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**Sent:** Wednesday, August 17, 2016 4:02 PM

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**Subject:** Monthly Written Submission from July 21, 2016 - August 17, 2016

Linked below is the written monthly technical summary for July 21, 2016 – August 17, 2016. Summaries are due the third Wednesday of each month. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order*; the letters from NMED dated July 10, 2014, April 27, 2015, May 8, 2015, and August 12, 2015 regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 6*, approved on May 16, 2016.

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[NMED monthly written submission August 17 2016.pdf](#)

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Catherine Juarez for

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# NMED / LANL Technical Summary

**July 21, 2016 – August 17, 2016**

## Participants:

- New Mexico Environment Department: Neelam Dhawan
- LANL – Los Alamos National Security: Mark Haagenstad, Luciana Vigil Holterman and Cathy Juarez.

## LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers (8 SWB overpacks, 48 55-gallon containers, and 4 overpacked POCs).
    - All containers remain in the 375 Permacon.
- **Monitoring - Daily Temperature**
  - Temperatures are currently below 75 °F.
    - Previous month's temperature data attached.
    - The temperature of container 68685 reached 75.7 °F on August 1, 2016 due to its proximity to the Permacon's north east roll-up door and the associated heat transfer between the door and the container, as well as inleakage of higher temperature dome air around the door impinging directly on the container. Insulating blankets were placed between the east roll-up doors and the adjacent containers to provide protection from these conditions. Subsequently the temperature of container 68685 decreased and has remained below 75 °F.
- **Monitoring – Visual Inspections**
  - No abnormal conditions were observed.
- **Monitoring – headspace gas (HSG)**
  - Containers (SWBs) 68685 and 69490 (formerly overpacked into SB50522) continue daily head space gas (HSG) sample collection.
    - July 20, 2016 – August 16, 2016 HSG data (H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O) attached.
  - Other containers:
    - A minimum of once per month HSG sampling is conducted on 55-gallon drums or overpack containers.
      - Through August 16, 2016, LANL has completed HSG sampling for the month on 52 containers.
        - August 2016 HSG data (H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O) attached.
- **Additional measures currently underway**
  - Twice-weekly HSG sample collection on 55-gallon drums of remediated nitrate salt-bearing waste.
    - HSG data (H<sub>2</sub>, CO, CO<sub>2</sub> and N<sub>2</sub>O) attached for July and August 2016.

- Graphical depictions of HSG data are attached for the two containers required to be sampled daily and the five other containers that are currently sampled twice weekly as additional measures.
  - CO<sub>2</sub> values are adjusted by the quantity of CO<sub>2</sub> in the field blank (i.e., the amount of CO<sub>2</sub> in the air when the sample is taken is subtracted from the CO<sub>2</sub> reading within the container). No other adjustments are made to the data.
- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**
  - Currently, no further movements or re-packaging are occurring.
  - Installation of pressure relief devices with supplemental filtration to containers with pipe overpack components is still under review with DOE.

**Other:**

**Next Call:** Wednesday, September 21, 2016

**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<br>June 5, 2014  |
| 2.  | Keep NMED informed on the status of on-going chemistry / analytical work.   | LANL            | ---           | Complete<br>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<br>July 6, 2014<br>(Discussion on call)<br>July 18, 2014<br>(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<br>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<br>June 5, 2014  |
| 6.  | Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.  | LANL            | ---           | Complete<br>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<br>June 17, 2014<br>(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<br>July 3, 2014  |
| 9.  | Provide copy of CCP/LANL Interface Document.  | LANL            | ---           | Complete<br>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<br>June 11, 2014   |
| 11. | Discuss potential sampling of HSG for NO <sub>x</sub> .   | LANL            | ---           | Complete<br>June 16, 2014   |

|     | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b> | <b>Completion Date</b>   |
|-----|---|-----------------|---------------|--|
| 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<br/>June 16, 2014</p> <p>Unremediated<br/>August 14, 2014<br/>(Supplemental information discussed on sampling of parent containers)</p> <p>August 26, 2014<br/>(Letter on applicability of LANL HWFP for opening waste containers)</p> |

|     | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b> | <b>Completion Date</b>  |
|-----|---|-----------------|---------------|---|
| 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            | ---           | <p>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 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> <p>September 22, 2014 (Ninth submittal in response to item 5)</p> <p>September 23, 2014 (Tenth submittal in response to item 5)</p> <p>October 1, 2014 (Eleventh submittal in response to item 5)</p> <p>October 8, 2014 (Twelfth submittal in response to item 5)</p> <p>October 16, 2014 (Thirteenth submittal in response to item 5)</p> <p>October 23, 2014 (Fourteenth submittal in response to item 5)</p> <p>October 27, 2014 (Fifteenth submittal in response to item 5)</p> <p>October 28, 2014 (Sixteenth submittal in response to item 5)</p> <p>November 3, 2014 (Seventeenth submittal in response to item 5)</p> |

|     | <b>Requested Information</b>   | <b>Actionee</b> | <b>Status</b>   | <b>Completion Date</b>  |
|-----|--|-----------------|---|---|
| 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<br>June 23, 2014   |
| 15. | NMED has requested ‘copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.’  | LANL            | ---   | Complete<br>June 13, 2014<br>(Included w/ daily summary)<br>June 16, 2014<br>(Discussed current TA-54 & WCRRF operations) |
| 16. | NMED requested information on the location of drums 68327 and 68328. Request made June 14.   | LANL            | ---   | Complete<br>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<br>July 2, 2014  |
| 18. | Neutralizer use in association with container S855793 (parent of 68660 and 68685).   | LANL            | ---   | Complete<br>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            | ---   | Complete<br>September 30, 2014<br>(with August 26, 2014 response)   |
| 20. | Schedule follow-on update on LANL efforts – including teams.   | LANL / NMED     | ---   | Complete<br>August 14, 2014<br>(Meeting held)   |
| 21. | NMED requested information on document approval / review (as discussed on July 3 call).  | LANL            | ---   | Complete<br>July 29, 2014   |
| 22. | What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste.  | LANL            | ---   | Complete<br>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<br>July 17, 2014<br>(Letter sent w/ information)<br>July 18, 2014<br>(Meeting held)                              |



|     | <b>Requested Information</b>   | <b>Actionee</b> | <b>Status</b>   | <b>Completion Date</b>                           |
|-----|--|-----------------|---|--|
| 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 1 to LANL's July 3, 2014 <i>Response to Request for Information on Management of Waste at LANL.</i> | Complete<br>July 8, 2014                         |
| 25. | NMED requested an additional discussion on a future technical call regarding CO <sub>2</sub> , including data.           | LANL            | ---   | Complete<br>August 14, 2014<br>(Meeting held)    |
| 26. | NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use. | LANL            | ---   | Complete<br>July 18, 2014<br>(Meeting held)      |
| 27. | NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.                   | LANL            | ---   | Complete<br>August 7, 2014                       |
| 28. | NMED requested link to pdf of Actinide Quarterly edition (3 <sup>rd</sup> Q 2008).                                       | LANL            | ---   | Complete<br>July 21, 2014                        |
| 29. | NMED requested a copy of lessons learned   | LANL            | ---   | Complete<br>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<br>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     | ---   | Complete<br>September 29, 2014<br>(meeting held) |
| 35. | Schedule a third update on LANL efforts – including teams.   | LANL / NMED     | ---   | Complete<br>October 20, 2014                     |

|     | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b>                                      | <b>Completion Date</b>   |
|-----|---|-----------------|--|--|
| 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 and will remain draft. | Closed<br>November 19, 2015 Meeting with NMED-HWB personnel discussed that information in the Technical Assessment Report and the DOE Phase II Investigation Report were sufficient for closure. |
| 37. | NMED requested a diagram illustrating the current locations within the 375 Permacon of 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). | LANL            | ---  | Complete<br>October 27, 2014 (Diagram submitted)<br>November 3, 2014 (Table submitted)<br>November 20, 2014 (Revised table submitted)  |

|     | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b>  | <b>Completion Date</b>  |
|-----|---|-----------------|--|---|
| 38. | NMED requested documentation regarding CIN01.001 waste containers that are not part of the September 19, 2014 Nitrate Salts-Bearing Waste Container Isolation Plan, Revision 2. | LANL            | In Progress<br>LANL will submit this documentation in batches as it becomes available. | Submitted 100 out of 586 RTRs and documentation on October 3, 2014. Submitted documentation for 101-200 containers on October 10, 2014. Submitted documentation for 201-300 containers on October 16, 2014. Submitted documentation for 301-400 containers on October 23, 2014. Submitted documentation for 401-500 containers on October 27, 2014. Submitted documentation for 501-586 containers on November 12, 2014. Submitted RTR Videos 101-150 on November 12, 2014. Submitted RTR Videos 151-200 on November 20, 2014. Submitted RTR Videos 201-250 on December 1, 2014. Submitted RTR Videos 251-300 on December 19, 2014. Submitted RTR Videos 301-312 on January 15, 2015. |
| 39. | NMED requested a diagram of the location of the thermocouples on 68685 and SB50522.   | LANL            | ---  | Complete<br>October 27, 2014  |
| 40. | NMED requested a copy of the safety basis document for remediation planning when it is finalized.   | LANL            | Document is currently in Draft and final path has not yet been determined.             | Closed.<br>November 19, 2015 meeting with NMED-HWB personnel.   |

|     | <b>Requested Information</b>   | <b>Actionee</b> | <b>Status</b> | <b>Completion Date</b>  |
|-----|--|-----------------|---------------|---|
| 41. | Trending and correlation of temperature and HSG monitoring data.                 | LANL            | ---           | Complete November 19, 2015<br>HSG data modeling report to be included with the LANL Isolation Plan and graphical depictions of HSG data and temperature will be included with monthly submittals starting in December 2015. |
| 42. | Schedule a fourth update on LANL efforts – including teams.                      | LANL/<br>NMED   | ---           | Complete November 3, 2014   |
| 43. | Schedule a fifth update on LANL efforts – including teams.                       | LANL/<br>NMED   | ---           | Complete November 20, 2014  |
| 44. | Schedule a sixth update on LANL efforts – including teams.                       | LANL/<br>NMED   | ---           | Complete December 9, 2014   |
| 45. | NMED requested documentation regarding CIN01 drums.                              | LANL            | ---           | Complete Email- February 3, 2015<br>Letter- February 19, 2015   |
| 46. | NMED requested documentation regarding duplicate drum number.                    | LANL            | ---           | Complete May 6, 2015  |
| 47. | NMED requested the ESS plan for temperature control and sampling once finalized. | LANL            | ---           | Closed November 19, 2015 meeting with NMED-HWB personnel.   |
| 48. | Schedule a seventh update on LANL efforts – including teams.                     | LANL/<br>NMED   | ---           | Complete January 29, 2015   |
| 49. | Fire suppression repair plan for Dome 231  | LANL            | ---           | This repair plan is no longer necessary because drum movement did not occur during the repair process. Repair is complete.  |

|     | <b>Requested Information</b>  | <b>Actionee</b> | <b>Status</b> | <b>Completion Date</b>   |
|-----|---|-----------------|---------------|--|
| 50. | NMED requested information regarding solution packages 36, 37, 57 and 78.   | LANL            | ---           | Complete. Email – February 17, 2015. Letter-March 19, 2015.  |
| 51. | NMED requested copies of any procedures regarding cementation in bags.  | LANL            | ---           | March 19, 2015 Confirmation that no specific procedure can be located for cementation in bags.     |
| 52. | NMED requested information on the percentage of the 55 SWBs that, based on SWB HSG data, appear to have chemical reactions occurring within the waste.  | LANL            | ---           | Complete. Discussed during technical meeting on April 16, 2015. Email follow-up on April 20, 2015. |
| 53. | NMED requested the document “TA-55 Cement Fixation Drum Logbook” referenced in the CCP AK document.   | LANL            | ---           | Complete. Included with April 24, 2015 Response to Request for Information.                        |
| 54. | NMED requested summary sheet for HSG data.  | LANL            | ---           | Complete April 9, 2015.  |
| 55. | NMED requested additional discussion on engineering options for cooling in Summer months.   | LANL            | ---           | Complete. Discussed during technical meeting on April 16, 2015.                                    |
| 56. | NMED requested references in Technical Assessment Team report Waste Isolation Pilot Plant (WIPP): Chemical Reactivity and Recommended Remediation Strategy for Los Alamos Remediated Nitrate Salt (RNS) Wastes. | LANL            | ---           | Complete April 9, 2015.  |
| 57. | Schedule an eighth LANL update meeting to continue technical discussions associated with remediation options, planning and other topics of interest.  | LANL/<br>NMED   | ---           | Complete April 16, 2015.   |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | 68685 - 68685      |        |                     |                      | 69553 - 69553      |        |                     |                      | 69615 - 69615      |        |                     |                      | 69616 - 69616      |        |                     |                      | SB50069 - 69208    |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 | 257                | 970    | 28653               | 5521                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 | 268                | 1025   | 30196               | 5822                 | 280                | 918    | 23290               | 2977                 | 254                | 829    | 21002               | 1106                 | 308                | 992    | 23713               | 3880                 | 942                | 2122   | 55030               | 7217                 |
| 07/22/16 | 274                | 1078   | 31603               | 6057                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 | 260                | 1042   | 30599               | 5837                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 | 268                | 1236   | 31063               | 5981                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 | 264                | 1070   | 31691               | 6080                 | 267                | 883    | 22537               | 2919                 | 253                | 819    | 20785               | 1076                 | 315                | 1050   | 24362               | 3990                 | 905                | 2073   | 53574               | 7095                 |
| 07/26/16 | 273                | 1084   | 31752               | 6161                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 | 279                | 1317   | 32288               | 6289                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 | 264                | 1071   | 31298               | 6042                 | 280                | 914    | 23563               | 3053                 | 208                | 665    | 17507               | 900                  | 341                | 1132   | 26406               | 4367                 | 964                | 2170   | 55228               | 7391                 |
| 07/29/16 | 275                | 1278   | 31544               | 6159                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 | 255                | 995    | 28749               | 5577                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 | 262                | 1203   | 28437               | 5601                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 | 283                | 1305   | 30657               | 6076                 | 290                | 1156   | 23849               | 3154                 | 267                | 1022   | 21043               | 1146                 | 365                | 1346   | 26178               | 4455                 | 994                | 2391   | 54003               | 7436                 |
| 08/02/16 | 262                | 1170   | 28727               | 5647                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 | 278                | 1163   | 29300               | 5767                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 | 284                | 1232   | 30192               | 5914                 | 294                | 1201   | 24908               | 3273                 | 207                | 836    | 16570               | 929                  | 381                | 1395   | 27809               | 4720                 | 1050               | 2507   | 57738               | 7823                 |
| 08/05/16 | 282                | 1222   | 29434               | 5738                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 | 282                | 1190   | 29722               | 5836                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 | 248                | 1047   | 25304               | 4976                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 | 262                | 1119   | 27855               | 5472                 | 287                | 1175   | 25081               | 3333                 | 177                | 781    | 15471               | 828                  | 295                | 1253   | 24873               | 4207                 | 922                | 2394   | 52897               | 7286                 |
| 08/09/16 | 281                | 1201   | 27390               | 5473                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 | 298                | 1193   | 28743               | 5704                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/11/16 | 279                | 1133   | 28148               | 5547                 | 290                | 1227   | 25100               | 3358                 | 217                | 835    | 16965               | 924                  | 298                | 1310   | 24837               | 4227                 | 339                | 1633   | 37534               | 5181                 |
| 08/12/16 | 296                | 1165   | 28067               | 5562                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 | 281                | 1097   | 26869               | 5300                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 | 257                | 985    | 24023               | 4809                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 | 268                | 1020   | 24997               | 5010                 | 257                | 1070   | 21545               | 2929                 | 181                | 708    | 13565               | 757                  | 243                | 997    | 18158               | 3057                 | 720                | 2120   | 46716               | 6429                 |
| 08/16/16 | 283                | 1027   | 24956               | 4929                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | SB50452 - 69076    |        |                     |                      | SB50522 - 69490    |        |                     |                      | 68430              |        |                     |                      | 68507              |        |                     |                      | 70503 - 68540      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      | 872                | 1601   | 26440               | 5405                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 | 424                | 1292   | 26114               | 3957                 | 889                | 1646   | 27511               | 5611                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      | 931                | 1646   | 28927               | 5866                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      | 824                | 1576   | 26214               | 5273                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      | 852                | 1848   | 26629               | 5385                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 | 403                | 1256   | 25606               | 3851                 | 862                | 1646   | 27709               | 5606                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      | 907                | 1677   | 28522               | 5880                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      | 867                | 1836   | 27293               | 5575                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 | 420                | 1327   | 27136               | 4093                 | 859                | 1647   | 27416               | 5548                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      | 889                | 1968   | 28330               | 5791                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      | 838                | 1550   | 25921               | 5200                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      | 848                | 1790   | 26048               | 5301                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 | 422                | 1451   | 25610               | 3977                 | 889                | 1897   | 26883               | 5515                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      | 813                | 1750   | 25345               | 5139                 |                    |        |                     |                      |                    |        |                     |                      | 15                 | 0      | 1196                | 22                   |
| 08/03/16 |                    |        |                     |                      | 877                | 1776   | 27023               | 5454                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 | 451                | 1543   | 27479               | 4196                 | 917                | 1899   | 28271               | 5750                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      | 868                | 1890   | 27119               | 5481                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      | 747                | 1558   | 23384               | 4753                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      | 752                | 1644   | 23855               | 4817                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 | 405                | 1566   | 26059               | 4017                 | 859                | 1878   | 27412               | 5591                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      | 896                | 1922   | 28188               | 5790                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      | 879                | 1820   | 27290               | 5552                 | 217                | 355    | 4251                | 905                  | 95                 | 49     | 1086                | 36                   |                    |        |                     |                      |
| 08/11/16 | 413                | 1490   | 25618               | 3972                 | 823                | 1714   | 25022               | 5049                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      | 862                | 1837   | 26811               | 5462                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      | 876                | 1827   | 26717               | 5416                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      | 756                | 1593   | 22855               | 4657                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 | 427                | 1482   | 24894               | 3872                 | 811                | 1704   | 24415               | 4949                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      | 849                | 1742   | 25617               | 5248                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

Remediated Nitrate Salt Container Headspace Gas Analysis

| Date     | 70503 - 68553      |        |                     |                      | 68567 - 68567      |        |                     |                      | 68624 - 68624      |        |                     |                      | 68631 - 68631      |        |                     |                      | 68638 - 68638      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 | 44                 | 225    | 3404                | 328                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      | 49                 | 258    | 2993                | 536                  |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 18                 | 47     | 1520                | 136                  | 10                 | 2      | 843                 | 0                    |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      | 31                 | 68     | 1705                | 174                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |



**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | 69013              |        |                     |                      | 69015              |        |                     |                      | 69036 - 69036      |        |                     |                      | 69298 - 69298      |        |                     |                      | 69445 - 69445      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      | 99                 | 149    | 2213                | 553                  |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 | 31                 | 0      | 807                 | 8                    |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 132                | 576    | 9085                | 839                  |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 726                | 1661   | 29279               | 4023                 | 294                | 1094   | 18685               | 1733                 |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      | 72                 | 47     | 930                 | 123                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | 69519              |        |                     |                      | 69520              |        |                     |                      | 69548 - 69548      |        |                     |                      | 69559 - 69559      |        |                     |                      | 69568 - 69568      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      | 15                 | 0      | 3145                | 361                  | 267                | 944    | 14883               | 4559                 |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      | 101                | 205    | 2294                | 783                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 128                | 508    | 2156                | 1129                 |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 | 311                | 376    | 7626                | 2522                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

Remediated Nitrate Salt Container Headspace Gas Analysis

| Date     | 69598              |        |                     |                      | 69604              |        |                     |                      | 69618 - 69618      |        |                     |                      | 69620 - 69620      |        |                     |                      | 69630 - 69630      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      | 281                | 319    | 6599                | 2137                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      | 152                | 496    | 7252                | 847                  | 405                | 1104   | 16721               | 2899                 |                    |        |                     |                      |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 507                | 1443   | 27296               | 2348                 |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 | 24                 | 0      | 617                 | 57                   |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

Remediated Nitrate Salt Container Headspace Gas Analysis

| Date     | 69633 - 69633      |        |                     |                      | 69634 - 69634      |        |                     |                      | 69635 - 69635      |        |                     |                      | 69636 - 69636      |        |                     |                      | 69637 - 69637      |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 287                | 778    | 17153               | 1989                 |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 | 470                | 1078   | 19725               | 2390                 |                    |        |                     |                      | 201                | 653    | 9610                | 658                  |                    |        |                     |                      | 220                | 942    | 9948                | 2683                 |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      | 114                | 77     | 4429                | 652                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | 69638 - 69638      |        |                     |                      | 69639 - 69639      |        |                     |                      | 69641 - 69641      |        |                     |                      | 69642 - 69642      |        |                     |                      | 69644 - 69644      |        |                     |                      |  |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--|
|          | 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 |  |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      | 534                | 1569   | 18327               | 5954                 |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 92                 | 378    | 7180                | 689                  |                    |        |                     |                      |  |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/09/16 | 423                | 1139   | 13194               | 1914                 | 166                | 527    | 9816                | 594                  |                    |        |                     |                      |                    |        |                     |                      | 280                | 746    | 11994               | 2559                 |  |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |
| 08/16/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |

Remediated Nitrate Salt Container Headspace Gas Analysis

| Date     | 69645 - 69645      |        |                     |                      | 93605 - 93605      |        |                     |                      | 94068 - 94068      |        |                     |                      | 94227 - 94227      |        |                     |                      | SB02198 - 68408    |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 33                 | 62     | 805                 | 681                  |                    |        |                     |                      |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 | 213                | 614    | 13371               | 2160                 | 378                | 1260   | 18384               | 5702                 | 547                | 1800   | 30721               | 7162                 |                    |        |                     |                      | 110                | 210    | 4300                | 537                  |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | SB02203 - 92669    |        |                     |                      | SB50073 - 69079    |        |                     |                      | SB50418 - 69595    |        |                     |                      | SB50431 - 69280    |        |                     |                      | SB50442 - 68648    |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      | 232                | 710    | 16070               | 1885                 |                    |        |                     |                      |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 | 49                 | 322    | 4742                | 177                  | 762                | 2151   | 27581               | 6470                 |                    |        |                     |                      | 106                | 321    | 6347                | 839                  |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 323                | 884    | 18231               | 2387                 |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 270                | 770    | 11674               | 2260                 |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |

