

**From:** Haagenstad, Mark P

**Sent:** Monday, September 22, 2014 4:46 PM

**To:** [Ryan.Flynn@state.nm.us](mailto:Ryan.Flynn@state.nm.us); [Jeff.Kendall@state.nm.us](mailto:Jeff.Kendall@state.nm.us); [tom.blaine@state.nm.us](mailto:tom.blaine@state.nm.us); John Kieling; [steve.pullen@state.nm.us](mailto:steve.pullen@state.nm.us); Kliphuis, Trais, NMENV; [Timothy.Hall@state.nm.us](mailto:Timothy.Hall@state.nm.us); [siona.briley@state.nm.us](mailto:siona.briley@state.nm.us); [ricardo.maestas@state.nm.us](mailto:ricardo.maestas@state.nm.us); [Gregory.Lauer@state.nm.us](mailto:Gregory.Lauer@state.nm.us); [steve.holmes@state.nm.us](mailto:steve.holmes@state.nm.us)

**Cc:** Pete Maggiore; Silas DeRoma; Cummings, Lisa K; Nickless, David J; Bishop, M. Lee; Turner, Gene E; Armijo, Karen (CONTR); Wallace, Terry C; Mousseau, Jeffrey David; Cox, Daniel Ray; Torres, Enrique; Woitte, Deborah Kay; Johns-Hughes, Kathryn W; Clemmons, Steve; Allen, Don; George, Victoria A; Roberts, Kathryn Margaret; Brandt, Michael Thomas; Sharp-Geiger, Raeanna Racine; Dorries, Alison Marie; Grieggs, Tony; Bacigalupa, Gian A; Vigil-Holterman, Luciana R; Alexander, Rick A; Baumer, Andy; Martinez, Sandra; Sauer, Selena Z; Wood, Yvonne Barbara; Schreiber, Arleen Thorn; Maestas, Pamela Therese; Hargis, Kenneth Marshall; Diaz, Tammy; Juarez, Catherine L

**Subject:** Daily Technical Submission - September 22, 2014

Attached is the written daily technical submission for today. The Permittees are submitting this pursuant to: Section 19 of the May 19, 2014, *Administrative Order*; the July 10, 2014 letter from NMED regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the September 19, 2014, *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 2*.

Please contact me if additional information would be helpful. Thank you.

Mark Haagenstad  
Environmental Protection Division  
Compliance and Permitting Group  
Los Alamos National Laboratory  
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# NMED / LANL Technical Summary

September 22, 2014

## LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers.
    - All containers remain in the 375 Permacon.
  - Unremediated nitrate salt-bearing waste containers.
    - All containers remain in the 231 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures remain below 90°F.
    - Previous day's daily temperature data attached.
- **Monitoring – Visual Inspections**
  - No abnormal conditions.
- **Additional measures currently underway**
  - As a conservative measure, LANL is currently conducting additional monitoring. This additional monitoring includes:
    - Container (SWB) 68685.
      - Continue daily head space gas (HSG) sample collection.
        - September 22, 2014 HSG data attached
          - H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
        - LANL also continuing *solid phase micro-extraction*.
      - Hourly temperature measurements.
        - Previous day's hourly temperature data attached.
        - Temperatures remain below 90°F.
    - Container (SWB) SB50522.
      - Continue daily HSG sample collection.
        - September 22, 2014 HSG data attached
          - H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O
        - LANL also continuing *solid phase micro-extraction*.
      - Hourly temperature measurements.
        - Previous day's hourly temperature data attached.
        - Temperatures remain below 90°F.
    - Five (5) other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
      - Continue bi-weekly HSG sample collection.

- LANL has conducted HSG sampling on each of the 55 SWBs that contain 55-gallon drums of remediated nitrate salt-bearing waste.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging).**
  - Currently, no further movements or re-packaging are planned.

