>	<i>RF-TT0823</i>
<i>RF-TT0824</i>	<i>RF-TT0824</i>
<i>RF-TT0825</i>	<i>RF-TT0825</i>
<i>RF-TT0831</i>	<i>RF-TT0831</i>
<i>RF-TT0832</i>	<i>RF-TT0832</i>
<i>RF-TT0833</i>	<i>RF-MT0831</i>
<i>RF-TT0999</i>	<i>N/A</i>
<i>RF-TT2116</i>	<i>RF-MT2116</i>
<i>RF-W011</i>	<i>RF-MT0480, RF-MT0488</i>
<i>N/A</i>	<i>RF-MT0523A</i>
<i>N/A</i>	<i>RF-MT0523B</i>
<i>N/A</i>	<i>RF-MT0523C</i>
<i>N/A</i>	<i>RF-MT0523D</i>

Table DATA F-C-13 Rocky Flats Environmental Technology Site Crosswalk of Waste Streams TWBIR Revision 2 to 2003 Update Report — Continued

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>N/A</i>	<i>RF-MT0523E</i>
<i>N/A</i>	<i>RF-TT0523A</i>
<i>N/A</i>	<i>RF-TT0523B</i>
<i>N/A</i>	<i>RF-TT0523C</i>
<i>N/A</i>	<i>RF-TT0523D</i>
<i>N/A</i>	<i>RF-TT0523E</i>

1 ***DATA-F-C-1.16 Sandia National Laboratories***

2 ***DATA-F-C-1.16.1 Inventory Changes***

3 *The 1996 TRU Waste Baseline Inventory Report (TWBIR) for Sandia National Laboratories,*
 4 *New Mexico (SNL/NM) included two waste streams: SA-W134 – Transuranic Waste at Hot*
 5 *Cell Facility and SA-T001 – Lovelace ITRI Waste Stream. The recent submittal for the*
 6 *TWBIR renamed one waste stream, SA-W134 – TRU Waste from SNL/NM – Contact Handled*
 7 *and created one new waste stream, SA-W135 – TRU Waste from SNL/NM – Remote Handled.*
 8 *The total waste covered by these two waste streams shows an increase in volume from the 1996*
 9 *report. This increase is due to the TRU waste volume generated during the decontamination*
 10 *and decommissioning of the Hot Cell Facility at SNL/NM Technical Area V being greater*
 11 *than originally anticipated, additional TRU waste identified during recharacterization efforts*
 12 *of legacy waste stored by SNL/NM, and an effort to identify nuclear material that has no*
 13 *defined use at the laboratory.*

14 *The updated volume for SA-T001 – Lovelace ITRI Waste Stream has been reduced from the*
 15 *1996 report. This is due to a mission change at the Lovelace Respiratory Research Institute*
 16 *(LRRRI). It is no longer a DOE-funded facility and its work with radioactive material,*
 17 *especially transuranic isotopes, has been greatly reduced. Any additional TRU waste*
 18 *generated by the facility will be the result of D&D efforts.*

19 *Table DATA-F-C-14 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 20 *2003 Update Report for the SNL.*

21 ***Table DATA-F-C-14. Sandia National Laboratories Crosswalk of Waste Streams***
 22 ***TWBIR Revision 2 to 2003 Update Report***

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>SA-T001</i>	<i>SA-T001</i>
<i>SA-W134</i>	<i>SA-W134, SA-W134M, SA-W135</i>
<i>SA-Z001</i>	<i>SA-Z001</i>

1 **DATA-F-C-1.17 Savannah River Site**

2 *The 1996 inventory consisted of 47 specific waste streams; 18 waste streams were TRU and 29*
 3 *waste streams were MT. The reported stored inventory was 9,194 m³ (324,732 ft³). In the*
 4 *1996 submittal, the technology identified for treating part of the inventory was vitrification*
 5 *that had a volume reduction ratio of 30 to 1. Also included was size reduction for large metal*
 6 *components that had to fit into standard waste boxes (SWBs). The size reduction ratio used*
 7 *was 3.5 to 1. As a result, the final waste forms identified were vitrified debris, heterogeneous*
 8 *debris, and metal debris.*

