



Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221
FEB 18 2014

 **ENTERED**
RECEIVED

FEB 27 2014

NMED
Hazardous Waste Bureau

Mr. John E. Kieling, Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Subject: Shipment of Containers from Waste Stream LA-MIN03-NC.001 (Lot 86)

Dear Mr. Kieling:

In accordance with the Stipulated Final Order, No. HWB 09-31 Compliance Order (CO) Los Alamos National Laboratory (LANL), prior to shipment of remediated containers from waste stream LA-MIN03-NC.001, respondents shall submit to NMED the following information for each container:

- A. A list of remediated containers being shipped;
- B. Evidence that each container has been remediated in accordance with approved LANL procedures; and
- C. Evidence that Nonconformance Reports written for prohibited liquid have been dispositioned appropriately by the Central Characterization Program.

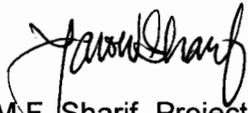
Enclosed is a compact disk (CD) containing the required documents for 10 containers (Lot 86) from waste stream LA-MIN03-NC.001. Each container listed has its Real-Time Radiography (RTR) Batch Data Report, Nonconformance Report disposition information, and Prohibited Item Disposition (PID) form. The PID form identifies parent container and the daughter containers if a daughter container has been produced. These daughter containers passed RTR and do not have a nonconformance report. The PID does identify that the daughter containers have been remediated for liquids.

We certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

If you have questions, please contact Mr. J. R. Stroble, Director of the Office of the National TRU Program, at (575) 234-7313.

Sincerely,


Jose R. Franco, Manager
Carlsbad Field Office


M.F. Sharif, Project Manager
Nuclear Waste Partnership LLC

Enclosure



Mr. John E. Kieling

-2-

FEB 18 2014

cc: w/enclosure

S. Holmes, NMED

* ED

T. Kliphuis, NMED

ED

R. Maestas, NMED

ED

C. Smith, NMED

ED

CBFO M&RC

*ED denotes electronic distribution

LA-MIN03-NC.001 Containers, Lot 86	
Container ID	RTR BDR
68709	LA-HERTR-14-0003
68857	LA-HERTR-14-0003
68862	LA-HERTR-14-0006
68863	LA-HERTR-14-0006
68865	LA-HERTR-14-0006
68869	LA-HERTR-14-0006
68708	LA-HERTR-14-0007
68868	LA-HERTR-14-0007
S803796	LA-RTR2-14-0008
S816101	LA-RTR2-14-0008

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0007
Examination Date:	1/17/2014
Waste Container ID:	68708
Video/Audio Recorded Media Number:	LA-HERTR-14-0007 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>162.5</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>128.4</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 0 layers
Volume Utilization Percentage:	95 %

CCP Radiography Data Sheet

Waste Container ID: 68708

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM: Scrap metal, utility knife	
AM:	
OM:	
OI: Broken glass	
C:	
R:	
XPM: Plastic sheeting, liner lid	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	0.2
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	3.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	124.7
Soils (S):	
Total WMP Weight:	128.4

CCP Radiography Data Sheet

CCP-TP-053 Attachment 2 (continued)

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Waste Container ID: 68708

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: N/A

RTR Operator:

Thad Hasselstrom
Print Name


Signature

1/17/2014
Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5814154

- 4.3[8][A] (\$ Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
 - Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is ≤ 200 FGE SAT UNSAT

- 5.[3] (\$ STATIONARY FIRE WATCH established. (SAC 5.7.17) ALW/STW 11-10-14
Initials/Z# Date

- 5.[7] Remediation start date: 1-10-14

- 5.[8] RCRA designation (EPA Codes): D007 D008 D009 F001

- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): Intact

- 5.[22] Rigid liner can be rigged: YES NO

- 5.[24[F] Liquid (top of drum) pH: NA

- 5.[25] Rigid liner contains an internal poly-liner: YES NO

- 5.[29] Torque wrench information:
 - MT&E No: 40235
 - Cal. Expiration Date: 6-21-14
 - Range in ft-lb: 10-80
 - Tolerance: ± 3% CW ± 6% CCW

- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 581-1154

5.[32] Lifting device fasteners torque value (≥ 12 -ft-lb): 12 ft-lb

7.[7] (S) SAC 5.7.12 non-compliant containers are present:
 (SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1 cr			
Liquid pH	7			

5.[61] Daughter Drum No.: NA

5.[62] Lifting device fasteners torque value (≥ 12 -ft-lb): NA ft-lb

5.[68][C] Secondary daughter drum No.: NA

5.[69] Liquid pH: NA

5.[72] Total amount of liquid found: NA gal

5.[73] Amount of absorbent used: NA lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
 Initials/Z# / Date

(CS) 5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
 SAT UNSAT NA

UET

ATTACHMENT 1

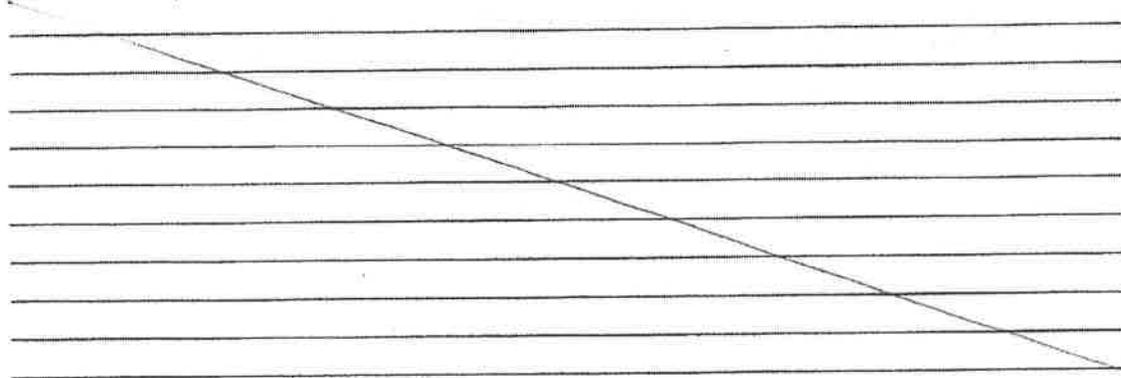
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5.[6] Parent Drum No.:

