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**Form SP 9-6-3**  
**Inventory Data Change/Addition Control Form**  
Page 1 of 2

This form is used to document resolution of data discrepancies and acquisition of additional data for the Transuranic Waste Inventory Update Report, 2003.

1. This form documents:  Additional Data Required  Change to Existing Data

2. Date: November 4, 2004

3. Site: INEEL

4. Contact Name (include phone or email address as appropriate):

Tom Clements (tlc@inel.gov)

5. Identify Electronic File Names and Types (N/A if none received):

Email Attached: Subject: FW: TWBIR-Buried TRU Waste Estimate-Revision 1

6. Comments:

In April 2003 a judicial decision was made that allows all of INEEL's TRU waste to be shipped off site.

Pre-1970 TRU waste buried at INEEL falls into this category.

7. Discrepancy Resolution:

Originally, this waste was placed in the Non-WIPP waste profiles and now must be moved to the WIPP profiles and additional information added.

8. Changes/Additional Data Requested:

IN-Z001 becomes 5 waste streams. IN-ICP-002, IN-ICP-003, IN-ICP-004, IN-ICP-004<sup>5</sup> plus the original IN-  
Z001 which will still contain undefined sludge (see attached waste profiles)

5 <sup>pt</sup> 11/30/04

Information Only

10/26/04  
LAW: 1, 1.3.2; T.D: QA-L; INEEL

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9. Date Requested:   N/A  

10. Changes/Additional Data Received:

  The buried waste stream from INEEL, IN-Z001 has been split into five separate waste streams.  

  IN-ICP-002 - Idaho Completion Project (ICP) Inorganic Sludge  

  IN-ICP-003 - ICP Organic Sludge  

  IN-ICP-004 - ICP Graphite  

  IN-ICP-005 - ICP Filters  

  IN-Z001 - ICP undefined sludge  

  The radionuclides that were submitted for the 2003 Update will be used for these waste streams.  

  Plastics will include a drum liner and a plastic transfer bag. (Phone conversation with Tom Clements 11/3/04)  

11. Date Received:   November 4, 2004  

Data Collection/Entry Personnel

Sheila A. Lott  
Print Name

  
Signature

11/05/04  
Date

Inventory Team Lead (for concurrence on resolution)

Beverly A. Crawford  
Print Name

  
Signature

11/5/04  
Date

Information Only

X-Sender: slott@ees-mail.lanl.gov  
X-Mailer: QUALCOMM Windows Eudora Version 5.0  
Date: Fri, 12 Nov 2004 13:27:26 -0700  
To: sparkie@lanl.gov  
From: Sheila Lott <slott@lanl.gov>  
Subject: Fwd: FW: TWBIR- Buried TRU Waste Estimate-Revision 1  
X-PMX-Version: 4.7.0.111621

*L. Sparks*  
*11/12/04*

Laurie,  
This email was inadvertently omitted from the record that goes with the INEEL Pre-1970 waste streams. Would you please sign it and add it to the INEEL record.

Thanks,  
Sheila

Subject: FW: TWBIR- Buried TRU Waste Estimate-Revision 1  
Date: Thu, 4 Nov 2004 13:01:28 -0700  
X-MS-Has-Attach:  
X-MS-TNEF-Correlator:  
Thread-Topic: TWBIR- Buried TRU Waste Estimate-Revision 1  
Thread-Index: AcTCAw+EyEupFXJMTkWT10I+vQYGAgApMxnw  
From: "Perry, Jeffrey N" <perryjn@id.doe.gov>  
To: <slott@lanl.gov>, <crawford@lanl.gov>  
Cc: "Clements, Thomas L" <TLC@id.doe.gov>, "O'Neill, Kevin C" <oneillkc@id.doe.gov>  
X-Proofpoint-Spam: 0  
X-PMX-Version: 4.7.0.111621  
X-MIME-Autoconverted: from quoted-printable to 8bit by ees-mail.lanl.gov id iA4K2GD7023959

Sheila and Beverly,

This should contain the information that you need regarding the estimated waste volumes destined for WIPP. These waste volumes assume a retrieval area of 4.5 acres of buried waste exhumed and specifically retrieving only the targeted waste streams identified below. At present, DOE does not have a final agreement with the State of Idaho and these numbers are subject to change. This acreage represents what we believe to be the most likely outcome of future negotiations with the State.