**Summary Chart - Requested Information / Pending Issues:**

	<b>Requested Information</b>	<b>Actionee</b>	<b>Status</b>	<b>Completion Date</b>
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED	---	Complete June 5, 2014
2.	Keep NMED informed on the status of on-going chemistry / analytical work.	LANL	---	Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	---	Complete July 6, 2014 (Discussion on call)  July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL	---	Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	---	Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	---	Complete June 17, 2014  (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	---	Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	---	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO <sub>2</sub> and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO <sub>x</sub> .	LANL	---	Complete June 16, 2014



12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt-bearing containers at LANL.	LANL	---	<p>Complete</p> <p>Empty Parent June 16, 2014</p> <p>Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers)</p> <p>August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)</p>
13.	<p>Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers.</p> <p>WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.</p>	LANL	In progress – remaining are portions of item 5	<p>Partially Complete</p> <p>July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request)</p> <p>July 17, 2014 (Letter sent with updated spreadsheet)</p> <p>August 7, 2014 (First submittal in response to item 5)</p> <p>August 14, 2014 (- Letter sent addressing items 2 &amp; 8 - Second submittal in response to item 5)</p> <p>August 18, 2014 (Third submittal in response to item 5)</p> <p>August 21, 2014 (Fourth submittal in response to item 5)</p> <p>August 27, 2014 (Fifth submittal in response to item 5)</p> <p>September 4, 2014 (Sixth submittal in response to item 5)</p> <p>September 9, 2014 (Seventh submittal in response to item 5)</p> <p>September 11, 2014 (Eighth submittal in response to item 5)</p>



14.	NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient.	NMED	NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan.	Complete June 23, 2014
15.	NMED has requested ‘copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.’	LANL	---	Complete June 13, 2014 (Included w/ daily summary) June 16, 2014 (Discussed current TA-54 & WCRRF operations)
16.	NMED requested information on the location of drums 68327 and 68328. Request made June 14.	LANL	---	Complete June 14, 2014
17.	Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to schedule an update meeting).	LANL / NMED	---	Complete July 2, 2014
18.	Neutralizer use in association with container S855793 (parent of 68660 and 68685).	LANL	---	Complete June 25, 2014
19.	List of nitrate salt-bearing waste containers that LANL records indicate contain absorbed liquids with the same neutralizer, as discussed during June 25 technical call.	LANL	---	Information will be included in LANL response to NMED’s August 26, 2014 letter.
20.	Schedule follow-on update on LANL efforts – including teams.	LANL / NMED	---	Complete August 14, 2014 (Meeting held)
21.	NMED requested information on document approval / review (as discussed on July 3 call).	LANL	---	Complete July 29, 2014
22.	What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste.	LANL	---	Complete July 7, 2014
23.	NMED requested the following information on cemented waste containers generated from TA-55, that are currently stored above-ground at Area G: container id number; location; form (cans or monoliths); and type of concrete. Additionally, NMED requested information on pH adjustment during waste generation process, and information on anticipated pH of free liquids (and rationale).	LANL	---	Complete July 17, 2014 (Letter sent w/ information) July 18, 2014 (Meeting held)
24.	NMED requested the procedure for sampling empty parent drums that previously contained nitrate salt-bearing waste.	LANL	EP-AREAG-WO-DOP-1245 is included in Enclosure	Complete July 8, 2014



			1 to LANL's July 3, 2014 <i>Response to Request for Information on Management of Waste at LANL.</i>	
25.	NMED requested an additional discussion on a future technical call regarding CO <sub>2</sub> , including data.	LANL	---	Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL	---	Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL	---	Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3 <sup>rd</sup> Q 2008).	LANL	---	Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	---	Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL	---	Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	In progress	
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	In progress	
36.	NMED request regarding LANL Causal Analysis associated with processing of nitrate salt-bearing waste at WCRRF – when document is Final.	LANL	Document is currently Draft.	
37.	NMED requested a diagram illustrating the current locations within the 375 Permacon of	LANL	In progress	

the 55 SWBs that contain the 57 remediated nitrate salt-bearing waste containers. NMED also requested a list of these 55 SWBs and the waste drums within each SWB (including the container numbers and waste stream type).			
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**Next Call:** Tuesday, September 23, 2014



Remediated Nitrate Salt Container Headspace Gas Analysis Results

Date	68885				69553				69615				69616				5850069				5850452				5850522				
	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	H <sub>2</sub> ppm	CO ppm	CO <sub>2</sub> ppm	N <sub>2</sub> O ppm	
09/20/14	127	1089	23460	7439																									
09/21/14	123	1102	22997	7087																									
09/22/14	71	627	15735	4880	138	590	25617	3347	55	214	5390	246	249	1162	31952	7150	348	1005	23096	3775	492	905	22883	4514	5902	443	52639	880	