5814154

Comments:

Concrete Chunks, Electrical cord, RAP Trash, ^{no HM-11 Disassembly} Disassembly Drum
 Sump pump Remediated absorbed liquid from pump placed in Drum
 LA 000 000 62866 Rigid Liner From parent ^{LA 000 000 62866} placed in ^{LA 000 000 62866} Drum
 All liquids absorbed. Holes drilled in Rigid Liner so it will not
 Retain liquids 1-11-14 RW



9.1[1] Performed By: Ryan Kelly [Signature] 118701 11-11-14
 Operator (Print) Signature Z# Date
Joe R. Cassel [Signature] 234252 1-11-14

9.1[2] Reviewed By: Joe R. Cassel [Signature] 234252 11-11-14
 Supervision (Print) Signature Z# Date
Joe Wise [Signature] 254390 1-15-14

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Ciocchetti [Signature] 106601 1/16/14 1250
 SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68708

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68708	55G	LA00000068708	NO WDS STATUS	NO	L A-MIN03-NC.001	L A-MIN03-NC.001- 86 (L A-MIN03-NC.001 -Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1253	NDA	Complete	2014-01-21
LA-HERTR-14- 0007	RTR	Complete	2014-01-17

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68708	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>NCR Status</u>	<u>Release Code</u>	<u>Actual Condition</u>
68708	NO DATA				

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0003
Examination Date:	1/10/2014
Waste Container ID:	68709
Video/Audio Recorded Media Number:	LA-HERTR-14-0003 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>196.5</u> kg Tare Wt.: <u>35.1</u> kg Net Wt.: <u>161.4</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 0 layers
Volume Utilization Percentage:	95 %

CCP Radiography Data Sheet

Waste Container ID: 68709

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM:	
AM:	
OM:	
OI:	
C:	
R:	
XPM: Plastic containers	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner/Lid	7.4
Other:	0.0
Total Packaging Weight	35.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	3.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	158.4
Soils (S):	
Total WMP Weight:	161.4

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5803782

- 4.3[8][A] (\$ Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
 - Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is ≤ 200 FGE SAT UNSAT

- 5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) PR 183693 / 1/5/14

Initials/Z#
Date

- 5.[7] Remediation start date: 1/5/14

- 5.[8] RCRA designation (EPA Codes): D007, D008, D009, F001

- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): SAT

- 5.[22] Rigid liner can be rigged: YES NO

- 5.[24][F] Liquid (top of drum) pH: 12

- 5.[25] Rigid liner contains an internal poly-liner: YES NO

- 5.[29] Torque wrench information:
 - MT&E No: 0211151
 - Cal. Expiration Date: 8-5-14
 - Range in ft-lb: 10-80
 - Tolerance: ± 3% cw, ± 6% ccw

- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

ATTACHMENT 1

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5.[6] Parent Drum No.: 5803782

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1 quart	1 quart		
Liquid pH	12	12		

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
N/A / 1 / N/A
Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
 SAT UNSAT N/A

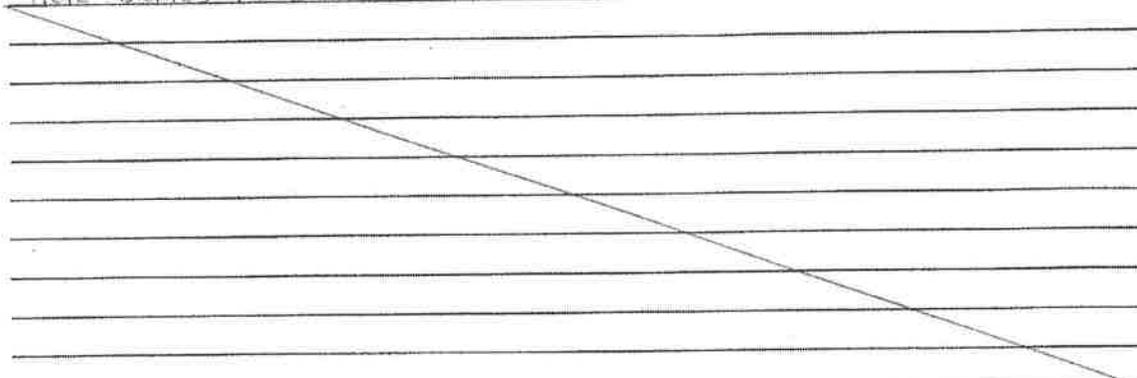
UET

ATTACHMENT 1

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5.[6] Parent Drum No.: 5803782

Comments: Daughter drum # LA00000068709 "Drill and Drain" was performed on liner. Inverted liner from Parent 5803782 to remove prohibited item from bottom of liner. 6 containers found - 2 containers contained 1 quart in each one. 4 empty. Hole drilled in liner at bottom of Drain 9L.



9.1[1] Performed By: Philip Quintana Philip Quintana 11836931 1/5/14
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Joe R. Casert Joe R. Casert 234252 11-5-14
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Giochetti Dennis Giochetti 1866081 1/14/14 0914
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68709
LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68709	55G	LA00000068709	NO WDS STATUS	NO		LA-MIN03-NC.001- 86 (LA-MIN03-NC.001- Lot 86)	
					LA-MIN03-NC.001		

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
1LANDA1890	NDA	Complete	2014-01-14
LA-HERTR-14- 0003	RTR	Complete	2014-01-10

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68709	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>NCR Status</u>	<u>Release Code</u>	<u>Actual Condition</u>
68709	NO DATA				

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0003
Examination Date:	1/10/2014
Waste Container ID:	68857
Video/Audio Recorded Media Number:	LA-HERTR-14-0003 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>188.0</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>153.9</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	95 %

CCP Radiography Data Sheet

CCP-TP-053 Attachment 2 (continued)

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Waste Container ID: 68857

Section 3: Container Inventory and Comments

(Detailed descriptions)

IM:	
AM:	
OM:	
OI:	
C:	
R:	
XPM:	Plastic containers, liner lid, plastic bag
OR:	
IN:	Homogeneous solids
S:	

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	5.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	148.9
Soils (S):	
Total WMP Weight:	153.9