If you have any questions, please give me a call at (208) 526-4570.

Thanks,

Jeff

> -----Original Message-----  
> From: Clements, Thomas L  
> Sent: Wednesday, November 03, 2004 5:12 PM  
> To: Perry, Jeffrey N  
> Cc: Van Haften, David H; Bryan, Jeffrey D; Wells, Jerry L; O'Neill, Kevin C; Webber, Frank L  
> Subject: TWBIR- Buried TRU Waste Estimate-Revision 1  
>

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> Jeff:

>

> As I mentioned a few weeks ago, WIPP (Sheila Lott) had contacted me about the INEEL inventory for buried TRU waste reflected in waste stream IN-Z001. In January 2004, we responded to an inventory update. In that response, the previous estimates of 55,800m<sup>3</sup> of buried TRU was reflected as destined for disposal at WIPP.

>

> What has transpired is that the volume of 55,800m<sup>3</sup> would push WIPP past its disposal volume authorized under the Land Withdrawal Act. What was requested was a reassessment to determine if the volume could be reduced to something that would fall within the LWA authorized volume. My understanding from Sheila is that the data is supporting the EPA recertification efforts.

>

> An evaluation has been completed to provide an improved estimate of the volume of buried TRU waste that would require disposal at WIPP based on a targeted waste retrieval approach. This estimate was based on using the SDA areas delineated in the DOE Request for Proposal for the Idaho Completion Project for targeted waste retrieval. In summary, a map of these seven areas was generated, GIS used to identify disposals within each retrieval area (which included a buffer area), and then the WILD system used to identify the specific waste types and volumes associated with each disposal.

>

> The data from WILD was used to determine estimates of the targeted waste forms, including a portion of the waste in the buffer zone, and then the volume of the waste doubled to account for intermixed soil and other waste that might get mixed in during retrieval.

>

> In summary, the total estimated volume of buried TRU waste for disposition at WIPP, based on the ICP-RFP and the approach summarized above, can be reduced from 55,800m<sup>3</sup> to approximately 12,243 m<sup>3</sup> as unpackaged waste volume. Assuming packaging in 55-gallon drums with 5 cubic feet per drum, this volume in the final packaged form increases to 17,997m<sup>3</sup>. This breaks down to:

>

- > - Inorganic Sludge (741 and 742 series): 5652 m<sup>3</sup> (raw waste) or 8308m<sup>3</sup> (packaged volume);
- > - Organic Sludge (743 series): 2383 m<sup>3</sup> (raw waste) or 3503 m<sup>3</sup> (packaged volume);
- > - Graphite: 491 m<sup>3</sup> (raw waste) or 722 m<sup>3</sup> (packaged volume);
- > - Filters: 3278 m<sup>3</sup> (raw waste) or 4819 m<sup>3</sup> (packaged volume);
- > - Other Sludge (undefined): 439 m<sup>3</sup> (raw waste) or 645 m<sup>3</sup> (packaged volume).

>

> The volume reported above excludes the roaster oxide, which is D38 and not expected to be TRU waste.

>

> Please forward this information on to Sheila Lott at WIPP at: [slott@lanl.gov](mailto:slott@lanl.gov) and Beverly Crawford at: [crawford@lanl.gov](mailto:crawford@lanl.gov)

>

> Thanks for your assistance Jeff.

>

Information Only

Subject: TWBIR- Buried TRU [PMX:#]  
 To: slott@lanl.gov, crawford@lanl.gov  
 X-Mailer: Lotus Notes Release 5.0.8 June 18, 2001  
 From: TLC@inel.gov  
 Date: Fri, 19 Nov 2004 16:54:47 -0700  
 X-MIMETrack: Serialize by Router on LNMAIL03/ENT/INEEL/US(652HF552|November 03, 2004) at 11/19/2004 04:55:00 PM  
 X-Proofpoint-Spam: 0  
 X-Perlmx-Spam: Gauge=XXXXXIIIIII, Probability=56%, Report="BASE64\_ENC\_TEXT, HTML\_FONT\_COLOR\_MAGENTA, NO\_REAL\_NAME, SPAM\_PHRASE\_00\_01, WEB\_BUGS, \_HAS\_X\_MAILER"  
 X-PMX-Version: 4.7.0.111621

here it is again. didn't get all of Bev's address.

