From: Juarez, Catherine L
Sent: Wednesday, November 16, 2016 3:48 PM
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Subject: Monthly Technical Summary October 20, 2016 - November 16, 2016

Linked below is the written monthly technical summary October 20, 2016 – November 16, 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 X of the *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 7,* approved on October 17, 2016.

Click on the link below to download the associated file using your web browser.

NMED monthly written summary November 16, 2016.pdf

Catherine Juarez
EPC-CP
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Schedule "A"
7-4961

NMED / LANL Technical Summary

October 20, 2016 – November 16, 2016

Participants:

- New Mexico Environment Department: Neelam Dhawan.
- LANL – NNSA- Los Alamos Field Office: Karen Armijo.
- LANL – Los Alamos National Security: Luciana Vigil-Holterman, Lydia Martinez 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 85 gallon overpacked POCs).
    - All containers remain in the 375 Permacon.

- **Monitoring - Daily Temperature**
  - Temperatures are currently below 75 °F.
    - Previous month's temperature data attached.

- **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.
    - October 19, 2016 – November 15, 2016 HSG data (H_2, CO, CO_2 and N_2O) attached.
  - Other containers:
    - A minimum of once per month HSG sampling is conducted on 55-gallon drums or overpack containers.
      - Through November 15, 2016, LANL has completed HSG sampling for the month on 44 containers.
        - October 19, 2016 – November 15, 2016 HSG data (H_2, CO, CO_2 and N_2O) attached.

- **Additional measures currently underway**
  - Twice-weekly HSG sample collection on 55-gallon drums of remediated nitrate salt-bearing waste.
    - HSG data (H_2, CO, CO_2 and N_2O) attached for October and November 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_2 values are adjusted by the quantity of CO_2 in the field blank (i.e., the amount of CO_2 in the air when the sample is taken is subtracted from the CO_2 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, December 21, 2016

Summary Chart - Requested Information / Pending Issues:

	Requested Information	Actionee	Status	Completion Date
1.	NMED contact / process for LANL to notify NMED under the Revised Isolation Plan (e.g., 24 hour notices).	NMED	---	Complete June 5, 2014
2.	Keep NMED informed on the status of on-going chemistry / analytical work.	LANL	---	Complete June 9, 2014
3.	On upcoming daily call, provide additional discussion on the potential for liquids in the 350 post-1991 cemented containers (including a discussion of the review of RTR tapes).	LANL	---	Complete July 6, 2014 (Discussion on call) July 18, 2014 (Meeting held)
4.	On upcoming call, provide additional discussion on why 231 and 375 Permacon fire suppression systems are not part of the LANL RCRA Hazardous Waste Facility Permit Contingency Plan.	LANL	---	Complete June 5, 2014
5.	Send copy of June 4, 2014 written daily submission to Trais Kliphuis. Also, include her on future daily submissions.	LANL	---	Complete June 5, 2014
6.	Provide LANL procedures and example records associated with post-1991 TA-55 cementation process discussed on June 6.	LANL	---	Complete July 3, 2014
7.	Provide information on numbers of containers in the post-1991 cemented waste streams from the TA-55 process discussed on June 6. This should include numbers regarding RTR status (RTR'd, meet WIPP criteria, requiring remediation).	LANL	---	Complete June 17, 2014 (Supplemental Info provided July 3)
8.	Provide RTR video and pre-screening information associated with those containers requiring remediation from the post-1991 cemented waste streams from the TA-55 process discussed on June 6.	LANL	---	Complete July 3, 2014
9.	Provide copy of CCP/LANL Interface Document.	LANL	---	Complete June 9, 2014
10.	Provide a list of the analytes for which LANL is sampling HSG (CO_2 and LFL analytes).	LANL	---	Complete June 11, 2014
11.	Discuss potential sampling of HSG for NO_x.	LANL	---	Complete June 16, 2014

	Requested Information	Actionee	Status	Completion Date
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	---	Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers. 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.	LANL	---	Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Eleventh submittal in response to item 5) October 8, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fourteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5) November 3, 2014 (Seventeenth submittal in response to item 5)

	Requested Information	Actionee	Status	Completion Date
14.	NMED will review the Round Sheets (provided in June 11 summary) and inform LANL if these should be attachments to the Revised Plan, or if they fall under the provision in Section I of the Revised Isolation Plan and their identification during this technical call is sufficient.	NMED	NMED has reviewed Round Sheets – no comments / direction at this time. NMED will address any comments in their formal response to Revised Container Isolation Plan.	Complete June 23, 2014
15.	NMED has requested 'copies of any waste processing, treatment, characterization stop orders issued since Feb 14, 2014.'	LANL	---	Complete June 13, 2014 (Included w/ daily summary) June 16, 2014 (Discussed current TA-54 & WCRRF operations)
16.	NMED requested information on the location of drums 68327 and 68328. Request made June 14.	LANL	---	Complete June 14, 2014
17.	Update on LANL efforts – including LANL teams. (On June 20 call, LANL offered to schedule an update meeting).	LANL / NMED	---	Complete July 2, 2014
18.	Neutralizer use in association with container S855793 (parent of 68660 and 68685).	LANL	---	Complete June 25, 2014
19.	List of nitrate salt-bearing waste containers that LANL records indicate contain absorbed liquids with the same neutralizer, as discussed during June 25 technical call.	LANL	---	Complete September 30, 2014 (with August 26, 2014 response)
20.	Schedule follow-on update on LANL efforts – including teams.	LANL / NMED	---	Complete August 14, 2014 (Meeting held)
21.	NMED requested information on document approval / review (as discussed on July 3 call).	LANL	---	Complete July 29, 2014
22.	What analyses will be conducted on samples taken from empty drums that previously contained nitrate salt-bearing waste.	LANL	---	Complete July 7, 2014
23.	NMED requested the following information on cemented waste containers generated from TA-55, that are currently stored above-ground at Area G: container id number; location; form (cans or monoliths); and type of concrete. Additionally, NMED requested information on pH adjustment during waste generation process, and information on anticipated pH of free liquids (and rationale).	LANL	---	Complete July 17, 2014 (Letter sent w/ information) July 18, 2014 (Meeting held)

	Requested Information	Actionee	Status	Completion Date
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 *Response to Request for Information on Management of Waste at LANL*.	Complete July 8, 2014
25.	NMED requested an additional discussion on a future technical call regarding CO_2, including data.	LANL	---	Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL	---	Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL	---	Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3rd Q 2008).	LANL	---	Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	---	Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL	---	Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	---	Complete September 29, 2014 (meeting held)
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	---	Complete October 20, 2014

	Requested Information	Actionee	Status	Completion Date
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 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 October 27, 2014 (Diagram submitted) November 3, 2014 (Table submitted) November 20, 2014 (Revised table submitted)

	Requested Information	Actionee	Status	Completion Date
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 LANL will submit this documentation in batches as it is 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 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. November 19, 2015 meeting with NMED-HWB personnel.

	Requested Information	Actionee	Status	Completion Date
41.	Trending and correlation of temperature and HSG monitoring data.	LANL	---	Complete November 19, 2015 HSG data modeling report to be included with the LANL Isolation Plan and graphical depitions 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/ NMED	---	Complete November 3, 2014
43.	Schedule a fifth update on LANL efforts – including teams.	LANL/ NMED	---	Complete November 20, 2014
44.	Schedule a sixth update on LANL efforts – including teams.	LANL/ NMED	---	Complete December 9, 2014
45.	NMED requested documentation regarding CIN01 drums.	LANL	---	Complete Email- February 3, 2015 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/ 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.

	Requested Information	Actionee	Status	Completion Date
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/ NMED	---	Complete April 16, 2015.

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685 - 68685				69553 - 69553				69615 - 69615				69616 - 69616				SB50069 - 69208			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16	245	782	14635	2988																
10/20/16	315	956	16553	3311	288	1005	19814	2555	205	899	15472	851	365	1052	17159	2754	1072	2387	43202	5469
10/21/16	290	855	15343	3115																
10/22/16	308	818	15675	3206																
10/23/16	283	817	15389	3131																
10/24/16	318	832	15864	3155	129	478	8917	1146	227	930	15808	870	393	1049	17700	2789	281	742	11576	1510
10/25/16	213	632	11711	2320																
10/26/16	304	920	15546	3084																
10/27/16	324	870	16163	3204	318	1078	20861	2673	261	895	16444	902	334	1024	17008	2673	1049	2303	41508	5206
10/28/16	269	740	13542	2710																
10/29/16	305	839	15654	3119																
10/30/16	294	809	14803	2989																
10/31/16	297	806	15453	3098	318	1107	21261	2789	215	790	15100	815	291	957	15644	2486	878	2008	36385	4579
11/01/16	296	780	15499	3075																
11/02/16	168	698	13247	2608																
11/03/16	303	821	14992	2979	314	1043	20891	2706	243	861	15731	882	322	1017	16947	2702	1001	2224	39904	5019
11/04/16	234	677	12589	2530																
11/05/16	296	745	14216	2863																
11/06/16	166	567	9463	1925																
11/07/16	302	795	13989	2821	319	1097	20994	2721	268	894	16075	871	341	974	16620	2622	866	1812	33267	4212
11/08/16	192	595	9678	3132																
11/09/16	315	804	14344	2930																
11/10/16	97	302	4851	976	319	1101	20908	2704	288	929	16291	964	380	1010	16463	2652	707	1534	26455	3408
11/11/16	308	752	13622	2830																
11/12/16	116	448	7310	1504																
11/13/16	296	762	13016	2662																
11/14/16	304	705	12987	2663	315	1017	19688	2516	242	838	14488	819	327	872	14897	2342	877	1769	30911	3864
11/15/16	263	754	11839	2404																