**Remediated Nitrate Salt Container Headspace Gas Analysis**

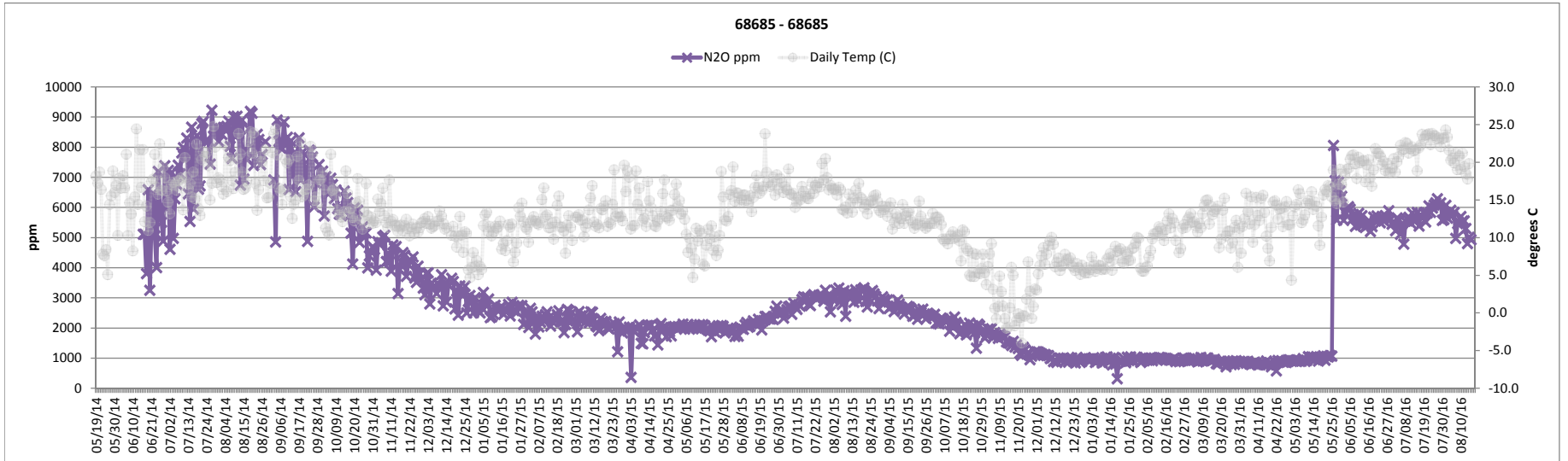
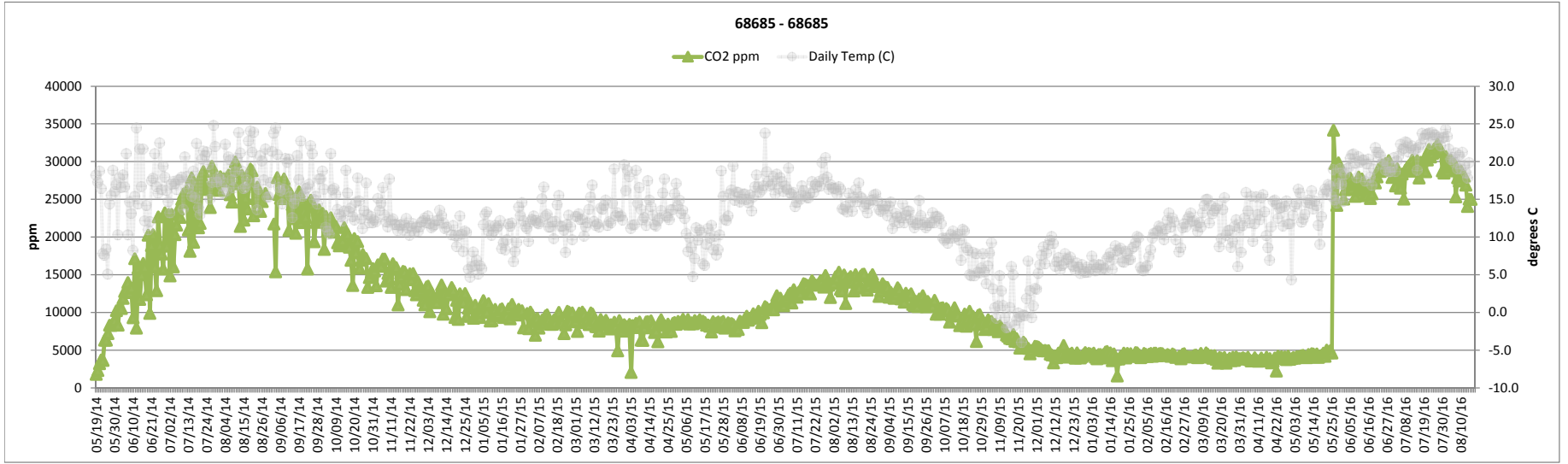
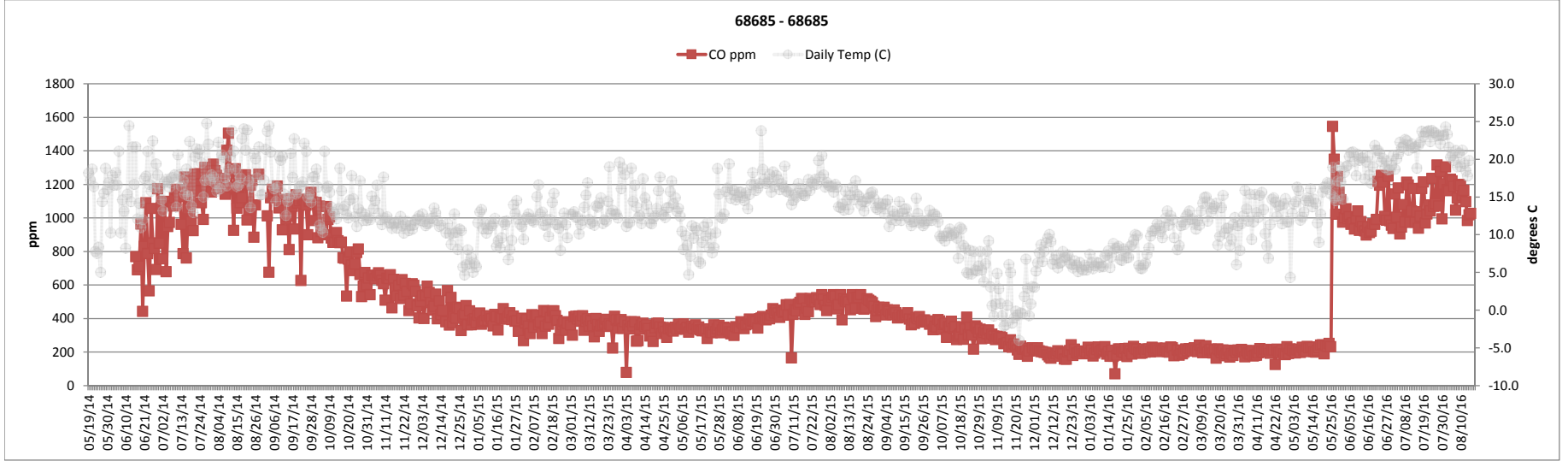
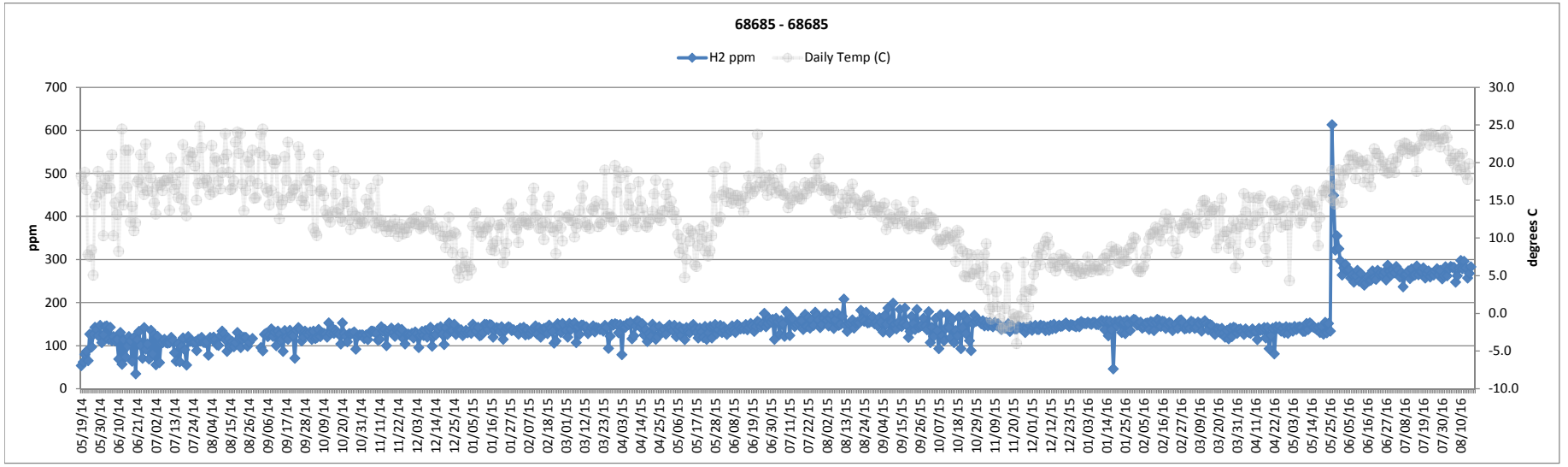
| Date     | SB50443 - 69183    |        |                     |                      | SB50448 - 69491    |        |                     |                      | SB50451 - 69361    |        |                     |                      | SB50529 - 68665    |        |                     |                      | SB50559 - 92459    |        |                     |                      |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|
|          | 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 |
| 07/20/16 |                    |        |                     |                      | 817                | 1408   | 24134               | 3572                 | 215                | 460    | 8363                | 1001                 | 213                | 498    | 10097               | 1154                 |                    |        |                     |                      |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/01/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/03/16 | 508                | 1203   | 15987               | 3024                 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/10/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      | 51                 | 89     | 2225                | 134                  |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |
| 08/16/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |



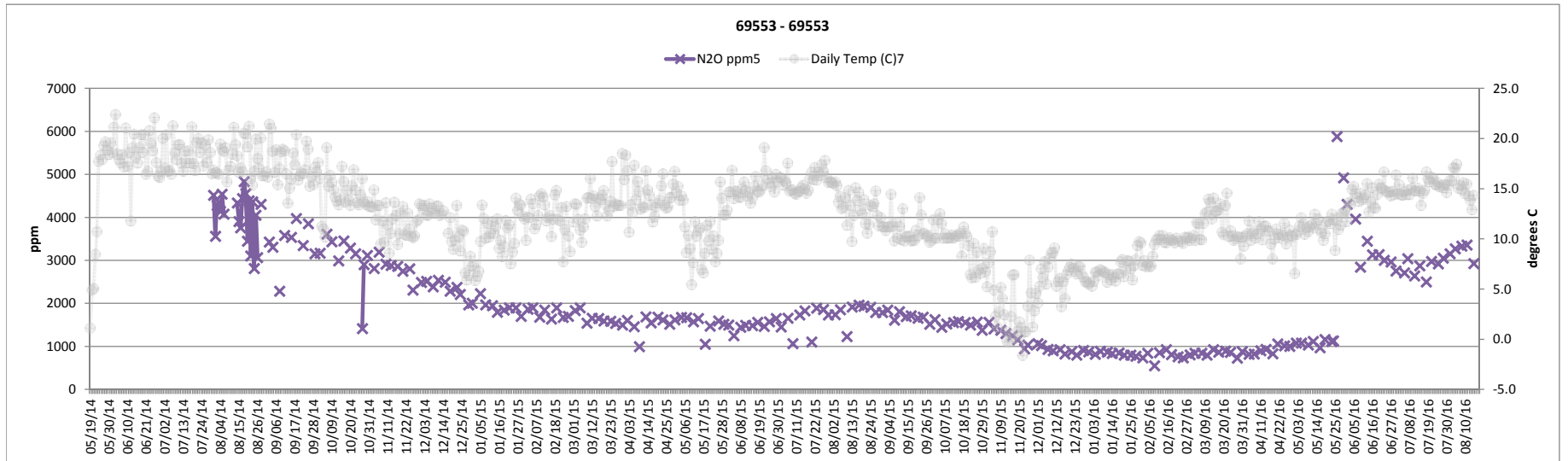
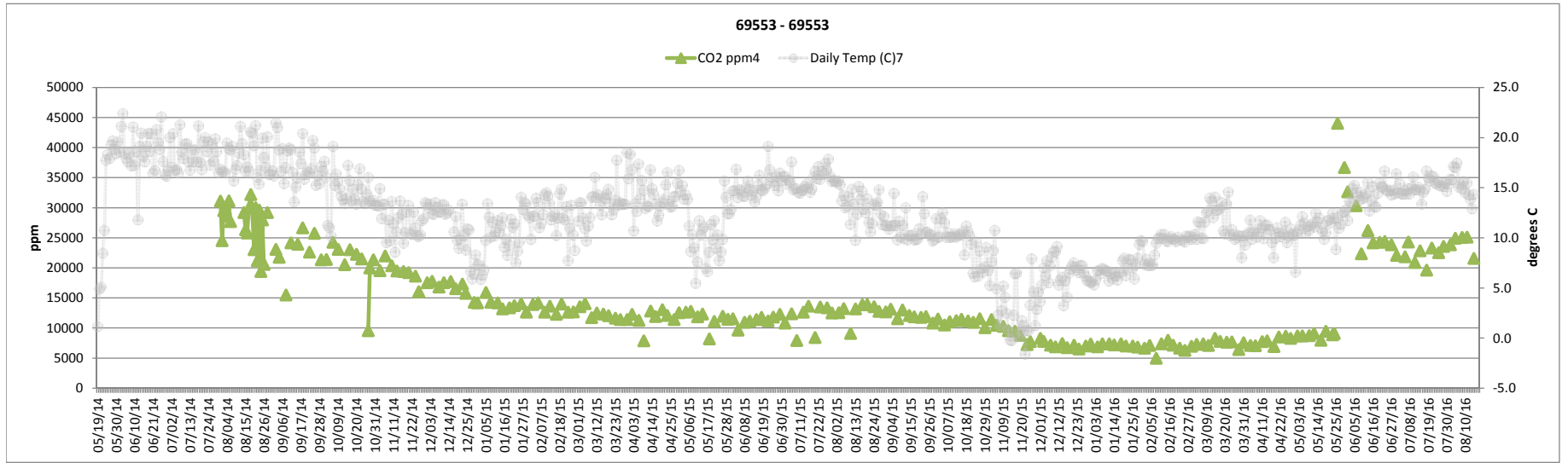
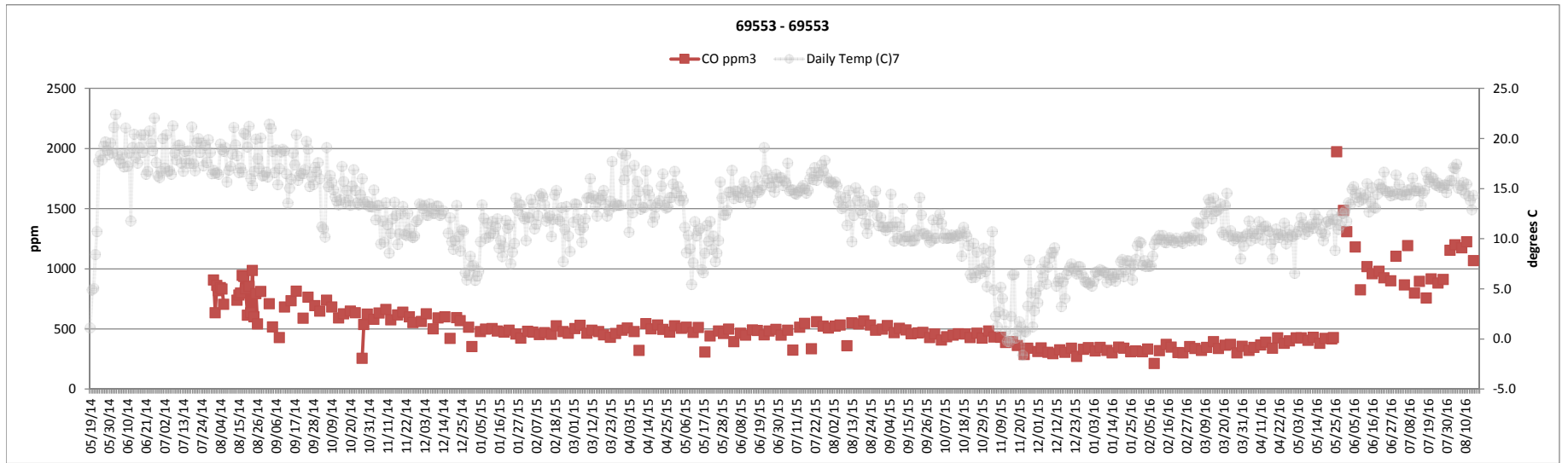
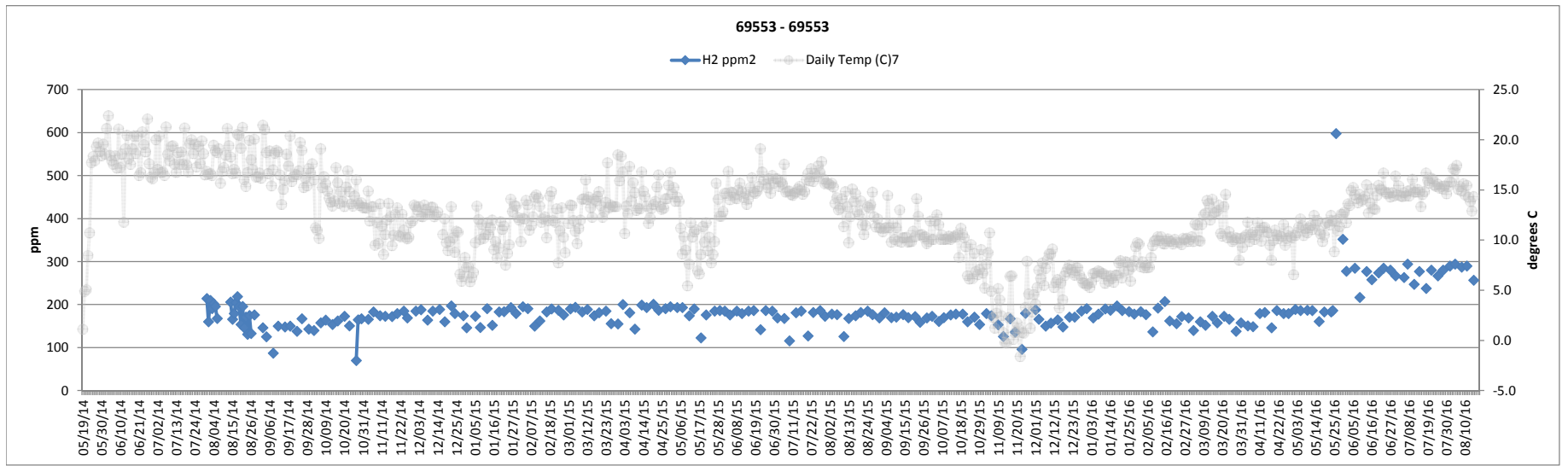
**Remediated Nitrate Salt Container Headspace Gas Analysis**

| Date     | SB50559 - 92472    |        |                     |                      | 87823              |        |                     |                      | 87825              |        |                     |                      | 87826              |        |                     |                      | 87827              |        |                     |                      |  |  |
|----------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--------------------|--------|---------------------|----------------------|--|--|
|          | 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 |  |  |
| 07/20/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/21/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/22/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/23/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/24/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/25/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/26/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/27/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/28/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/29/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/30/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 07/31/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/01/16 |                    |        |                     |                      | 170                | 225    | 4124                | 829                  | 179                | 192    | 6061                | 1222                 | 193                | 236    | 8102                | 1390                 | 58                 | 113    | 3442                | 449                  |  |  |
| 08/02/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/03/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/04/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/05/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/06/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/07/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/08/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/09/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/10/16 | 63                 | 334    | 3751                | 299                  |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/11/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/12/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/13/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/14/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/15/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |
| 08/16/16 |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |                    |        |                     |                      |  |  |

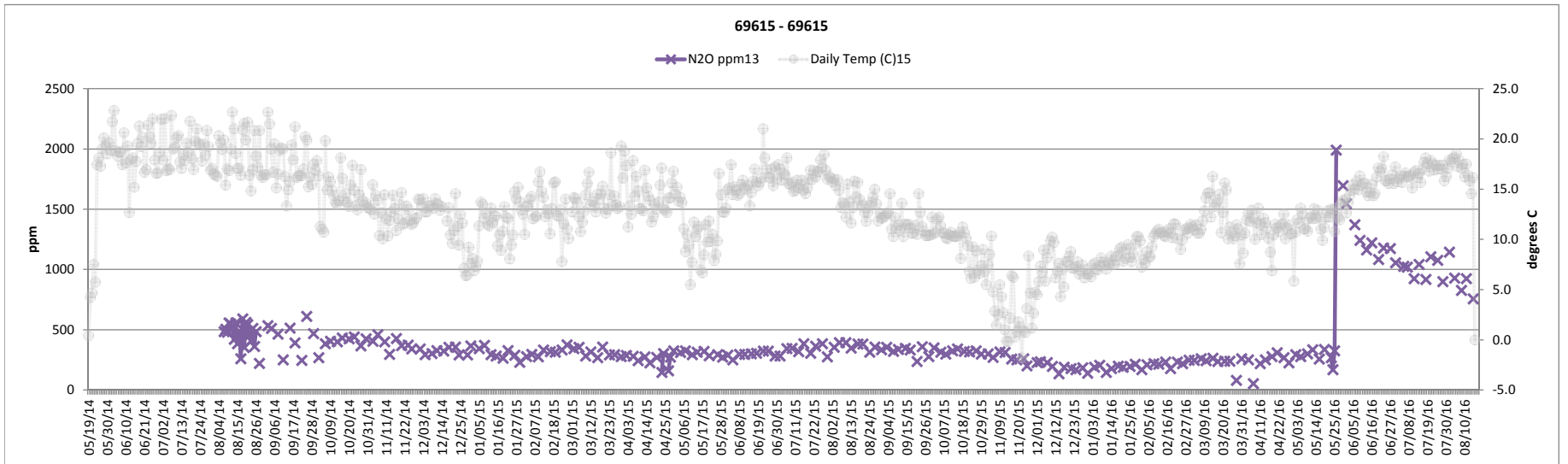
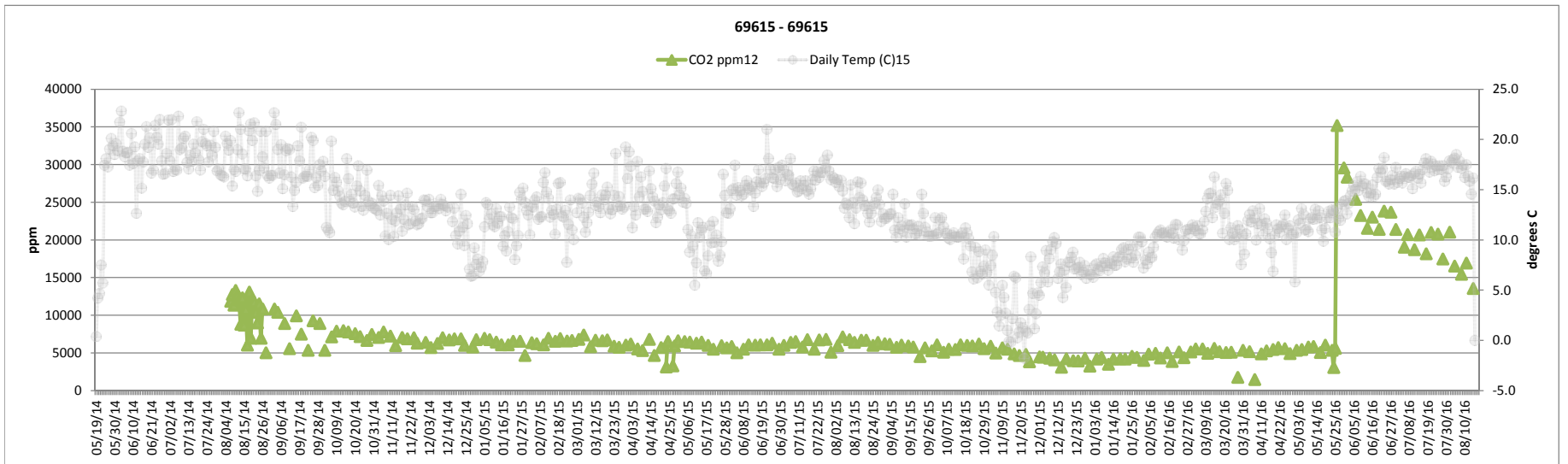
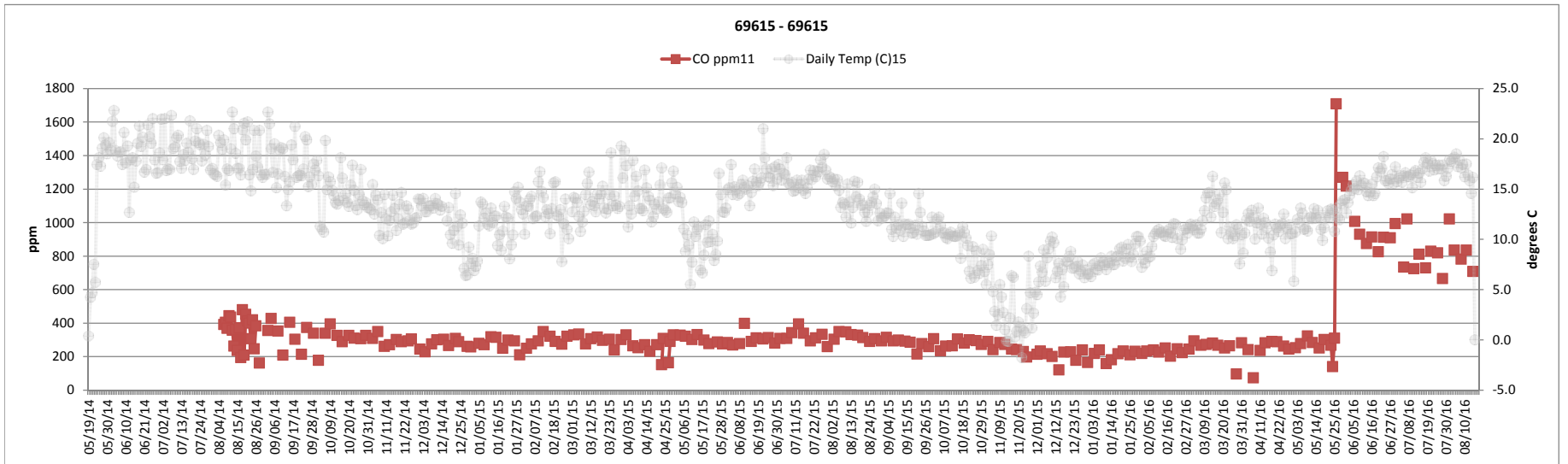
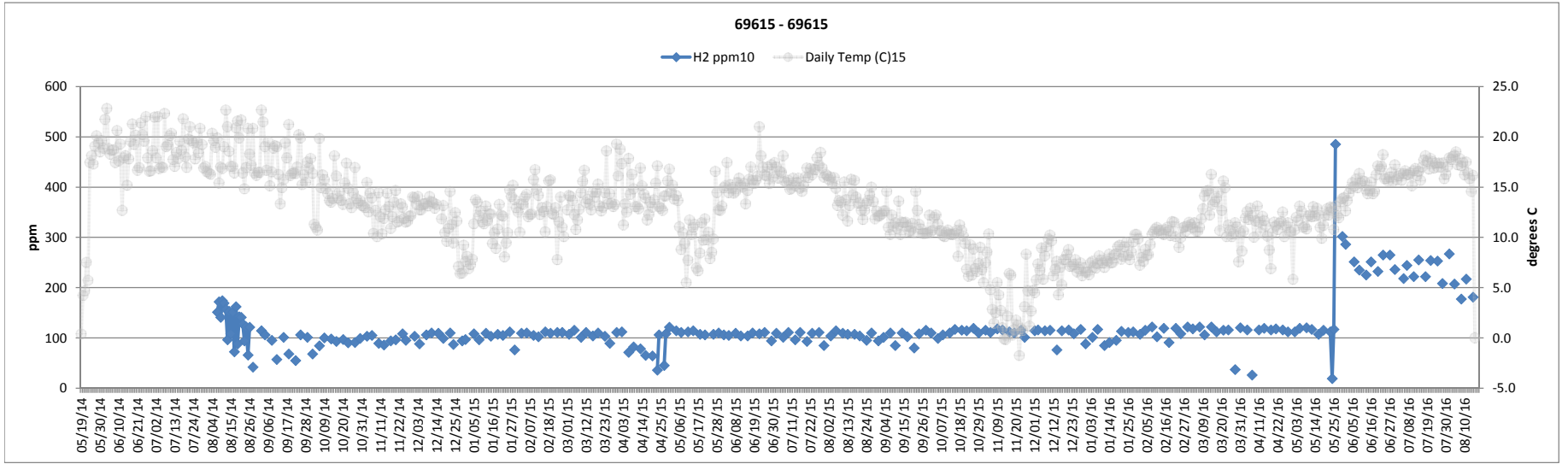
Remediated Nitrate Salt Container Headspace Gas and Temperature