CCP Radiography Data Sheet

Waste Container ID: 68857

Section 5: RTR Summary		
(Questions answered "Yes" will be explained in the Comment block, except for Question 1)		
Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
CH or RH TRAMPAC		
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Comments: N/A		
RTR Operator:		
<u>Thad Hasselstrom</u> Print Name	 Signature	<u>1/10/2014</u> Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

5.[6] Parent Drum No.: 5834116

4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

- Drums are 55 gal or larger for remediation SAT UNSAT
- Each drum is ≤ 200 FGE SAT UNSAT

5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) HW/2872201 1-4-14
Initials/Z# Date

5.[7] Remediation start date: 1-4-14
D008 1-14-14

5.[8] RCRA designation (EPA Codes): D007, A008, D009, F001

5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): SAT

5.[22] Rigid liner can be rigged: YES NO

5.[24[F] Liquid (top of drum) pH: 8

5.[25] Rigid liner contains an internal poly-liner: YES NO

5.[29] Torque wrench information:
MT&E No: 021151
Cal. Expiration Date: 8-5-14
Range in ft-lb: 10-80
Tolerance: ± 3% ccw / ± 6% ccw

5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

ATTACHMENT 1

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5.[6] Parent Drum No.: 5834116

5.[32] Lifting device fasteners torque value (≥ 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
 (SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1 gallon	1/2 gallon		
Liquid pH	8	8		

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (≥ 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
N/A / N/A
 Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT N/A

UET

ATTACHMENT 1

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5.[6]

Parent Drum No.: 1-14-14 HW

5834116

Comments:

Daughter Drum # LA00000068857-

Inverted liner from parent drum 5834116 to remove PI
Bottom of liner - 2 Containers (1 quart) and (1/2 quart) - PI of 8
Liquid was absorbed - Drill and drain was also performed
on liner. Drilled hole in bottom of liner.

9.1[1]

Performed By:

Heath Wade Heath Wade 12872201 1-4-14
Operator (Print) Signature Z# Date

9.1[2]

Reviewed By:

Joseph Casazza Joseph Casazza 234252 1-4-14
Supervision (Print) Signature Z# Date

9.1[3][B]

Acceptance criteria satisfied:

YES NO

9.1[3][E]

Approved By:

Dennis Ciocchetti Dennis Ciocchetti 186808 1/13/14 1035
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68857

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68857	55G	LA00000068857	NO WDS STATUS	NO	LA-MIN03-NC.001	LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001-Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
ILANDA1890	NDA	Complete	2014-01-14
LA-HERTR-14- RTR 0003		Complete	2014-01-10

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68857	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>NCR Status</u>	<u>Release Code</u>	<u>Actual Condition</u>
68857	NO DATA				

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0006
Examination Date:	1/16/2014
Waste Container ID:	68862
Video/Audio Recorded Media Number:	LA-HERTR-14-0006 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u> N/A </u> NCR No.: <u> N/A </u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u> 193.5 </u> kg Tare Wt.: <u> 34.1 </u> kg Net Wt.: <u> 159.4 </u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	100 %

CCP Radiography Data Sheet

Waste Container ID: 68862

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM: Scrap metal	
AM:	
OM:	
OI:	
C:	
R:	
XPM: Plastic containers, plastic bag, plastic sheeting, liner lid	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):90 Mil Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	3.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	155.9
Soils (S):	
Total WMP Weight:	159.4

CCP Radiography Data Sheet

Waste Container ID: 68862

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: On the recording, operator stated liner lid was in place. After reviewing the recording the liner lid is not in place. This attachment 2 reflects the correct data for the lid.

RTR Operator:

Eddie Rios

Print Name


Signature

1/16/2014

Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5822082
- 4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT
- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
- Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is ≤ 200 FGE SAT UNSAT
- 5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) PC 183693 11/9/14
Initials/Z# Date
- 5.[7] Remediation start date: 11/9/14
- 5.[8] RCRA designation (EPA Codes): D007A, D008A, D009B, F001H
- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): SAT
- 5.[22] Rigid liner can be rigged: YES NO
- 5.[24][F] Liquid (top of drum) pH: 11
- 5.[25] Rigid liner contains an internal poly-liner: YES NO
- 5.[29] Torque wrench information:
 MT&E No: 040328
 Cal. Expiration Date: 6/21/14
 Range in ft-lb: 10-80
 Tolerance: ±3% cw, ±6% ccw
- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 5822082

5.[32] Lifting device fasteners torque value (≥ 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1 cup	2 cup		
Liquid pH	11	7		

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (≥ 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
N/A 1
Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT N/A

UET

ATTACHMENT 1
Page 3 of 3

5.[6] Parent Drum No.: 5822082

Comments: Hole drilled in Liner at bottom of drum. 4 containers
found. 2 with liquid; 1 contained 1 cup, 1 contained 2 cups.
Liquid solidified. Liner cannot retain water FC 1/9/14 Daughter Drum# LA00000068862

No further entries

9.1[1] Performed By: Philip Quintana Philip Quintana 11836951 1/9/14
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Joe Wise Joe Wise 2543701 1-9-14
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Ciocchetti Dennis Ciocchetti 186805 1/13/14 1032
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68862

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68862	55G	LA00000068862	NO WDS STATUS	NO	L.A-MIN03-NC.001	LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001 -Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1252	NDA	Complete	2014-01-17
LA-HERTR-14- 0006	RTR	Complete	2014-01-16

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68862	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>Release Code</u>	<u>Actual Condition</u>
68862	NO DATA			

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0006
Examination Date:	1/16/2014
Waste Container ID:	68863
Video/Audio Recorded Media Number:	LA-HERTR-14-0006 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	S3120
Waste Matrix Code:	LA211
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>178.5</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>144.4</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	75 %

CCP Radiography Data Sheet

CCP-TP-053 Attachment 2 (continued)

Page 2 of 3

Waste Container ID: 68863

Section 3: Container Inventory and Comments

(Detailed descriptions)

IM:

AM:

OM: Scrap lead

OI:

C:

R:

XPM: Plastic sheeting, Plastic container, liner lid

OR:

IN: Homogeneous solids

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):90 mil liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	1.0
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	2.5
Organic Matrix (OR):	
Inorganic Matrix (IN):	140.9
Soils (S):	
Total WMP Weight:	144.4

CCP Radiography Data Sheet

Waste Container ID: 68863

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: On the recording, operator stated liner lid was in place. After reviewing the recording the liner lid is not in place. This attachment 2 reflects the correct data for the lid.