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452 - 69076				SB50522 - 69490				68430				68507				70503 - 68540			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16					833	1600	20118	4235												
10/20/16	462	1220	18147	2664	919	1607	21028	4409												
10/21/16					820	1444	18592	3852												
10/22/16					880	1538	20153	4223												
10/23/16					879	1527	19957	4169												
10/24/16	451	1285	17455	2546	882	1520	19257	3999												
10/25/16					546	978	12328	2590												
10/26/16					888	1665	20008	4182												
10/27/16	440	1184	17429	2537	840	1536	18834	3955												
10/28/16					765	1351	16841	3533												
10/29/16					846	1502	19190	4048												
10/30/16					870	1603	19460	4136												
10/31/16	422	1167	17286	2493	833	1468	19031	3976												
11/01/16					897	1584	20296	4279												
11/02/16					796	1490	19196	4033									15	0	765	0
11/03/16	421	1114	16546	2392	811	1535	19166	4032												
11/04/16					510	946	11517	2424												
11/05/16					860	1535	19783	4188												
11/06/16					779	1463	17442	3640												
11/07/16	440	1174	17150	2489	817	1467	18596	3930												
11/08/16					700	1395	17451	3711												
11/09/16					914	1595	20037	4265												
11/10/16	458	1238	17623	2551	854	1532	18619	3944												
11/11/16					910	1529	18940	3989												
11/12/16					738	1316	15397	3255												
11/13/16					925	1529	19140	4041												
11/14/16	458	1170	16403	2359	790	1446	17882	3808												
11/15/16					600	1060	12620	2656	218	417	4272	930	81	0	1126	35				

Remediated Nitrate Salt Container Headspace Gas Analysis

	70503 - 68553				68567 - 68567				68624 - 68624				68631 - 68631				68638 - 68638			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16																				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16	57	95	2473	254																
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16																				
11/09/16									50	150	2255	328								
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16													21	0	1036	89	15	0	434	0

Remediated Nitrate Salt Container Headspace Gas Analysis

	69013				69015				69036 - 69036				69298 - 69298				69445 - 69445			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16									103	0	1491	438								
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16	33	0	879	15													337	961	13791	1337
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16													790	1425	20310	2971				
11/09/16					79	0	1424	156												
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69519				69520				69548 - 69548				69559 - 69559				69568 - 69568			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
10/19/16									17	0	2102	224	263	739	10927	3347				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16					106	205	2582	914												
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16																				
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																	127	228	1318	716

Remediated Nitrate Salt Container Headspace Gas Analysis

	69598				69604				69618 - 69618				69620 - 69620				69630 - 69630			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16					253	361	6700	2333												
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16									172	453	5281	624	384	983	13472	2175				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16																	523	1353	22127	1956
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69633 - 69633				69634 - 69634				69635 - 69635				69636 - 69636				69637 - 69637			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16																				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16																				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16													274	486	11193	1371				
11/09/16	527	1043	14583	1829					228	552	7794	561					234	729	7395	1949
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69638 - 69638				69639 - 69639				69641 - 69641				69642 - 69642				69644 - 69644			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16																				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16									600	1321	13567	4544								
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16													81	181	3779	367				
11/09/16	462	1080	12726	2082	171	440	7631	464									227	584	8027	1648
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69645 - 69645				93605 - 93605				94068 - 94068				94227 - 94227				SB02198 - 68408			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16																				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16																				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16																				
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16													28	0	408	498				

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB02203 - 92669				SB50073 - 69079				SB50418 - 69595				SB50431 - 69280				SB50442 - 68648			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16									248	670	13400	1640								
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16																				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16	55	127	3259	126	802	1770	20939	4938					359	798	13582	1757				
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																	271	468	8059	1518

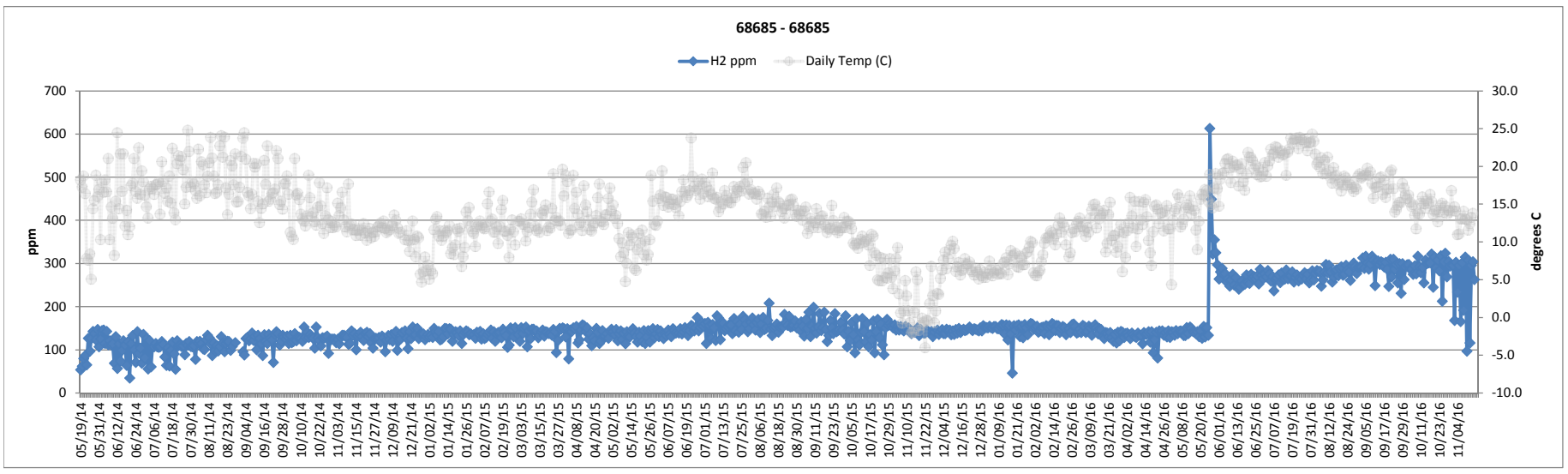
Remediated Nitrate Salt Container Headspace Gas Analysis

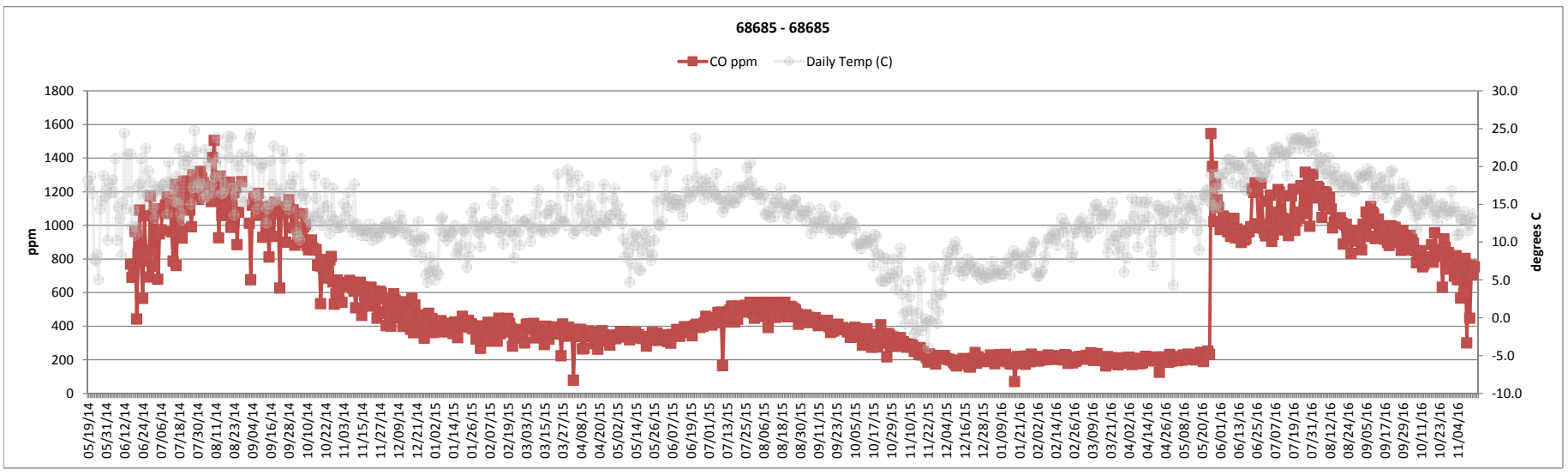
	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
10/19/16					788	1422	18463	2929	219	575	6879	840	210	613	8001	950				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16																				
11/02/16																				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16	712	1478	17593	3341																
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16																	52	0	2164	60