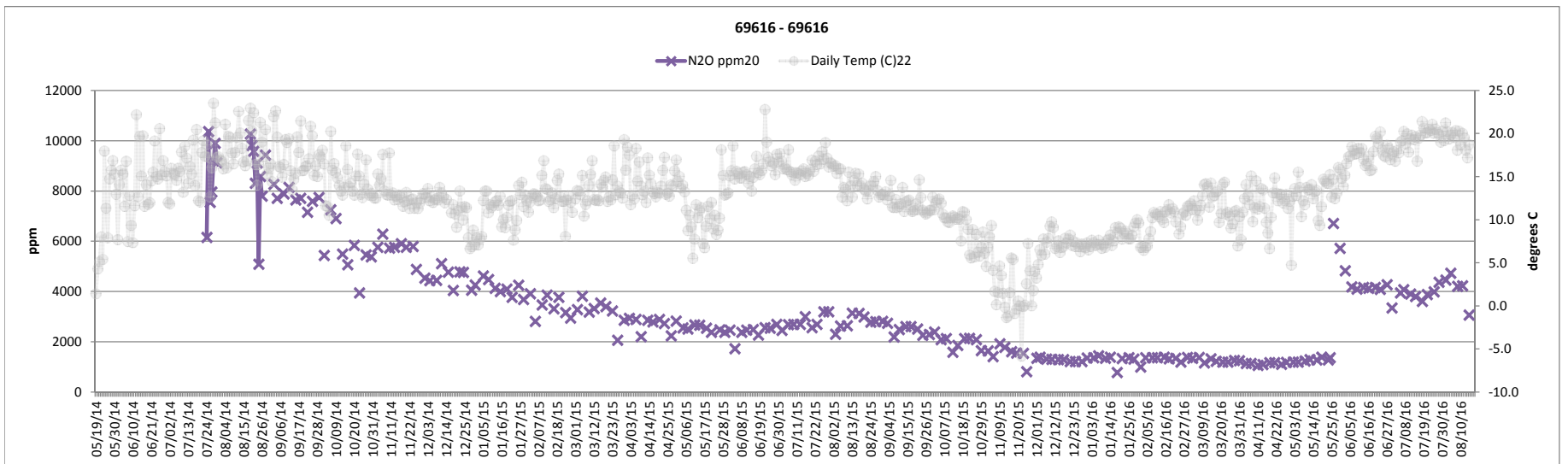
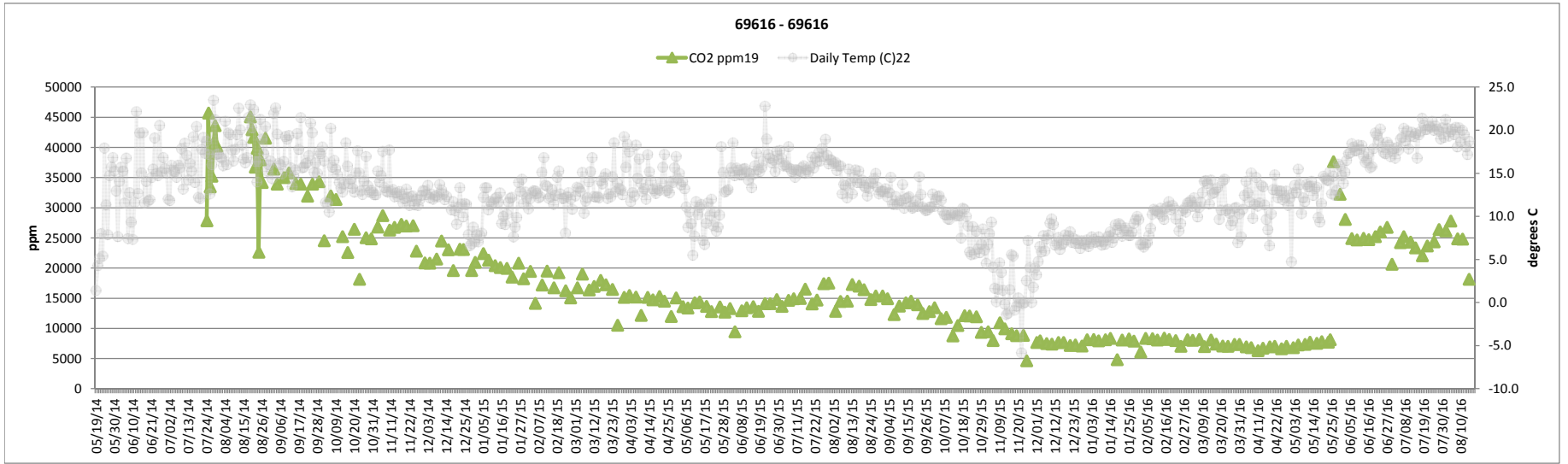
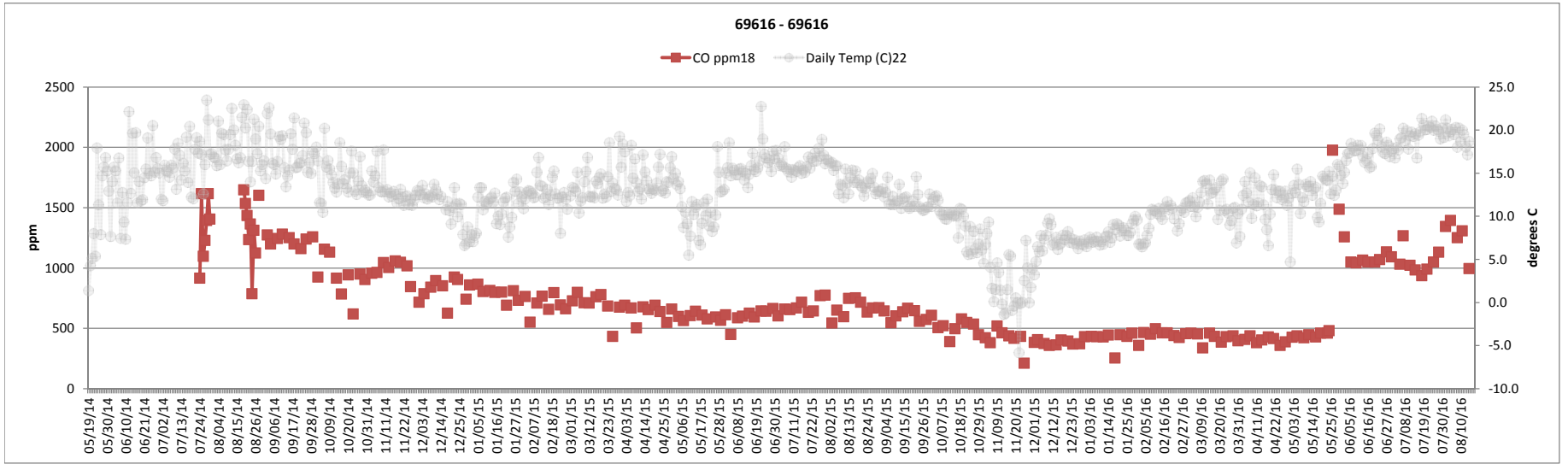
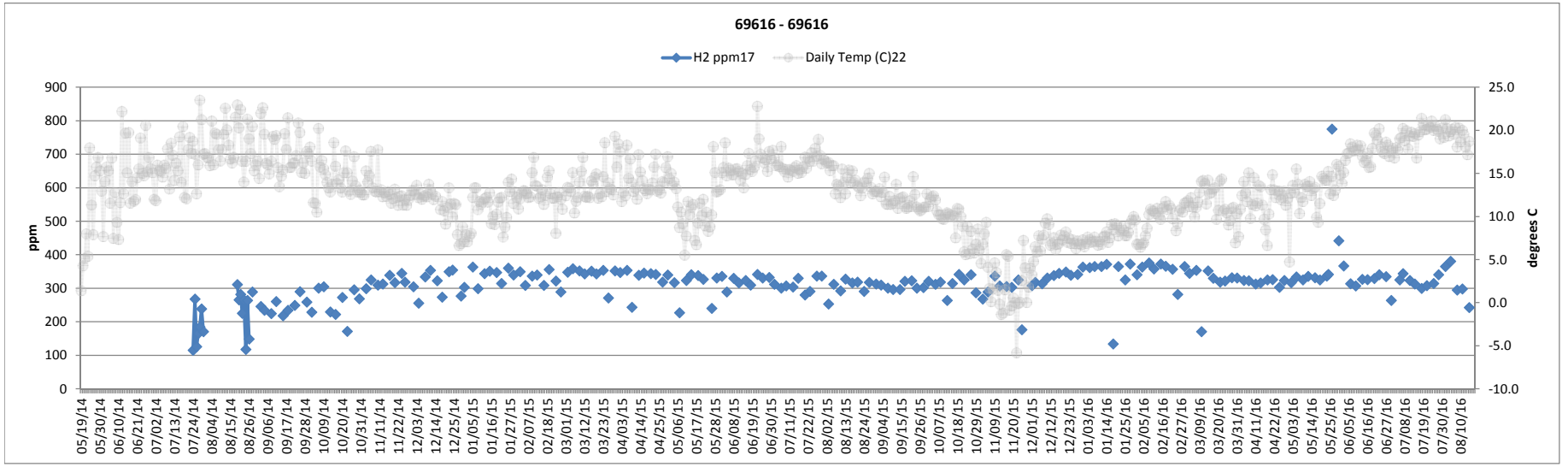
Remediated Nitrate Salt Container Headspace Gas and Temperature



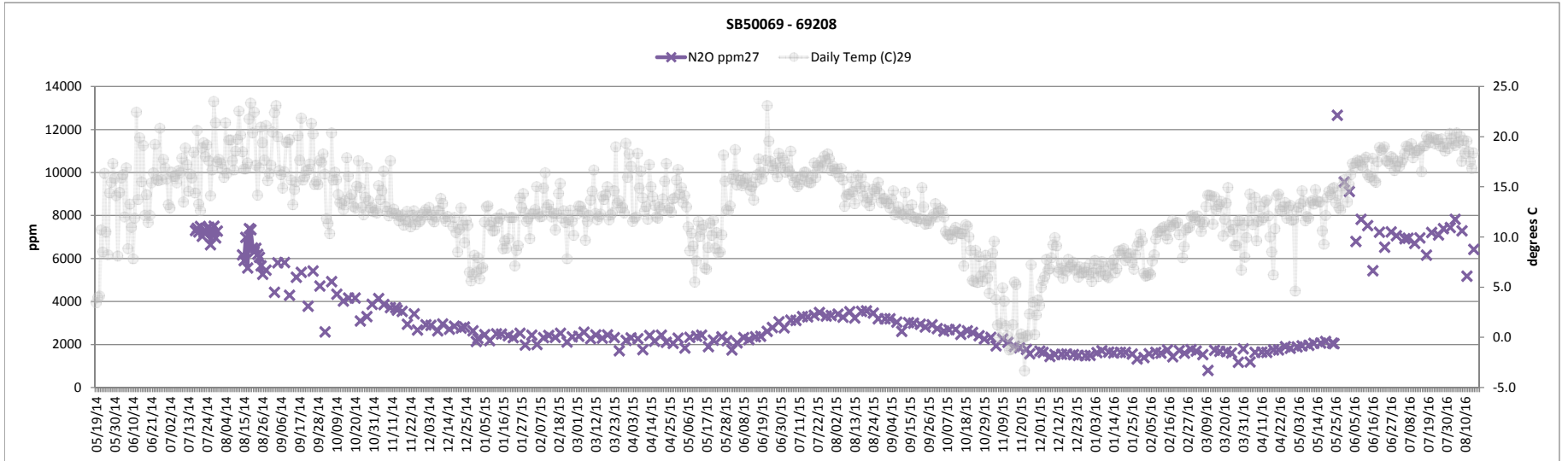
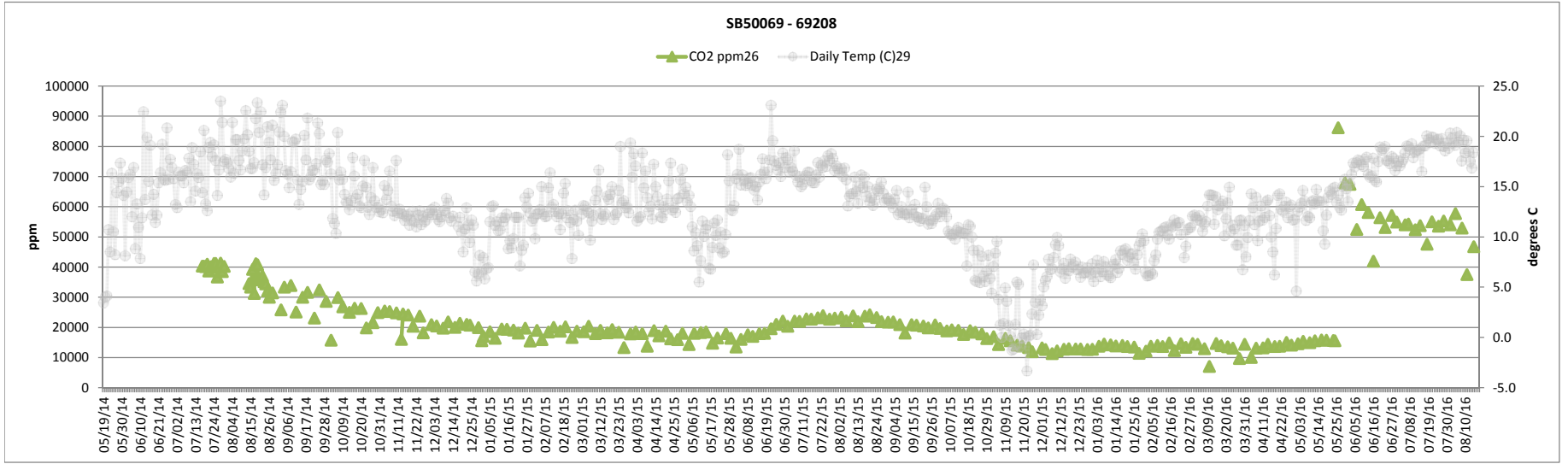
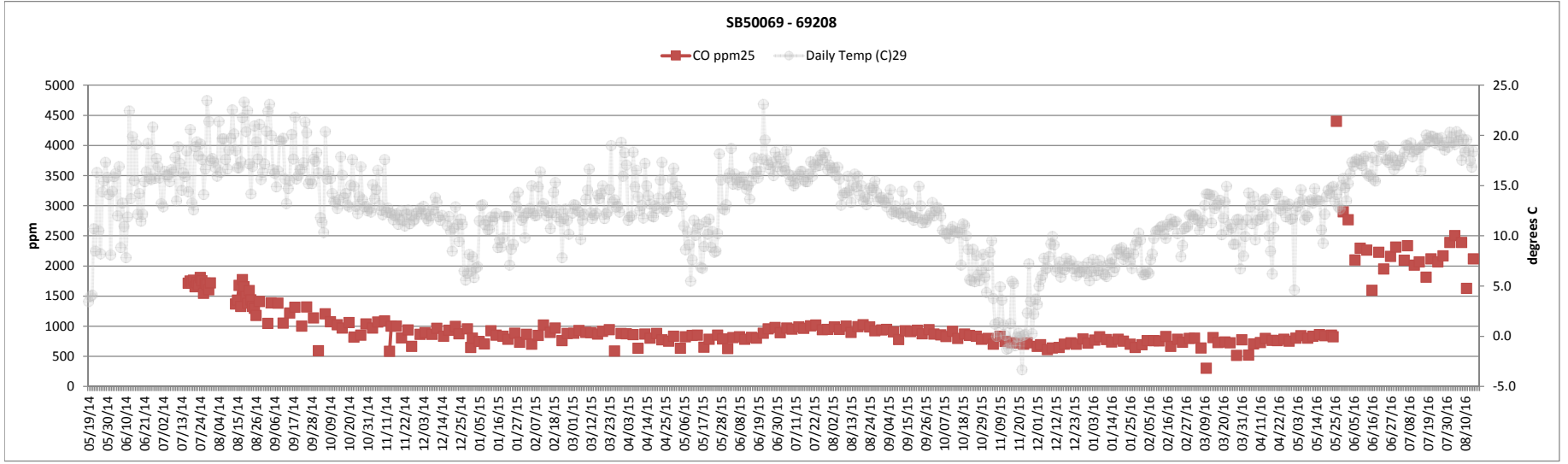
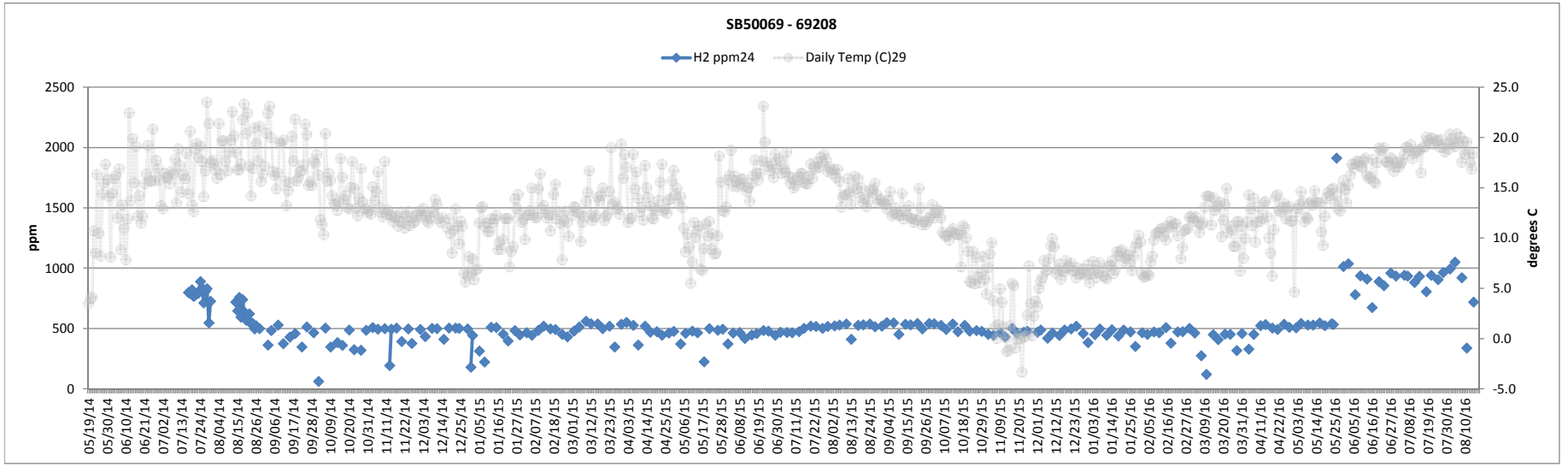
Remediated Nitrate Salt Container Headspace Gas and Temperature