RTR Operator:

Eddie Rios
Print Name


Signature

1/16/2014
Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5841594
- 4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT
- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
- Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is ≤ 200 FGE SAT UNSAT
- 5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) JS 28754 11/10/14
Initials/Z# Date
- 5.[7] Remediation start date: 11/10/2014
- 5.[8] RCRA designation (EPA Codes): D007, D008, D009, F001
- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): IN GOOD CONDITION
- 5.[22] Rigid liner can be rigged: YES NO
- 5.[24][F] Liquid (top of drum) pH: 6
- 5.[25] Rigid liner contains an internal poly-liner: YES NO
- 5.[29] Torque wrench information:
 MT&E No: 040328
 Cal. Expiration Date: 5-21-14
 Range in ft-lb: 10-80
 Tolerance: +/-3% cw +/-6% ccw
- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 5841594

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1at	1at	1at	2at
Liquid pH	9	8	7	6

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
N/A / 1 N/A
Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT N/A

UET

ATTACHMENT 1

Page 3 of 3

5.[6] Parent Drum No.: 5841594

Comments: LINER WAS DRILLED AND DRAINED. BOTTOM OF LINER HAS A HOLE
IN IT TO PREVENT LIQUID FROM BUILDING UP ON BOTTOM. TOTAL OF 7 CONTAINERS
FOUND #1) PH 9 2QT #2) PH 8 2QT #3) PH 7 2QT #4) PH 6 2QT
#5) PH 7 1/2 QT #6) PH 7 1/2 QT #7) HAD DIRT IN IT. A TOTAL OF
1 GAL WAS DRAINED FROM LINER. DAUGHTER # LA00000068863 TRIGD LINER
WAS PLACED INSIDE. SECONDARY DAUGHTER LA00000068864 WAS
USED FOR EXTRA TRU-WASTE. LIQUID ON TOP WAS A PH 6 THERE
WAS 1 GAL AND 1.5 LBS OF ABSORBENT. FIRE WATCH WAS SECURED

9.1[1] Performed By: Joshua Fox [Signature] 1287541 1/10/14
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Joe Wise [Signature] 254370 1-14-14
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Ciocchetti [Signature] 186808 1/14/14 1150
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68863

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68863	55G	LA00000068863	NO WDS STATUS	NO	L.A-MIN03-NC.001	L.A-MIN03-NC.001-Lot 86 (L.A-MIN03-NC.001 -Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1253	NDA	Complete	2014-01-21
LA-HERTR-14- RTR 0006	RTR	Complete	2014-01-16

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68863	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>Release Code</u>	<u>Actual Condition</u>
68863	NO DATA			

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0006
Examination Date:	1/16/2014
Waste Container ID:	68865
Video/Audio Recorded Media Number:	LA-HERTR-14-0006 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u> N/A </u> NCR No.: <u> N/A </u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u> 182.5 </u> kg Tare Wt.: <u> 34.1 </u> kg Net Wt.: <u> 148.4 </u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 0 layers
Volume Utilization Percentage:	80 %

CCP Radiography Data Sheet

Waste Container ID: 68865

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM: scrap metal	
AM:	
OM:	
OI:	
C:	
R:	
XPM: Plastic sheeting, liner lid	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):90 mil liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	1.0
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	3.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	144.4
Soils (S):	
Total WMP Weight:	148.4

CCP Radiography Data Sheet

Waste Container ID: 68865

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

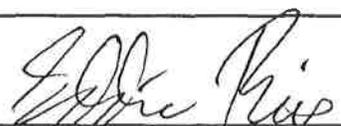
CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: On the recording, operator stated liner lid was in place. After reviewing the recording the liner lid is not in place, This attachment 2 reflects the correct data for the lid.

RTR Operator:

Eddie Rios
Print Name


Signature

1/16/2014
Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5833677

- 4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
 - Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is ≤ 200 FGE SAT UNSAT

- 5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) 25754, 1-12-14
rw 101-12-14
Initials/Z# Date

- 5.[7] Remediation start date: 01-12-14

- 5.[8] RCRA designation (EPA Codes): D007 D008 D009 P001

- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): Intact

- 5.[22] Rigid liner can be rigged: YES NO

- 5.[24[F] Liquid (top of drum) pH: N/A

- 5.[25] Rigid liner contains an internal poly-liner: YES NO

- 5.[29] Torque wrench information:
 - MT&E No: 021151
 - Cal. Expiration Date: 8-5-14
 - Range in ft-lb: 10-80
 - Tolerance: ± 3% CW ± 6% CCW

- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 5833677

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
 (SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit				
Liquid pH				

5.[61] Daughter Drum No.: NA

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): NA ft-lb

5.[68][C] Secondary daughter drum No.: NA

5.[69] Liquid pH: NA

5.[72] Total amount of liquid found: NA gal

5.[73] Amount of absorbent used: NA lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A

Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT NA

UET

ATTACHMENT 1

Page 3 of 3

NW 1-14-14

~~5833677~~ 5833677

5.[6] Parent Drum No.:

Comments: Holes Drilled in Paved Line to Keep From Re-entraining
Water. Two Containers Found Nearly cut and Empty. Rigid
liner and contents placed into LA00000068865. Rigid liner cut
Containers placed into LA00000068870. No free liquids 01-12-14

9.1[1] Performed By: Joshua Fox [Signature] 287541 1-12-14
Ryan Walk [Signature] 118700 11-12-14
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Scott R. Cannon [Signature] 234252 1-12-14
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Ciocchetti [Signature] 186608 1/14/14 1155
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68865

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68865	55G	LA00000068865	NO WDS STATUS	NO	LA-MIN03-NC.001	LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001-Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDAI253	NDA	Complete	2014-01-21
LA-HERTR-14-0006	RTR	Complete	2014-01-16