----- Forwarded by Thomas L Clements/TLC/CC01/INEEL/US on 11/19/2004 04:54 PM -----

**Thomas L Clements** To: slott@lanl.gov, crawford@lanl.gov  
 cc: CENTRAL CHARACTERIZATION PROJECT FOR TRU WASTE DISPOSITION/SP4/CC01/INEEL/US@INEL, Jeffrey N Perry@Exchange  
 11/19/2004 04:48 PM Fax to:  
 Subject: Assay Year

Sheila,

This email details our conversations regarding the waste streams coming from the pre-1970 buried waste stream, IN-Z001, which resulted in five waste streams. This summary includes all the changes we discussed.

The following applies to all of the waste streams:

- All waste is considered CH TRU waste for the pre-1970 waste that is being retrieved for the Idaho Completion Project.
- Use volumes reported by Jeff Perry on November 4, 2004, for the five waste streams. (All containers are 55-gallon drums.)
- All radionuclides assigned to the waste streams are the same as reported for the IN-Z001 in the submittal for the 2003 update.
- Standard packaging materials for 55-gallon drums will be used (i.e., 131 kg/m<sup>3</sup> steel packaging materials and 37 kg/m<sup>3</sup> for plastic packaging materials.)
- The inventory date is 11/5/2004.
- The assay year is 1970 ((per data submittal dated May 1, 2003, for performance assessment purposes, it is suggested that decay be initiated on January 1, 1970.
- The inventory final form is projected to be processed in the

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years  
from 2003 to 2012.

For the individual waste streams, the following should be used:  
• IN-Z001 contains 3,301 drums of undefined sludge, with the soil density as reported from IN-GEM-01. No other waste material parameters are known at this time; therefore, the waste is an unknown final waste form with the waste matrix code of U9999. The source of this waste stream is

INEEL Pit 1, 2, 4, 5, 6, 9, and 10.

• IN-Z002/IN-ICP-002 contains 39,943 drums of inorganic sludge (741 and 742 series), with the soil density as reported from IN-GEM-01.

As we discussed, the remaining waste material parameters should be assigned as reported in IN-W228.101, a solidified inorganic sludge given lack of other specific data for pre-1970 disposed inorganic sludge. The final waste form will be unknown homogeneous solids with the EPA codes of D004, D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009. This waste stream should have a waste matrix code of S3900.

PCBs are present in unknown concentrations. The source of this waste stream is

INEEL Pit 1, 2, 4, 5, 6, 9, and 10.

• IN--Z003/IN-ICP-003 contains 16,842 drums of organic sludge. It is understood

that WIPP used the RFETS TWBIR stream: RF-MT-0801 to provide a basis for waste material parameter

weights due to lack of other information specific to the pre-1970 disposed organic sludge.

The soil density that was used is as reported from IN-GEM-01. The final waste form is unknown other homogeneous solids with a waste matrix code of S3900. EPA codes are D004,

D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009.

PCBs are

present in unknown concentrations. The source of this waste stream is Pit

1, 2, 4, 5, 6, 9, and 10.

• IN-Z004/IN-ICP-004 contains 3,472 drums of graphite waste based on

IN-GEM-01, a graphite-containing waste stream. The final waste form is

heterogeneous debris with a waste matrix code of S5400. PCBs are present

in unknown concentrations. The source of this waste stream is Pit 1, 2, 4,

5, 6, 9, and 10. EPA codes are D004, D005, D006, D007, D008, D009, D010,

D011, D018, F001-F007, F009.

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• IN-Z005/IN-ICP-005 contains 23,169 drums of filter waste. The basis for the waste material parameters was IN-W211.001, a filter debris waste stream due to lack of other information specific to the pre-1970 disposed filters. The density of the soil in this waste stream is based on the IN-GEM-01 waste stream. The final waste form is heterogeneous debris with a waste matrix code of S5400. The source of this waste stream is Pit 1, 2, 4, 5, 6, 9, and 10. EPA codes are D004, D005, D006, D007, D008, D009, D010, D011, D018, F001-F007, F009.