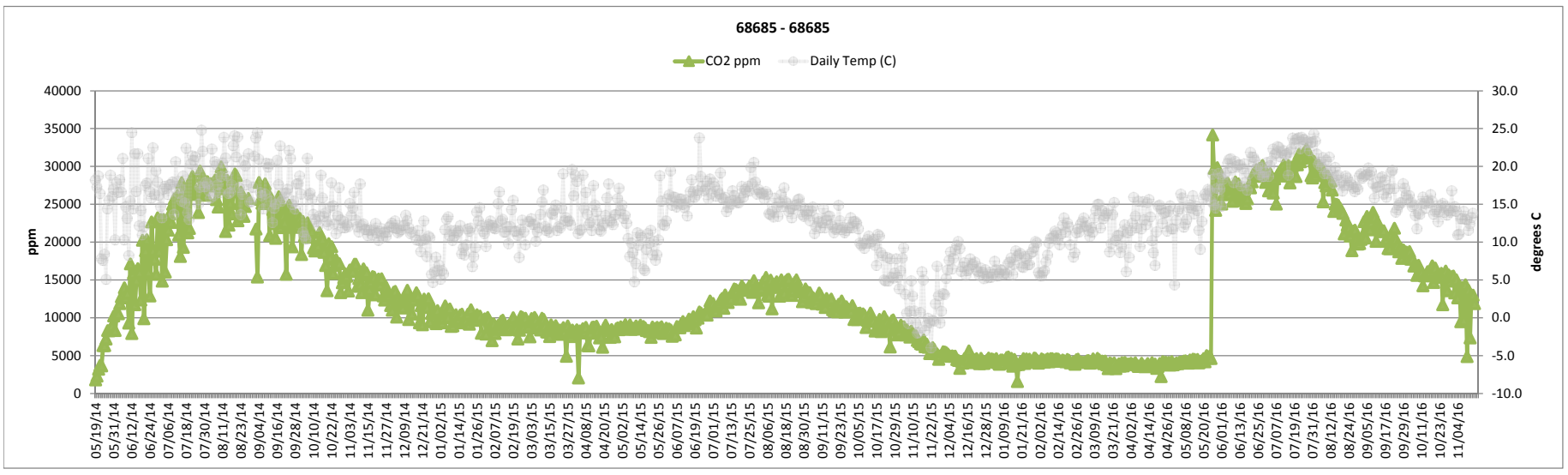
Remediated Nitrate Salt Container Headspace Gas Analysis

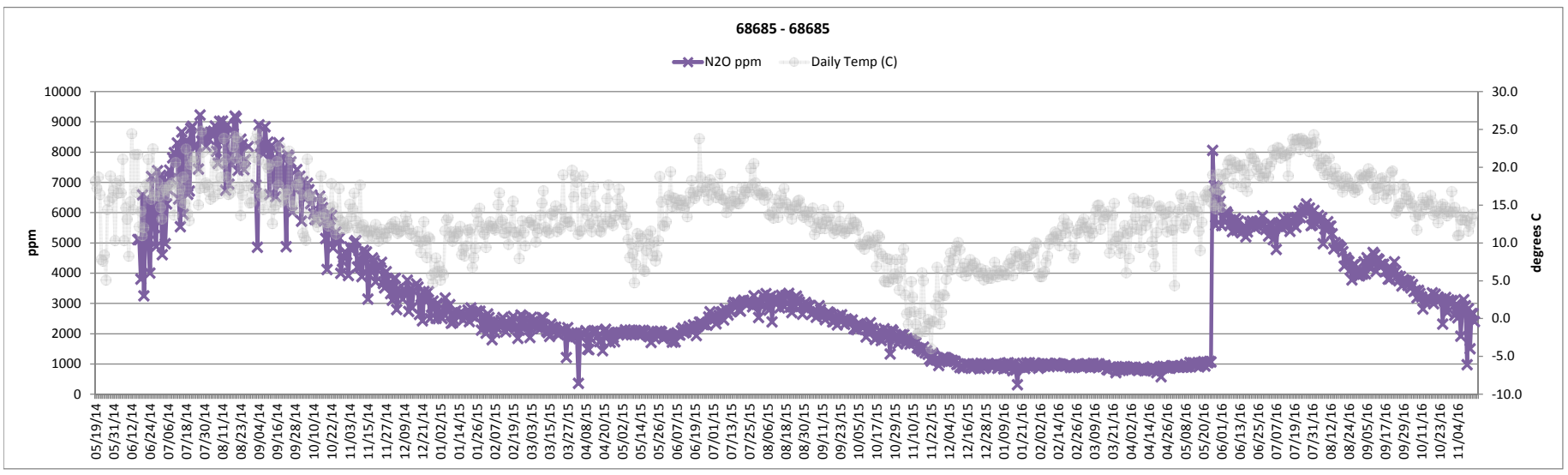
	SB50559 - 92472				87823				87825				87826				87827			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
10/19/16																				
10/20/16																				
10/21/16																				
10/22/16																				
10/23/16																				
10/24/16																				
10/25/16																				
10/26/16																				
10/27/16																				
10/28/16																				
10/29/16																				
10/30/16																				
10/31/16																				
11/01/16					158	124	3421	706	147	156	4769	955	186	426	7425	1302	44	86	3175	415
11/02/16																				
11/03/16																				
11/04/16																				
11/05/16																				
11/06/16																				
11/07/16																				
11/08/16																				
11/09/16																				
11/10/16																				
11/11/16																				
11/12/16																				
11/13/16																				
11/14/16																				
11/15/16	76	252	3121	245																