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68865	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>NCR Status</u>	<u>Release Code</u>	<u>Actual Condition</u>
68865	NO DATA				

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0007
Examination Date:	1/17/2014
Waste Container ID:	68868
Video/Audio Recorded Media Number:	LA-HERTR-14-0007 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>173.0</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>138.9</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 0 layers
Volume Utilization Percentage:	90 %

CCP Radiography Data Sheet

Waste Container ID: 68868

Section 3: Container Inventory and Comments

(Detailed descriptions)

IM:

AM:

OM:

OI:

C:

R:

XPM: Liner lid, plastic sheeting

OR:

IN: Homogeneous solids

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	3.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	135.9
Soils (S):	
Total WMP Weight:	138.9

CCP Radiography Data Sheet

Waste Container ID: 68868

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: N/A

RTR Operator:

Thad Hasselstrom

Print Name



Signature

1/17/2014

Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

5.[6] Parent Drum No.: 5803996

4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

(CS) 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
• Drums are 55 gal or larger for remediation SAT UNSAT
• Each drum is ≤ 200 FGE SAT UNSAT

5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) gc 224252 1-14-14
RW 187001 10-14-14
Initials/Z# Date

5.[7] Remediation start date: ~~11-14~~ gc 1-11-14

5.[8] RCRA designation (EPA Codes): D007 D009 D009 F001

5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): Intact

5.[22] Rigid liner can be rigged: YES NO

5.[24][F] Liquid (top of drum) pH: NA

5.[25] Rigid liner contains an internal poly-liner: YES NO

5.[29] Torque wrench information:
MT&E No: 021151
Cal. Expiration Date: 8-5-14
Range in ft-lb: 10-50
Tolerance: $\pm 3\%$ CW $\pm 6\%$ CCW

5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 5803996

5.[32] Lifting device fasteners torque value (≥ 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1/2 gal	1/2 qt	1/2 or	1/2 qt
Liquid pH	12	12	13	13

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (≥ 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A

Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and ~~NCS-CSLA-13-049~~)

~~N/A~~ SAT UNSAT N/A

UET

ATTACHMENT 1

Page 2 of 3

12/11/14
5803996

5.[6] Parent Drum No.: _____

5.[32] Lifting device fasteners torque value (≥ 12-ft-lb): NA ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	10T	1/4 OT	1/2 OT	1/2 OT
Liquid pH	12	13	13	12

5.[61] Daughter Drum No.: NA

5.[62] Lifting device fasteners torque value (≥ 12-ft-lb): NA ft-lb

5.[68][C] Secondary daughter drum No.: NA

5.[69] Liquid pH: NA

5.[72] Total amount of liquid found: NA gal

5.[73] Amount of absorbent used: NA lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A

NA / 1/11/14
Initials/Z# Date

CS 5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT NA

ATTACHMENT 1
Page 2 of 3

NW 1-14-14

5.[6] Parent Drum No.: ATI S803996

5.[32] Lifting device fasteners torque value (≥ 12-ft-lb): NR ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1/2 QT	1/2 QT		
Liquid pH	13	13	12 (1-11-14)	12 (1-11-14)

5.[61] Daughter Drum No.: NR

5.[62] Lifting device fasteners torque value (≥ 12-ft-lb): NR ft-lb

5.[68][C] Secondary daughter drum No.: NR

5.[69] Liquid pH: NR

5.[72] Total amount of liquid found: NR gal

5.[73] Amount of absorbent used: NR lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
NR 1 NR
Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

~~NA~~ SAT UNSAT NA
gc 1-11-14

UET

ATTACHMENT 1

Page 3 of 3

5.[6] Parent Drum No.:

5803996

Comments:

15 Containers Found 10 contain liquid 5 contain soil
All liquid neutralized and absorbed liquid was later drilled as sludge
liquid residue was placed into ^{L200000068868} 2000 68868 ¹⁻¹¹⁻¹⁴ Rad Treated Empty Plastic
Containers absorbed liquids placed into Drum # 24000 000 68867 01-11-14
AW

9.1[1]	Performed By:	Philip Quintana	<i>Philip Quintana</i>	183693	1/14/14
		<i>Bryan Wills</i>	<i>Bryan Wills</i>	118700	1-11-14
		Operator (Print)	Signature	Z#	Date
		<i>JAN R. CASSELL</i>	<i>JAN R. CASSELL</i>	234252	1-11-14
9.1[2]	Reviewed By:	<i>JAN R. CASSELL</i>	<i>JAN R. CASSELL</i>	234252	1-11-14
		Supervision (Print)	Signature	Z#	Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E]	Approved By:	<i>Kathryn Sandwell</i>	<i>Kathryn Sandwell</i>	171529	1-17-14
		SDM or designee (print)	Signature	Z#	Date/Time

0856



CONTAINERID: 68868

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68868	55G	LA00000068868	NO WDS STATUS	NO		LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001 -Lot 86)	

L/A-MIN03-NC.001

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1253	NDA	Complete	2014-01-21
LA-HERTR-14-0007	RTR	Complete	2014-01-17

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68868	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>Release Code</u>	<u>Actual Condition</u>
68868	NO DATA			

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-HERTR-14-0006
Examination Date:	1/16/2014
Waste Container ID:	68869
Video/Audio Recorded Media Number:	LA-HERTR-14-0006 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>167.0</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>132.9</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	75 %

CCP Radiography Data Sheet

CCP-TP-053 Attachment 2 (continued)

Page 2 of 3

Waste Container ID: 68869

Section 3: Container Inventory and Comments

(Detailed descriptions)

IM: Hand tool

AM:

OM:

OI:

C:

R:

XPM: Plastic sheeting, plastic bag, liner lid

OR:

IN: Homogeneous solids

S:

Section 4: Packaging Material and Waste Material Parameters

Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP):90 Mil Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.5
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	4.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	128.4
Soils (S):	
Total WMP Weight:	132.9

CCP Radiography Data Sheet

CCP-TP-053 Attachment 2 (continued)

Page 3 of 3

Waste Container ID: 68869

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: On the recording, Operator stated 95% VUP and stated liner lid was in place which is incorrect. This attachment 2 reflects the correct data for the VUP and the liner lid.