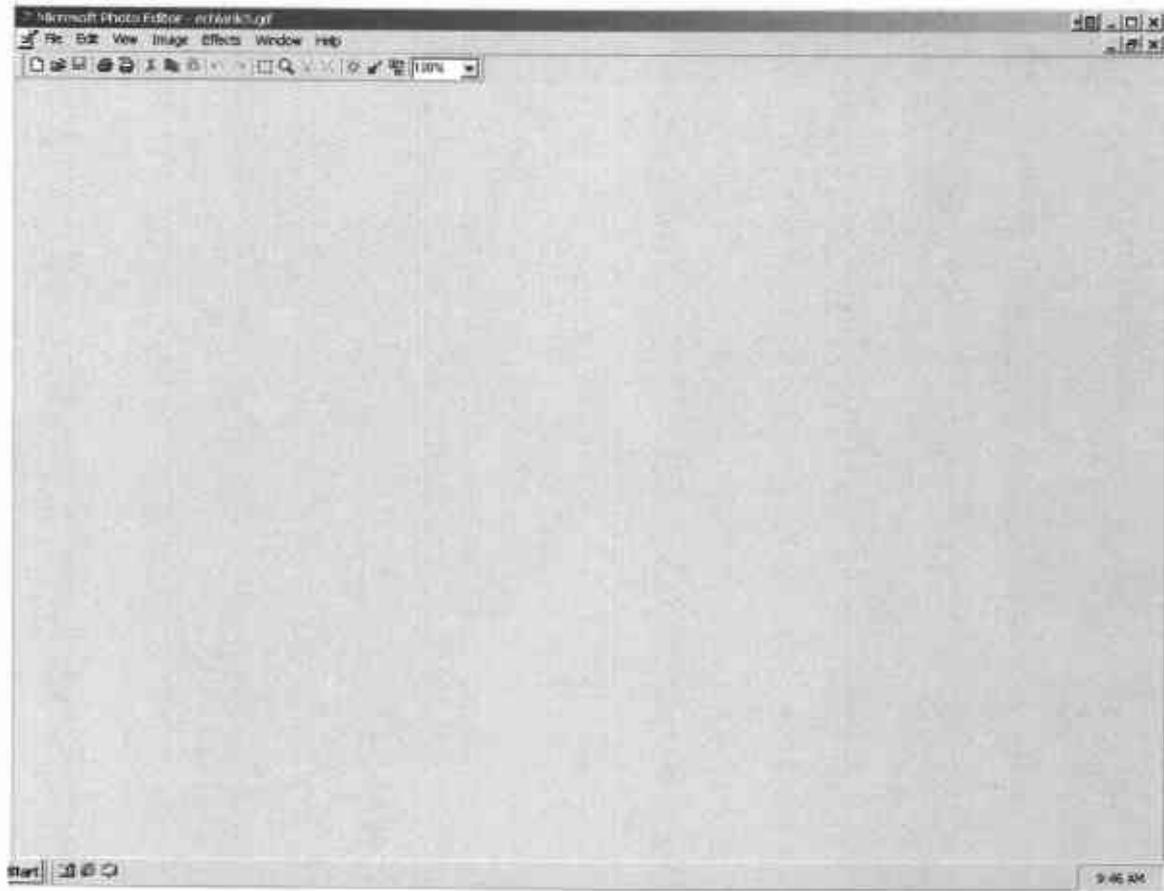
At this point, this is the best information and/or estimates that can be made with the time available. If you have questions, call me at 208-526-0664.