Nitrate Salt-Bearing TRU Waste Container Monitoring

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TA-54 AREA G TA-54-231 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 9-15-14 to 9-21-14

Calibrated Infrared Thermometer (6.[7])	Monday 6.[6] Start Time: <u>0853</u>	Tuesday 6.[6] Start Time: <u>0945</u>	Wednesday 6.[6] Start Time: <u>1010</u>	Thursday 6.[6] Start Time: <u>0855</u>	Friday 6.[6] Start Time: <u>0938</u>	Saturday 6.[6] Start Time: <u>0902</u>	Sunday 6.[6] Start Time: <u>0843</u>	Brand: <u>Fluke</u>	
								Model: <u>561</u>	Model: <u>561</u>
Ambient Temperature (6.[9])	<u>63.5</u> °F	<u>66.5</u> °F	<u>65.8</u> °F	<u>63.8</u> °F	<u>64.8</u> °F	<u>65.3</u> °F	<u>65.0</u> °F	Cal. Due Date: <u>7-29-15</u>	Cal. Due Date: <u>7-29-15</u>
Container ID #								File Number: <u>101974</u>	File Number: <u>101974</u>
S818435	Temp (°F) (6.[10]/6.[11]) <u>63.1</u>	Temp (°F) (6.[10]/6.[11]) <u>66.0</u>	Temp (°F) (6.[10]/6.[11]) <u>65.4</u>	Temp (°F) (6.[10]/6.[11]) <u>66.1</u>	Temp (°F) (6.[10]/6.[11]) <u>65.0</u>	Temp (°F) (6.[10]/6.[11]) <u>64.6</u>	Temp (°F) (6.[10]/6.[11]) <u>64.8</u>	Temp (°F) (6.[10]/6.[11]) <u>64.9</u>	Temp (°F) (6.[10]/6.[11]) <u>65.1</u>
S802833	<u>63.1</u>	<u>65.7</u>	<u>65.2</u>	<u>61.9</u>	<u>64.4</u>	<u>64.3</u>	<u>64.7</u>	<u>64.3</u>	<u>64.7</u>
S801676	<u>62.6</u>	<u>65.5</u>	<u>64.7</u>	<u>61.6</u>	<u>64.7</u>	<u>63.8</u>	<u>64.1</u>	<u>63.8</u>	<u>64.1</u>
S816810	<u>62.3</u>	<u>65.3</u>	<u>64.5</u>	<u>61.5</u>	<u>64.1</u>	<u>63.5</u>	<u>64.0</u>	<u>63.5</u>	<u>64.0</u>
70069	<u>62.5</u>	<u>65.6</u>	<u>65.0</u>	<u>62.1</u>	<u>64.6</u>	<u>63.7</u>	<u>64.1</u>	<u>63.7</u>	<u>64.1</u>
S822844	<u>62.8</u>	<u>65.5</u>	<u>65.1</u>	<u>62.1</u>	<u>65.0</u>	<u>64.0</u>	<u>64.4</u>	<u>64.0</u>	<u>64.4</u>
S825879	<u>62.7</u>	<u>65.4</u>	<u>64.9</u>	<u>62.0</u>	<u>64.9</u>	<u>63.7</u>	<u>64.4</u>	<u>63.7</u>	<u>64.4</u>
S793724	<u>62.6</u>	<u>65.1</u>	<u>64.4</u>	<u>61.5</u>	<u>64.4</u>	<u>64.5</u>	<u>64.5</u>	<u>64.5</u>	<u>64.9</u>
S813545	<u>63.3</u>	<u>65.4</u>	<u>65.3</u>	<u>62.6</u>	<u>65.5</u>	<u>64.5</u>	<u>64.9</u>	<u>64.5</u>	<u>64.9</u>
S822713	<u>63.5</u>	<u>65.9</u>	<u>65.2</u>	<u>62.4</u>	<u>65.2</u>	<u>64.3</u>	<u>64.9</u>	<u>64.3</u>	<u>64.9</u>
S802739	<u>63.3</u>	<u>65.7</u>	<u>65.1</u>	<u>62.2</u>	<u>65.1</u>	<u>64.2</u>	<u>64.9</u>	<u>64.2</u>	<u>64.9</u>
69907	<u>63.5</u>	<u>65.8</u>	<u>65.2</u>	<u>62.6</u>	<u>65.4</u>	<u>64.4</u>	<u>65.0</u>	<u>64.4</u>	<u>65.0</u>
S804995	<u>63.6</u>	<u>65.9</u>	<u>65.4</u>	<u>62.4</u>	<u>65.1</u>	<u>64.7</u>	<u>65.0</u>	<u>64.7</u>	<u>65.0</u>
S816434									