Remediated Nitrate Salt Container Headspace Gas and Temperature

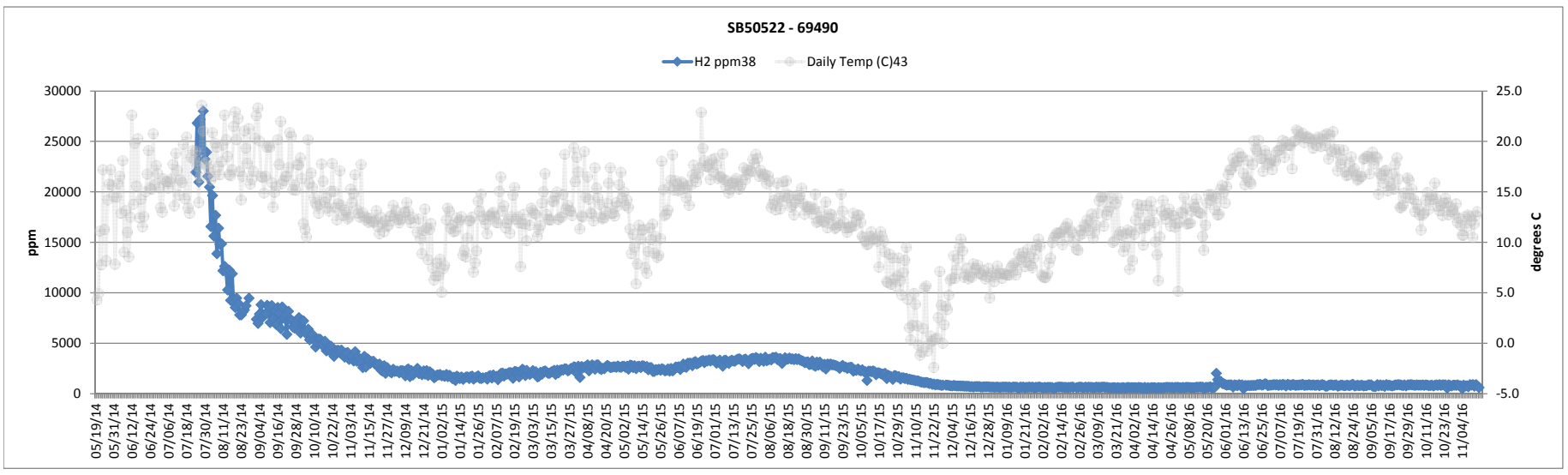


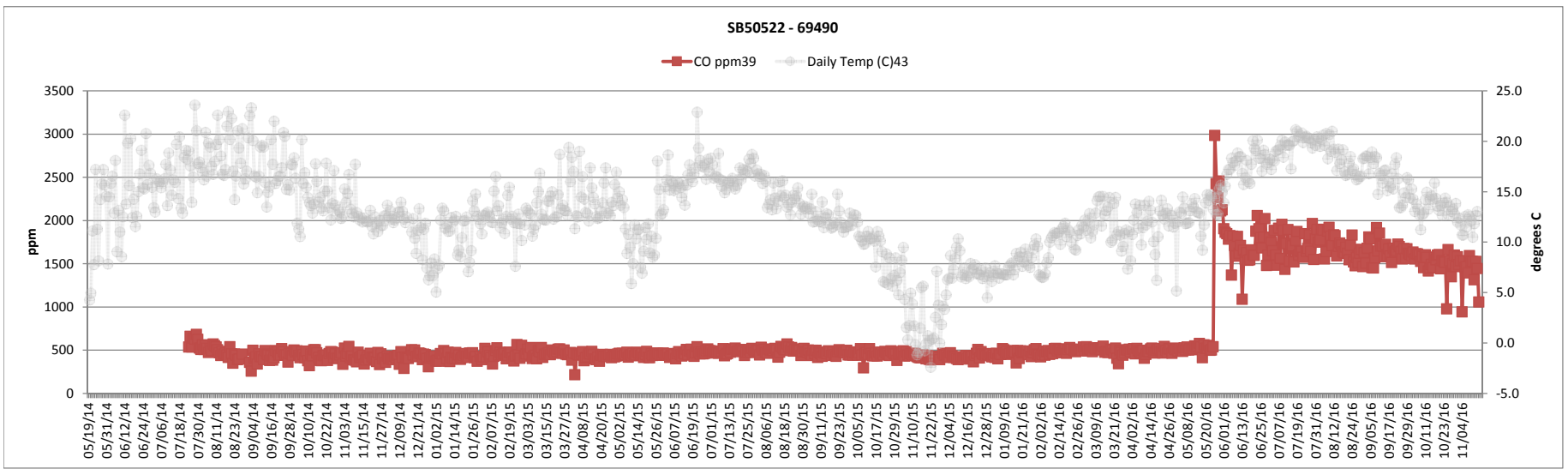


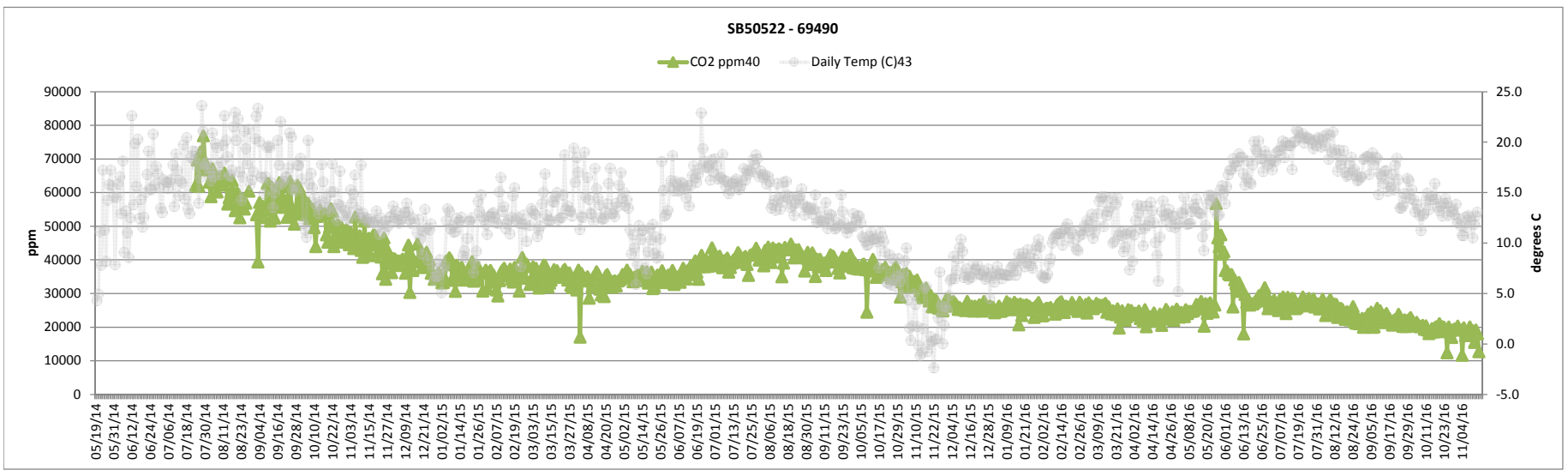


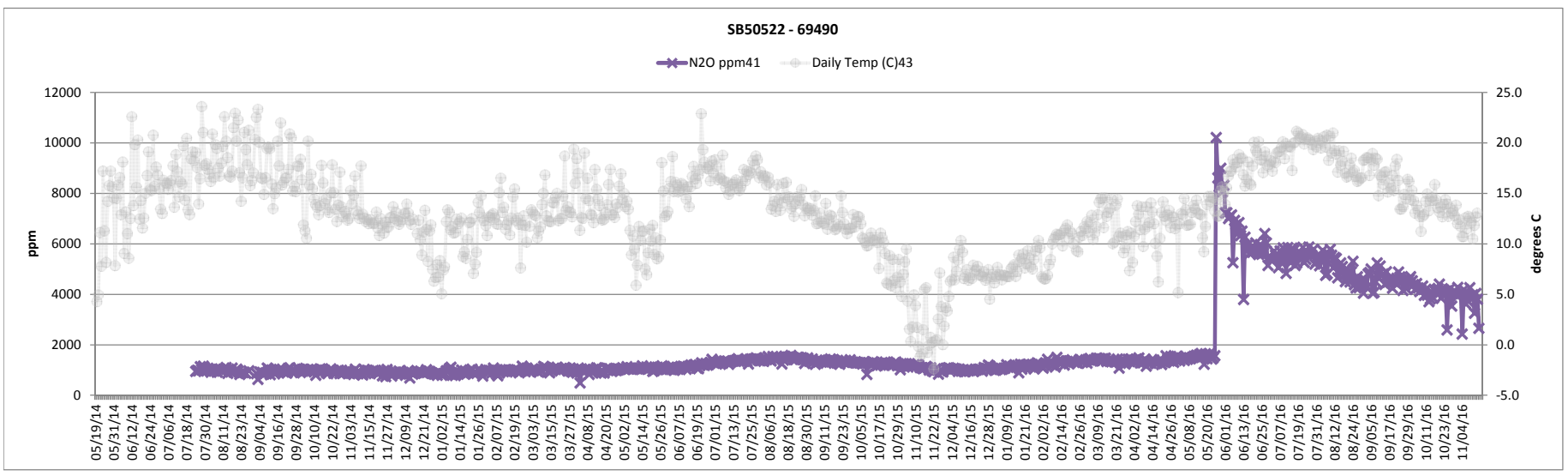