Tom



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# Annex I

## TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	CH	NMVP #:	NA	Stream Name:	Idaho Completion Project - Undefined Sludge			Inventory Date:	11/05/04 9/30/03
Local ID:	NA	Type:	TRU	Generator Site:	IN	Final Waste Form:	Unknown	Waste Matrix Code:	U9999	TRUCON Code:	

AS-GENERATED EPA CODES	WASTE MATERIAL PARAMETERS (kg/m <sup>3</sup> )	Avg	Min	Max	FINAL WASTE FORM DESCRIPTORS	SITE IDCs	FINAL FORM RADIOISOTOPES Isotope Activity (Ci/m <sup>3</sup> )
Unknown	Iron-base Metal/Alloys:	--			Defense: Defense TRU waste		Am-241 3.28E+00 Am-243 2.40E-03 Np-237 4.73E-05 Pu-238 3.06E-01 Pu-239 1.16E+00 Pu-240 3.06E-01 U-233 2.71E-05 U-234 1.21E-03 U-235 9.93E-05 U-236 5.13E-05 U-238 2.10E-03
	Aluminum-base Metal/Alloys:	--			Residues: NO		
	Other Metals/Alloys:	--			Asbestos: Unknown		
	Other Inorganic Material:	--			PCBs: Unknown		
	Cellulosics:	--			Source: INEEL PIT 1, 2, 4, 5, 6, 9, and 10		
	Rubber:	--					
	Plastics:	--					
	Solidified, Inorganic Matrix:	--					
	Vitrified:	--					
	Cement (solidified):	--					
	Solidified Organic Material:	--					
	Soils:	947.7					
	Packaging Material Steel:	131.0					
	Packaging Material Plastic:	37.0					

WASTE VOLUME DETAIL (cu. Meters)													
Container	Pit	As-Generated Waste Form Volumes					Final Waste Form Volumes					Totals	
		Stored	95-97	98-02	03-12	13-22	Totals	Container	Stored	95-97	98-02		03-12
		439	439			439	55-gal drum	645				645	645

As-Generated Form: Stored:  Projected:  Total:  Final Waste Form: Stored:  Projected:  Total:

**WASTE STREAM DESCRIPTION** Pre-1970 buried waste retrieved for the Idaho Completion Project.

**WASTE STREAM SOURCE DESCRIPTION**

**CURRENT CONTAINER COMMENTS** 3,101 drums in final form

**Management Comments-** Soils have been added to this waste stream, but the other waste material parameters are unknown at this time. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

The waste will be placed into 55-gallon drum liners and filled with approximately .142 m<sup>3</sup> (5 ft<sup>3</sup>) of waste. The liner will then be placed into plastic transfer bags that will go into the 55-gallon drum.

1N-ICP-002  
 PL 11/5/04

## Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	CH	NMVP #:	NA	Stream Name:	Idaho Completion Project - Inorganic Sludge (7412 and 742 series)			Inventory Date:	11/05/04 9/30/03
Local ID:	NA	Type:	MTRU	Generator Site:	IN	Final Waste Form:	SeisUnknown/Other Homogeneous Solids	Waste Matrix Code:	S4000 S3900	TRUCON Code:	

AS-GENERATED EPA CODES	WASTE MATERIAL PARAMETERS (kg/m <sup>3</sup> )	Avg	Min	Max	FINAL WASTE FORM DESCRIPTORS	SITE IDCs	FINAL FORM RADIOINUCLIDES Isotope Activity (Ci/m <sup>3</sup> )
D004, D005, D006, D007, D008, D009, D010, D011, D018, B022, F001, F002, F003 F001-F007, F009	Iron-base Metal/Alloys:	--			Defense:	Defense TRU waste	Am-241 3.28E+00 Am-243 2.40E-03 Np-237 4.73E-05 Pu-238 3.06E-01 Pu-239 1.16E-00 Pu-240 3.06E-01 U-233 2.71E-05 U-234 1.21E-03 U-235 9.98E-05 U236 5.13E-05 U-238 2.10E-03
	Aluminum-base Metal/Alloys:	--			Residues:	NO	
	Other Metals/Alloys:	--			Asbestos:	NO	
	Other Inorganic Material:	14.49			PCBs:	NOYes-unknown concentrations	
	Cellulosics:	--			Source:	INEEL PIT 4 1, 2, 4, 5, 6, 9, and 10  PL 12/1/04	
	Rubber:	--					
	Plastics:	1.99					
	Solidified, Inorganic Matrix:	127.17					
	Vitrified:	--					
	Cement (solidified):	--					
	Solidified Organic Material:	--					
	Soils:	947.7					
	Packaging Material Steel:	131.0					
	Packaging Material Plastic:	37.0					