RTR Operator:

Eddie Rios
Print Name


Signature

1/16/2014
Date

ATTACHMENT 1

Page 1 of 3

TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

- 5.[6] Parent Drum No.: 5834939
- 4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is \leq 7 gal: [LCO 3.3.1(1a)] SAT UNSAT
- CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)
- Drums are 55 gal or larger for remediation SAT UNSAT
 - Each drum is \leq 200 FGE SAT UNSAT
- 5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) RW 187001 1-12-14
Initials/Z# Date
- 5.[7] Remediation start date: 01-12-14
- 5.[8] RCRA designation (EPA Codes): D007 D008 D009 F001
- 5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): Intact
- 5.[22] Rigid liner can be rigged: YES NO
- 5.[24[F] Liquid (top of drum) pH: NA
- 5.[25] Rigid liner contains an internal poly-liner: YES NO
- 5.[29] Torque wrench information:
 MT&E No: 02151
 Cal. Expiration Date: 8-5-14
 Range in ft-lb: 10-80
 Tolerance: $\pm 3\%$ CW $\pm 6\%$ CCW
- 5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

UET

ATTACHMENT 1

Page 2 of 3

5.[6] Parent Drum No.: 5834939

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	<u>10n /</u>	<u>30n /</u>		
Liquid pH	<u>11</u>	<u>11</u>		

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): N/A ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: N/A

5.[72] Total amount of liquid found: N/A gal

5.[73] Amount of absorbent used: N/A lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
Initials/Z# 1 Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

N/A SAT UNSAT N/A

UET

ATTACHMENT 1

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WT-2014
584939 5834939

5.[6] Parent Drum No.:

Comments: Req'd when drilled so no liquid may be returned. Liner placed in LA00000068809. 3 Empty containers and absorbed neutralized liquid placed in LA00000068871 along with ^{associated} ~~absorbed~~ ¹²⁻¹²⁻¹⁴ spill liquids and boom trash associated with process 11-12-14 RU

9.1[1] Performed By: Justina Fox [Signature] 28754 1-12-14
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Jon R. Casser [Signature] 284257 1-12-14
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Dennis Cocchetti [Signature] 286508 11/14/14 1355
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: 68869

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
68869	55G	LA00000068869	NO WDS STATUS	NO		L A-MIN03-NC.001-Lot 86 (L A-MIN03-NC.001 -Lot 86)	

L A-MIN03-NC.001

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1252	NDA	Complete	2014-01-17
LA-HERTR-14- 0006	RTR	Complete	2014-01-16

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
68869	NO DATA		

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>Release Code</u>	<u>Actual Condition</u>
68869	NO DATA			

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-RTR2-14-0008
Examination Date:	1/21/2014
Waste Container ID:	S803796
Video/Audio Recorded Media Number:	LA-RTR2-14-0008 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>205.5</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>171.4</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	100 %

CCP Radiography Data Sheet

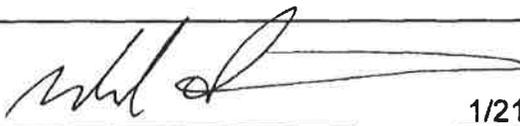
Waste Container ID: S803796

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM: Hand tool	
AM:	
OM:	
OI:	
C:	
R:	
XPM: Plastic bag	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	0.1
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	4.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	167.3
Soils (S):	
Total WMP Weight:	171.4

CCP Radiography Data Sheet

Waste Container ID: S803796

Section 5: RTR Summary		
(Questions answered "Yes" will be explained in the Comment block, except for Question 1)		
Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code(s))?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
CH or RH TRAMPAC		
Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Comments: N/A		
RTR Operator:		
<u>Michael Simmons</u> Print Name	 Signature	<u>1/21/2014</u> Date

ATTACHMENT 1

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TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

5.[6] Parent Drum No.: 5803796

4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is ≤ 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

• Drums are 55 gal or larger for remediation SAT UNSAT

• Each drum is ≤ 200 FGE SAT UNSAT

5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) HW/247220/12-21-13
Initials/Z# Date

5.[7] Remediation start date: 12-21-13

5.[8] RCRA designation (EPA Codes): D007, D008, D009, F001

5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): SAT

5.[22] Rigid liner can be rigged: YES NO

5.[24[F] Liquid (top of drum) pH: N/A

5.[25] Rigid liner contains an internal poly-liner: YES NO

5.[29] Torque wrench information:
MT&E No: 040328
Cal. Expiration Date: 6-21-14
Range in ft-lb: 10-80
Tolerance: ±3% ccw / ±6% ccw

5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

ATTACHMENT 1

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5.[6] Parent Drum No.: 5803796

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
(SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit	1 gallon			
Liquid pH	11			

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): ^{12-21-13 m}
N/A 12 ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: 11

5.[72] Total amount of liquid found: 2 gal

5.[73] Amount of absorbent used: 1 1/2 lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A
HW/2872201 12-21-13
Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

SAT UNSAT

ATTACHMENT 1

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5.[6]

Parent Drum No.:

5803796

Comments:

Liner pulled from drum. Drilled through previously made hole to hit container inside bottom of sludge. Sucked all liquid inside liner. Liner placed back into 5803796. Container drilled and drained.

9.1[1]

Performed By:

Heath Wade
Operator (Print)

Heath Wade
Signature

12872201 12-21-13
Z# Date

9.1[2]

Reviewed By:

Jon R. Cassel
Supervision (Print)

Jon R. Cassel
Signature

234252 12-21-13
Z# Date

9.1[3][B]

Acceptance criteria satisfied:

YES

NO

9.1[3][E]

Approved By:

Pat O'Grady
SOM or designee (print)

Pat O'Grady
Signature

11513581 1-24-14/1338
Z# Date/Time



CONTAINERID: S803796
LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
S803796	55G	LA S803796	NO WDS STATUS	NO	L A-MIN03-NC.001	LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001 -Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1256	NDA	Complete	2014-01-24
LA-RTR2-06-0389	RTR	Complete	2006-12-13
LA-RTR2-09-0006	RTR	Complete	2009-02-12
LA-RTR2-12-0024	RTR	Complete	2012-02-13
LA-RTR2-14-0008	RTR	Complete	2014-01-21