Remediated Nitrate Salt Container Headspace Gas and Temperature

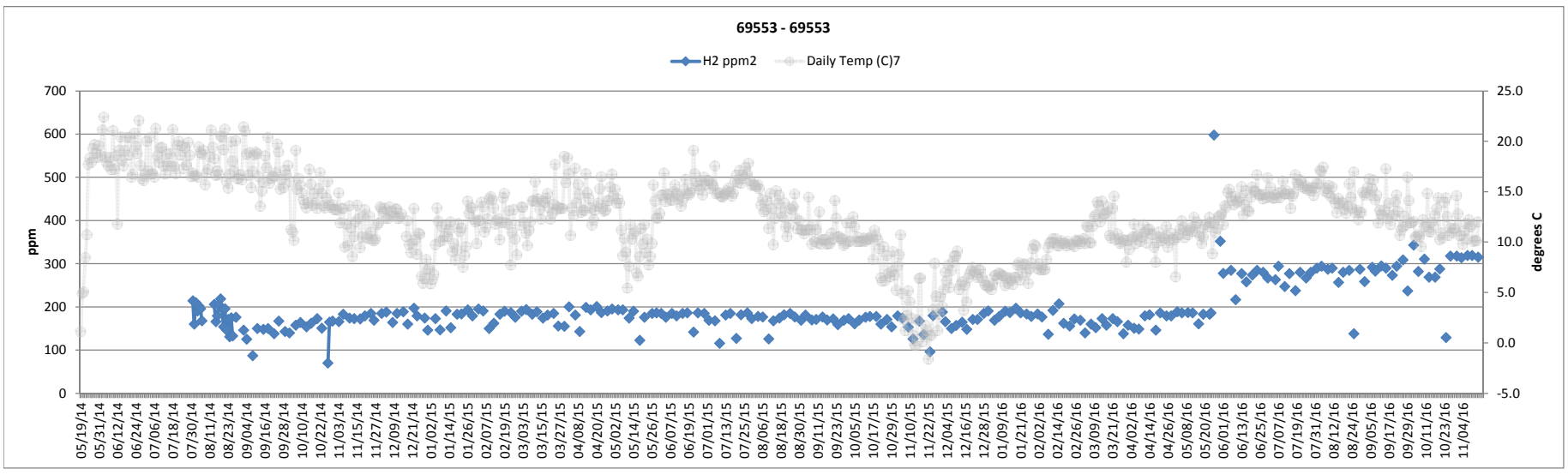


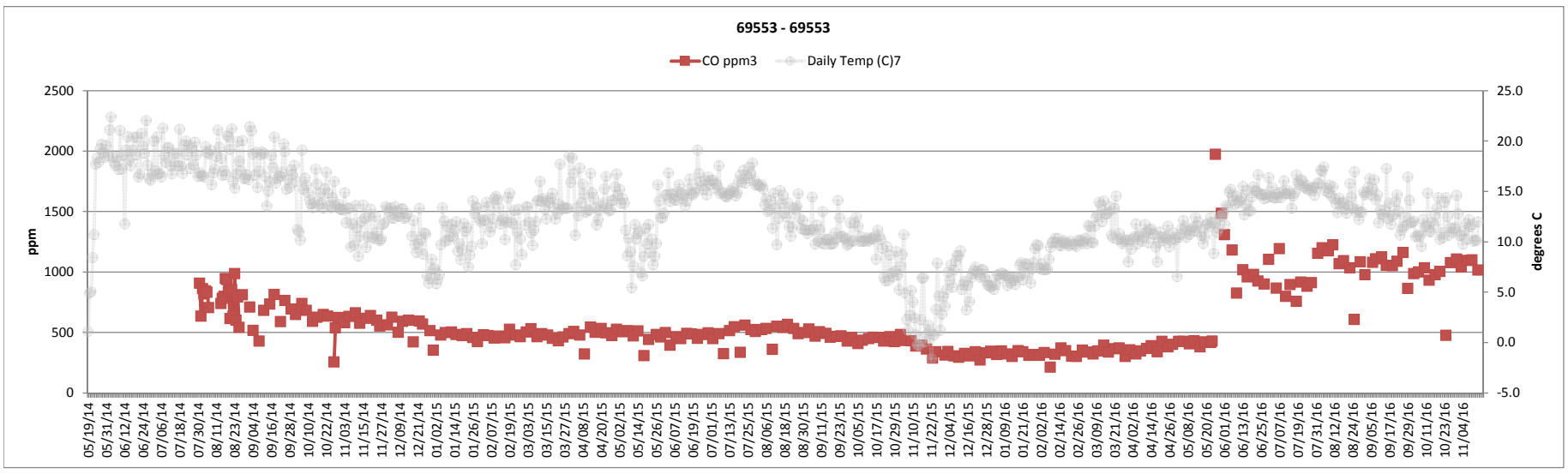


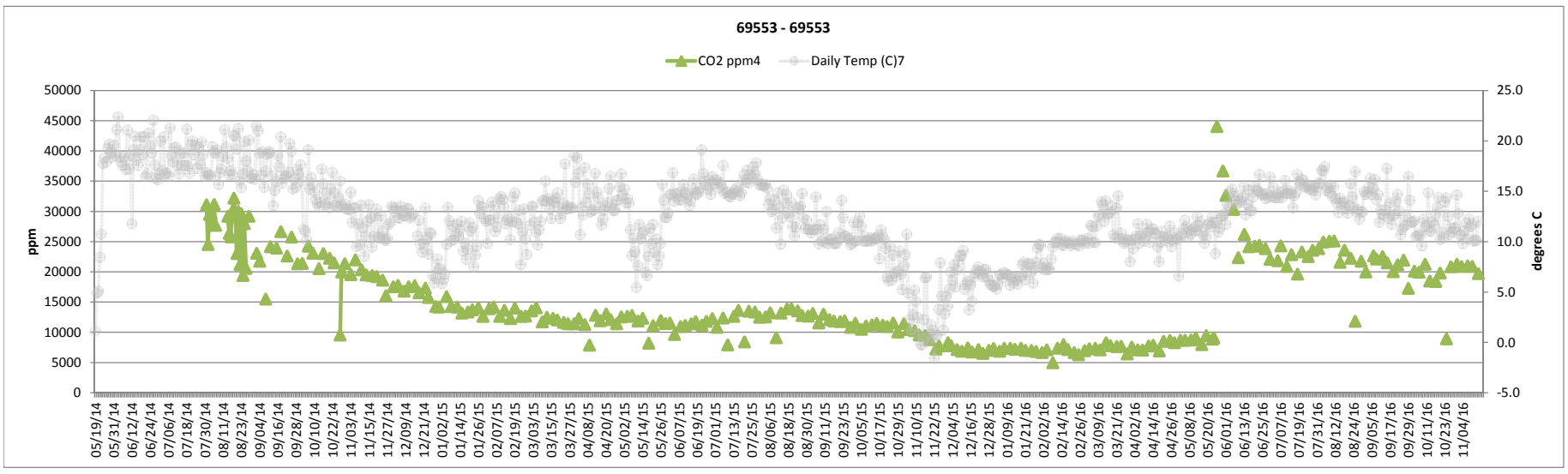


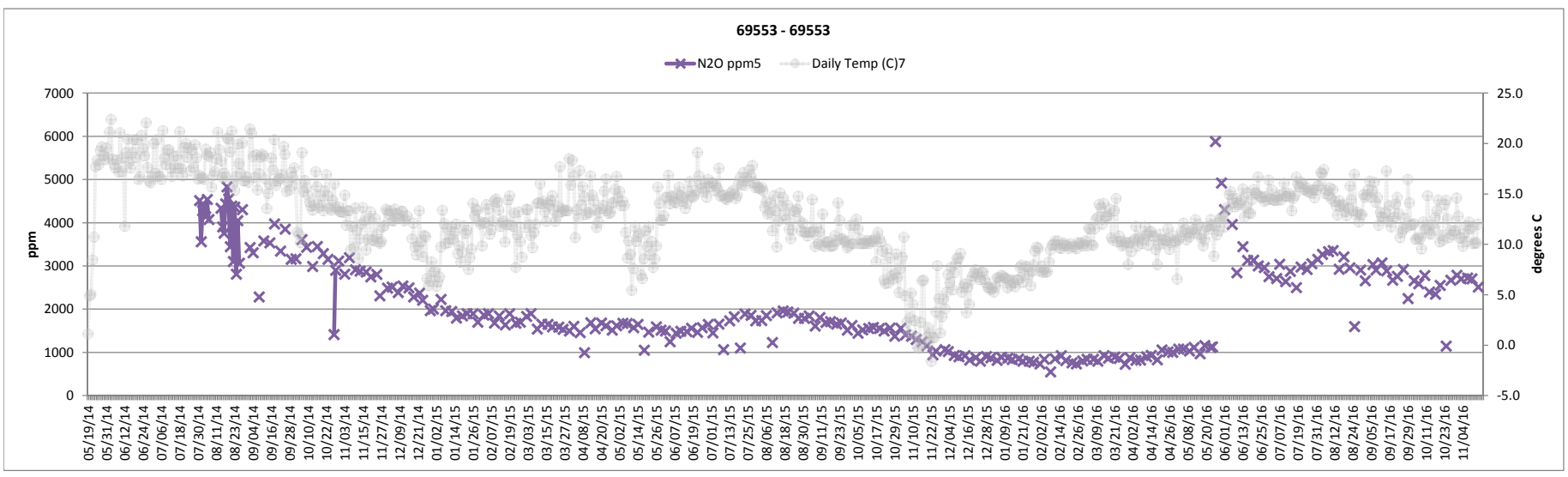


Remediated Nitrate Salt Container Headspace Gas and Temperature