Container	As-Generated Waste Form Volumes					Final Waste Form Volumes					Totals
	Stored	95-97	98-02	03-12	13-22	Container	Stored	95-97	98-02	03-12	
Pit	5652					55-gal drum	8308			8308	8308

As-Generated Form: Stored:  Projected:  Total:  Final Waste Form: Stored:  Projected:  Total:

**WASTE STREAM DESCRIPTION** Pre-1970 buried waste retrieved for the Idaho Completion Project.

**WASTE STREAM SOURCE DESCRIPTION**

**CURRENT CONTAINER COMMENTS** 39,943 drums in final form

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## Blank Waste Stream Profile Form

**Management Comments-** Waste material parameters from IN-W228.101-solidified inorganic second stage sludge- with the addition of soil (50% by volume). Radionuclides provided from IN-Z001 as reported for the 2003 inventory update. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

The waste will be placed into 55-gallon drum liners and filled with approximately .142 m<sup>3</sup> (5 ft<sup>3</sup>) of waste. The liner will then be placed into plastic transfer bags that will go into the 55-gallon drum.

# Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	CH	NMVP #:	NA	Stream Name:	Idaho Completion Project - Organic Sludge			Inventory Date:	11/05/04
Local ID:	NA	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Unknown/Other Homogeneous Solids Sell	Waste Matrix Code:	S4000S3900	TRUCON Code:	

AS-GENERATED EPA CODES	WASTE MATERIAL PARAMETERS (kg/m <sup>3</sup> )	Avg	Min	Max	FINAL WASTE FORM DESCRIPTORS	SITE IDCs	FINAL FORM RADIOISOTOPES Isotope Activity (Ci/m <sup>3</sup> )																						
<div style="border: 1px solid black; padding: 2px;">                     D005, D006, D007, D010, F001, F002                      D004, D005, D006, D007, D008, D009, D010, D011, D018                      F001-F007, F009                 </div>	Iron-base Metal/Alloys:	--			Defense:	Defense TRU waste	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Am-241</td><td>3.28E+00</td></tr> <tr><td>Am-243</td><td>2.40E-03</td></tr> <tr><td>Np-237</td><td>4.73E-05</td></tr> <tr><td>Pu-238</td><td>3.06E-01</td></tr> <tr><td>Pu-239</td><td>1.16E+00</td></tr> <tr><td>Pu-240</td><td>3.06E-01</td></tr> <tr><td>U-233</td><td>2.71E-05</td></tr> <tr><td>U-234</td><td>1.21E-03</td></tr> <tr><td>U-235</td><td>9.93E-05</td></tr> <tr><td>U236</td><td>5.13E-05</td></tr> <tr><td>U-238</td><td>2.10E-03</td></tr> </table>	Am-241	3.28E+00	Am-243	2.40E-03	Np-237	4.73E-05	Pu-238	3.06E-01	Pu-239	1.16E+00	Pu-240	3.06E-01	U-233	2.71E-05	U-234	1.21E-03	U-235	9.93E-05	U236	5.13E-05	U-238	2.10E-03
	Am-241	3.28E+00																											
	Am-243	2.40E-03																											
	Np-237	4.73E-05																											
	Pu-238	3.06E-01																											
	Pu-239	1.16E+00																											
	Pu-240	3.06E-01																											
	U-233	2.71E-05																											
	U-234	1.21E-03																											
	U-235	9.93E-05																											
	U236	5.13E-05																											
	U-238	2.10E-03																											
	Aluminum-base Metal/Alloys:	--			Residues:	NO																							
	Other Metals/Alloys:	--			Asbestos:	NO																							
Other Inorganic Material:	--			PCBs:	NOYes-unknown concentration																								
Cellulosics:	--			Source:	INEEL PIT 1, 2, 4, 5, 6, 9, and 10 4																								
Rubber:	--																												
Plastics:	166.75																												
Solidified, Inorganic Matrix:	955.49																												
Vitrified:	--																												
Cement (solidified):	--																												
Solidified Organic Material:	1032.33																												
Solls:	947.7																												
Packaging Material Steel:	131.0																												
Packaging Material Plastic:	37.0																												