9 *The SRS has consolidated the 47 waste streams into 20 waste streams. This is because*
 10 *vitrification will no longer be implemented for treatment and the large metal components will*
 11 *only be size-reduced to fit into 5 ft by 5 ft by 8 ft containers. As a result, the vitrified and metal*
 12 *waste streams have been deleted and are now included in the heterogeneous debris waste*
 13 *streams. The reported stored inventory equals 11,612 m³ (410,135.8 ft³).*

14 *The SRS also identifies five future waste streams to be generated as a result of Pit*
 15 *Disassembly and Waste Solidification activities. It also identifies the future generation of*
 16 *270 m³ (9,536.4 ft³) of waste from Mound. This is the inventory currently being shipped to the*
 17 *Savannah River Site (SRS). As shown in the table below, all 13 waste streams from Mound*
 18 *(identified in TWBIR, Revision 2) are accounted for in Waste Stream W027-999-HET.*

19 *Having compared the EPA Hazardous Waste codes between the 1996 and the 2003 reports,*
 20 *five codes have been added in the 2003 Update Report. The five codes are D029, D035, D039,*
 21 *D040, and D043. These codes were added as a result of Acceptable Knowledge Report*
 22 *Development.*

23 *Table DATA-F-C-15 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 24 *2003 Update Report for the SRS.*

**Table DATA-F-C-15. Savannah River Site Crosswalk of Waste Streams
 TWBIR Revision 2 to 2003 Update Report**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>T001-221F-MET, T001-221F-VIT, T001-221F-HET</i>	<i>T001-221F-HET</i>
<i>T001-221H-MET, T001-221H-VIT, T001-221H-HET</i>	<i>T001-221H-HET</i>
<i>T001-235F-MET, T001-235F-VIT, T001-235F-HET</i>	<i>T001-235F-HET</i>
<i>T001-772F-MET, T001-772F-VIT, T001-772F-HET</i>	<i>T001-772F-HET</i>
<i>T001-773A-MET, T001-773A-VIT, T001-773A-HET</i>	<i>T001-773A-HET</i>
<i>T001-773A-CLA</i>	<i>T001-773A-CLA</i>
<i>T003-773A-VIT, T003-773A-HET</i>	<i>T003-773A-HET</i>
<i>W006-773A-VIT</i>	<i>W006-773A-VIT</i>
<i>W026-221F-VIT, W026-221F-HET</i>	<i>W026-221F-HET</i>
<i>W026-221H-VIT, W026-221H-HET</i>	<i>W026-221H-HET</i>
<i>W026-235F-VIT, W026-235F-HET</i>	<i>W026-235F-HET</i>

25

**Table DATA-F-C-15. Savannah River Site Crosswalk of Waste Streams
TWBIR Revision 2 to 2003 Update Report — Continued**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>W026-772F-VIT, W026-772F-HET</i>	<i>W026-772F-HET</i>
<i>W026-773A-VIT, W026-773A-HET</i>	<i>W026-773A-HET</i>
<i>W027-221F-MET, W027-221F-VIT, W027-221F-HET</i>	<i>W027-221F-HET</i>
<i>W027-221H-MET, W027-221H-VIT, W027-221H-HET</i>	<i>W027-221H-HET</i>
<i>W027-235F-MET, W027-235F-VIT, W027-235F-HET</i>	<i>W027-235F-HET</i>
<i>W027-772F-MET, W027-772F-VIT, W027-772F-HET</i>	<i>W027-772F-HET</i>
<i>W027-773A-MET, W027-773A-VIT, W027-773A-HET</i>	<i>W027-773A-HET</i>
<i>W027-999-VIT, W027-999-HET, MD-M001, MD-T001, MD-T003, MD-T005, MD-T006, MD-T007, MD-T008, MD-T009, MD-T010, MD-T012, MD-W002, MD-W003, MD-W017</i>	<i>W027-999-HET</i>
<i>W053-773A-VIT</i>	<i>W053-773A-VIT</i>
<i>N/A</i>	<i>T001-WSB-1</i>
<i>N/A</i>	<i>W026-WSB-2</i>
<i>N/A</i>	<i>T001-WSB-3</i>
<i>N/A</i>	<i>W026-PDCF-1</i>
<i>N/A</i>	<i>W026-MFFF-1</i>