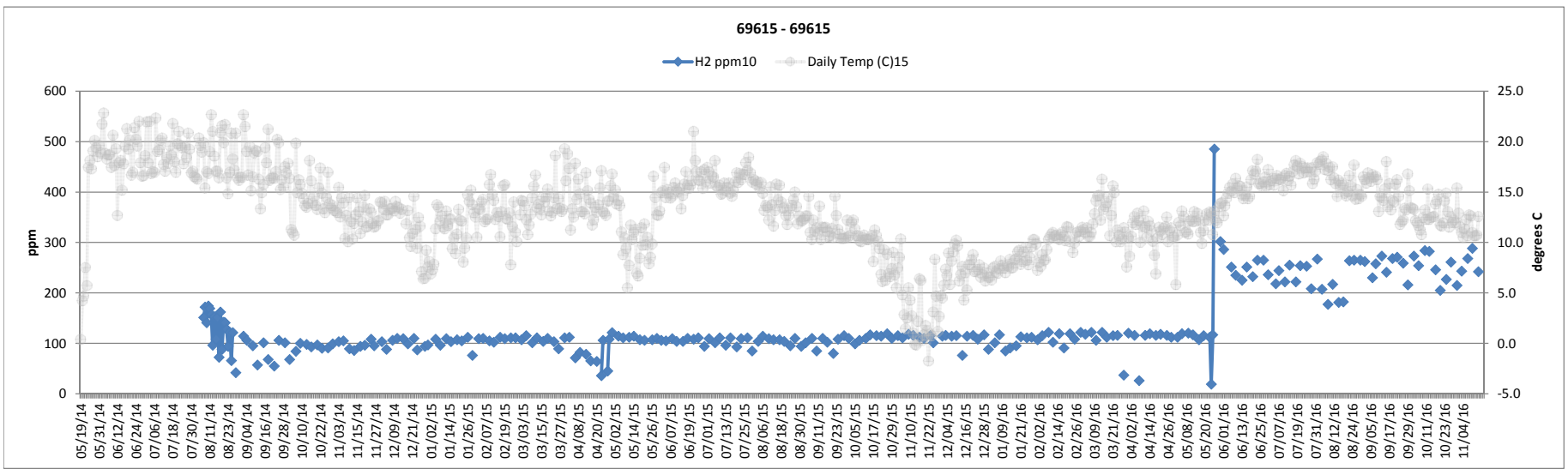


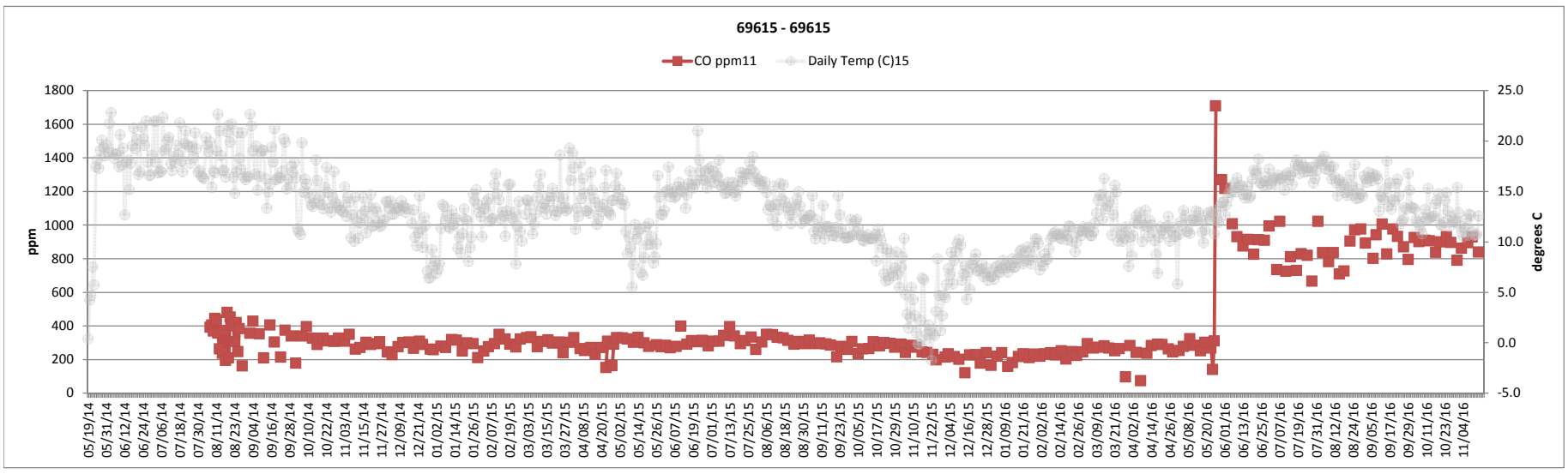


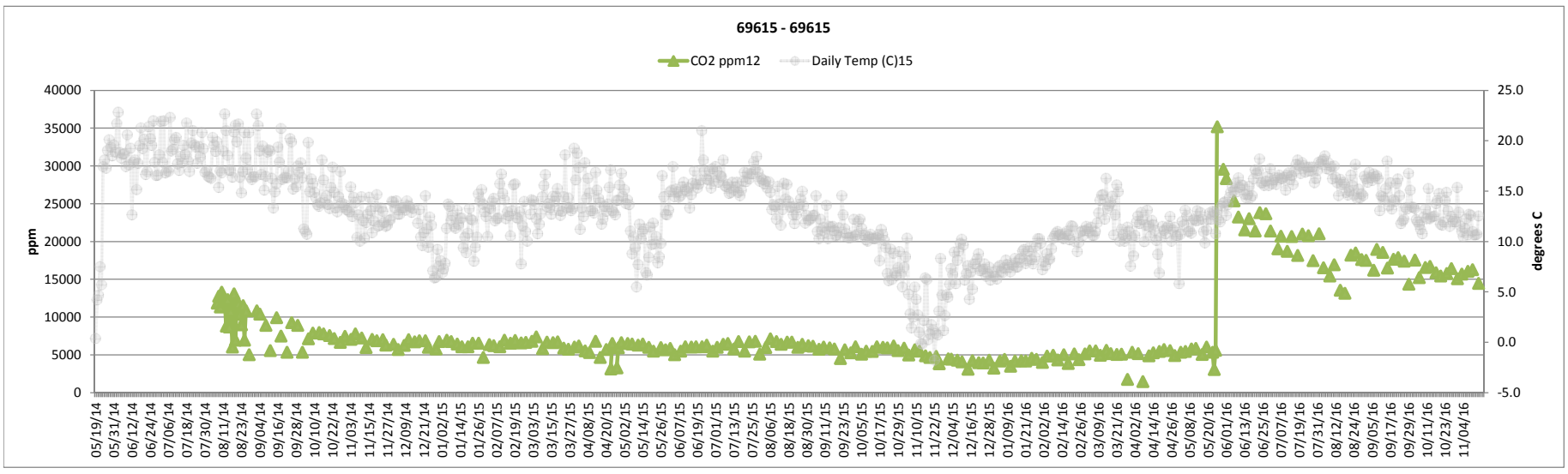


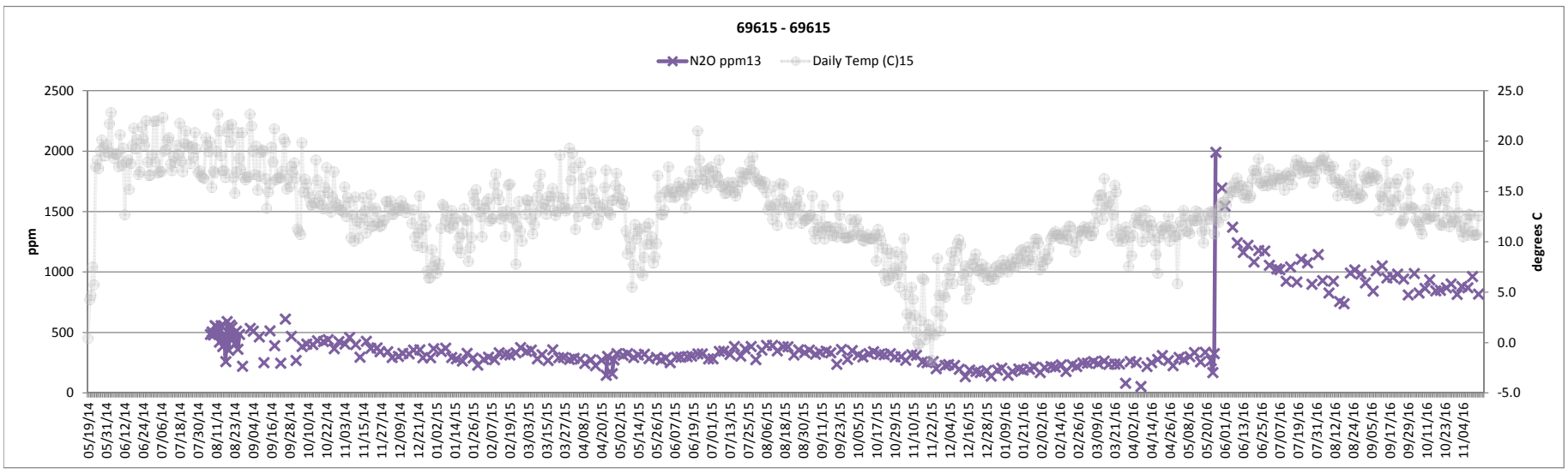


Remediated Nitrate Salt Container Headspace Gas and Temperature