Container	As-Generated Waste Form Volumes						Final Waste Form Volumes					Totals
	Stored	95-97	98-02	03-12	13-22	Totals	Container	Stored	95-97	98-02	03-12	
Pit	2383					2383	55-gal drum	3503			3503	3503

As-Generated Form: Stored:  Projected:  Total:  Final Waste Form: Stored:  Projected:  Total:

**WASTE STREAM DESCRIPTION** Pre-1970 buried waste retrieved for the Idaho Completion Project.

**WASTE STREAM SOURCE DESCRIPTION**

**CURRENT CONTAINER COMMENTS** 16,842 drums in final form -

## Blank Waste Stream Profile Form

**Management Comments-** Waste Material parameters are based on OASIS waste stream at RFETS – RF-MT0801; soils as reported in IN-GEM-01 and standard packaging materials with addition of soil (50%) by volume. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

The waste will be placed into 55-gallon drum liners and filled with approximately .142 m<sup>3</sup> (5 ft<sup>3</sup>) of waste. The liner will then be placed into plastic transfer bags that will go into the 55-gallon drum.

IN-ICP-004  
 2/11/04

## Annex J TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	CH	NMVP #:	NA	Stream Name:	Idaho Completion Project - Graphite			Inventory Date:	11/05/04 03/03/03
Local ID:	NA	Type:	MTRU	Generator Site:	IN	Final Waste Form:	Heterogeneous Debris	Waste Matrix Code:	S54000	TRUCON Code:	

AS-GENERATED EPA CODES	WASTE MATERIAL PARAMETERS (kg/m <sup>3</sup> )	Avg	Min	Max	FINAL WASTE FORM DESCRIPTORS	SITE IDCs	FINAL FORM RADIOISOTOPES Isotope Activity (Ci/m <sup>3</sup> )
D004, D005, D006, D007, D008, D009, D010, D011, D018, F001, F002, F003, F004, F005, F006, F007, F009	Iron-base Metal/Alloys:	--			Defense:		Am-241 3.28E+00 Am-243 2.40E-03 Np-237 4.73E-05 Pu-238 3.06E-01 Pu-239 1.16E+00 Pu-240 3.06E-01 U-233 2.71E-05 U-234 1.21E-03 U-235 9.93E-05 U236 5.13E-05 U-238 2.10E-03
	Aluminum-base Metal/Alloys:	--			Residues:	NO	
	Other Metals/Alloys:	--			Asbestos:	NO	
	Other Inorganic Material:	59.40			PCBs:	Unknown	
	Cellulosics:	--			Source:	INEEL PIT 1, 2, 4, 5, 6, 9, and 10-4	
	Rubber:	--					
	Plastics:	--					
	Solidified, Inorganic Matrix:	97.88					
	Vitrified:	--					
	Cement (solidified):	--					
	Solidified Organic Material:	224.00					
	Soils:	947.7					
	Packaging Material Steel:	131.0					
	Packaging Material Plastic:	37.0					

Container	As-Generated Waste Form Volumes						Final Waste Form Volumes					Totals
	Stored	95-97	98-02	03-12	13-22	Totals	Container	Stored	95-97	98-02	03-12	
Pit	491					491	55-gal drum	722			722	722

As-Generated Form: Stored:  Projected:  Total:  Final Waste Form: Stored:  Projected:  Total:

**WASTE STREAM DESCRIPTION** Pre-1970 buried waste retrieved for the Idaho Completion Project.

**WASTE STREAM SOURCE DESCRIPTION**

**CURRENT CONTAINER COMMENTS** 3472 drums in final form

## Blank Waste Stream Profile Form

**Management Comments-** Waste material parameters from IN-GEM-01-a graphite-containing waste stream with soils (50% by volume) and standard packaging added. Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

The waste will be placed into 55-gallon drum liners and filled with approximately .142 m<sup>3</sup> (5 ft<sup>3</sup>) of waste. The liner will then be placed into plastic transfer bags that will go into the 55-gallon drum.