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Nitrate Salt-Bearing TRU Waste Container Monitoring

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6.[6] Date: From 9-15-14 to 9-21-14

6.[2] Comments: \_\_\_\_\_  
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 \_\_\_\_\_  
 \_\_\_\_\_

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		1187066	JR	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Elo D. Cidra		114188	EC	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran		115971	JD	9/16/14
Operator (print)	Signature	Z#	Initials	Date
Thomas P. L...		123688	TL	9/16/14
Operator (print)	Signature	Z#	Initials	Date
Josephine Duran		115971	JD	9/17/14
Operator (print)	Signature	Z#	Initials	Date
HANES S...		123688	TL	9/17/14
Operator (print)	Signature	Z#	Initials	Date
Alfredo Aguilar		123688	TL	9/18/14

Operator (print)	Signature	Z#	Initials	Date
Josephine Duran		115971	JD	9/18/14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		1187066	JR	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Elo D. Cidra		114188	EC	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		1187066	JR	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Elo D. Cidra		114188	EC	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		1187066	JR	9-21-14
Operator (print)	Signature	Z#	Initials	Date
Elo D. Cidra		114188	EC	9-21-14

8.[12] Reviewed by:

John M. Lindstedt  
 Signature  
 Z# 17997 Initials JL Date 9-22-14



Nitrate Salt-Bearing TRU Waste Container Monitoring

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ATTACHMENT 3  
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TA-54 AREA G TA-54-375 CELL 1 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 9.15.14 to 9.21.14

	Monday 6.[6] Start Time: 0655	Tuesday 6.[6] Start Time: 1235	Wednesday 6.[6] Start Time: 1131	Thursday 6.[6] Start Time: 1332	Friday 6.[6] Start Time: 0731	Saturday 6.[6] Start Time: 0702	Sunday 6.[6] Start Time: 0703
TA-54-375 Cell 1	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>	Brand: <u>Fiske</u> Model: <u>561</u> Cal. Due Date: <u>6/12/15</u> File Number: <u>101915</u>
Ambient Temperature (6.[9])	59.6 °F	68.4 °F	64.9 °F	72.2 °F	59.9 °F	60.4 °F	62.1 °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
68685	59.0	63.7	63.7	72.9	59.7	60.2	61.5
68540	59.2	64.0	64.0	72.2	59.5	60.3	61.5
68553	59.5	69.0	62.1	72.3	59.5	60.6	61.8
69445	59.0	69.4	64.2	73.0	59.6	60.2	61.8
69618	59.3	68.3	63.8	71.8	59.7	60.4	61.4
69013	59.6	68.3	63.9	71.2	60.2	60.6	61.5
LASB50522	60.0	68.1	63.9	71.6	60.5	61.0	61.7
LASB50452	59.8	68.1	63.8	70.7	60.0	60.5	61.3
LASB50431	59.6	67.1	63.1	69.7	60.8	60.5	61.1
LASB50069	59.9	68.2	63.8	71.3	60.2	60.8	61.9
LASB50073	60.3	68.2	63.7	71.9	60.5	61.1	62.3
69636	59.8	68.2	63.7	72.1	60.1	60.3	61.0
69616	59.7	62.3	64.0	70.6	60.2	60.3	61.1
69417	59.6	68.7	64.1	72.3	60.1	60.2	61.1

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6.[6] Date: From 9.15.14 to 9.2.14

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
<b>TA-54-375 Cell 1 (continued)</b>							
69620	59.9	68.5	63.8	71.5	60.3	60.4	61.4
69520	59.9	67.8	63.9	70.8	60.4	60.3	61.7
69641	60.1	68.2	63.6	71.5	60.5	60.7	61.6
69298	60.3	67.7	63.4	70.6	60.8	60.8	61.8
LASB02203	60.0	67.4	63.4	70.5	60.0	60.4	61.6
Ambient Temperature (6.[14])	59.8 °F	68.8 °F	64.9 °F	72.5 °F	60.1 °F	60.6 °F	62.4 °F
End Time (6.[15])	0700	1240	1135	1337	0737	0706	0707
6.[15]	Operator: EC Operator: JR	Operator: DA Operator: SC	Operator: DA Operator: WS	Operator: GA Operator: SC	Operator: EC Operator: JR	Operator: EC Operator: JR	Operator: EC Operator: JR