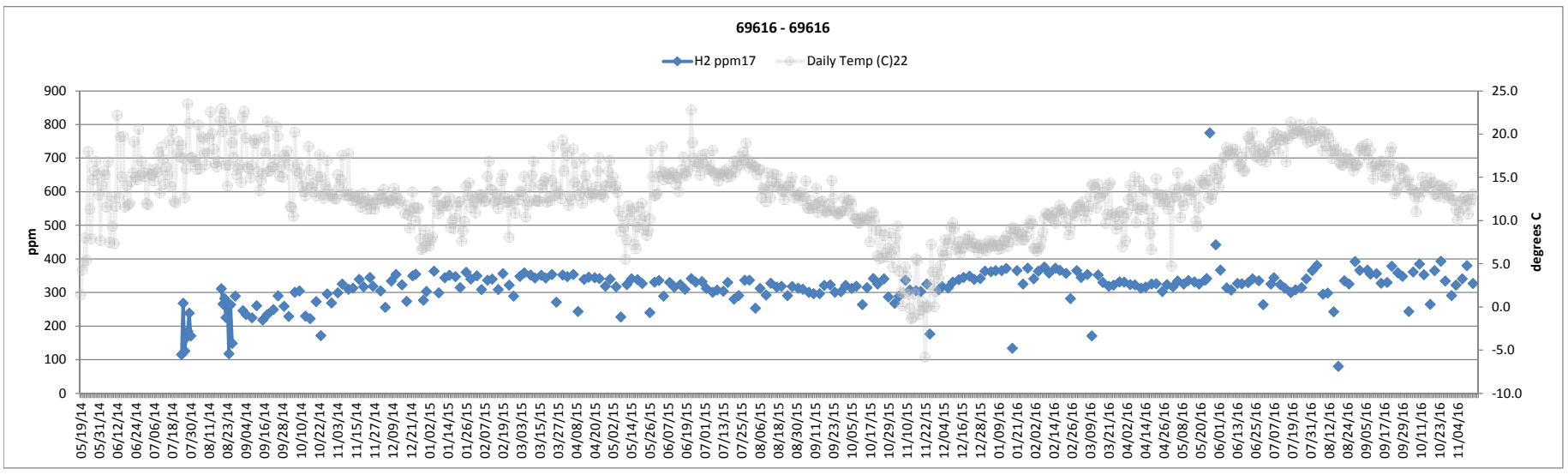


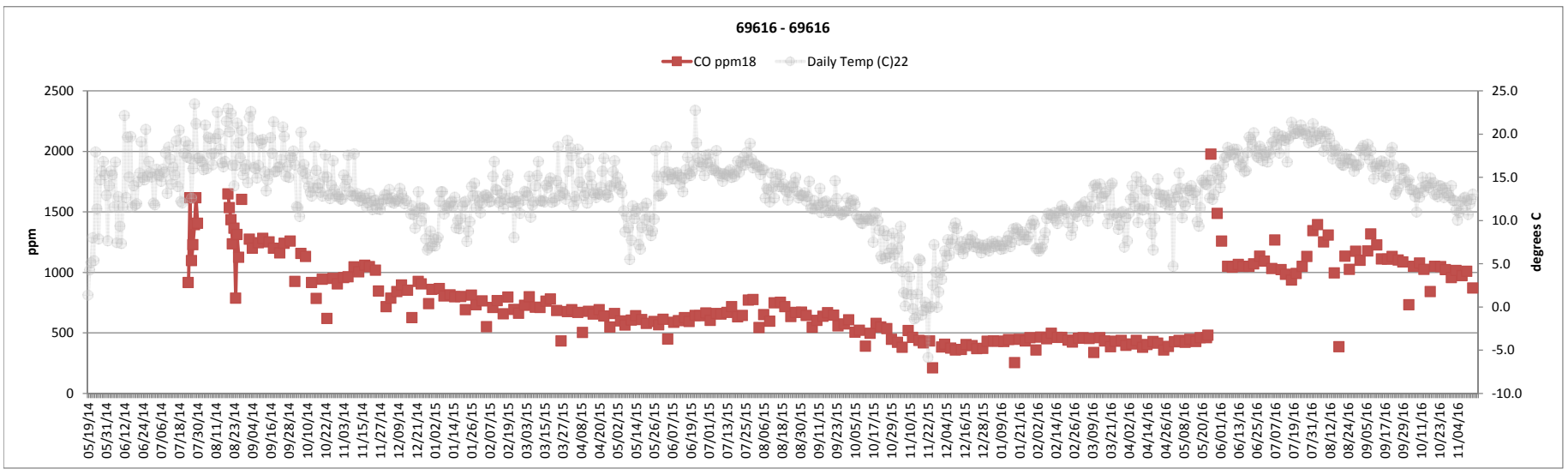


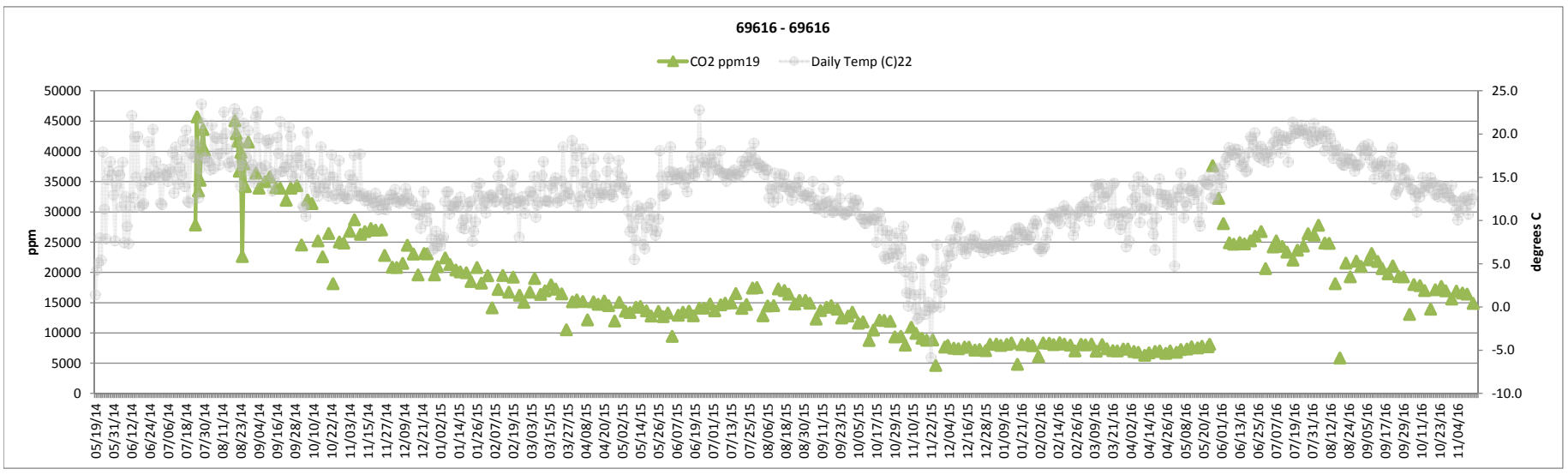


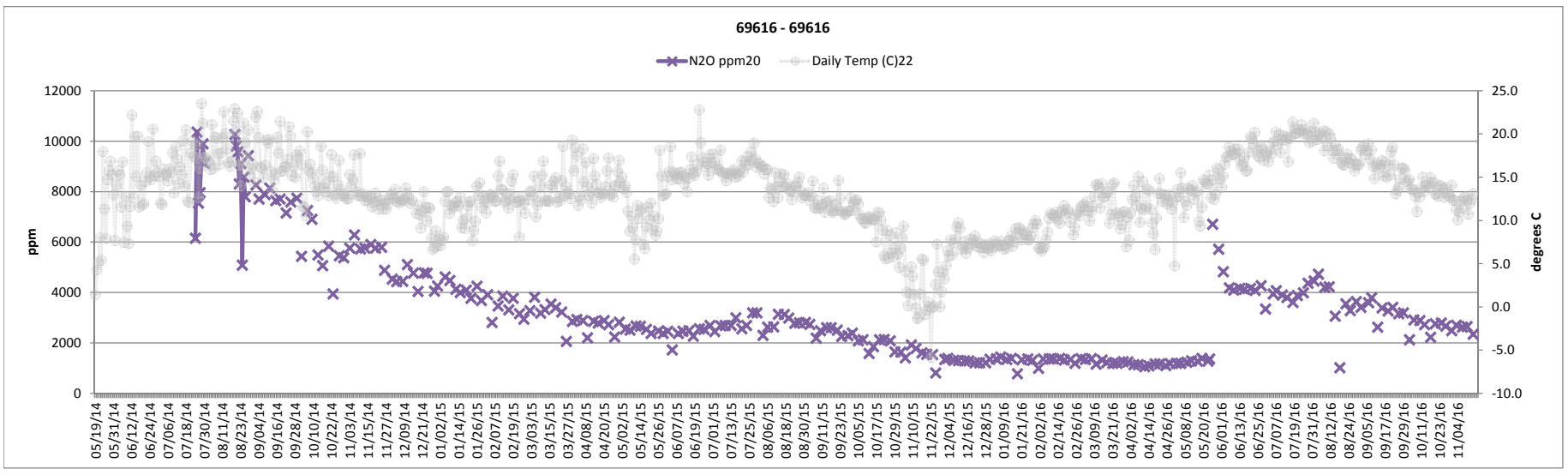


Remediated Nitrate Salt Container Headspace Gas and Temperature