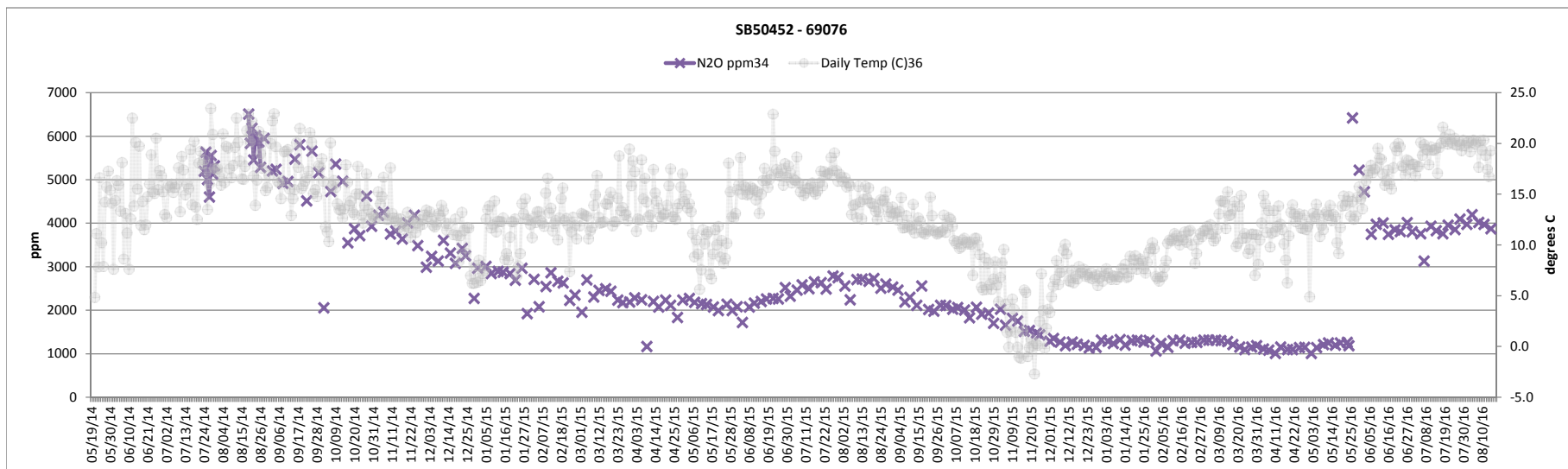
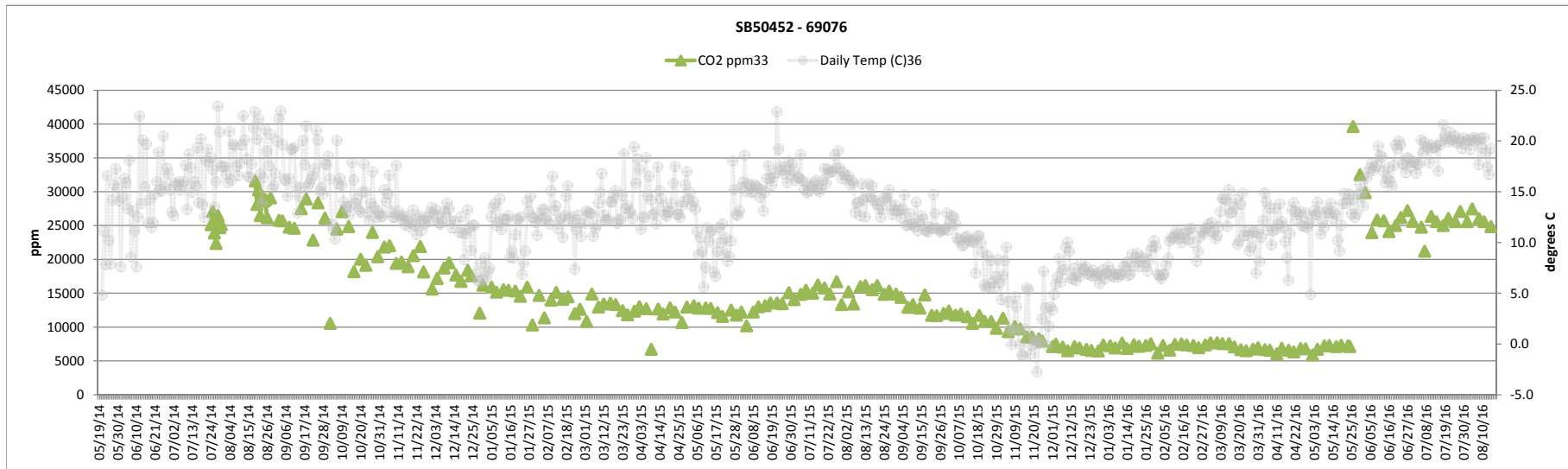
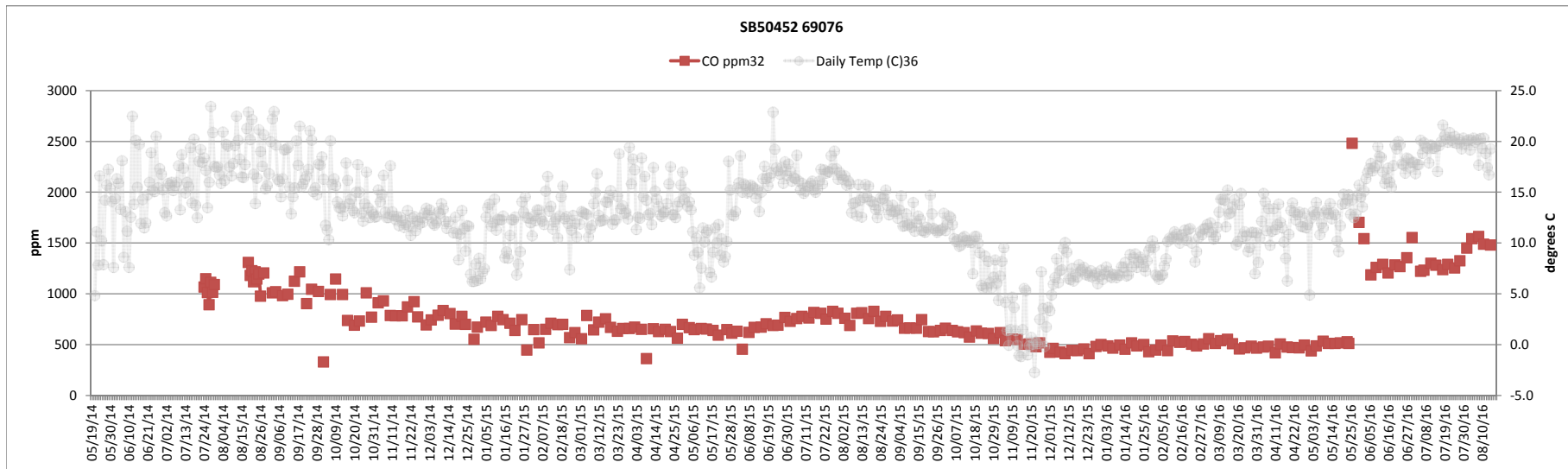
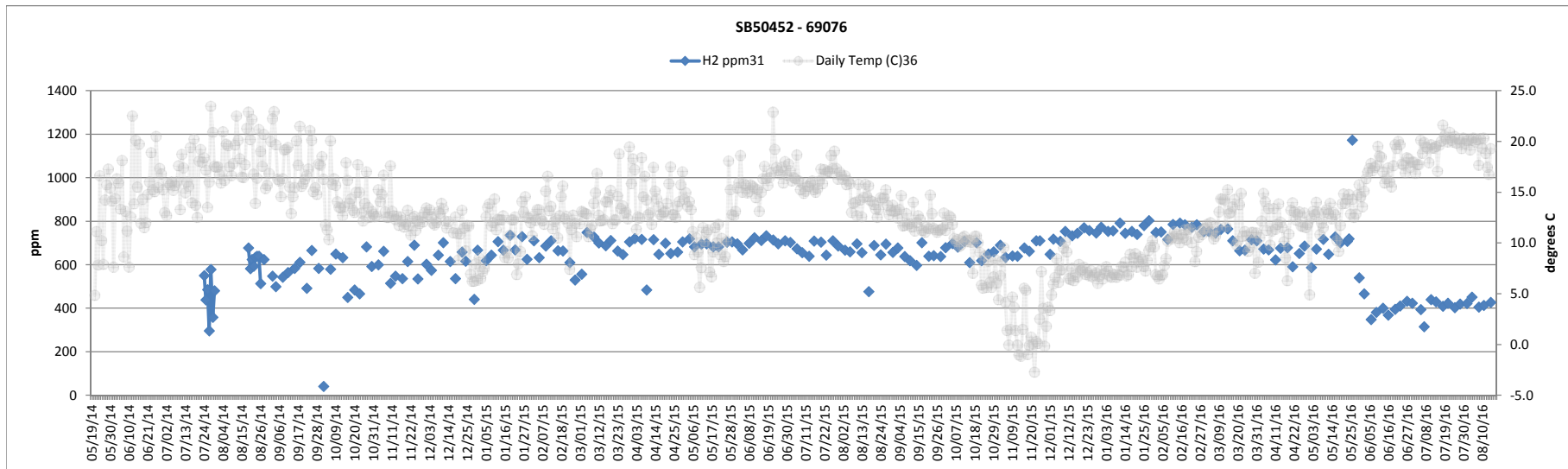
Remediated Nitrate Salt Container Headspace Gas and Temperature



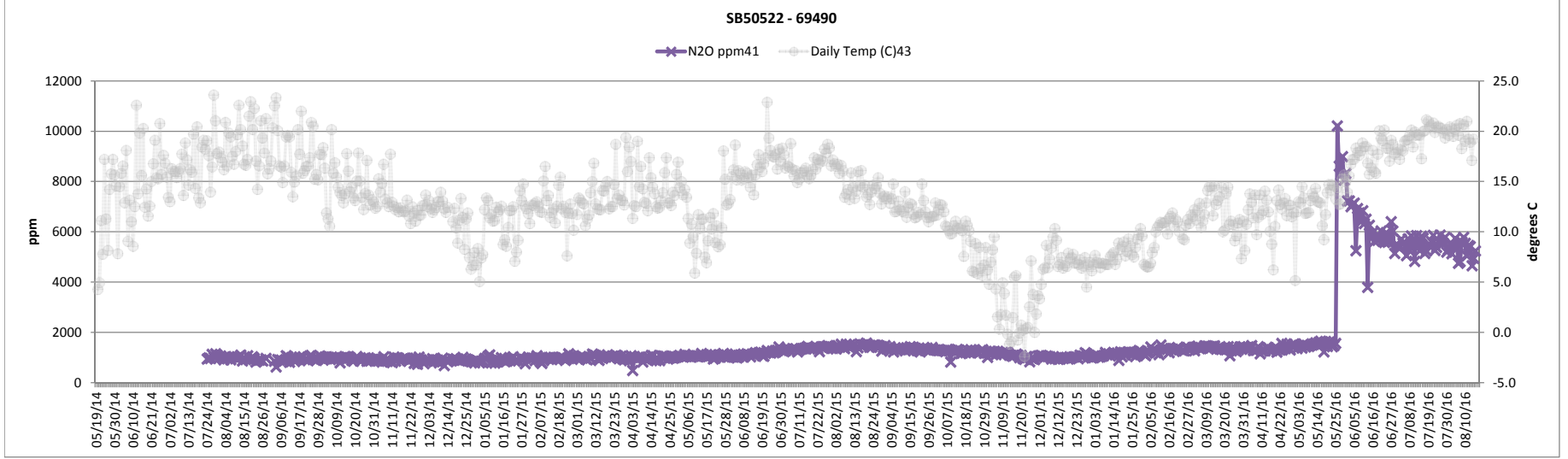
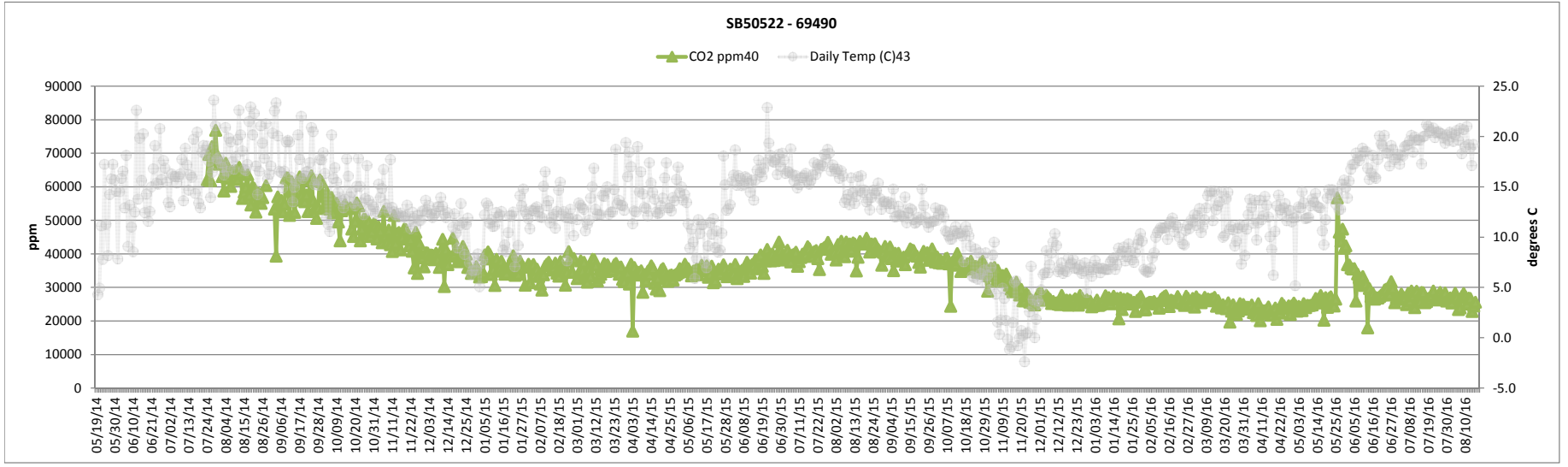
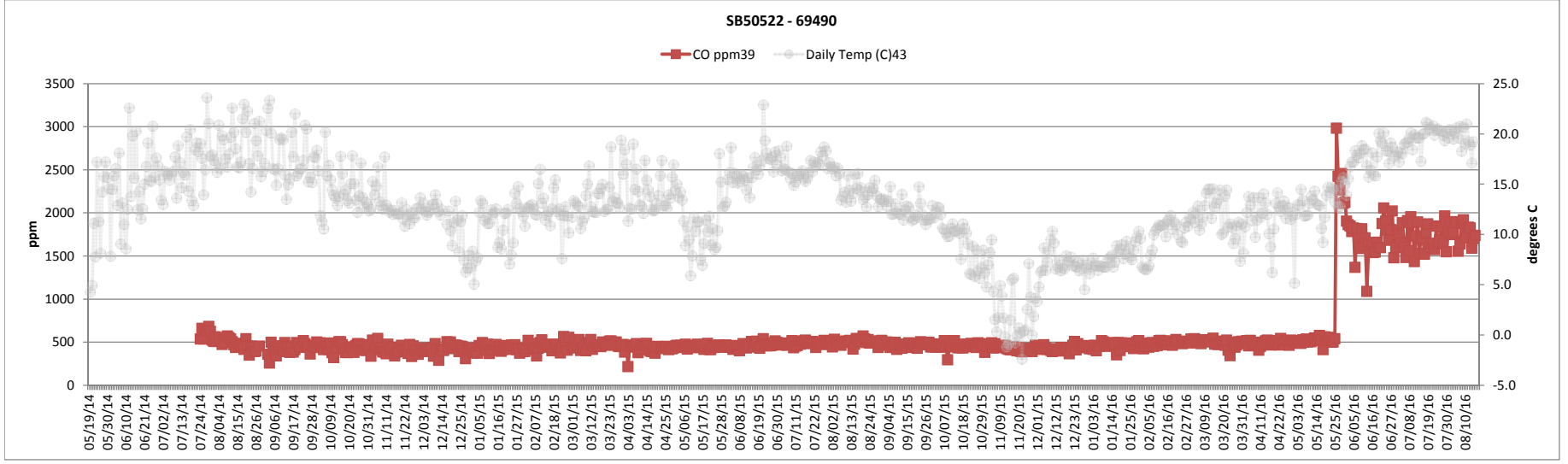
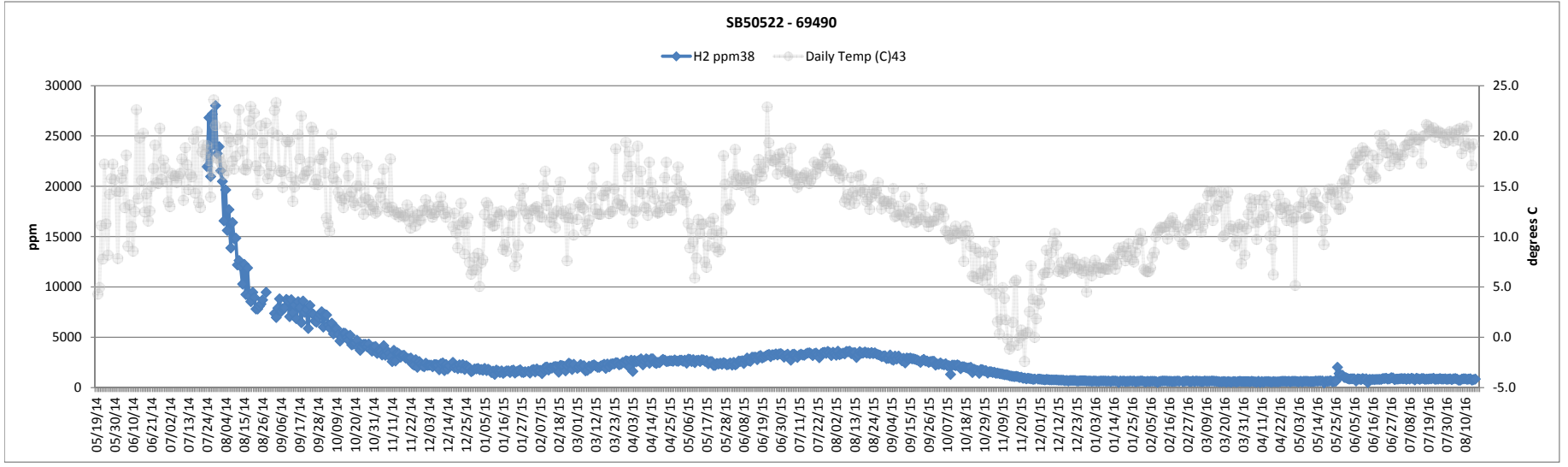
Remediated Nitrate Salt Container Headspace Gas and Temperature



Remediated Nitrate Salt Container Headspace Gas and Temperature



Remediated Nitrate Salt Container Headspace Gas and Temperature





UET

**ATTACHMENT 2**

Page 1 of 3

WORKING COPY  
 Z# 239958

TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET INITIAL Yon DATE 7/18/16

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time:<br>7-18-16/1321  | Tuesday<br>6.[4]<br>Date & Start Time:<br>7-19-16/1333   | Wednesday<br>6.[4]<br>Date & Start Time:<br>7-20-16/1314   | Thursday<br>6.[4]<br>Date & Start Time:<br>7-21-16/1315  | Friday<br>6.[4]<br>Date & Start Time:<br>7-22-16/1312  | Saturday<br>6.[4]<br>Date & Start Time:<br>7-23-16/1314  | Sunday<br>6.[4]<br>Date & Start Time:<br>7-24-16/1311  |
|--|--|--|--|--|--|--|--|
| TA-54-0375 Cell 1                                |  |  |  |  |  |  |  |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> |
| Ambient Temperature<br>(6.[5])                   | <u>72.0</u> °F   | <u>71.3</u> °F   | <u>70.7</u> °F   | <u>71.1</u> °F   | <u>72.5</u> °F   | <u>69.9</u> °F   | <u>69.8</u> °F   |
| (S) Temperature ≤ 75°F<br>SR 4.ESS.5.1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   |
| Container ID #                                   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  |
| 68685  | <u>74.7</u>  | <u>73.5</u>  | <u>74.4</u>  | <u>74.6</u>  | <u>74.8</u>  | <u>72.2</u>  | <u>74.9</u>  |
| LA00000070503                                    | 68540 <u>71.0</u>  | <u>70.9</u>  | <u>69.2</u>  | <u>70.4</u>  | <u>71.0</u>  | <u>68.6</u>  | <u>70.0</u>  |
|  | 68553 <u>71.0</u>  | <u>70.0</u>  | <u>69.3</u>  | <u>70.0</u>  | <u>69.8</u>  | <u>68.5</u>  | <u>69.6</u>  |
| 69445  | <u>71.2</u>  | <u>71.0</u>  | <u>69.7</u>  | <u>70.0</u>  | <u>70.9</u>  | <u>70.7</u>  | <u>69.3</u>  |
| 69618  | <u>71.2</u>  | <u>70.4</u>  | <u>69.1</u>  | <u>70.3</u>  | <u>70.9</u>  | <u>68.8</u>  | <u>70.7</u>  |
| *69013*  | <u>72.0</u>  | <u>71.5</u>  | <u>69.5</u>  | <u>69.4</u>  | <u>71.6</u>  | <u>70.1</u>  | <u>70.5</u>  |
| LASB50522 69076                                  | <u>70.1</u>  | <u>69.8</u>  | <u>68.8</u>  | <u>69.1</u>  | <u>69.5</u>  | <u>67.8</u>  | <u>68.7</u>  |
| LASB50452 69490                                  | <u>70.9</u>  | <u>69.0</u>  | <u>68.4</u>  | <u>67.9</u>  | <u>69.6</u>  | <u>68.2</u>  | <u>67.9</u>  |
| LASB50431 69280                                  | <u>69.2</u>  | <u>68.7</u>  | <u>67.7</u>  | <u>67.5</u>  | <u>69.6</u>  | <u>66.2</u>  | <u>68.9</u>  |
| LASB50069 69208                                  | <u>68.1</u>  | <u>67.5</u>  | <u>66.9</u>  | <u>67.9</u>  | <u>67.8</u>  | <u>66.7</u>  | <u>67.4</u>  |
| LASB50073 69079                                  | <u>69.7</u>  | <u>68.7</u>  | <u>67.1</u>  | <u>67.8</u>  | <u>68.3</u>  | <u>66.6</u>  | <u>68.1</u>  |
| 69636  | <u>69.4</u>  | <u>68.2</u>  | <u>66.0</u>  | <u>68.3</u>  | <u>68.6</u>  | <u>66.9</u>  | <u>67.8</u>  |

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| Container ID #                       | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                      | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| <b>TA-54-0375 Cell 1 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 69616                                | 70.5                              | 69.1                              | 68.1                              | 68.2                              | 68.9                              | 68.6                              | 69.9                              |
| 69417                                | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               |
| 69620                                | 70.5                              | 69.8                              | 69.7                              | 69.1                              | 70.7                              | 69.4                              | 69.8                              |
| *69520*                              | 70.1                              | 68.7                              | 68.7                              | 68.5                              | 69.8                              | 68.6                              | 69.3                              |
| 69641                                | 69.5                              | 68.8                              | 67.3                              | 68.2                              | 68.5                              | 67.2                              | 68.1                              |
| 69298                                | 69.7                              | 68.3                              | 65.1                              | 68.3                              | 67.6                              | 66.5                              | 68.3                              |
| LASB02203   92669                    | 67.6                              | 65.5                              | 65.0                              | 65.2                              | 66.6                              | 65.1                              | 65.1                              |
| End Time (6.[14])                    | 1320                              | 1330                              | 1318                              | 1321                              | 1317                              | 1318                              | 1315                              |
| 6.[14]                               | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>EP</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    |

Comments:

N/A

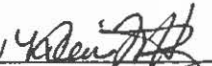
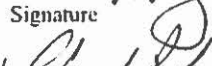
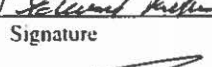

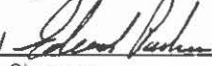

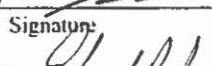
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6.1[18] Performed by:

|                        |   |       |          |         |
|------------------------|---|-------|----------|---------|
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Valerie Martinez       |  | 23958 | VM       | 7/18/16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Leon Montoya           |  | 19526 | LM       | 7-18-16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Valerie Martinez       |  | 23958 | VM       | 7/19/16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Leon Montoya           |  | 19526 | LM       | 7-19-16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Valerie Martinez       |  | 23958 | VM       | 7/20/16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Leon Montoya           |  | 19526 | LM       | 7-20-16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |
| Leon Montoya           |  | 19526 | LM       | 7-21-16 |
| Waste Operator (print) | Signature   | Z#    | Initials | Date    |

|                        |   |        |          |         |
|------------------------|---|--------|----------|---------|
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Valerie Martinez       |  | 23958  | VM       | 7/21/16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Edward Pacheco         |  | 100497 | EP       | 7-22-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Leon Montoya           |  | 19526  | LM       | 7-22-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Edward Pacheco         |  | 100497 | EP       | 7-23-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Leon Montoya           |  | 19526  | LM       | 7-23-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Edward Pacheco         |  | 100497 | EP       | 7-24-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |
| Leon Montoya           |  | 19526  | LM       | 7-24-16 |
| Waste Operator (print) | Signature   | Z#     | Initials | Date    |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|             |           |    |          |      |

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WORKING COPY  
 Z# 239959  
 INITIAL von DATE 7/18/16

**TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE Containers marked by an (\*) are POCs.

|   |         | Monday<br>6.[4]<br>Date & Start Time:<br>7/18/16/1327  | Tuesday<br>6.[4]<br>Date & Start Time:<br>7/19/16/1329   | Wednesday<br>6.[4]<br>Date & Start Time:<br>7/20/16/1319   | Thursday<br>6.[4]<br>Date & Start Time:<br>7/21/16/1322  | Friday<br>6.[4]<br>Date & Start Time:<br>7/22/16/1306  | Saturday<br>6.[4]<br>Date & Start Time:<br>7/23/16/1307  | Sunday<br>6.[4]<br>Date & Start Time:<br>7/24/16/1306  |
|---|---------|--|--|--|--|--|--|--|
| TA-54-0375 Cell 2                             |         |  |  |  |  |  |  |  |
| Calibrated infrared thermometer (4.2.1(2)(B)) |         | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-16</u><br>File Number <u>104841</u> |
| Ambient Temperature (6.[5])                   |         | <u>62.9</u> °F   | <u>62.1</u> °F   | <u>59.6</u> °F   | <u>62.9</u> °F   | <u>62.2</u> °F   | <u>60.6</u> °F   | <u>62.3</u> °F   |
| (S) Temperature ≤ 75°F SR 4 ESS 5 1 (6 [6])   |         | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             |
| Container ID #                                |         | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  |
| LASB02198                                     | 68408   | <u>59.4</u>  | <u>57.7</u>  | <u>58.1</u>  | <u>59.3</u>  | <u>58.2</u>  | <u>60.8</u>  | <u>58.3</u>  |
|   | 68638   | <u>62.7</u>  | <u>61.9</u>  | <u>60.5</u>  | <u>62.1</u>  | <u>61.5</u>  | <u>62.9</u>  | <u>60.1</u>  |
|   | 69615   | <u>64.6</u>  | <u>63.6</u>  | <u>62.2</u>  | <u>64.1</u>  | <u>63.6</u>  | <u>62.4</u>  | <u>63.3</u>  |
|   | 69635   | <u>64.9</u>  | <u>64.4</u>  | <u>62.0</u>  | <u>63.1</u>  | <u>62.6</u>  | <u>64.7</u>  | <u>63.1</u>  |
|   | 69642   | <u>65.5</u>  | <u>65.5</u>  | <u>63.9</u>  | <u>65.0</u>  | <u>64.6</u>  | <u>61.6</u>  | <u>64.6</u>  |
|   | 69630   | <u>63.6</u>  | <u>63.6</u>  | <u>62.0</u>  | <u>62.8</u>  | <u>61.7</u>  | <u>61.6</u>  | <u>61.9</u>  |
|   | 69633   | <u>62.8</u>  | <u>63.5</u>  | <u>61.5</u>  | <u>63.0</u>  | <u>62.8</u>  | <u>63.2</u>  | <u>61.8</u>  |
|   | *68430* | <u>65.2</u>  | <u>64.2</u>  | <u>63.5</u>  | <u>60.9</u> <u>63.8</u>  | <u>63.6</u>  | <u>59.9</u>  | <u>62.8</u>  |
|   | 68631   | <u>58.3</u>  | <u>60.7</u>  | <u>60.1</u>  | <u>58.5</u> <u>60.9</u>  | <u>60.6</u>  | <u>57.6</u>  | <u>61.4</u>  |
|   | 69634   | <u>60.8</u>  | <u>58.0</u>  | <u>57.7</u>  | <u>60.6</u> <u>58.5</u>  | <u>57.6</u>  | <u>59.1</u>  | <u>57.5</u>  |
|   | 68567   | <u>58.9</u>  | <u>58.9</u>  | <u>59.4</u>  | <u>60.9</u> <u>60.6</u>  | <u>59.3</u>  | <u>59.2</u>  | <u>59.7</u>  |
|   | 94227   | <u>60.8</u>  | <u>60.6</u>  | <u>59.4</u>  | <u>62.9</u> <u>60.9</u>  | <u>60.6</u>  | <u>60.1</u>  | <u>60.8</u>  |
| LASB50442                                     | 68648   | <u>62.1</u>  | <u>61.6</u>  | <u>60.2</u>  | <u>62.9</u> <u>62.9</u>  | <u>61.4</u>  | <u>62.2</u>  | <u>62.3</u> <u>62.3</u>  |
|   | 69644   | <u>63.2</u>  | <u>62.9</u>  | <u>62.2</u>  | <u>62.9</u>  | <u>62.4</u>  | <u>62.1</u>  | <u>61.6</u>  |
| LASB50443                                     | 69183   | <u>63.2</u>  | <u>62.8</u>  | <u>62.8</u>  | <u>63.2</u>  | <u>62.6</u>  | <u>62.3</u>  | <u>62.5</u>  |
|   | 69638   | <u>64.0</u>  | <u>63.1</u>  | <u>62.4</u>  | <u>63.2</u>  | <u>63.0</u>  | <u>62.1</u>  | <u>62.8</u>  |

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| Container ID #                       | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                      | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| <b>TA-54-0375 Cell 2 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 68624                                | 63.4                              | 62.8                              | 62.2                              | 62.10                             | 62.9                              | 62.0                              | 62.7                              |
| *68507*                              | 63.8                              | 64.7                              | 62.8                              | 63.7                              | 63.3                              | 62.9                              | 63.2                              |
| 69568                                | 61.5                              | 61.0                              | 60.3                              | 61.4                              | 61.1                              | 62.0                              | 60.2                              |
| 69553                                | 62.0                              | 60.7                              | 60.2                              | 61.1                              | 60.9                              | 59.8                              | 59.6                              |
| *69598*                              | 62.1                              | 60.3                              | 60.2                              | 62.0                              | 60.9                              | 61.7                              | 60.4                              |
| LASB50559                            | 92472                             | 60.9                              | 59.1                              | 58.1                              | 60.2                              | 59.5                              | 58.0                              |
|                                      | 92459                             | 59.7                              | 57.4                              | 57.3                              | 59.5                              | 58.1                              | 57.8                              |
| *69015*                              | 64.8                              | 63.8                              | 64.1                              | 63.9                              | 63.0                              | 62.4                              | 63.0                              |
| 69639                                | 63.8                              | 63.8                              | 63.8                              | 62.1                              | 62.9                              | 62.2                              | 62.6                              |
| 69637                                | 63.8                              | 63.0                              | 62.0                              | 62.7                              | 63.0                              | 61.7                              | 63.8                              |
| End Time (6.[14])                    | 1331                              | 1332                              | 1322                              | 1338                              | 1311                              | 1313                              | 1310                              |
| 6.[14]                               | WO: <u>VOM</u><br>WO: <u>LM</u>   | WO: <u>VOM</u><br>WO: <u>LM</u>   | WO: <u>VOM</u><br>WO: <u>LM</u>   | WO: <u>VOM</u><br>WO: <u>LM</u>   | WO: <u>PP</u><br>WO: <u>LM</u>    | WO: <u>FP</u><br>WO: <u>LM</u>    | WO: <u>FP</u><br>WO: <u>LM</u>    |

Comments: N/C

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6.1[8] Performed by:

|                        |           |        |          |         |
|------------------------|-----------|--------|----------|---------|
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Valerie Martinez       |           | 123958 | VM       | 7/18/16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-18-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Valerie Martinez       |           | 123958 | VM       | 7-19-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-19-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Valerie Martinez       |           | 123958 | VM       | 7-20-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-20-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-21-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |

|                        |           |        |          |         |
|------------------------|-----------|--------|----------|---------|
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Valerie Martinez       |           | 123958 | VM       | 7/21/16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Edward Pacheco         |           | 100497 | EP       | 7-22-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-22-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Edward Pacheco         |           | 100497 | EP       | 7-23-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-23-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Edward Pacheco         |           | 100497 | EP       | 7-24-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |
| Leon Montoya           |           | 191526 | LM       | 7-24-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date    |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|             |           |    |          |      |

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ATTACHMENT 4

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Z# 239958

INITIAL von DATE 7/18/16

TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time:<br>7-18-16/1332   | Tuesday<br>6.[4]<br>Date & Start Time:<br>7-19-16/1323  | Wednesday<br>6.[4]<br>Date & Start Time:<br>7-20-16/1323  | Thursday<br>6.[4]<br>Date & Start Time:<br>7-21-16/1339   | Friday<br>6.[4]<br>Date & Start Time:<br>7-22-16/1300   | Saturday<br>6.[4]<br>Date & Start Time:<br>7-23-16/1300   | Sunday<br>6.[4]<br>Date & Start Time:<br>7-24-16/1300   |
|--|---|---|---|---|---|---|---|
| <b>TA-54-0375 Cell 3</b>                         |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.1(2)(B)) | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-16</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-16</u><br>File Number <u>104841</u> |
| Ambient Temperature<br>(6.5)                     | <u>68.0</u> °F  | <u>67.0</u> °F  | <u>66.0</u> °F  | <u>67.0</u> °F  | <u>65.8</u> °F  | <u>67.0</u> °F  | <u>66.6</u> °F  |
| (S) Temperature ≤ 75°F<br>SR 4.ESS.5.1 (6.6)     | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              |
| Container ID #                                   | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  | Temp (°F)<br>(6.8)/6.9/6.10)  |
| *69519*  | <u>65.2</u>   | <u>65.7</u>   | <u>64.2</u>   | <u>65.0</u>   | <u>64.7</u>   | <u>64.0</u>   | <u>65.4</u>   |
| 69645  | <u>63.2</u>   | <u>62.7</u>   | <u>62.1</u>   | <u>62.9</u>   | <u>61.7</u>   | <u>64.8</u>   | <u>61.8</u>   |
| 94068  | <u>65.9</u>   | <u>64.9</u>   | <u>64.3</u>   | <u>65.0</u>   | <u>65.7</u>   | <u>64.6</u>   | <u>65.0</u>   |
| 93605  | <u>66.6</u>   | <u>65.8</u>   | <u>65.3</u>   | <u>65.1</u>   | <u>65.2</u>   | <u>66.5</u>   | <u>66.8</u>   |
| 69548  | <u>67.2</u>   | <u>66.0</u>   | <u>65.0</u>   | <u>65.5</u>   | <u>65.5</u>   | <u>65.2</u>   | <u>65.9</u>   |
| *69604*  | <u>67.2</u>   | <u>66.0</u>   | <u>66.7</u>   | <u>65.9</u>   | <u>66.5</u>   | <u>66.1</u>   | <u>66.4</u>   |
| LASB50529 68665                                  | <u>65.7</u>   | <u>64.5</u>   | <u>63.0</u>   | <u>64.4</u>   | <u>63.5</u>   | <u>64.5</u>   | <u>64.3</u>   |
| LASB50418 69595                                  | <u>65.9</u>   | <u>65.4</u>   | <u>66.1</u>   | <u>64.0</u>   | <u>64.9</u>   | <u>65.7</u>   | <u>64.8</u>   |
| 69036  | <u>65.1</u>   | <u>65.0</u>   | <u>65.2</u>   | <u>65.0</u>   | <u>64.8</u>   | <u>64.6</u>   | <u>64.9</u>   |
| LASB50451 69361                                  | <u>65.7</u>   | <u>66.5</u>   | <u>64.8</u>   | <u>65.2</u>   | <u>64.4</u>   | <u>64.9</u>   | <u>63.5</u>   |
| 69559  | <u>66.3</u>   | <u>65.8</u>   | <u>65.1</u>   | <u>65.3</u>   | <u>64.9</u>   | <u>64.7</u>   | <u>66.5</u>   |
| LASB50448 69491                                  | <u>66.9</u>   | <u>66.8</u>   | <u>66.0</u>   | <u>65.8</u>   | <u>65.4</u>   | <u>66.1</u>   | <u>66.3</u>   |

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| Container ID #                       | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| <b>TA-54-0375 Cell 3 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *87827*                              | 69.4                              | 68.6                              | 68.2                              | 68.1                              | 68.1                              | 67.7                              | 68.6                              |
| *87826*                              | 68.8                              | 68.3                              | 67.2                              | 67.8                              | 67.5                              | 66.2                              | 67.8                              |
| *87823*                              | 70.2                              | 69.8                              | 68.5                              | 69.3                              | 68.4                              | 66.8                              | 68.5                              |
| *87825*                              | 69.7                              | 69.4                              | 69.9                              | 68.5                              | 68.5                              | 68.0                              | 68.6                              |
| End Time<br>(6.[14])                 | 1335                              | 1328                              | 1326                              | 1340                              | 1305                              | 1306                              | 1305                              |
| 6.[14]                               | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>Von</u><br>WO: <u>LM</u>   | WO: <u>EP</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    |

Comments:

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6.1[18] Performed by:

|                        |                         |        |          |         |
|------------------------|-------------------------|--------|----------|---------|
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Valerie Martinez       | <i>Valerie Martinez</i> | 239958 | VM       | 7/18/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7/18/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Valerie Martinez       | <i>Valerie Martinez</i> | 239958 | VM       | 7/19/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7/19/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Valerie Martinez       | <i>Valerie Martinez</i> | 239958 | VM       | 7/20/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7/20/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7/21/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |

|                        |                         |        |          |         |
|------------------------|-------------------------|--------|----------|---------|
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Valerie Martinez       | <i>Valerie Martinez</i> | 239958 | VM       | 7/21/16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Edward Pacheco         | <i>Edward Pacheco</i>   | 100447 | EP       | 7-22-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7-22-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Edward Pacheco         | <i>Edward Pacheco</i>   | 100447 | EP       | 7-23-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7-23-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Edward Pacheco         | <i>Edward Pacheco</i>   | 100447 | EP       | 7-24-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526 | LM       | 7-24-16 |
| Waste Operator (print) | Signature               | Z#     | Initials | Date    |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|             |           |    |          |      |

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**TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

**NOTE** SWB drum 6941 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (\*) are POCs.

|   | Monday<br>6.[4]<br>Date & Start Time:<br>7-25-16 1307   | Tuesday<br>6.[4]<br>Date & Start Time:<br>7-26-16 1305  | Wednesday<br>6.[4]<br>Date & Start Time:<br>7-27-16 1308  | Thursday<br>6.[4]<br>Date & Start Time:<br>7-28-16 1323   | Friday<br>6.[4]<br>Date & Start Time:<br>7-29-16 1310   | Saturday<br>6.[4]<br>Date & Start Time:<br>7-30-16 1315   | Sunday<br>6.[4]<br>Date & Start Time:<br>7-31-16 1310   |
|---|---|---|---|---|---|---|---|
| TA-54-0375 Cell 1                               |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.112)(B) | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> |
| Ambient Temperature (6.[5])                     | <u>70.2</u> °F  | <u>69.6</u> °F  | <u>69.9</u> °F  | <u>69.9</u> °F  | <u>68.3</u> °F  | <u>68.8</u> °F  | <u>68.0</u> °F  |
| (S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[6])     | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  |
| Container ID #                                  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |
| 68685   | <u>74.4</u>   | <u>74.3</u>   | <u>73.6</u>   | <u>73.8</u>   | <u>71.7</u>   | <u>73.6</u>   | <u>73.8</u>   |
| LA00000070503                                   | 68540 <u>69.2</u>   | <u>68.8</u>   | <u>69.4</u>   | <u>68.9</u>   | <u>67.9</u>   | <u>68.1</u>   | <u>68.8</u>   |
|   | 68553 <u>69.7</u>   | <u>69.2</u>   | <u>69.9</u>   | <u>69.1</u>   | <u>69.5</u>   | <u>68.3</u>   | <u>68.9</u>   |
| 69445   | <u>70.2</u>   | <u>70.5</u>   | <u>70.1</u>   | <u>70.1</u>   | <u>69.2</u>   | <u>69.1</u>   | <u>70.0</u>   |
| 69618   | <u>69.7</u>   | <u>69.0</u>   | <u>69.3</u>   | <u>68.8</u>   | <u>67.6</u>   | <u>68.3</u>   | <u>68.0</u>   |
| *69013*   | <u>70.2</u>   | <u>69.8</u>   | <u>70.1</u>   | <u>69.8</u>   | <u>67.2</u>   | <u>69.1</u>   | <u>69.1</u>   |
| LASB50522 69076                                 | <u>68.9</u>   | <u>66.6</u>   | <u>68.5</u>   | <u>67.8</u>   | <u>66.5</u>   | <u>68.3</u>   | <u>67.3</u>   |
| LASB50452 69490                                 | <u>68.9</u>   | <u>67.9</u>   | <u>65.4</u>   | <u>67.8</u>   | <u>66.7</u>   | <u>68.10</u>  | <u>67.6</u>   |
| LASB50431 69280                                 | <u>67.9</u>   | <u>67.4</u>   | <u>67.4</u>   | <u>66.5</u>   | <u>65.2</u>   | <u>67.5</u>   | <u>66.9</u>   |
| LASB50069 69208                                 | <u>67.5</u>   | <u>66.3</u>   | <u>67.6</u>   | <u>66.2</u>   | <u>65.4</u>   | <u>66.8</u>   | <u>65.9</u>   |
| LASB50073 69079                                 | <u>67.2</u>   | <u>67.3</u>   | <u>67.7</u>   | <u>67.7</u>   | <u>65.9</u>   | <u>65.8</u>   | <u>66.5</u>   |
| 69636   | <u>67.2</u>   | <u>69.2</u>   | <u>67.8</u>   | <u>66.5</u>   | <u>65.5</u>   | <u>66.7</u>   | <u>68.9</u>   |

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DATE 7-25-16

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| Container ID #                | Monday                         | Tuesday                        | Wednesday                      | Thursday                       | Friday                         | Saturday                       | Sunday                         |
|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
|                               | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) | Temp (°F)<br>(6.18/6.19/6.110) |
| TA-54-0375 Cell 1 (continued) |                                |                                |                                |                                |                                |                                |                                |
| 69616                         | 68.0                           | 68.9                           | 68.2                           | 67.8                           | 66.2                           | 68.5                           | 66.5                           |
| 69417                         | N/A                            | N/A                            | N/A                            | N/A                            | N/A                            | N/A                            | N/A                            |
| 69620                         | 69.3                           | 68.2                           | 68.6                           | 68.5                           | 66.5                           | 67.8                           | 68.5                           |
| *69520*                       | 69.2                           | 67.6                           | 68.2                           | 67.7                           | 66.2                           | 67.4                           | 67.0                           |
| 69641                         | 67.8                           | 67.2                           | 68.8                           | 67.3                           | 66.3                           | 66.7                           | 68.0                           |
| 69298                         | 68.3                           | 66.5                           | 68.7                           | 66.1                           | 67.5                           | 66.3                           | 66.7                           |
| LASB02203   92669             | 65.6                           | 65.2                           | 67.5                           | 64.9                           | 63.2                           | 64.1                           | 64.3                           |
| End Time (6.14)               | 1312                           | 1310                           | 1312                           | 1326                           | 1313                           | 1321                           | 1314                           |
| 6.14                          | WO: MZ<br>WO: CM               | WO: MZ<br>WO: CM               | WO: MZ<br>WO: CM               | WO: MZ<br>WO: <del>CM</del>    | WO: MZ<br>WO: FA               | WO: VON<br>WO: FA              | WO: VON<br>WO: FA              |

Comments: AC

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6.[18] Performed by:

|                        |                      |         |          |          |
|------------------------|----------------------|---------|----------|----------|
| MATTHEW FOLLO          | <i>Matthew Follo</i> | 1311676 | MZ       | 17-25-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-25-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW FOLLO          | <i>Matthew Follo</i> | 1311676 | MZ       | 17-26-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-26-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW FOLLO          | <i>Matthew Follo</i> | 1311676 | MZ       | 17-27-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-27-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW FOLLO          | <i>Matthew Follo</i> | 1311676 | MZ       | 17-28-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |

|                         |                         |         |          |          |
|-------------------------|-------------------------|---------|----------|----------|
| <i>Robert Alvarez</i>   | <i>Robert Alvarez</i>   | 1291221 | RA       | 10-28-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| MATTHEW FOLLO           | <i>Matthew Follo</i>    | 1311676 | MZ       | 17-29-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 174963  | FA       | 17-29-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Valerie Martinez</i> | <i>Valerie Martinez</i> | 239158  | VM       | 17-30-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 174963  | FA       | 17-30-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Valerie Martinez</i> | <i>Valerie Martinez</i> | 239158  | VM       | 17-31-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 174963  | FA       | 17-31-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |

9.1[2] Reviewed by:

| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|
|             |           |    |          |      |

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**TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE Containers marked by an (\*) are POCs.

|  | Monday<br>6/14<br>Date & Start Time:<br>7-25-16 1313  | Tuesday<br>6/14<br>Date & Start Time:<br>7-26-16 1311  | Wednesday<br>6/14<br>Date & Start Time:<br>7-27-16 1313  | Thursday<br>6/14<br>Date & Start Time:<br>7-28-16 1319   | Friday<br>6/14<br>Date & Start Time:<br>7-29-16 1305   | Saturday<br>6/14<br>Date & Start Time:<br>7-30-16 1322   | Sunday<br>6/14<br>Date & Start Time:<br>7-31-16/1305   |
|--|---|--|--|--|--|--|--|
| TA-54-0375 Cell 2                            |   |  |  |  |  |  |  |
| Calibrated infrared thermometer (4.2.112  B) | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1/28/17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> |
| Ambient Temperature (6.15)                   | <u>62.4</u> °F  | <u>61.0</u> °F   | <u>60.9</u> °F   | <u>60.2</u> °F   | <u>59.5</u> °F   | <u>59.7</u> °F   | <u>60.0</u> °F   |
| (S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.16)   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                 |
| Container ID #                               | Temp (°F)<br>(6.18/6.19/6.110)  | Temp (°F)<br>(6.18/6.19/6.110)   | Temp (°F)<br>(6.18/6.19/6.110)   | Temp (°F)<br>(6.18/6.19/6.110)   | Temp (°F)<br>(6.18/6.19/6.110)   | Temp (°F)<br>(6.18/6.19/6.110)   | Temp (°F)<br>(6.18/6.19/6.110)   |
| LASB02198   68408                            | <u>57.6</u>   | <u>58.6</u>  | <u>58.1</u>  | <u>58.0</u>  | <u>56.3</u>  | <u>57.8</u>  | <u>57.5</u>  |
| 68638  | <u>60.5</u>   | <u>60.4</u>  | <u>60.8</u>  | <u>60.5</u>  | <u>58.5</u>  | <u>59.0</u>  | <u>60.1</u>  |
| 69615  | <u>62.6</u>   | <u>63.3</u>  | <u>62.6</u>  | <u>63.3</u>  | <u>60.5</u>  | <u>61.3</u>  | <u>62.7</u>  |
| 69635  | <u>62.5</u>   | <u>62.7</u>  | <u>62.6</u>  | <u>61.4</u>  | <u>61.1</u>  | <u>60.5</u>  | <u>60.9</u>  |
| 69642  | <u>64.3</u>   | <u>65.0</u>  | <u>64.5</u>  | <u>64.4</u>  | <u>62.7</u>  | <u>62.4</u>  | <u>63.3</u>  |
| 69630  | <u>61.7</u>   | <u>62.8</u>  | <u>62.9</u>  | <u>61.7</u>  | <u>61.3</u>  | <u>61.7</u>  | <u>62.1</u>  |
| 69633  | <u>62.2</u>   | <u>62.3</u>  | <u>61.9</u>  | <u>60.1</u>  | <u>59.6</u>  | <u>60.0</u>  | <u>60.4</u>  |
| *68430*                                      | <u>63.1</u>   | <u>63.9</u>  | <u>63.2</u>  | <u>61.7</u>  | <u>60.7</u>  | <u>60.8</u>  | <u>61.8</u>  |
| 68631  | <u>62.1</u>   | <u>60.2</u>  | <u>60.5</u>  | <u>59.3</u>  | <u>58.4</u>  | <u>58.5</u>  | <u>58.8</u>  |
| 69634  | <u>57.1</u>   | <u>57.4</u>  | <u>57.4</u>  | <u>56.6</u>  | <u>57.0</u>  | <u>56.2</u>  | <u>56.2</u>  |
| 68567  | <u>60.6</u>   | <u>60.1</u>  | <u>59.0</u>  | <u>59.2</u>  | <u>57.5</u>  | <u>58.7</u>  | <u>59.2</u>  |
| 94227  | <u>60.5</u>   | <u>60.0</u>  | <u>59.6</u>  | <u>58.7</u>  | <u>59.3</u>  | <u>58.1</u>  | <u>58.5</u>  |
| LASB50442   68648                            | <u>62.4</u>   | <u>62.1</u>  | <u>62.2</u>  | <u>60.5</u>  | <u>59.7</u>  | <u>59.6</u>  | <u>60.6</u>  |
| 69644  | <u>62.7</u>   | <u>62.5</u>  | <u>62.8</u>  | <u>61.6</u>  | <u>61.6</u>  | <u>59.7</u>  | <u>59.8</u>  |
| LASB50443   69183                            | <u>62.7</u>   | <u>62.1</u>  | <u>61.9</u>  | <u>61.8</u>  | <u>60.1</u>  | <u>60.7</u>  | <u>61.0</u>  |
| 69638  | <u>62.5</u>   | <u>62.1</u>  | <u>62.1</u>  | <u>61.7</u>  | <u>60.7</u>  | <u>60.9</u>  | <u>61.2</u>  |