6.[2] Comments:

N/A



Nitrate Salt-Bearing TRU Waste Container Monitoring

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6.[6] Date: From 9.15.14 to 9.21.14

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Eloy D. Córdova	[Signature]	114188	EC	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	[Signature]	187066	JR	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	[Signature]	114188	TA	9-16-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez	[Signature]	201458	SC	9-16-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez	[Signature]	201458	WS	9-16-14
Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	[Signature]	114188	TA	9-17-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez	[Signature]	201458	WS	9-17-14

8.[22] Reviewed by:

Operator (print)	Signature	Z#	Initials	Date
[Signature]	[Signature]	179321	LR	9-22-14

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre	[Signature]	114188	TA	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez	[Signature]	201458	SC	9-18-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez	[Signature]	201458	WS	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Córdova	[Signature]	114188	EC	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	[Signature]	187066	JR	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Córdova	[Signature]	114188	EC	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero	[Signature]	187066	JR	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Córdova	[Signature]	114188	EC	9-21-14
Operator (print)	Signature	Z#	Initials	Date
Juan Garcia	[Signature]	169880	JG	9-21-14



Nitrate Salt-Bearing TRU Waste Container Monitoring

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TA-54 AREA G TA-54-375 CELL 2 NITRATE SALT TRU WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[6] Date: From 9-15-14 to 9-21-14

	Monday 6.[6] Start Time: 0812	Tuesday 6.[6] Start Time: 1244	Wednesday 6.[6] Start Time: 1335	Thursday 6.[6] Start Time: 1337	Friday 6.[6] Start Time: 0748	Saturday 6.[6] Start Time: 0812	Sunday 6.[6] Start Time: 0753
TA-54-375 Cell 2 Calibrated Infrared Thermometer (6.[7])	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 6-12-15 File Number 101912
Ambient Temperature (6.[9])	60.4 °F	65.6 °F	63.6 °F	68.1 °F	60.4 °F	61.7 °F	61.6 °F
Container ID #	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])	Temp (°F) (6.[10]/6.[11])
LASB02198	60.5	64.9	63.1	67.9	60.4	61.4	61.4
68638	60.2	65.9	63.2	69.3	60.3	61.2	61.2
69615	60.3	66.9	64.2	70.2	61.1	61.4	61.5
69635	61.0	67.0	64.4	70.7	61.0	62.0	62.1
69642	60.1	67.1	64.3	70.6	60.2	61.6	61.6
69630	60.5	66.8	64.7	70.4	60.5	61.8	61.6
69633	61.0	66.9	64.4	69.7	61.1	61.9	62.0
68430	60.3	66.1	64.0	69.2	60.6	61.6	61.5
68631	60.2	65.9	63.2	68.8	60.2	61.1	61.3
69634	60.6	64.2	63.1	67.2	60.7	62.2	61.4
68567	60.2	65.3	63.2	68.6	60.3	61.3	62.4
94227	60.3	65.0	63.1	68.5	60.4	61.5	61.6
LASB50442	60.8	65.9	63.6	69.2	60.9	61.9	62.1
69644	60.8	66.2	63.8	70.1	60.9	62.0	62.1
LASB50443	60.7	65.5	64.0	69.5	61.2	62.4	61.9
69638	60.8	66.7	64.1	69.4	60.8	61.9	62.1





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6.[6] Date: From 9-15-14 to 9-21-14

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Cordova		114188	EC	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre		174979	TA	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez		214585	JC	9-16-14
Operator (print)	Signature	Z#	Initials	Date
William Juarez		201458	WJ	9-16-14
Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre		174979	TA	9-17-14
Operator (print)	Signature	Z#	Initials	Date
William Juarez		201458	WJ	9-17-14

8.[21] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-22-14

Operator (print)	Signature	Z#	Initials	Date
Tina Aguirre		174979	TA	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez		214585	JC	9-18-14
Operator (print)	Signature	Z#	Initials	Date
William Juarez		201458	WJ	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Cordova		114188	EC	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Cordova		114188	EC	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-21-14
Operator (print)	Signature	Z#	Initials	Date
Eloy D. Cordova		114188	EC	9-21-14