1 **DATA-F-C-1.18 U.S. Army Material Command**

2 *There were no changes reported for the U.S. Army Material Command (USAMC) waste*
 3 *streams with this 2003 Update Report.*

4 *Table DATA-F-C-16 contains the crosswalk of waste streams from TWBIR Revision 2 to the*
 5 *2003 Update Report for the USAMC.*

6 **Table DATA-F-C-16. U.S. Army Material Command**

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>MC-W001</i>	<i>MC-W001</i>

7 **DATA F-C-1.19 West Valley Demonstration Project**

8 *Four waste streams have been removed from the inventory as a result of recharacterization.*
 9 *Final Form inventory has been reduced because of size reduction and repackaging.*

10 *A Remote Handled Waste Facility (RHWF) is being constructed to sort, characterize, size*
 11 *reduce, decontaminate and repack waste currently stored on site. Operations are expected*
 12 *to begin in the first quarter of FY05. As a result of this new facility, the RH-TRU waste*
 13 *portion of West Valley Demonstration Project (WVDP) waste, Final Form, has been reduced.*
 14 *One additional waste stream number has been assigned for inventory tracking purposes as a*

1 *result of the RHWF Process. The WV-T021 waste stream is a subset of waste stream WV-*
 2 *T001, Fissile Material, as shown in Table F-C-17.*

3 *Three decontamination projects have been initiated and three additional waste stream*
 4 *numbers have been assigned for inventory tracking purposes as shown in Table F-C-7.*

5 *Table F-C-17 contains the crosswalk of waste stream from TWBIR Revision 2 to the 2003*
 6 *Update Report for the WVDP.*

7 *Table DATA-F-C-17. West Valley Demonstration Project (WVDP) Crosswalk of Waste*
 8 *Streams TWBIR Revision 2 to 2003 Update Report*

<i>TWBIR Revision 2 Waste Streams</i>	<i>2003 Update Report Waste Streams</i>
<i>WV-M005</i>	<i>WV-M005, WV-T019</i>
<i>WV-M007</i>	<i>WV-M007</i>
<i>WV-M008</i>	<i>WV-M008</i>
<i>WV-M010</i>	<i>WV-M010</i>
<i>WV-M012</i>	<i>N/A</i>
<i>WV-M013</i>	<i>WV-M013</i>
<i>WV-M015</i>	<i>WV-M015</i>
<i>WV-T001</i>	<i>WV-T001, WV-T020, WV-T021</i>
<i>WV-T002</i>	<i>N/A</i>
<i>WV-T003</i>	<i>N/A</i>
<i>WV-T004</i>	<i>WV-T004</i>
<i>WV-T006</i>	<i>WV-T006</i>
<i>WV-T009</i>	<i>WV-T009</i>
<i>WV-T011</i>	<i>WV-T011</i>
<i>WV-T014</i>	<i>WV-T014, WV-T018</i>
<i>WV-T016</i>	<i>WV-T016, WV-T018</i>
<i>WV-T017</i>	<i>WV-T017</i>
<i>WV-W041</i>	<i>N/A</i>
<i>WV-Z001</i>	<i>WV-Z001</i>

9

1 ***REFERENCES***

- 2 ***Department of Energy (DOE). 1995. Transuranic Waste Baseline Inventory Report, Revision***
3 ***2, DOE/CAO-95-1121, December 1995.***
- 4 ***Department of Energy (DOE). 1996. Transuranic Waste Baseline Inventory Report, Revision***
5 ***3, DOE/CAO-95-1121, June 1996.***
- 6 ***Environmental Protection Agency (EPA). 1998. "Criteria for the Certification and***
7 ***Recertification of the Waste Isolation Pilot Plant's Compliance with the Disposal Regulations:***
8 ***Certification Decision: EPA Final Rule." Federal Register 63:27353-27406, May 18, 1998,***
9 ***Radiation Protection Division, Washington, D.C.***
- 10 ***New Mexico Environment Department (NMED). 1999. "Waste Isolation Pilot Plant***
11 ***Hazardous Waste Facility Permit." NM4890139088-TSDF, Attachment B, Waste Analysis***
12 ***Plan. Santa Fe, New Mexico.***