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7-25-16

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| Container ID #                | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                               | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| TA-54-0375 Cell 2 (continued) |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 68624                         | 62.2                              | 62.2                              | 62.1                              | 61.6                              | 60.3                              | 61.1                              | 60.8                              |
| *68507*                       | 63.2                              | 63.3                              | 63.3                              | 62.3                              | 60.5                              | 61.7                              | 61.7                              |
| 69568                         | 60.7                              | 59.9                              | 59.5                              | 59.3                              | 59.0                              | 58.7                              | 59.4                              |
| 69553                         | 60.0                              | 59.3                              | 59.6                              | 59.2                              | 59.7                              | 58.3                              | 59.6                              |
| *69598*                       | 61.0                              | 60.3                              | 58.3                              | 59.4                              | 58.5                              | 59.1                              | 58.9                              |
| LASB50559                     | 92472                             | 59.9                              | 59.0                              | 57.7                              | 56.7                              | 57.9                              | 57.8                              |
|                               | 92459                             | 60.2                              | 57.5                              | 57.9                              | 55.9                              | 55.7                              | 56.7                              |
| *69015*                       | 63.1                              | 63.0                              | 62.8                              | 62.3                              | 61.7                              | 61.2                              | 62.1                              |
| 69639                         | 61.3                              | 62.9                              | 62.7                              | 63.3                              | 61.8                              | 61.1                              | 61.2                              |
| 69637                         | 62.5                              | 62.4                              | 62.1                              | 61.5                              | 60.3                              | 61.2                              | 62.3                              |
| End Time (6.[14])             | 1318                              | 1314                              | 1316                              | 1322                              | 1309                              | 1327                              | 1309                              |
| 6.[14]                        | WO: <u>MZ</u>                     | WO: <u>MZ</u>                     | WO: <u>MZ</u>                     | WO: <u>MZ</u>                     | WO: <u>MZ</u>                     | WO: <u>VOM</u>                    | WO: <u>VOM</u>                    |
|                               | WO: <u>LM</u>                     | WO: <u>LM</u>                     | WO: <u>LM</u>                     | WO: <u>LM</u>                     | WO: <u>FA</u>                     | WO: <u>FA</u>                     | WO: <u>FA</u>                     |

Comments: NC

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6.[18] Performed by:

|                        |           |         |          |          |
|------------------------|-----------|---------|----------|----------|
| MATTHEW ZUCCO          |           | 1311676 | MZ       | 17-25-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| LEON MONTEYA           |           | 191526  | LM       | 17-25-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| MATTHEW ZUCCO          |           | 1311676 | MZ       | 17-26-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| LEON MONTEYA           |           | 191526  | LM       | 17-26-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| MATTHEW ZUCCO          |           | 1311676 | MZ       | 17-27-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| LEON MONTEYA           |           | 191526  | LM       | 17-27-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| MATTHEW ZUCCO          |           | 1311676 | MZ       | 17-28-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |

|                        |           |         |          |          |
|------------------------|-----------|---------|----------|----------|
| Robert HAYES           |           | 1029178 | RH       | 10-28-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| MATTHEW ZUCCO          |           | 1311676 | MZ       | 17-29-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Fabian Anaya           |           | 174961  | FA       | 17-29-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Valerie Martinez       |           | 239958  | VM       | 7-30-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Fabian Anaya           |           | 174961  | FA       | 17-30-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Valerie Martinez       |           | 239958  | VM       | 7-31-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Fabian Anaya           |           | 174961  | FA       | 17-31-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |

9.1[2] Reviewed by:

|             |  |    |          |      |
|-------------|--|----|----------|------|
| SOM (print) |  | Z# | Initials | Date |
|-------------|--|----|----------|------|

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**TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

**NOTE** Containers marked by an (\*) are POCs.

|   | Monday<br>6/4<br>Date & Start Time<br>7-25-16 1319   | Tuesday<br>6/4<br>Date & Start Time<br>7-26-16 1315   | Wednesday<br>6/4<br>Date & Start Time<br>7-27-16 1317   | Thursday<br>6/4<br>Date & Start Time<br>7-28-16 1310  | Friday<br>6/4<br>Date & Start Time<br>7-29-16 1301  | Saturday<br>6/4<br>Date & Start Time<br>7-30-16 1328   | Sunday<br>6/4<br>Date & Start Time<br>7-31-16/1300   |
|---|--|---|---|---|---|--|--|
| <b>TA-54-0375 Cell 3</b>                                      |  |   |   |   |   |  |  |
| Calibrated infrared thermometer<br>(4.2.1[2][B])              | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1/28/17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1/28/17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1/28/17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1/28/17</u><br>File Number: <u>104841</u> | Brand: <u>Fluke</u><br>Model: <u>51el</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>Fluke</u><br>Model: <u>51el</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> |
| Ambient Temperature<br>(6.5)                                  | <u>67.1</u> °F   | <u>66.7</u> °F  | <u>66.0</u> °F  | <u>66.9</u> °F  | <u>65.6</u> °F  | <u>65.7</u> °F   | <u>66.4</u> °F   |
| (S) Temperature $\leq 75^\circ\text{F}$<br>SR 4.ESS.5.1 (6.6) | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   |
| Container ID #  | Temp (°F)<br>(6.8 6.9 6.10)  | Temp (°F)<br>(6.8 6.9 6.10)   | Temp (°F)<br>(6.8 6.9 6.10)   | Temp (°F)<br>(6.8 6.9 6.10)   | Temp (°F)<br>(6.8 6.9 6.10)   | Temp (°F)<br>(6.8 6.9 6.10)  | Temp (°F)<br>(6.8 6.9 6.10)  |
| *69519*   | <u>66.2</u>  | <u>64.0</u>   | <u>64.5</u>   | <u>65.2</u>   | <u>65.6</u>   | <u>65.8</u>  | <u>64.3</u>  |
| 69645   | <u>62.5</u>  | <u>61.8</u>   | <u>62.5</u>   | <u>61.6</u>   | <u>61.6</u>   | <u>60.7</u>  | <u>61.1</u>  |
| 94068   | <u>65.7</u>  | <u>63.6</u>   | <u>63.6</u>   | <u>64.0</u>   | <u>62.3</u>   | <u>63.8</u>  | <u>63.7</u>  |
| 93605   | <u>66.2</u>  | <u>65.5</u>   | <u>65.2</u>   | <u>64.7</u>   | <u>63.2</u>   | <u>63.9</u>  | <u>63.8</u>  |
| 69548   | <u>67.1</u>  | <u>65.6</u>   | <u>66.0</u>   | <u>65.5</u>   | <u>63.0</u>   | <u>64.5</u>  | <u>65.4</u>  |
| *69604*   | <u>66.7</u>  | <u>65.6</u>   | <u>66.1</u>   | <u>65.3</u>   | <u>63.8</u>   | <u>64.1</u>  | <u>64.1</u>  |
| LASB50529   68665   | <u>64.6</u>  | <u>63.4</u>   | <u>63.4</u>   | <u>63.9</u>   | <u>62.4</u>   | <u>61.3</u>  | <u>62.9</u>  |
| LASB50418   69595   | <u>65.8</u>  | <u>65.3</u>   | <u>64.8</u>   | <u>63.7</u>   | <u>62.7</u>   | <u>63.6</u>  | <u>63.8</u>  |
| 69036   | <u>65.4</u>  | <u>64.4</u>   | <u>65.0</u>   | <u>65.7</u>   | <u>63.6</u>   | <u>64.0</u>  | <u>64.3</u>  |
| LASB50451   69361   | <u>64.8</u>  | <u>64.9</u>   | <u>64.7</u>   | <u>65.2</u>   | <u>63.7</u>   | <u>64.5</u>  | <u>63.9</u>  |
| 69559   | <u>66.0</u>  | <u>65.0</u>   | <u>64.9</u>   | <u>65.7</u>   | <u>63.3</u>   | <u>64.7</u>  | <u>63.4</u>  |
| LASB50448   69491   | <u>67.8</u>  | <u>66.0</u>   | <u>65.5</u>   | <u>64.9</u>   | <u>63.8</u>   | <u>63.9</u>  | <u>64.5</u>  |

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DATE 7-25-16



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| Container ID #                | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TA-54-0375 Cell 3 (continued) |                                   |                                   |                                   |                                    |                                   |                                   |                                   |
| *87827*                       | 67.9                              | 66.9                              | 67.4                              | 66.7                               | 64.4                              | 66.0                              | 64.5                              |
| *87826*                       | 67.5                              | 67.7                              | 69.0                              | 65.9                               | 64.7                              | 65.5                              | 66.8                              |
| *87823*                       | 68.5                              | 67.3                              | 65.8                              | 66.6                               | 64.6                              | 66.3                              | 66.0                              |
| *87825*                       | 70.0                              | 68.6                              | 66.8                              | 67.1                               | 65.3                              | 66.5                              | 67.4                              |
| End Time<br>(6.[14])          | 1322                              | 1317                              | 1320                              | 1315                               | 1304                              | 1336                              | 1304                              |
| 6.[14]                        | WO: <u>MZ</u><br>WO: <u>CM</u>    | WO: <u>MZ</u><br>WO: <u>CM</u>    | WO: <u>MZ</u><br>WO: <u>CM</u>    | WO: <u>MZ</u><br>WO: <del>CM</del> | WO: <u>MZ</u><br>WO: <u>FA</u>    | WO: <u>VON</u><br>WO: <u>FA</u>   | WO: <u>VON</u><br>WO: <u>FA</u>   |

Comments: NC

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6.[18] Performed by:

|                        |                      |         |          |          |
|------------------------|----------------------|---------|----------|----------|
| MATTHEW ZOLLO          | <i>Matthew Zollo</i> | 1311676 | MZ       | 17-25-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-25-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW ZOLLO          | <i>Matthew Zollo</i> | 1311676 | MZ       | 17-26-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-26-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW ZOLLO          | <i>Matthew Zollo</i> | 1311676 | MZ       | 17-27-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| <i>Leon Montoya</i>    | <i>Leon Montoya</i>  | 191526  | LM       | 17-27-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
| MATTHEW ZOLLO          | <i>Matthew Zollo</i> | 1311676 | MZ       | 17-28-16 |
| Waste Operator (print) | Signature            | Z#      | Initials | Date     |

|                         |                         |         |          |          |
|-------------------------|-------------------------|---------|----------|----------|
| <i>Robert Hausel</i>    | <i>Robert Hausel</i>    | 291781  | RH       | 07-29-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| MATTHEW ZOLLO           | <i>Matthew Zollo</i>    | 1311676 | MZ       | 17-29-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 124963  | FA       | 17-29-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Valerie Martinez</i> | <i>Valerie Martinez</i> | 239958  | VM       | 7-30-16  |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 124963  | FA       | 17-30-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Valerie Martinez</i> | <i>Valerie Martinez</i> | 239958  | VM       | 7/31/16  |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |
| <i>Fabian Anaya</i>     | <i>Fabian Anaya</i>     | 124963  | FA       | 17-31-16 |
| Waste Operator (print)  | Signature               | Z#      | Initials | Date     |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|

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**ATTACHMENT 2**

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**TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE SWB drum 6941 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time<br>8-01-16 / 1319  | Tuesday<br>6.[4]<br>Date & Start Time<br>8-2-16 / 1319  | Wednesday<br>6.[4]<br>Date & Start Time<br>8/3/16 1322  | Thursday<br>6.[4]<br>Date & Start Time<br>8-4-16 1324   | Friday<br>6.[4]<br>Date & Start Time<br>8-5-16 1303   | Saturday<br>6.[4]<br>Date & Start Time<br>8-6-16 / 1300<br><sup>1300</sup><br><del>1300</del><br>2770001<br>8-6-16 | Sunday<br>6.[4]<br>Date & Start Time<br>8-7-16 / 1300   |
|--|---|---|---|---|---|--|---|
| TA-54-0375 Cell 1                              |   |   |   |   |   |  |   |
| Calibrated infrared thermometer (4.2.1)(2)(B)) | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10/21/16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u>            | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> |
| Ambient Temperature (6.[5])                    | <u>70.2</u> °F  | <u>70.1</u> °F  | <u>69.1</u> °F  | <u>69.1</u> °F  | <u>69.9</u> °F  | <u>67.7</u> °F   | <u>69.3</u> °F  |
| (S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])    | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  |
| Container ID #                                 | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |
| 68685  | <u>75.7</u>   | <u>74.0</u>   | <u>70.9</u>   | <u>68.5</u>   | <u>69.0</u>   | <u>67.8</u>  | <u>70.1</u>   |
| LA00000070503                                  | 68540 <u>69.9</u>   | <u>71.7</u>   | <u>69.7</u>   | <u>69.4</u>   | <u>70.6</u>   | <u>68.1</u>  | <u>70.0</u>   |
|  | 68553 <u>69.8</u>   | <u>69.4</u>   | <u>69.5</u>   | <u>69.5</u>   | <u>70.1</u>   | <u>67.8</u>  | <u>69.8</u>   |
| 69445  | <u>70.8</u>   | <u>71.3</u>   | <u>70.6</u>   | <u>69.6</u>   | <u>70.7</u>   | <u>68.5</u>  | <u>70.2</u>   |
| 69618  | <u>69.9</u>   | <u>68.9</u>   | <u>67.4</u>   | <u>68.9</u>   | <u>70.3</u>   | <u>67.3</u>  | <u>68.9</u>   |
| *69013*  | <u>68.7</u>   | <u>69.9</u>   | <u>69.9</u>   | <u>69.7</u>   | <u>70.2</u>   | <u>68.7</u>  | <u>70.3</u>   |
| LASB50522 69076                                | <u>68.8</u>   | <u>68.5</u>   | <u>67.1</u>   | <u>68.3</u>   | <u>69.1</u>   | <u>67.3</u>  | <u>69.4</u>   |
| LASB50452 69490                                | <u>68.1</u>   | <u>68.3</u>   | <u>66.5</u>   | <u>68.2</u>   | <u>68.6</u>   | <u>67.9</u>  | <u>69.3</u>   |
| LASB50431 69280                                | <u>68.3</u>   | <u>67.7</u>   | <u>66.3</u>   | <u>68.3</u>   | <u>68.1</u>   | <u>67.3</u>  | <u>68.2</u>   |
| LASB50069 69208                                | <u>68.6</u>   | <u>67.6</u>   | <u>66.8</u>   | <u>66.4</u>   | <u>68.7</u>   | <u>67.0</u>  | <u>68.1</u>   |
| LASB50073 69079                                | <u>68.2</u>   | <u>67.8</u>   | <u>67.4</u>   | <u>68.0</u>   | <u>67.9</u>   | <u>66.9</u>  | <u>68.6</u>   |
| 69636  | <u>69.9</u>   | <u>68.3</u>   | <u>66.7</u>   | <u>68.4</u>   | <u>67.9</u>   | <u>66.2</u>  | <u>70.4</u>   |

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DATE 8/01/16

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| Container ID #                | Monday                          | Tuesday                        | Wednesday                      | Thursday                       | Friday                         | Saturday                              | Sunday                         |
|-------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------|--------------------------------|
|                               | Temp (°F)<br>(6.8]/6.9]/6.10])  | Temp (°F)<br>(6.8]/6.9]/6.10]) | Temp (°F)<br>(6.8]/6.9]/6.10]) | Temp (°F)<br>(6.8]/6.9]/6.10]) | Temp (°F)<br>(6.8]/6.9]/6.10]) | Temp (°F)<br>(6.8]/6.9]/6.10])        | Temp (°F)<br>(6.8]/6.9]/6.10]) |
| TA-54-0375 Cell I (continued) |                                 |                                |                                |                                |                                |                                       |                                |
| 69616                         | 70.2                            | 68.4                           | 66.8                           | 67.7                           | 68.2                           | 67.1                                  | 68.6                           |
| 69417                         | N/A                             | N/A                            | N/A                            | N/A                            | N/A                            | N/A                                   | N/A                            |
| 69620                         | 68.9                            | 68.6                           | 69.4                           | 68.3                           | 68.4                           | 67.3                                  | 69.1                           |
| *69520*                       | 68.5                            | 67.4                           | 67.3                           | 69.0                           | 68.5                           | 67.0                                  | 69.4                           |
| 69641                         | 68.2                            | 68.4                           | 67.2                           | 68.2                           | 68.7                           | 66.6                                  | 68.1                           |
| 69298                         | 67.4                            | 67.5                           | 66.9                           | 67.8                           | 68.1                           | 66.6                                  | 69.1                           |
| LASB02203   92669             | 66.5                            | 66.9                           | 65.7                           | 66.8                           | 67.6                           | 65.9                                  | 67.6                           |
| End Time (6.14)               | 1302                            | 1324                           | 1330                           | 1327                           | 1315                           | FP 8-6-16<br>1302                     | 1305                           |
| 6.14                          | WO: <u>Von</u><br>WO: <u>km</u> | WO: <u>EP</u><br>WO: <u>FA</u> | WO: <u>MZ</u><br>WO: <u>FA</u> | WO: <u>MZ</u><br>WO: <u>e</u>  | WO: <u>MZ</u><br>WO: <u>e</u>  | WO: <u>EP 8-6-16</u><br>WO: <u>km</u> | WO: <u>EP</u><br>WO: <u>t</u>  |

Comments:

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6.1[18] Performed by:

|                        |           |         |          |         |
|------------------------|-----------|---------|----------|---------|
| Valerie Martinez       |           | 053558  | VM       | 8/01/16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| Leon Montoya           |           | V91526  | LM       | 8-1-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| Edward Pacheco         |           | 100497  | EP       | 8-2-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| Fabian Araya           |           | 174963  | FA       | 8-2-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| MATTHEW ZOCCO          |           | 1311676 | MZ       | 8-3-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| Fabian Araya           |           | 174963  | FA       | 8-3-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |
| MATTHEW ZOCCO          |           | 1311676 | MZ       | 8-4-16  |
| Waste Operator (print) | Signature | Z#      | Initials | Date    |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Leon Montoya           |           | V91526 | LM       | 8-4-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

|                        |           |         |          |        |
|------------------------|-----------|---------|----------|--------|
| MATTHEW ZOCCO          |           | 1311676 | MZ       | 8-5-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date   |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Leon Montoya           |           | V91526 | LM       | 8-5-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Edward Pacheco         |           | 100497 | EP       | 8-6-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Leon Montoya           |           | V91526 | LM       | 8-8-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Edward Pacheco         |           | 100497 | EP       | 8-7-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

|                        |           |        |          |        |
|------------------------|-----------|--------|----------|--------|
| Leon Montoya           |           | V91526 | LM       | 8-7-16 |
| Waste Operator (print) | Signature | Z#     | Initials | Date   |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|

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**ATTACHMENT 3**

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**TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE Containers marked by an (\*) are POCs.

|   |         | Monday<br>6.[4]<br>Date & Start Time:<br>8-01-16 / 1323   | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-2-16 / 1315   | Wednesday<br>6.[4]<br>Date & Start Time:<br>8/3/16 1323  | Thursday<br>6.[4]<br>Date & Start Time:<br>8-4-16 1319   | Friday<br>6.[4]<br>Date & Start Time:<br>8-5-16 1309   | Saturday<br>6.[4]<br>Date & Start Time:<br>8-6-16 1304   | Sunday<br>6.[4]<br>Date & Start Time:<br>8-7-16 / 1306   |
|---|---------|---|---|--|--|--|--|--|
| TA-54-0375 Cell 2                                 |         |   |   |  |  |  |  |  |
| Calibrated infrared thermometer<br>(4.2.1)(2)(B)) |         | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>10-21-16</u><br>File Number <u>101912</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>10-21-16</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> |
| Ambient Temperature<br>(6.15))                    |         | <u>62.2</u> °F  | <u>60.8</u> °F  | <u>63.5</u> °F   | <u>63.6</u> °F   | <u>63.0</u> °F   | <u>60.7</u> °F   | <u>61.7</u> °F   |
| (S) Temperature ≤ 75°F<br>SR 4 ESS 5 1 (6.16))    |         | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             |
| Container ID #                                    |         | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  |
| LASB02198   | 68408   | <u>61.0</u>   | <u>58.4</u>   | <u>62.1</u>  | <u>60.3</u>  | <u>59.3</u>  | <u>58.7</u>  | <u>57.9</u>  |
|   | 68638   | <u>62.2</u>   | <u>60.6</u>   | <u>63.5</u>  | <u>63.5</u>  | <u>62.6</u>  | <u>59.5</u>  | <u>61.3</u>  |
|   | 69615   | <u>64.2</u>   | <u>63.9</u>   | <u>64.4</u>  | <u>64.7</u>  | <u>65.3</u>  | <u>63.0</u>  | <u>64.1</u>  |
|   | 69635   | <u>63.9</u>   | <u>62.5</u>   | <u>64.4</u>  | <u>64.6</u>  | <u>65.2</u>  | <u>62.9</u>  | <u>64.9</u>  |
|   | 69642   | <u>66.0</u>   | <u>64.8</u>   | <u>65.3</u>  | <u>65.4</u>  | <u>65.4</u>  | <u>64.0</u>  | <u>65.8</u>  |
|   | 69630   | <u>62.9</u>   | <u>63.7</u>   | <u>64.3</u>  | <u>64.4</u>  | <u>64.1</u>  | <u>61.7</u>  | <u>62.8</u>  |
|   | 69633   | <u>63.0</u>   | <u>61.6</u>   | <u>62.9</u>  | <u>64.2</u>  | <u>64.0</u>  | <u>61.9</u>  | <u>63.8</u>  |
|   | *68430* | <u>63.6</u>   | <u>63.4</u>   | <u>63.7</u>  | <u>64.7</u>  | <u>65.5</u>  | <u>63.5</u>  | <u>64.4</u>  |
|   | 68631   | <u>61.2</u>   | <u>60.5</u>   | <u>61.9</u>  | <u>62.5</u>  | <u>62.3</u>  | <u>59.8</u>  | <u>61.6</u>  |
|   | 69634   | <u>59.0</u>   | <u>57.9</u>   | <u>62.1</u>  | <u>60.9</u>  | <u>58.7</u>  | <u>57.2</u>  | <u>60.3</u>  |
|   | 68567   | <u>66.0</u>   | <u>60.9</u>   | <u>62.6</u>  | <u>61.2</u>  | <u>60.6</u>  | <u>57.8</u>  | <u>60.8</u>  |
|   | 94227   | <u>62.1</u>   | <u>62.4</u>   | <u>62.1</u>  | <u>63.5</u> <sup>8-4-16</sup>  | <u>62.1</u>  | <u>59.2</u>  | <u>63.1</u> <sup>8-7-16</sup>  |
| LASB50442   | 68648   | <u>62.8</u>   | <u>62.4</u>   | <u>63.4</u>  | <u>63.7</u> <sup>8-4-16</sup>  | <u>64.0</u>  | <u>60.4</u>  | <u>62.7</u> <sup>8-7-16</sup>  |
|   | 69644   | <u>63.10</u>  | <u>61.8</u>   | <u>63.7</u>  | <u>64.0</u> <sup>8-4-16</sup>  | <u>63.8</u>  | <u>60.4</u>  | <u>63.0</u>  |
| LASB50443   | 69183   | <u>63.1</u>   | <u>62.8</u>   | <u>63.4</u>  | <u>64.0</u>  | <u>64.1</u>  | <u>61.5</u>  | <u>63.7</u>  |
|   | 69638   | <u>62.8</u>   | <u>62.6</u>   | <u>63.7</u>  | <u>64.1</u>  | <u>64.0</u>  | <u>61.7</u>  | <u>63.7</u>  |