~~IN-INC~~  
IN-ICP-005

2-11/5/04

# Annex J

## TRU WASTE BASELINE INVENTORY WASTE PROFILE

HQ ID:	NA	Handling:	CH	NMVP #:	NA	Stream Name:	Idaho Completion Project - Filters			Inventory Date:	11/05/04 03/30/03
Local ID:	NA	Type:	TRU	Generator Site:	IN	Final Waste Form:	Heterogeneous Debris/Filter	Waste Matrix Code:	S5400+0	TRUCON Code:	

AS-GENERATED EPA CODES	WASTE MATERIAL PARAMETERS (kg/m <sup>3</sup> )	Avg	Min	Max	FINAL WASTE FORM DESCRIPTORS	SITE IDCs	FINAL FORM RADIOINUCLIDES Isotope Activity (Ci/m <sup>3</sup> )																						
NA D004, D005, D006, D007, D008, D009, D010, D011, D018, F001, F002, F003, F004, F005, F006, F007, F009	Iron-base Metal/Alloys:	0.06			Defense: Defense TRU waste		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Am-241</td><td>3.28E+00</td></tr> <tr><td>Am-243</td><td>2.40E-03</td></tr> <tr><td>Np-237</td><td>4.73E-05</td></tr> <tr><td>Pu-238</td><td>3.06E-01</td></tr> <tr><td>Pu-239</td><td>1.16E+00</td></tr> <tr><td>Pu-240</td><td>3.06E-01</td></tr> <tr><td>U-233</td><td>2.71E-05</td></tr> <tr><td>U-234</td><td>1.21E-03</td></tr> <tr><td>U-235</td><td>9.93E-05</td></tr> <tr><td>U236</td><td>5.13E-05</td></tr> <tr><td>U-238</td><td>2.10E-03</td></tr> </table>	Am-241	3.28E+00	Am-243	2.40E-03	Np-237	4.73E-05	Pu-238	3.06E-01	Pu-239	1.16E+00	Pu-240	3.06E-01	U-233	2.71E-05	U-234	1.21E-03	U-235	9.93E-05	U236	5.13E-05	U-238	2.10E-03
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U-235	9.93E-05																												
U236	5.13E-05																												
U-238	2.10E-03																												
	Aluminum-base Metal/Alloys:	8.59			Residues: NO																								
	Other Metals/Alloys:	0.42			Asbestos: NO																								
	Other Inorganic Material:	22.28			PCBs: NO																								
	Cellulosics:	137.66			Source: INEEL PIT 1, 2, 4, 5, 6, 9 and 104																								
	Rubber:	0.08																											
	Plastics:	7.28																											
	Solidified, Inorganic Matrix:	--																											
	Vitrified:	--																											
	Cement (solidified):	--																											
	Solidified Organic Material:	--																											
	Soils:	947.7																											
	Packaging Material Steel:	131.0																											
	Packaging Material Plastic:	37.0																											

WASTE VOLUME DETAIL (cu. Meters)												
Container	Pit	As-Generated Waste Form Volumes					Final Waste Form Volumes					
		Stored	95-97	98-02	03-12	13-22	Totals	Stored	95-97	98-02	03-12	Totals
		3273				3273	55-gal drum	4819			4819	4819

As-Generated Form:      Stored: 3273    Projected:      Total: 3273    Final Waste Form:      Stored: 4819    Projected: 4819    Total: 4819

**WASTE STREAM DESCRIPTION**    Pre-1970 buried waste retrieved for the Idaho Completion Project.

**WASTE STREAM SOURCE DESCRIPTION**

**CURRENT CONTAINER COMMENTS**    23,169 drums in final form

**Management Comments-** Waste material parameters from filter debris waste stream that has been emplaced – IN-W211.001 with soils added from IN-GEM-01 (50% by volume). Radionuclides provided from IN-Z001 as reported for the 2003 inventory update.

The waste will be placed into 55-gallon drum liners and filled with approximately .142 m<sup>3</sup> (5 ft<sup>3</sup>) of waste. The liner will then be placed into plastic transfer bags that will go into the 55-gallon drum.

Information Only

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