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6.[6] Date: From 9-15-14 to 9-21-14

6.[2] Comments:

N/A

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
Elorza, Carolina		114188	EC	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-15-14
Operator (print)	Signature	Z#	Initials	Date
Lina Aguirre		174977	LA	9-16-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez		121458	JC	9-16-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez		201458	WS	9-16-14
Operator (print)	Signature	Z#	Initials	Date
Lina Aguirre		174977	LA	9-17-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez		201458	WS	9-17-14

8.[12] Reviewed by:

Operator (print)	Signature	Z#	Initials	Date
Juan Garcia		169880	JG	9-22-14

Operator (print)	Signature	Z#	Initials	Date
Lina Aguirre		174977	LA	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Jesse Chavez		121458	JC	9-18-14
Operator (print)	Signature	Z#	Initials	Date
William Suarez		201458	WS	9-18-14
Operator (print)	Signature	Z#	Initials	Date
Elorza, Carolina		114188	EC	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-19-14
Operator (print)	Signature	Z#	Initials	Date
Elorza, Carolina		114188	EC	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Jackie Romero		187066	JR	9-20-14
Operator (print)	Signature	Z#	Initials	Date
Elorza, Carolina		114188	EC	9-21-14
Operator (print)	Signature	Z#	Initials	Date
Juan Garcia		169880	JG	9-21-14



























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6.[6] Date: From 9-20-14 to 9-20-14 Location: Down 375 call 1

6.[2] Comments:

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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

6.[19] Performed by:

<u>Eloy D. Garcia</u> Operator (print)	<u>[Signature]</u> Signature	<u>114188EC</u> Z#	<u>9-20-14</u> Initials Date
<u>Josie Romero</u> Operator (print)	<u>[Signature]</u> Signature	<u>187006JRK</u> Z#	<u>9-20-14</u> Initials Date
<u>Juan Garcia</u> Operator (print)	<u>[Signature]</u> Signature	<u>169840</u> Z#	<u>9-20-14</u> Initials Date
Operator (print)	Signature	Z#	Initials Date
Operator (print)	Signature	Z#	Initials Date
Operator (print)	Signature	Z#	Initials Date
Operator (print)	Signature	Z#	Initials Date

Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.[12] Reviewed by:

_____ SOM or designee (print)	_____ Signature	_____ Z#	_____ Initials	_____ Date
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6.(6) Date: From 9-20-14 to 9-21-14 Location: Dem 375 Cell 1

Container ID # (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	Temp (°F) (6.(10)/6.(11))	
Ambient Temperature (6.(14))	71.6 °F	71.1 °F	69.4 °F	68.0 °F	67.8 °F	66.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F	65.9 °F
End Time (6.(15))	1631	1932	2033	2131	2230	2331	0031	0132	0229	0332	0430	0529	0631	0730	0829	0930	1030	1130	1230	1330
6.(15)	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC
	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC	Operator: JC

N/A

N/A

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6.[6] Date: From 9.20.14 to 9.21.14 Location: Zone 375 Cell 1

6.[2] Comments: None

~~NA~~

6.[9] Performed by: Jana Ayres / 9-21-14  
 Operator (print) / Signature / Z# / Initials / Date

Jana Ayres / 110588 / JA / 09/21/14  
 Operator (print) / Signature / Z# / Initials / Date

Operator (print)	Signature	Z#	Initials	Date

8.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

Operator (print)	Signature	Z#	Initials	Date



Nitrate Salt-Bearing TRU Waste Container Monitoring

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 9-21-14 to 9-21-14 Location: Down 375 cell 1