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 INITIAL ron DATE 8/01/16

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| Container ID #                | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                               | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| TA-54-0375 Cell 2 (continued) |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 68624                         | 63.5                              | 62.9                              | 63.6                              | 63.9                              | 63.3                              | 61.3                              | 64.3                              |
| *68507*                       | 63.7                              | 63.2                              | 64.7                              | 64.7                              | 64.2                              | 61.8                              | 64.0                              |
| 69568                         | 60.1                              | 60.7                              | 63.6                              | 62.8                              | 62.0                              | 69.4                              | 61.1                              |
| 69553                         | 60.5                              | 60.4                              | 62.9                              | 62.6                              | 63.4                              | 59.1                              | 59.6                              |
| *69598*                       | 60.5                              | 61.6                              | 62.7                              | 62.1                              | 61.4                              | 60.1                              | 61.1                              |
| LASB50559                     | 92472                             | 60.0                              | 59.8                              | 62.5                              | 62.0                              | 60.8                              | 58.0                              |
|                               | 92459                             | 60.3                              | 58.5                              | 61.2                              | 60.0                              | 64.1                              | 56.5                              |
| *69015*                       | 63.7                              | 62.4                              | 63.5                              | 65.1                              | 63.9                              | 62.8                              | 63.4                              |
| 69639                         | 63.4                              | 62.9                              | 63.4                              | 64.2                              | 64.0                              | 62.3                              | 63.2                              |
| 69637                         | 63.5                              | 63.7                              | 63.6                              | 63.8                              | 64.1                              | 62.4                              | 61.9                              |
| End Time (6.[14])             | 1326                              | 1318                              | 1327                              | 1323                              | 1311                              | 1307                              | 1310                              |
| 6[14]                         | WO: <u>MM</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>FA</u>    | WO: <u>MZ</u><br>WO: <u>LM</u>    | WO: <u>MZ</u><br>WO: <u>LM</u>    | WO: <u>MZ</u><br>WO: <u>LM</u>    | WO: <u>ED</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    |

Comments:

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6.[18] Performed by:

|                        |                  |         |          |         |
|------------------------|------------------|---------|----------|---------|
| Valerie Martinez       | Valerie Martinez | 1239958 | VM       | 8/01/16 |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Leon Montoya           | Leon Montoya     | 191526  | LM       | 8-1-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Edward Pacheco         | Edward Pacheco   | 100447  | EP       | 8-2-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Fabian Araya           | Fabian Araya     | 1174963 | FA       | 8-2-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| MATTHEW ZOLLO          | Matthew Zollo    | 1311676 | MZ       | 8-3-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Leon Montoya           | Leon Montoya     | 191526  | LM       | 8-3-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| MATTHEW ZOLLO          | Matthew Zollo    | 1311676 | MZ       | 8-4-16  |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |

|                        |                |         |          |        |
|------------------------|----------------|---------|----------|--------|
| Leon Montoya           | Leon Montoya   | 191526  | LM       | 8-4-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| MATTHEW ZOLLO          | Matthew Zollo  | 1311676 | MZ       | 8-5-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| Leon Montoya           | Leon Montoya   | 191526  | LM       | 8-5-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| Edward Pacheco         | Edward Pacheco | 100447  | EP       | 8-6-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| Leon Montoya           | Leon Montoya   | 191526  | LM       | 8-6-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| Edward Pacheco         | Edward Pacheco | 100447  | EP       | 8-7-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |
| Leon Montoya           | Leon Montoya   | 191526  | LM       | 8-7-16 |
| Waste Operator (print) | Signature      | Z#      | Initials | Date   |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|



TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

Document No.: AREAG-WO-DOP-124c  
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 Effective Date: July 15, 2016  
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**ATTACHMENT 4**

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**TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE Containers marked by an (\*) are POC's.

|  | Monday<br>6.[4]<br>Date & Start Time<br>8-01-16/1327  | Tuesday<br>6.[4]<br>Date & Start Time<br>8-2-16/1310  | Wednesday<br>6.[4]<br>Date & Start Time<br>8/3/16 1318  | Thursday<br>6.[4]<br>Date & Start Time<br>8-4-16 1315   | Friday<br>6.[4]<br>Date & Start Time<br>8-5-16 1303   | Saturday<br>6.[4]<br>Date & Start Time<br>8-6-16-1309   | Sunday<br>6.[4]<br>Date & Start Time<br>8-7-16/1311   |
|--|---|---|---|---|---|---|---|
| <b>TA-54-0375 Cell 3</b>                         |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal. Due Date <u>1/28/17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>Fluke</u><br>Model <u>561</u><br>Cal. Due Date <u>1-28-17</u><br>File Number <u>104841</u> |
| Ambient Temperature<br>(6.[5])                   | <u>66.9</u> °F  | <u>66.9</u> °F  | <u>66.3</u> °F  | <u>68.2</u> °F  | <u>68.5</u> °F  | <u>65.7</u> °F  | <u>65.6</u> °F  |
| (S) Temperature ≤ 75°F<br>SR-LESS.5.1 (6.[6])    | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                              |
| Container ID #                                   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |
| *69519*  | <u>64.8</u>   | <u>64.8</u>   | <u>65.1</u>   | <u>66.6</u>   | <u>65.3</u>   | <u>63.6</u>   | <u>64.2</u>   |
| 69645  | <u>63.0</u>   | <u>62.8</u>   | <u>62.7</u>   | <u>64.1</u>   | <u>63.9</u>   | <u>60.5</u>   | <u>62.2</u>   |
| 94068  | <u>65.2</u>   | <u>65.0</u>   | <u>64.2</u>   | <u>65.8</u>   | <u>65.2</u>   | <u>63.0</u>   | <u>65.1</u>   |
| 93605  | <u>66.0</u>   | <u>65.3</u>   | <u>65.4</u>   | <u>66.2</u>   | <u>66.4</u>   | <u>63.8</u>   | <u>66.0</u>   |
| 69548  | <u>65.7</u>   | <u>65.7</u>   | <u>65.6</u>   | <u>68.2</u>   | <u>66.1</u>   | <u>64.2</u>   | <u>66.5</u>   |
| *69604*  | <u>66.4</u>   | <u>66.5</u>   | <u>65.6</u>   | <u>67.2</u>   | <u>66.6</u>   | <u>63.2</u>   | <u>65.9</u>   |
| LASB50529 68665                                  | <u>63.6</u>   | <u>63.1</u>   | <u>65.6</u>   | <u>65.4</u>   | <u>64.4</u>   | <u>61.2</u>   | <u>63.4</u>   |
| LASB50418 69595                                  | <u>65.3</u>   | <u>64.4</u>   | <u>65.2</u>   | <u>66.0</u>   | <u>65.4</u>   | <u>63.9</u>   | <u>65.0</u>   |
| 69036  | <u>65.7</u>   | <u>64.9</u>   | <u>65.9</u>   | <u>67.0</u>   | <u>66.6</u>   | <u>64.3</u>   | <u>65.1</u>   |
| LASB50451 69361                                  | <u>66.5</u>   | <u>66.0</u>   | <u>65.9</u>   | <u>66.4</u>   | <u>67.0</u>   | <u>64.9</u>   | <u>65.9</u>   |
| 69559  | <u>65.6</u>   | <u>64.9</u>   | <u>65.4</u>   | <u>67.3</u>   | <u>66.0</u>   | <u>64.4</u>   | <u>65.7</u>   |
| LASB50448 69491                                  | <u>65.4</u>   | <u>65.3</u>   | <u>65.6</u>   | <u>67.3</u>   | <u>66.4</u>   | <u>64.7</u>   | <u>66.7</u>   |

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Z# 239958

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DATE 8/01/16

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| Container ID #                | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) | Temp (°F)<br>(6 [8]/6 [9]/6 [10]) |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TA-54-0375 Cell 3 (continued) |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *87827*                       | 68.0                              | 66.7                              | 66.6                              | 68.9                              | 67.8                              | 66.8                              | 67.9                              |
| *87826*                       | 66.8                              | 67.4                              | 66.8                              | 68.3                              | 67.9                              | 65.2                              | 67.6                              |
| *87823*                       | 67.6                              | 67.8                              | 66.7                              | 69.4                              | 67.7                              | 66.3                              | 68.0                              |
| *87825*                       | 68.3                              | 68.1                              | 68.8                              | 70.5                              | 69.8                              | 66.9                              | 68.9                              |
| End Time<br>(6 [14])          | 1329                              | 1314                              | 1322                              | 1318                              | 1308                              | 1313                              | 1316                              |
| 6 [14]                        | WO: <u>Vron</u><br>WO: <u>LM</u>  | WO: <u>EP</u><br>WO: <u>FA</u>    | WO: <u>ME</u><br>WO: <u>LM</u>    | WO: <u>ME</u><br>WO: <u>LM</u>    | WO: <u>ME</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    | WO: <u>EP</u><br>WO: <u>LM</u>    |

Comments:

N/C Rm 8-3-16-

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**ATTACHMENT 4**

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6.1[8] Performed by:

|                        |                         |           |          |        |
|------------------------|-------------------------|-----------|----------|--------|
| Valerie Martinez       | <i>Valerie Martinez</i> | 559958    | VOM      | 8/6/16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526    | LM       | 8-1-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| Edward Pacheco         | <i>Edward Pacheco</i>   | 100447    | EP       | 8-2-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| Fabian Avaya           | <i>Fabian Avaya</i>     | 117491031 | FA       | 8-2-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| MATTHEW ZOCCO          | <i>Matthew Zocco</i>    | 1311676   | MZ       | 8-3-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| Leon Montoya           | <i>Leon Montoya</i>     | 191526    | LM       | 8-3-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |
| MATTHEW ZOCCO          | <i>Matthew Zocco</i>    | 1311676   | MZ       | 8-4-16 |
| Waste Operator (print) | Signature               | Z#        | Initials | Date   |

|                        |                       |         |          |        |
|------------------------|-----------------------|---------|----------|--------|
| Leon Montoya           | <i>Leon Montoya</i>   | 191526  | LM       | 8-4-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| MATTHEW ZOCCO          | <i>Matthew Zocco</i>  | 1311676 | MZ       | 8-5-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| Leon Montoya           | <i>Leon Montoya</i>   | 191526  | LM       | 8-5-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| Edward Pacheco         | <i>Edward Pacheco</i> | 100447  | EP       | 8-6-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| Leon Montoya           | <i>Leon Montoya</i>   | 191526  | LM       | 8-6-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| Edward Pacheco         | <i>Edward Pacheco</i> | 100447  | EP       | 8-7-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |
| Leon Montoya           | <i>Leon Montoya</i>   | 191526  | LM       | 8-7-16 |
| Waste Operator (print) | Signature             | Z#      | Initials | Date   |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|

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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE SWB/drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time:<br>8-8-16/1339   | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-9-16/1323  | Wednesday<br>6.[4]<br>Date & Start Time:<br>8-10-16/1348   | Thursday<br>6.[4]<br>Date & Start Time:<br>8-11-16/1325  | Friday<br>6.[4]<br>Date & Start Time:<br>8-12-16/1312  | Saturday<br>6.[4]<br>Date & Start Time:<br>8-13-16/1311  | Sunday<br>6.[4]<br>Date & Start Time:<br>8-14-16/1311  |
|--|--|--|--|--|--|--|--|
| TA-54-0375 Cell 1                                |  |  |  |  |  |  |  |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>10-21-16</u><br>File Number: <u>101912</u> |
| Ambient Temperature<br>(6.[5])                   | <u>65.0</u> °F   | <u>70.0</u> °F   | <u>66.9</u> °F   | <u>68.8</u> °F   | <u>67.4</u> °F   | <u>66.0</u> °F   | <u>63.6</u> °F   |
| (S) Temperature ≤ 75°F<br>SR 4.ESS.5.1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                   |
| Container ID #<br>(6.[8]/6.[9]/6.[10])           | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  |
| 68685  | <u>66.2</u>  | <u>69.5</u>  | <u>66.3</u>  | <u>70.2</u>  | <u>67.0</u>  | <u>65.3</u>  | <u>64.0</u>  |
| LA00000070503                                    | 68540 <u>66.0</u>  | <u>69.4</u>  | <u>66.0</u>  | <u>68.7</u>  | <u>68.5</u>  | <u>65.4</u>  | <u>62.5</u>  |
|  | 68553 <u>65.8</u>  | <u>69.0</u>  | <u>66.2</u>  | <u>68.6</u>  | <u>67.0</u>  | <u>65.8</u>  | <u>62.9</u>  |
| 69445  | <u>66.5</u>  | <u>69.5</u>  | <u>66.7</u>  | <u>68.1</u>  | <u>67.2</u>  | <u>64.9</u>  | <u>63.3</u>  |
| 69618  | <u>65.6</u>  | <u>68.7</u>  | <u>66.5</u>  | <u>68.7</u>  | <u>66.9</u>  | <u>66.9</u>  | <u>62.5</u>  |
| *69013*  | <u>65.8</u>  | <u>70.4</u>  | <u>67.7</u>  | <u>69.6</u>  | <u>68.4</u>  | <u>65.7</u>  | <u>63.1</u>  |
| LASB50522 69076                                  | <u>64.9</u>  | <u>69.2</u>  | <u>66.2</u>  | <u>69.8</u>  | <u>66.6</u>  | <u>66.0</u>  | <u>62.8</u>  |
| LASB50452 69490                                  | <u>63.8</u>  | <u>68.5</u>  | <u>66.8</u>  | <u>68.6</u>  | <u>65.9</u>  | <u>63.4</u>  | <u>62.1</u>  |
| LASB50431 69280                                  | <u>62.8</u>  | <u>68.4</u>  | <u>65.8</u>  | <u>68.2</u>  | <u>66.8</u>  | <u>64.8</u>  | <u>61.7</u>  |
| LASB50069 69208                                  | <u>63.6</u>  | <u>67.3</u>  | <u>65.0</u>  | <u>67.2</u>  | <u>65.3</u>  | <u>63.5</u>  | <u>62.3</u>  |
| LASB50073 69079                                  | <u>64.7</u>  | <u>67.9</u>  | <u>65.0</u>  | <u>67.3</u>  | <u>66.0</u>  | <u>65.0</u>  | <u>62.1</u>  |
| 69636  | <u>64.0</u>  | <u>68.3</u>  | <u>65.3</u>  | <u>67.4</u>  | <u>67.0</u>  | <u>64.3</u>  | <u>61.9</u>  |

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Z# 100497

INITIAL FP DATE 8-8-16

TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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| Container ID #                | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                               | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| TA-54-0375 Cell 1 (continued) |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 69616                         | 64.5                              | 68.5                              | 65.0                              | 68.0                              | 67.1                              | 64.5                              | 62.9                              |
| 69417                         | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               |
| 69620                         | 65.1                              | 68.6                              | 67.4                              | 68.3                              | 67.5                              | 64.6                              | 62.4                              |
| *69520*                       | 65.5                              | 68.1                              | 65.8                              | 67.9                              | 67.8                              | 64.8                              | 62.7                              |
| 69641                         | 65.1                              | 68.6                              | 65.9                              | 67.8                              | 65.7                              | 64.0                              | 62.0                              |
| 69298                         | 64.4                              | 67.3                              | 65.5                              | 67.3                              | 66.2                              | 65.0                              | 62.3                              |
| LASB02203   92669             | 63.0                              | 66.9                              | 64.0                              | 66.1                              | 64.8                              | 62.9                              | 61.0                              |
| End Time (6.[14])             | 1342                              | 1331                              | 1354                              | 1329                              | 1316                              | 1315                              | 1315                              |
| 6.[14]                        | WO: MZ<br>WO: FA                  | WO: FA<br>WO: CM                  | WO: VON<br>WO: FA                 | WO: CM<br>WO: CM                  | WO: MZ<br>WO: MZ                  | WO: MZ<br>WO: MZ                  | WO: MZ<br>WO: 1315<br>8-14-16     |

Comments:

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ATTACHMENT 2  
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6.[18] Performed by:

| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
|------------------------|--------------------|---------|----------|----------|
| MATTHEW ZOLLO          | <i>[Signature]</i> | 1311676 | MZ       | 18-8-16  |
| Fabian Anaya           | <i>[Signature]</i> | 1174963 | FA       | 18-8-16  |
| Fabian Anaya           | <i>[Signature]</i> | 1174963 | FA       | 18-9-10  |
| Leon Montoya           | <i>[Signature]</i> | 191526  | LM       | 18-9-16  |
| Valerie Martinez       | <i>[Signature]</i> | 23958   | VM       | 8/10/16  |
| Fabian Anaya           | <i>[Signature]</i> | 1174963 | FA       | 18-10-16 |
| Juan Garcia            | <i>[Signature]</i> | 1169840 | JG       | 18-11-16 |

| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
|------------------------|--------------------|---------|----------|----------|
| Leon Montoya           | <i>[Signature]</i> | 191526  | LM       | 8-11-16  |
| Juan Garcia            | <i>[Signature]</i> | 1169840 | JG       | 18-12-16 |
| Robert Hand            | <i>[Signature]</i> | 291778  | RH       | 8-12-16  |
| Juan Garcia            | <i>[Signature]</i> | 1169840 | JG       | 18-13-16 |
| Robert Hand            | <i>[Signature]</i> | 291778  | RH       | 18-13-16 |
| Juan Garcia            | <i>[Signature]</i> | 1169840 | JG       | 18-14-16 |
| Robert Hand            | <i>[Signature]</i> | 291778  | RH       | 18-19-16 |

9.1[2] Reviewed by:

| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|
|             |           |    |          |      |

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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (\*) are POCs.

|  |   | Monday<br>6.[4]<br>Date & Start Time:<br>8-8-16 1333  | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-9-16/1313   | Wednesday<br>6.[4]<br>Date & Start Time:<br>8-10-16/1343  | Thursday<br>6.[4]<br>Date & Start Time:<br>8-11-16/1319   | Friday<br>6.[4]<br>Date & Start Time:<br>8-12-16/1306   | Saturday<br>6.[4]<br>Date & Start Time:<br>8-13-16/1305   | Sunday<br>6.[4]<br>Date & Start Time:<br>8-14-16/1305   |
|--|---|---|---|---|---|---|---|---|
| TA-54-0375 Cell 2                                |   |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>Fluke</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> | Brand: <u>FLUKE</u><br>Model: <u>561</u><br>Cal. Due Date: <u>1-28-17</u><br>File Number: <u>104841</u> |
| Ambient Temperature<br>(6.[5])                   | <u>60.2</u> °F  | <u>61.5</u> °F  | <u>60.8</u> °F  | <u>62.2</u> °F  | <u>59.5</u> °F  | <u>58.9</u> °F  | <u>57.4</u> °F  |   |
| (S) Temperature ≤ 75°F<br>SR 4 ESS 5 1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                                  |   |
| Container ID #                                   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |   |
| LASB02198   68408                                | <u>57.4</u>   | <u>57.4</u>   | <u>56.6</u>   | <u>58.1</u>   | <u>56.3</u>   | <u>56.0</u>   | <u>54.6</u>   |   |
| 68638  | <u>60.8</u>   | <u>60.8</u>   | <u>59.7</u>   | <u>60.9</u>   | <u>59.1</u>   | <u>57.8</u>   | <u>56.4</u>   |   |
| 69615  | <u>62.8</u>   | <u>63.4</u>   | <u>61.2</u>   | <u>63.5</u>   | <u>61.5</u>   | <u>60.5</u>   | <u>58.2</u>   |   |
| 69635  | <u>62.6</u>   | <u>63.6</u>   | <u>61.5</u>   | <u>63.4</u>   | <u>61.3</u>   | <u>60.7</u>   | <u>58.4</u>   |   |
| 69642  | <u>63.4</u>   | <u>64.4</u>   | <u>62.3</u>   | <u>64.9</u>   | <u>62.2</u>   | <u>61.8</u>   | <u>59.1</u>   |   |
| 69630  | <u>62.1</u>   | <u>63.1</u>   | <u>61.1</u>   | <u>63.1</u>   | <u>60.4</u>   | <u>59.5</u>   | <u>57.8</u>   |   |
| 69633  | <u>61.5</u>   | <u>63.2</u>   | <u>62.1</u>   | <u>62.8</u>   | <u>60.5</u>   | <u>59.8</u>   | <u>58.0</u>   |   |
| *68430*  | <u>61.6</u>   | <u>63.6</u>   | <u>62.8</u>   | <u>64.6</u>   | <u>60.9</u>   | <u>60.2</u>   | <u>58.5</u>   |   |
| 68631  | <u>60.1</u>   | <u>60.4</u>   | <u>58.1</u>   | <u>60.3</u>   | <u>58.5</u>   | <u>57.6</u>   | <u>55.4</u>   |   |
| 69634  | <u>57.0</u>   | <u>57.5</u>   | <u>56.0</u>   | <u>57.8</u>   | <u>55.4</u>   | <u>54.7</u>   | <u>54.2</u>   |   |
| 68567  | <u>58.8</u>   | <u>58.5</u>   | <u>58.6</u>   | <u>58.5</u>   | <u>57.4</u>   | <u>57.6</u>   | <u>55.2</u>   |   |
| 94227  | <u>58.9</u>   | <u>59.8</u>   | <u>58.2</u>   | <u>61.8</u>   | <u>58.1</u>   | <u>57.8</u>   | <u>55.7</u>   |   |
| LASB50442   68648                                | <u>60.8</u>   | <u>60.7</u>   | <u>59.3</u>   | <u>61.3</u>   | <u>59.4</u>   | <u>59.0</u>   | <u>56.8</u>   |   |
| 69644  | <u>61.1</u>   | <u>61.3</u>   | <u>59.7</u>   | <u>62.2</u>   | <u>59.8</u>   | <u>58.9</u>   | <u>56.7</u>   |   |
| LASB50443   69183                                | <u>61.7</u>   | <u>60.7</u>   | <u>60.4</u>   | <u>62.4</u>   | <u>60.5</u>   | <u>59.2</u>   | <u>57.3</u>   |   |
| 69638  | <u>61.3</u>   | <u>61.9</u>   | <u>60.2</u>   | <u>63.1</u>   | <u>59.7</u>   | <u>59.7</u>   | <u>57.2</u>   |   |

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INITIAL FP DATE 8-8-16

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| Container ID #                       | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                      | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| <b>TA-54-0375 Cell 2 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 68624                                | 61.5                              | 62.3                              | 60.8                              | 62.2                              | 60.2                              | 59.0                              | 57.4                              |
| *68507*                              | 61.3                              | 61.9                              | 61.1                              | 64.8                              | 60.5                              | 60.3                              | 58.2                              |
| 69568                                | 59.6                              | 59.5                              | 59.0                              | 60.9                              | 57.5                              | 57.8                              | 55.7                              |
| 69553                                | 58.8                              | 60.1                              | 58.1                              | 59.8                              | 57.7                              | 56.9                              | 55.2                              |
| *69598*                              | 60.6                              | 61.0                              | 59.4                              | 61.5                              | 58.2                              | 58.2                              | 56.1                              |
| LASB50559                            | 92472                             | 57.8                              | 59.8                              | 57.0                              | 59.4                              | 57.6                              | 55.9                              |
|                                      | 92459                             | 57.4                              | 57.1                              | 56.1                              | 57.7                              | 55.5                              | 54.8                              |
| *69015*                              | 61.2                              | 62.5                              | 61.2                              | 63.8                              | 60.8                              | 60.0                              | 58.1                              |
| 69639                                | 61.0                              | 62.6                              | 60.5                              | 63.3                              | 60.1                              | 59.9                              | 57.9                              |
| 69637                                | 61.5                              | 62.2                              | 60.9                              | 62.6                              | 61.2                              | 59.3                              | 57.2                              |
| End Time (6.[14])                    | 1338                              | 1322                              | 1347                              | 1324                              | 1311                              | 1310                              | 1311                              |
| 6.[14]                               | WO: <u>MZ</u><br>WO: <u>FA</u>    | WO: <u>FA</u><br>WO: <u>LM</u>    | WO: <u>Von</u><br>WO: <u>FA</u>   | WO: <u>M</u><br>WO: <u>FA</u>     | WO: <u>M</u><br>WO: <u>FA</u>     | WO: <u>M</u><br>WO: <u>FA</u>     | WO: <u>M</u><br>WO: <u>FA</u>     |