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
S803796	NCR-LANL0319120	Closed	Resolved
S803796	NCR-LANL0608090	Closed	Resolved
S803796	NCR-LANL0976060	Superseded	None
S803796	NCR-LANL2027080	Closed	Resolved

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>Release Code</u>	<u>Actual Condition</u>
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S803796	LA-RTR2-06-0389	NCR-LANL2027080	Closed	Resolved	S803796: ~3Liters liquid (non-residual) in container @ 24", greater than 1", greater than 1% container volume.
S803796	LA-RTR2-09-0006	NCR-LANL0608090	Closed	Resolved	~2.5L non-residual liquid (greater than 1") in container @ 24", greater than 1% container volume
S803796	LA-RTR2-12-0024	NCR-LANL0319120	Closed	Resolved	About 3L of prohibited liquid in a metal can from 24 inches to 32 inches

CCP Radiography Data Sheet

Section 1: General Information	
<input checked="" type="checkbox"/> RTR Examination <input type="checkbox"/> RTR Replicate Scan <input type="checkbox"/> RTR Independent Observation	
Site ID:	LANL
Batch Number:	LA-RTR2-14-0008
Examination Date:	1/21/2014
Waste Container ID:	S816101
Video/Audio Recorded Media Number:	LA-RTR2-14-0008 A&B
Procedure and Revision No.:	CCP-TP-053 Rev. 14
NCR(s) associated with the container? (e.g., Prohibited Items)	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes NCR No.: <u>N/A</u> NCR No.: <u>N/A</u>

Section 2: Waste Container Data	
Container Type:	55 Gallon Drum
TRUCON Code:	LA211
Waste Matrix Code:	S3120
Waste Stream I.D.:	LA-MIN03-NC.001
Waste Container Weights:	Gross Wt.: <u>200.0</u> kg Tare Wt.: <u>34.1</u> kg Net Wt.: <u>165.9</u> kg
Rigid Liner and Liner Vent Description:	Liner: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Lid: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Type: <input type="checkbox"/> 30-mil <input checked="" type="checkbox"/> 90-mil <input type="checkbox"/> 110-mil <input type="checkbox"/> 125-mil Vented: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A Punctured: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Mechanical Vent: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Fiberboard Liner: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Lead Lined: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Number of Layers of Confinement:	Appears to be 1 layer
Volume Utilization Percentage:	100 %

CCP Radiography Data Sheet

Waste Container ID: S816101

Section 3: Container Inventory and Comments	(Detailed descriptions)
IM:	
AM:	
OM:	
OI:	
C:	
R:	
XPM: Plastic bag	
OR:	
IN: Homogeneous solids	
S:	

Section 4: Packaging Material and Waste Material Parameters	
Packaging Material:	Estimated Weight (kg)
Steel (ST):	27.7
Plastics (PP): Rigid Liner	6.4
Other:	0.0
Total Packaging Weight	34.1
Waste Material Parameter:	Estimated Weight (kg)
Iron-based Metal / Alloys (IM):	
Aluminum-based Metals / Alloys (AM):	
Other Metals (OM):	
Other Inorganic Materials (OI)	
Cellulosics (C):	
Rubber (R):	
Plastics (waste materials) (XPM):	1.0
Organic Matrix (OR):	
Inorganic Matrix (IN):	164.9
Soils (S):	
Total WMP Weight:	165.9

CCP Radiography Data Sheet

Waste Container ID: S816101

Section 5: RTR Summary

(Questions answered "Yes" will be explained in the Comment block, except for Question 1)

Is there observable liquid?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there any observable liquid in internal containers, more than 60 milliliters or 3 percent by volume, whichever is greater?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the total volume of observable liquid in the outermost container GREATER than 1% of the container?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there observable liquid in payload containers with an EPA Hazardous Waste Number of U134?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of non-radionuclide pyrophoric materials, such as elemental potassium?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes (i.e., waste does NOT match TRUCON Code[s])?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of wastes containing explosives or compressed gases?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of PCBs liquids?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there an indication of the waste exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is the physical form of the waste inconsistent with the Waste Stream Description or the Waste Matrix Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

CH or RH TRAMPAC

Are there heat-sealed bags (unvented) GREATER than 4 liters and LESS than 390 square inches in the waste, or heat sealed bags not authorized in the RH TRUCON Code?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Were there Non-approved Closure Methods used on liner bags or inner bags greater than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there sealed containers GREATER than 4 liters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are there indications of inadequate protection for heavy and/or sharp objects?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Comments: N/A

RTR Operator:

Michael Simmons

Print Name



Signature

1/21/2014

Date

ATTACHMENT 1

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TA-54 AREA G LINED SLUDGE DRUM REMEDIATION CHECKLIST

5.[6] Parent Drum No.: 5816101

4.3[8][A] (\$) Total volume of flammable liquids within the SSSR AREA boundaries for operation and maintenance activities is \leq 7 gal: [LCO 3.3.1(1a)] SAT UNSAT

CS 4.3[8][B] (*) Following requirements are satisfied: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

- Drums are 55 gal or larger for remediation SAT UNSAT
- Each drum is \leq 200 FGE SAT UNSAT

5.[3] (\$) STATIONARY FIRE WATCH established. (SAC 5.7.17) PQ 183693 112/21/13
Initials/Z# Date

5.[7] Remediation start date: 12/21/13

5.[8] RCRA designation (EPA Codes): D007A, D008A, D009B, F001H

5.[21] Rigid liner condition (e.g., warped, cracked, or breaks): SAT

5.[22] Rigid liner can be rigged: YES NO

5.[24[F] Liquid (top of drum) pH: N/A

5.[25] Rigid liner contains an internal poly-liner: YES NO

5.[29] Torque wrench information:
MT&E No: 040328
Cal. Expiration Date: 06/21/14
Range in ft-lb: 10-80
Tolerance: $\pm 3\%$ ccw, $\pm 6\%$ ccw

5.[30] Torque value for the torque wrench is within the calibrated range: YES NO

ATTACHMENT 1

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5.[6] Parent Drum No.: 5816101

5.[32] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

7.[7] (\$) SAC 5.7.12 non-compliant containers are present:
 (SAC 5.7.12) YES NO N/A