Calibrated Infrared Thermometer (6.[7])	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	
	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	Brand: <u>Fiske</u>	
	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	Model: <u>561</u>	
	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	Cal. Due Date: <u>6/2/15</u>	
	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	File Number: <u>101915</u>	
Ambient Temperature (6.[9])	62.3 °F	61.8 °F	62.3 °F	65.4 °F	67.5 °F	68.9 °F	70.2 °F	71.6 °F	72.2 °F	73.0 °F	72.3 °F	71.3 °F	72.9 °F	74.1 °F	73.6 °F	72.9 °F	72.1 °F	70.2 °F	NA
Container ID # (6.[10]/6.[11])	68685	50522	61.7	61.3	61.4	63.8	67.0	69.1	71.3	68.6	67.1	67.0	65.5	63.4	63.4	67.7	61.7	61.8	61.8
Temp (°F) (6.[10]/6.[11])	61.7	62.0	61.7	63.4	67.0	69.1	71.3	72.4	73.6	74.1	72.9	72.9	71.9	71.9	71.4	71.4	70.0	70.0	70.0
Temp (°F) (6.[10]/6.[11])	61.7	62.0	61.7	63.4	67.0	69.1	71.3	72.4	73.6	74.1	72.9	72.9	71.9	71.9	71.4	71.4	70.0	70.0	70.0

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6.[6] Date: From 9-21-14 to 9-21-14 Location: Dam 375 C-111

6.[2] Comments:

Operator (print)	Signature	Z#	Initials	Date
<u>Eloy Cardona</u>	<u>[Signature]</u>	<u>1148812</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jake Romero</u>	<u>[Signature]</u>	<u>187066</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>[Signature]</u>	<u>108810</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

6.[19] Performed by:

Operator (print)	Signature	Z#	Initials	Date
<u>Eloy Cardona</u>	<u>[Signature]</u>	<u>1148812</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Jake Romero</u>	<u>[Signature]</u>	<u>187066</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
<u>Juan Garcia</u>	<u>[Signature]</u>	<u>108810</u>	<u>[Initials]</u>	<u>9-21-14</u>
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date
Operator (print)	Signature	Z#	Initials	Date

8.[12] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

Nitrate Salt-Bearing TRU Waste Container Monitoring

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TA-54 AREA G NITRATE SALT TRU WASTE CONTAINER HOURLY TEMPERATURE DATA SHEET

6.[6] Date: From 9-21-14 to 9-22-14 Location: Dem-375 Cell 1

	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	Start Time: 6.[6]	
Calibrated Infrared Thermometer (6.[7])	1830 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	1931 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	2030 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	2133 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	2231 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	2330 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0029 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0130 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0229 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0330 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0430 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0530 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0630 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0730 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0830 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915	0930 Brand: FLUKA Model: 561 Cal. Due Date: 6-12-15 File Number: 101915
Ambient Temperature (6.[9])	69.6 °F	68.2 °F	67.4 °F	66.8 °F	66.0 °F	65.6 °F	64.9 °F	64.9 °F	64.5 °F	63.9 °F	63.9 °F	63.6 °F	63.6 °F	63.1 °F	63.1 °F	63.1 °F
Container ID # (6.[10]/6.[11])	68685	68.8	67.3	65.8	65.4	65.5	64.3	64.3	63.3	62.7	62.7	62.6	62.6	62.4	62.4	62.4
50522	68.4	66.9	65.9	65.1	64.8	64.3	64.0	63.6	63.7	62.8	62.8	62.7	62.7	62.6	62.6	62.6

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6.[6] Date: From 9.21.14 to 9.22.14 Location: Dem 375 C-111

6.[2] Comments:

~~No further data to be collected 9/22/14 HIA~~

6.[19] Performed by:

Operator (print)	<u>Gary Muth</u>	Signature	<u>[Signature]</u>	Z#	<u>226287</u>	Initials	<u>GM</u>	Date	<u>9-21-14</u>
Operator (print)	<u>Timmy Ramirez</u>	Signature	<u>[Signature]</u>	Z#	<u>234253</u>	Initials	<u>TR</u>	Date	<u>9-22-14</u>
Operator (print)		Signature	<u>[Signature]</u>	Z#	<u>HIA</u>	Initials		Date	
Operator (print)		Signature	<u>[Signature]</u>	Z#		Initials		Date	
Operator (print)		Signature	<u>[Signature]</u>	Z#		Initials		Date	
Operator (print)		Signature	<u>[Signature]</u>	Z#		Initials		Date	
Operator (print)		Signature	<u>[Signature]</u>	Z#		Initials		Date	

8.[2] Reviewed by:

Operator (print)	<u>[Signature]</u>	Signature	<u>[Signature]</u>	Z#	<u>1730119</u>	Initials	<u>[Initials]</u>	Date	<u>9-22-14</u>
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