Comments:

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6.[18] Performed by:

|                        |                         |          |          |          |
|------------------------|-------------------------|----------|----------|----------|
| MATTHEW Zocco          | <i>Matthew Zocco</i>    | 13116761 | ME       | 18-8-16  |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 11749631 | FA       | 18-8-16  |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 11749631 | FA       | 18-9-16  |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Leon Montoya           | <i>Leon Montoya</i>     | 11915261 | LM       | 18-9-16  |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Valerie Martinez       | <i>Valerie Martinez</i> | 123958   | VM       | 8/10/16  |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 11749631 | FA       | 18-10-16 |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |
| Juan Garcia            | <i>Juan Garcia</i>      | 11698401 | JG       | 18-11-16 |
| Waste Operator (print) | Signature               | Z#       | Initials | Date     |

|                        |                     |          |          |          |
|------------------------|---------------------|----------|----------|----------|
| Fabian Anaya           | <i>Fabian Anaya</i> | 11749631 | FA       | 18-11-16 |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Juan Garcia            | <i>Juan Garcia</i>  | 11698401 | JG       | 18-12-16 |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Robert Havel           | <i>Robert Havel</i> | 12917281 | RH       | 8-12-16  |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Juan Garcia            | <i>Juan Garcia</i>  | 11698401 | JG       | 18-13-16 |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Robert Havel           | <i>Robert Havel</i> | 12917281 | RH       | 8-13-16  |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Juan Garcia            | <i>Juan Garcia</i>  | 11698401 | JG       | 18-14-16 |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |
| Robert Havel           | <i>Robert Havel</i> | 12917281 | RH       | 8-14-16  |
| Waste Operator (print) | Signature           | Z#       | Initials | Date     |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|             |           |    |          |      |

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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

NOTE Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time:<br>8-8-16/1307  | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-9-16/1305   | Wednesday<br>6.[4]<br>Date & Start Time:<br>8-10-16/1335  | Thursday<br>6.[4]<br>Date & Start Time:<br>8-11-16/1314   | Friday<br>6.[4]<br>Date & Start Time:<br>8-12-16/1301   | Saturday<br>6.[4]<br>Date & Start Time:<br>8-13-16/1300   | Sunday<br>6.[4]<br>Date & Start Time:<br>8-14-16/1300   |
|--|---|---|---|---|---|---|---|
| TA-54-0375 Cell 3                                |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>Fluke</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>Fluke</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>1-28-17</u><br>File Number<br><u>104841</u> |
| Ambient Temperature<br>(6.[5])                   | <u>63.9</u> °F  | <u>66.7</u> °F  | <u>66.2</u> °F  | <u>65.9</u> °F  | <u>64.8</u> °F  | <u>64.4</u> °F  | <u>61.7</u> °F  |
| (S) Temperature ≤ 75°F<br>SR 4.ESS.5.1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  |
| Container ID #                                   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |
| *69519*  | <u>61.9</u>   | <u>64.5</u>   | <u>63.0</u>   | <u>65.0</u>   | <u>63.1</u>   | <u>62.2</u>   | <u>59.6</u>   |
| 69645  | <u>58.7</u>   | <u>62.4</u>   | <u>61.2</u>   | <u>62.1</u>   | <u>60.4</u>   | <u>60.2</u>   | <u>57.8</u>   |
| 94068  | <u>60.4</u>   | <u>64.1</u>   | <u>62.0</u>   | <u>65.0</u>   | <u>61.4</u>   | <u>61.1</u>   | <u>58.5</u>   |
| 93605  | <u>61.9</u>   | <u>65.3</u>   | <u>63.6</u>   | <u>65.4</u>   | <u>63.3</u>   | <u>62.1</u>   | <u>59.0</u>   |
| 69548  | <u>62.2</u>   | <u>66.1</u>   | <u>63.8</u>   | <u>66.3</u>   | <u>63.4</u>   | <u>62.3</u>   | <u>59.9</u>   |
| *69604*  | <u>61.9</u>   | <u>65.8</u>   | <u>63.8</u>   | <u>65.1</u>   | <u>62.9</u>   | <u>62.0</u>   | <u>59.7</u>   |
| LASB50529   68665                                | <u>60.6</u>   | <u>63.4</u>   | <u>61.6</u>   | <u>62.9</u> <u>63.8</u>   | <u>61.9</u>   | <u>61.2</u>   | <u>58.0</u>   |
| LASB50418   69595                                | <u>61.8</u>   | <u>66.6</u>   | <u>62.9</u>   | <u>65.2</u>   | <u>62.9</u>   | <u>61.8</u>   | <u>59.4</u>   |
| 69036  | <u>61.6</u>   | <u>65.2</u>   | <u>63.5</u>   | <u>66.0</u>   | <u>63.3</u>   | <u>62.5</u>   | <u>60.0</u>   |
| LASB50451   69361                                | <u>61.8</u>   | <u>65.2</u>   | <u>63.8</u>   | <u>65.7</u>   | <u>63.5</u>   | <u>62.9</u>   | <u>60.1</u>   |
| 69559  | <u>62.5</u>   | <u>65.0</u>   | <u>63.3</u>   | <u>66.3</u>   | <u>63.2</u>   | <u>62.5</u>   | <u>60.3</u>   |
| LASB50448   69491                                | <u>62.5</u>   | <u>66.6</u>   | <u>64.0</u>   | <u>66.6</u>   | <u>62.8</u>   | <u>63.1</u>   | <u>59.9</u>   |

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| Container ID #                | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TA-54-0375 Cell 3 (continued) |                                   |                                   |                                   |                                   |                                   |                                   | 8-14-16                           |
| *87827*                       | 63.0                              | 67.2                              | 64.8                              | 67.6                              | 65.3                              | 64.9                              | <del>62.2</del> 62.2              |
| *87826*                       | 62.9                              | 67.0                              | 65.2                              | 67.0                              | 65.1                              | 64.3                              | 61.3                              |
| *87823*                       | 63.9                              | 68.3                              | 65.8                              | 67.8                              | 65.5                              | 64.5                              | 62.4                              |
| *87825*                       | 65.3                              | 68.8                              | 66.5                              | 68.4                              | 66.2                              | 66.0                              | 62.1                              |
| End Time<br>(6.[14])          | 1332                              | 1312                              | 1342                              | 1318                              | 1305                              | 1304                              | 1304                              |
| 6.[14]                        | WO: <u>MZ</u><br>WO: <u>FA</u>    | WO: <u>FA</u><br>WO: <u>cm</u>    | WO: <u>VOM</u><br>WO: <u>FA</u>   | WO: <u>FA</u><br>WO: <u>FA</u>    | WO: <u>FA</u><br>WO: <u>FA</u>    | WO: <u>FA</u><br>WO: <u>FA</u>    | WO: <u>FA</u><br>WO: <u>FA</u>    |

Comments:

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6.[18] Performed by:

| Waste Operator (print) | Signature               | Z#      | Initials | Date     |
|------------------------|-------------------------|---------|----------|----------|
| MATTHEW ZOCCO          | <i>Matthew Zocco</i>    | 1311674 | MZ       | 18-8-16  |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 1174963 | FA       | 18-8-16  |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 1174963 | FA       | 18-9-16  |
| Leon Montoya           | <i>Leon Montoya</i>     | 1915261 | LM       | 18-9-16  |
| Valerie Martinez       | <i>Valerie Martinez</i> | 1239958 | VM       | 18/10/16 |
| Fabian Anaya           | <i>Fabian Anaya</i>     | 1174963 | FA       | 18-10-16 |
| Juan Garcia            | <i>Juan Garcia</i>      | 1169840 | JG       | 18-11-16 |

| Waste Operator (print) | Signature            | Z#      | Initials | Date     |
|------------------------|----------------------|---------|----------|----------|
| Fabian Anaya           | <i>Fabian Anaya</i>  | 1174963 | FA       | 18-11-16 |
| Juan Garcia            | <i>Juan Garcia</i>   | 1169840 | JG       | 18-12-16 |
| Robert Hansel          | <i>Robert Hansel</i> | 1291788 | RH       | 18-12-16 |
| Juan Garcia            | <i>Juan Garcia</i>   | 1169840 | JG       | 18-13-16 |
| Robert Hansel          | <i>Robert Hansel</i> | 1291788 | RH       | 18-13-16 |
| Juan Garcia            | <i>Juan Garcia</i>   | 1169840 | JG       | 18-14-16 |
| Robert Hansel          | <i>Robert Hansel</i> | 1291788 | RH       | 18-14-16 |

9.1[2] Reviewed by:

| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|
| /           | /         | /  | /        | /    |

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**ATTACHMENT 2**

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**TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE SWB drum 69417 is no longer considered a RNS drum by LANL or NMED. Containers marked by an (\*) are POCs.

|   | Monday<br>6.[4]<br>Date & Start Time:<br>8-15-16 1352  | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-16-16 1324   | Wednesday<br>6.[4]<br>Date & Start Time:   | Thursday<br>6.[4]<br>Date & Start Time:  | Friday<br>6.[4]<br>Date & Start Time:  | Saturday<br>6.[4]<br>Date & Start Time:  | Sunday<br>6.[4]<br>Date & Start Time:  |
|---|--|--|--|--|--|--|--|
| <b>TA-54-0375 Cell 1</b>                      |  |  |  |  |  |  |  |
| Calibrated infrared thermometer (4.2.1[2][B]) | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>10-21-16</u><br>File Number<br><u>101912</u> | Brand<br><u>FLUKE</u><br>Model<br><u>561</u><br>Cal. Due Date<br><u>10-21-16</u><br>File Number<br><u>101912</u> | Brand<br>_____<br>Model<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ |
| Ambient Temperature (6.[5])                   | <u>67.5</u> °F   | <u>65.3</u> °F   | _____ °F   | _____ °F   | _____ °F   | _____ °F   | _____ °F   |
| (S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT   | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                        | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                        | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                        | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                        | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                        |
| Container ID #                                | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  |
| 68685   | <u>67.7</u>  | <u>65.7</u>  |  |  |  |  |  |
| LA00000070503                                 | 68540  | <u>67.0</u>  | <u>65.4</u>  |  |  |  |  |
|   | 68553  | <u>66.1</u>  | <u>65.0</u>  |  |  |  |  |
| 69445   | <u>67.6</u>  | <u>65.1</u>  |  |  |  |  |  |
| 69618   | <u>66.9</u>  | <u>65.7</u>  |  |  |  |  |  |
| *69013*                                       | <u>66.7</u>  | <u>63.5</u>  |  |  |  |  |  |
| LASB50522                                     | 69076  | <u>66.6</u>  | <u>64.0</u>  |  |  |  |  |
| LASB50452                                     | 69490  | <u>66.7</u>  | <u>63.9</u>  |  |  |  |  |
| LASB50431                                     | 69280  | <u>65.1</u>  | <u>63.3</u>  |  |  |  |  |
| LASB50069                                     | 69208  | <u>65.1</u>  | <u>63.7</u>  |  |  |  |  |
| LASB50073                                     | 69079  | <u>67.6</u>  | <u>63.1</u>  |  |  |  |  |
| 69636   | <u>65.5</u>  | <u>63.1</u>  |  |  |  |  |  |

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INITIAL MZ DATE 8-15-16

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| Container ID #                       | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                      | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| <b>TA-54-0375 Cell 1 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 69616                                | 65.7                              | 64.5                              |                                   |                                   |                                   |                                   |                                   |
| 69417                                | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               | N/A                               |
| 69620                                | 66.8                              | 64.5                              |                                   |                                   |                                   |                                   |                                   |
| *69520*                              | 66.4                              | 65.0                              |                                   |                                   |                                   |                                   |                                   |
| 69641                                | 65.4                              | 64.2                              |                                   |                                   |                                   |                                   |                                   |
| 69298                                | 65.1                              | 63.2                              |                                   |                                   |                                   |                                   |                                   |
| LASB02203   92669                    | 64.9                              | 62.3                              |                                   |                                   |                                   |                                   |                                   |
| End Time (6.[14])                    | 1357                              | 1326                              |                                   |                                   |                                   |                                   |                                   |
| 6.[14]                               | WO: <u>MZ</u><br>WO: <u>CM</u>    | WO: <u>MZ</u><br>WO: <u>CM</u>    | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            |

Comments:

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6.[18] Performed by:

|                        |                  |         |          |         |
|------------------------|------------------|---------|----------|---------|
| MATTHEW ZOCCO          | <i>Matthew Z</i> | 1311676 | MZ       | 8-15-16 |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| LEON MONTANA           | <i>Leon M</i>    | 191526  | LM       | 8-15-16 |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| MATTHEW ZOCCO          | <i>Matthew Z</i> | 1311676 | MZ       | 8-16-16 |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| LEON MONTANA           | <i>Leon M</i>    | 191526  | LM       | 8-16-16 |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |
| Waste Operator (print) | Signature        | Z#      | Initials | Date    |

|                        |           |    |          |      |
|------------------------|-----------|----|----------|------|
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|

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**TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

**NOTE** Containers marked by an (\*) are POC's.

|   | Monday<br>6.[4]<br>Date & Start Time:<br>8-15-16 1348  | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-16-16 1320   | Wednesday<br>6.[4]<br>Date & Start Time:                                | Thursday<br>6.[4]<br>Date & Start Time:                                 | Friday<br>6.[4]<br>Date & Start Time:                                   | Saturday<br>6.[4]<br>Date & Start Time:                                 | Sunday<br>6.[4]<br>Date & Start Time:                                   |
|---|--|--|---|---|---|---|---|
| <b>TA-54-0375 Cell 2</b>                      |  |  |   |   |   |   |   |
| Calibrated infrared thermometer (4.2.1[2][B]) | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand <u>FLUKE</u><br>Model <u>561</u><br>Cal Due Date <u>1-28-17</u><br>File Number <u>104841</u> | Brand: _____<br>Model: _____<br>Cal Due Date _____<br>File Number _____ | Brand: _____<br>Model: _____<br>Cal Due Date _____<br>File Number _____ | Brand: _____<br>Model: _____<br>Cal Due Date _____<br>File Number _____ | Brand: _____<br>Model: _____<br>Cal Due Date _____<br>File Number _____ | Brand: _____<br>Model: _____<br>Cal Due Date _____<br>File Number _____ |
| Ambient Temperature (6.[5])                   | <u>60.3</u> °F   | <u>59.2</u> °F   | _____ °F  | _____ °F  | _____ °F  | _____ °F  | _____ °F  |
| (S) Temperature ≤ 75°F SR 4 ESS 5 1 (6 [6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT                             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT             | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT             |
| Container ID #                                | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])  | Temp (°F)<br>(6.[8]/6.[9]/6.[10])                                       | Temp (°F)<br>(6.[8]/6.[9]/6.[10])                                       | Temp (°F)<br>(6.[8]/6.[9]/6.[10])                                       | Temp (°F)<br>(6.[8]/6.[9]/6.[10])                                       | Temp (°F)<br>(6.[8]/6.[9]/6.[10])                                       |
| LASB02198   68408                             | <u>66.6</u>  | <u>54.9</u>  |   |   |   |   |   |
| 68638   | <u>58.2</u>  | <u>56.9</u>  |   |   |   |   |   |
| 69615   | <u>61.1</u>  | <u>60.2</u>  |   |   |   |   |   |
| 69635   | <u>62.2</u>  | <u>60.2</u>  |   |   |   |   |   |
| 69642   | <u>62.6</u>  | <u>60.9</u>  |   |   |   |   |   |
| 69630   | <u>60.4</u>  | <u>58.8</u>  |   |   |   |   |   |
| 69633   | <u>60.7</u>  | <u>59.0</u>  |   |   |   |   |   |
| *68430*                                       | <u>61.7</u>  | <u>59.3</u>  |   |   |   |   |   |
| 68631   | <u>58.5</u>  | <u>56.4</u>  |   |   |   |   |   |
| 69634   | <u>57.7</u>  | <u>56.0</u>  |   |   |   |   |   |
| 68567   | <u>57.2</u>  | <u>56.1</u>  |   |   |   |   |   |
| 94227   | <u>57.7</u>  | <u>56.2</u>  |   |   |   |   |   |
| LASB50442   68648                             | <u>59.0</u>  | <u>57.3</u>  |   |   |   |   |   |
| 69644   | <u>59.3</u>  | <u>57.9</u>  |   |   |   |   |   |
| LASB50443   69183                             | <u>60.4</u>  | <u>59.4</u>  |   |   |   |   |   |
| 69638   | <u>60.4</u>  | <u>59.0</u>  |   |   |   |   |   |

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| Container ID #                       | Monday                            | Tuesday                           | Wednesday                         | Thursday                          | Friday                            | Saturday                          | Sunday                            |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                                      | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
| <b>TA-54-0375 Cell 2 (continued)</b> |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| 68624                                | 59.8                              | 58.4                              |                                   |                                   |                                   |                                   |                                   |
| *68507*                              | 60.8                              | 59.2                              |                                   |                                   |                                   |                                   |                                   |
| 69568                                | 58.1                              | 56.9                              |                                   |                                   |                                   |                                   |                                   |
| 69553                                | 57.8                              | 56.8                              |                                   |                                   |                                   |                                   |                                   |
| *69598*                              | 59.2                              | 57.8                              |                                   |                                   |                                   |                                   |                                   |
| LASB50559                            | 92472<br>58.9                     | 56.1                              |                                   |                                   |                                   |                                   |                                   |
|                                      | 92459<br>55.6                     | 54.4                              |                                   |                                   |                                   |                                   |                                   |
| *69015*                              | 60.8                              | 58.8                              |                                   |                                   |                                   |                                   |                                   |
| 69639                                | 60.6                              | 58.9                              |                                   |                                   |                                   |                                   |                                   |
| 69637                                | 60.3                              | 58.6                              |                                   |                                   |                                   |                                   |                                   |
| End Time (6.[14])                    | 1351                              | 1323                              |                                   |                                   |                                   |                                   |                                   |
| 6.[14]                               | WO: MZ<br>WO: <i>LM</i>           | WO: MZ<br>WO: <i>LM</i>           | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            |

Comments:

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**ATTACHMENT 4**  
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6.[18] Performed by:

|                        |                    |         |          |          |
|------------------------|--------------------|---------|----------|----------|
| MATTHEW ZOCZO          | <i>[Signature]</i> | 1311676 | MZ       | 18-15-16 |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| LEON MARTINEZ          | <i>[Signature]</i> | 191526  | LM       | 8-15-16  |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| MATTHEW ZOCZO          | <i>[Signature]</i> | 1311676 | MZ       | 18-16-16 |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| LEON MARTINEZ          | <i>[Signature]</i> | 191526  | LM       | 8-16-16  |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |
| Waste Operator (print) | Signature          | Z#      | Initials | Date     |

|                        |           |    |          |      |
|------------------------|-----------|----|----------|------|
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|

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**TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET**

NOTE Containers marked by an (\*) are POCs.

|  | Monday<br>6.[4]<br>Date & Start Time:<br>8-15-16 1337   | Tuesday<br>6.[4]<br>Date & Start Time:<br>8-16-16 1314  | Wednesday<br>6.[4]<br>Date & Start Time:  | Thursday<br>6.[4]<br>Date & Start Time:   | Friday<br>6.[4]<br>Date & Start Time:   | Saturday<br>6.[4]<br>Date & Start Time:   | Sunday<br>6.[4]<br>Date & Start Time:   |
|--|---|---|---|---|---|---|---|
| <b>TA-54-0375 Cell 3</b>                         |   |   |   |   |   |   |   |
| Calibrated infrared thermometer<br>(4.2.1[2][B]) | Brand<br><u>FLUKE</u><br>Model:<br><u>561</u><br>Cal Due Date:<br><u>1-28-17</u><br>File Number:<br><u>104841</u> | Brand<br><u>FLUKE</u><br>Model:<br><u>561</u><br>Cal Due Date:<br><u>1-28-17</u><br>File Number:<br><u>104841</u> | Brand<br>_____<br>Model:<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model:<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model:<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model:<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ | Brand<br>_____<br>Model:<br>_____<br>Cal. Due Date<br>_____<br>File Number<br>_____ |
| Ambient Temperature<br>(6.[5])                   | <u>65.1</u> °F  | <u>63.2</u> °F  | _____ °F  | _____ °F  | _____ °F  | _____ °F  | _____ °F  |
| (S) Temperature ≤ 75°F<br>SR 4.ESS.5.1 (6.[6])   | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input checked="" type="checkbox"/> SAT <input type="checkbox"/> UNSAT  | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                         | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                         | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                         | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                         | <input type="checkbox"/> SAT <input type="checkbox"/> UNSAT                         |
| Container ID #                                   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   | Temp (°F)<br>(6.[8]/6.[9]/6.[10])   |
| *69519*  | <u>63.1</u>   | <u>60.7</u>   |   |   |   |   |   |
| 69645  | <u>61.1</u>   | <u>59.3</u>   |   |   |   |   |   |
| 94068  | <u>62.3</u>   | <u>60.5</u>   |   |   |   |   |   |
| 93605  | <u>63.7</u>   | <u>61.2</u>   |   |   |   |   |   |
| 69548  | <u>64.6</u>   | <u>61.8</u>   |   |   |   |   |   |
| *69604*  | <u>64.0</u>   | <u>61.2</u>   |   |   |   |   |   |
| LASB50529 68665                                  | <u>61.4</u>   | <u>60.1</u>   |   |   |   |   |   |
| LASB50418 69595                                  | <u>63.3</u>   | <u>61.5</u>   |   |   |   |   |   |
| 69036  | <u>63.4</u>   | <u>61.7</u>   |   |   |   |   |   |
| LASB50451 69361                                  | <u>63.9</u>   | <u>61.7</u>   |   |   |   |   |   |
| 69559  | <u>63.7</u>   | <u>61.8</u>   |   |   |   |   |   |
| LASB50448 69491                                  | <u>63.2</u>   | <u>61.7</u>   |   |   |   |   |   |

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| Container ID #                | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) | Temp (°F)<br>(6.[8]/6.[9]/6.[10]) |
|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| TA-54-0375 Cell 3 (continued) |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
| *87827*                       | 66.6                              | 62.9                              |                                   |                                   |                                   |                                   |                                   |
| *87826*                       | 65.8                              | 62.9                              |                                   |                                   |                                   |                                   |                                   |
| *87823*                       | 66.8                              | 63.1                              |                                   |                                   |                                   |                                   |                                   |
| *87825*                       | 65.5                              | 65.1                              |                                   |                                   |                                   |                                   |                                   |
| End Time<br>(6.[14])          | 1343                              | 1319                              |                                   |                                   |                                   |                                   |                                   |
| 6.[14]                        | WO: <u>MZ</u><br>WO: <u>LM</u>    | WO: <u>MZ</u><br>WO: <u>LM</u>    | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            | WO: _____<br>WO: _____            |

Comments:

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TA-54 Area G Remediated Nitrate Salt Waste Container Monitoring

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**ATTACHMENT 3**  
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6.[18] Performed by:

|                        |           |         |          |          |
|------------------------|-----------|---------|----------|----------|
| MATTHEW ZOCCO          |           | 1311676 | MZ       | 18-15-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| LEON MASTOJA           |           | 1191526 | LM       | 18-15-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| MATTHEW ZOCCO          |           | 1311676 | MZ       | 18-16-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| LEON MASTOJA           |           | 1191526 | LM       | 18-16-16 |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |
| Waste Operator (print) | Signature | Z#      | Initials | Date     |

|                        |           |    |          |      |
|------------------------|-----------|----|----------|------|
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |
| Waste Operator (print) | Signature | Z# | Initials | Date |

9.1[2] Reviewed by:

|             |           |    |          |      |
|-------------|-----------|----|----------|------|
| SOM (print) | Signature | Z# | Initials | Date |
|-------------|-----------|----|----------|------|