7.[10] Containerized liquids present: YES NO N/A

7.[12][D]/[E] Containerized liquid: N/A

Liquid Volume/Unit				
Liquid pH				

5.[61] Daughter Drum No.: N/A

5.[62] Lifting device fasteners torque value (\geq 12-ft-lb): 12 ft-lb

5.[68][C] Secondary daughter drum No.: N/A

5.[69] Liquid pH: PG 12/21/13 N/A 9

5.[72] Total amount of liquid found: 1 cup gal

5.[73] Amount of absorbent used: 5 cups lb

5.[79] (\$) STATIONARY FIRE WATCH secured. (SAC 5.7.17) N/A

PG 183693 11/21/13
 Initials/Z# Date

CS

5.[81] (*) TRU WASTE CONTAINER batch and associated absorbed liquid removed from the SSSR process area: (NCS-CSLA-11-043 and NCS-CSLA-13-049)

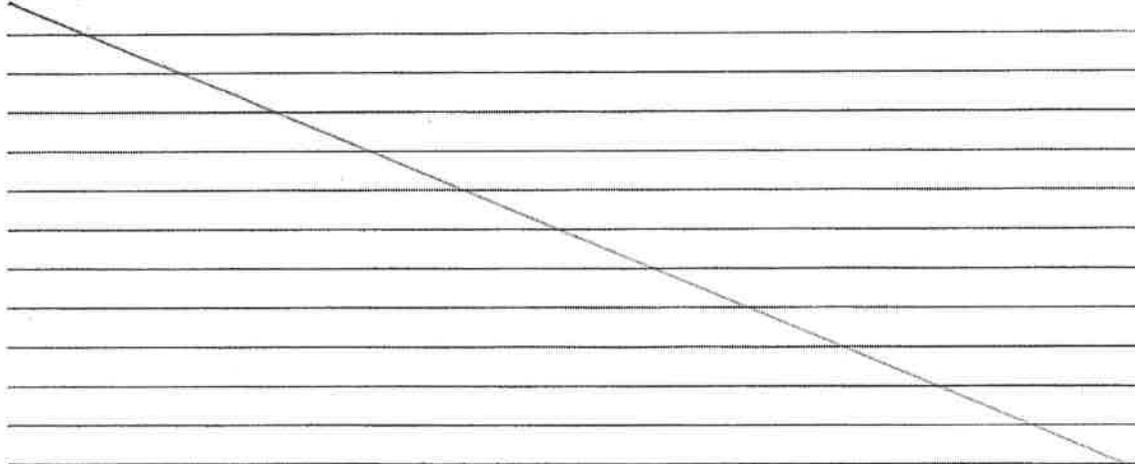
SAT UNSAT

ATTACHMENT 1

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5.[6] Parent Drum No.: 5816101

Comments: Liner pulled from bag and drum. Liquid found between bag and drum. Liquid solidified. 5 cups absorbant added - Dilled & Drained - Placed Back into #816101 9/12/13



9.1[1] Performed By: Philip Quintana Philip Quintana 1183693 112/21/13
Operator (Print) Signature Z# Date

9.1[2] Reviewed By: Jon R. Casarez Jon R. Casarez 234252 112-21-13
Supervision (Print) Signature Z# Date

9.1[3][B] Acceptance criteria satisfied: YES NO

9.1[3][E] Approved By: Pat O'Grady Pat O'Grady 11613581 1-24-14/1336
SOM or designee (print) Signature Z# Date/Time



CONTAINERID: S816101

LANL

AK DATA

<u>Container ID</u>	<u>Container Type</u>	<u>AKA Matrix</u>	<u>WDS Status</u>	<u>AK Excluded</u>	<u>WSID</u>	<u>LOTID</u>	<u>LOT Excluded</u>
S816101	55G	LA5816101	NO WDS STATUS	NO		LA-MIN03-NC.001-Lot 86 (LA-MIN03-NC.001 -Lot 86)	

BDR DATA

<u>BDRID</u>	<u>Type</u>	<u>Status</u>	<u>Generation Date</u>
2LANDA1256	NDA	Complete	2014-01-24
LA+HERTR-13-0076	RTR	Complete	2013-06-25
LA+RTR2-05-0200	RTR	Complete	2005-11-23
LA+RTR2-06-0332	RTR	Complete	2006-10-28
LA+RTR2-09-0039	RTR	Complete	2009-05-21
LA+RTR2-14-0008	RTR	Complete	2014-01-21

NCR DATA

<u>Container ID</u>	<u>NCRID</u>	<u>Status</u>	<u>Release Code</u>
S816101	NCR-LANL0550130	Closed	Resolved
S816101	NCR-LANL0646090	Closed	Resolved
S816101	NCR-LANL0819050	Superseded	None
S816101	NCR-LANL0819051	Closed	Resolved



S816101 NCR-LANL0920060 Superseded None

S816101 NCR-LANL2024080 Closed Resolved

REJECT DATA

<u>Container ID</u>	<u>BDRID</u>	<u>NCRID</u>	<u>NCR Status</u>	<u>Release Code</u>	<u>Actual Condition</u>
S816101	LA-HERTR-13-0076	NCR-LANL0550130	Closed	Resolved	125 mL of prohibited liquid in a 250 mL plastic container at 32"
S816101	LA-RTR2-05-0200	NCR-LANL0819051	Closed	Resolved	S816101 Greater than 1" liquid, greater than 1% container volume.S817022 Greater than 1" liquid.S816116 Greater than 1" liquid.S810461 Greater than 1" liquid, greater than 1% container volume.S817030 Greater than 1" liquid.S814136 Greater than 1" liquid, greater than 1% container volume.Reason for Revision 1: To remove container S817030 not completed and add that container to NCR-LANL-2020-08 and allow for closure of this NCR.
S816101	LA-RTR2-06-0332	NCR-LANL2024080	Closed	Resolved	S816101: greater than 1" LIQUID
S816101	LA-RTR2-09-0039	NCR-LANL0646090	Closed	Resolved	-2 Liters non residual liquid between liner and drum @ 24" to 32", greater than 1% payload container volume