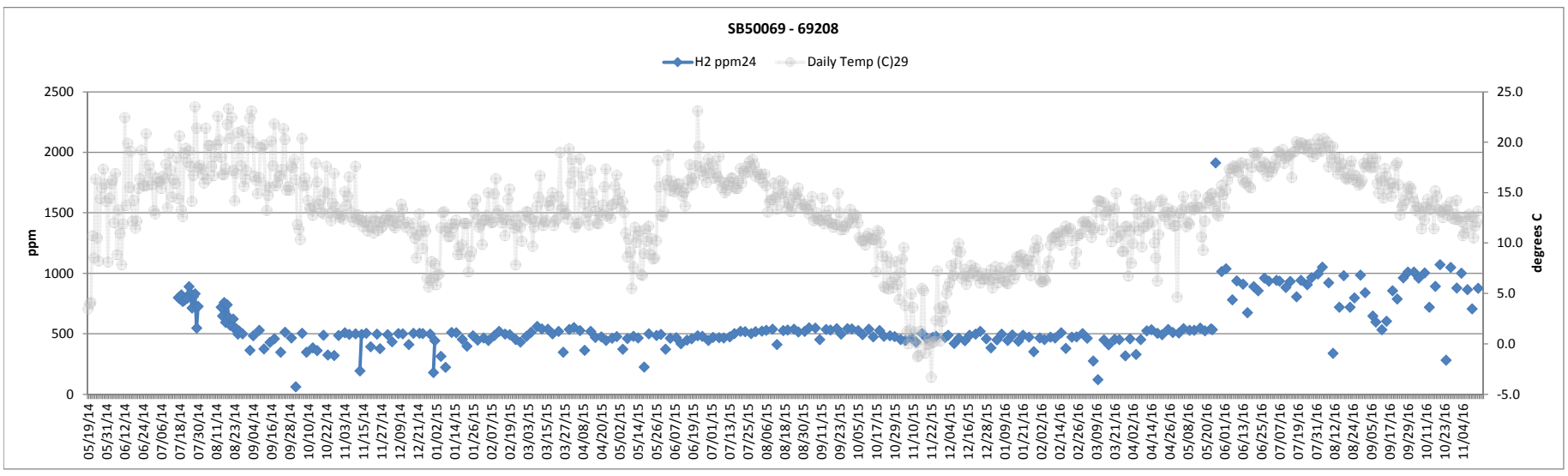


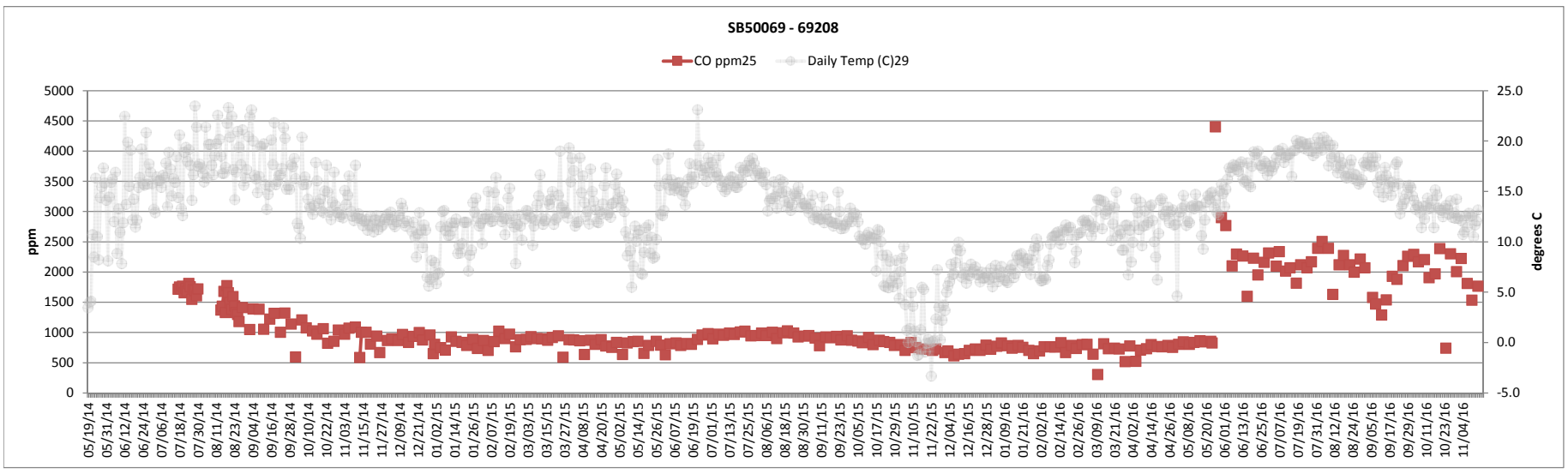


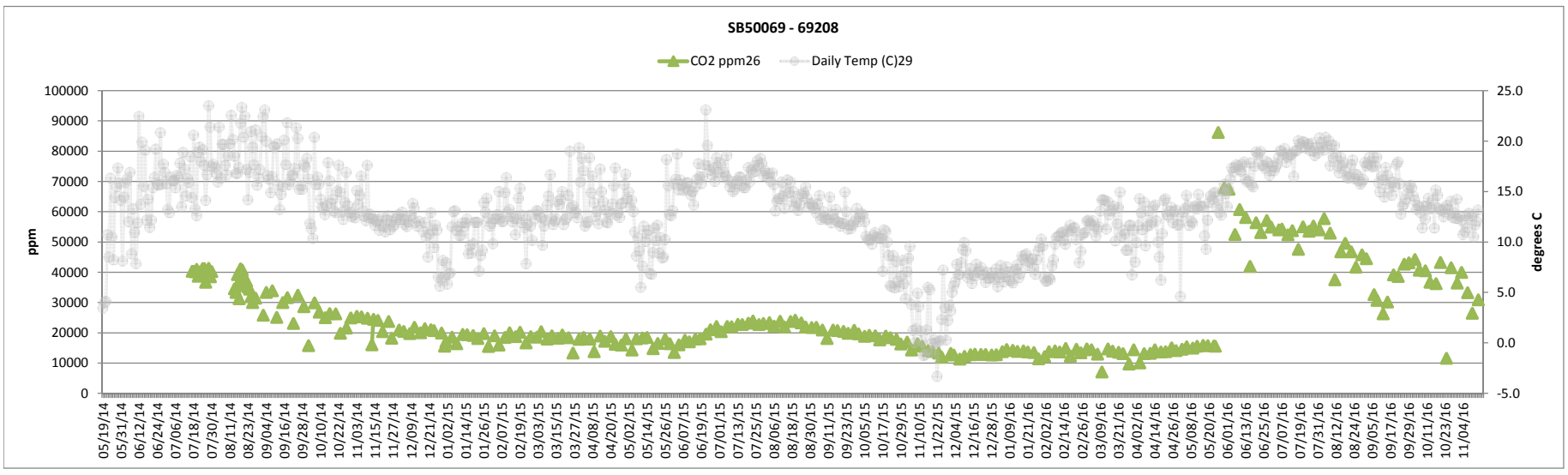


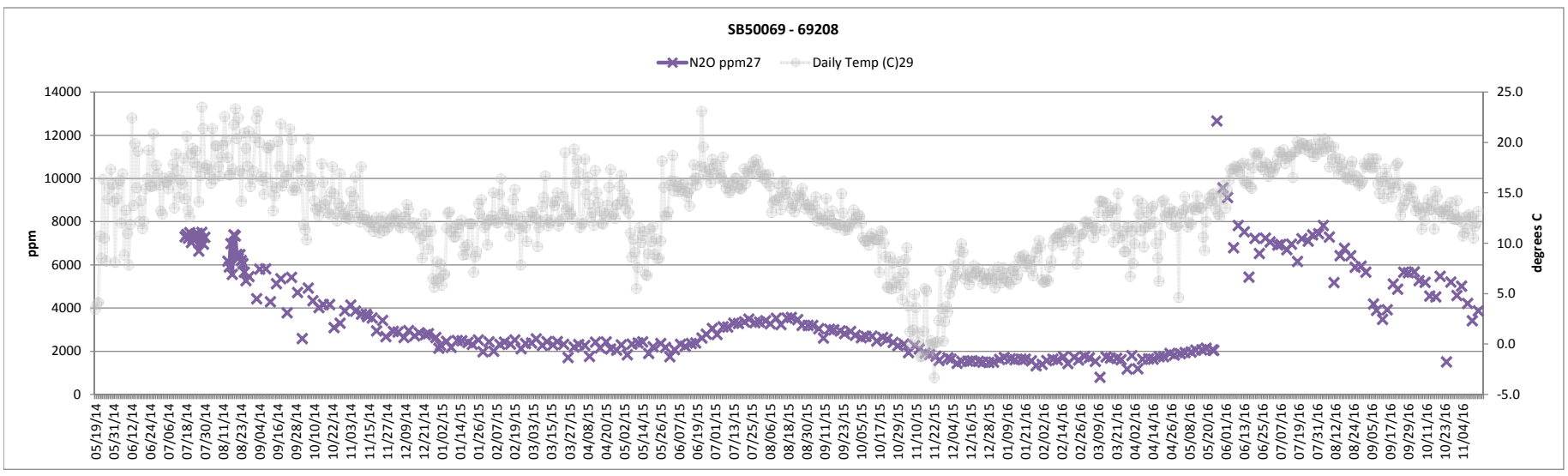


Remediated Nitrate Salt Container Headspace Gas and Temperature

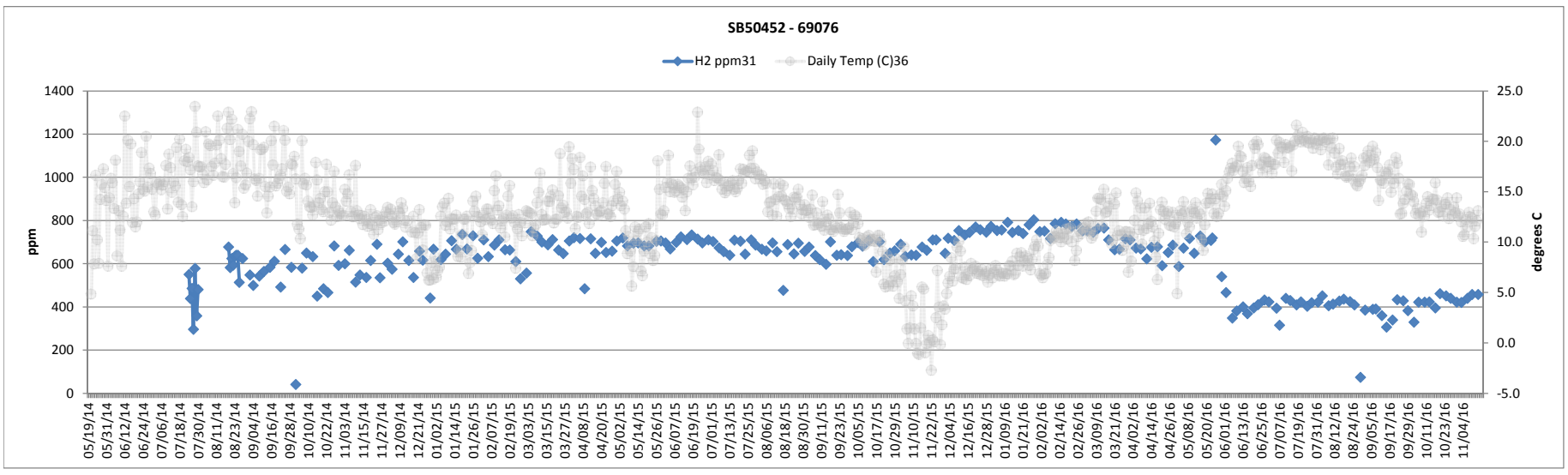


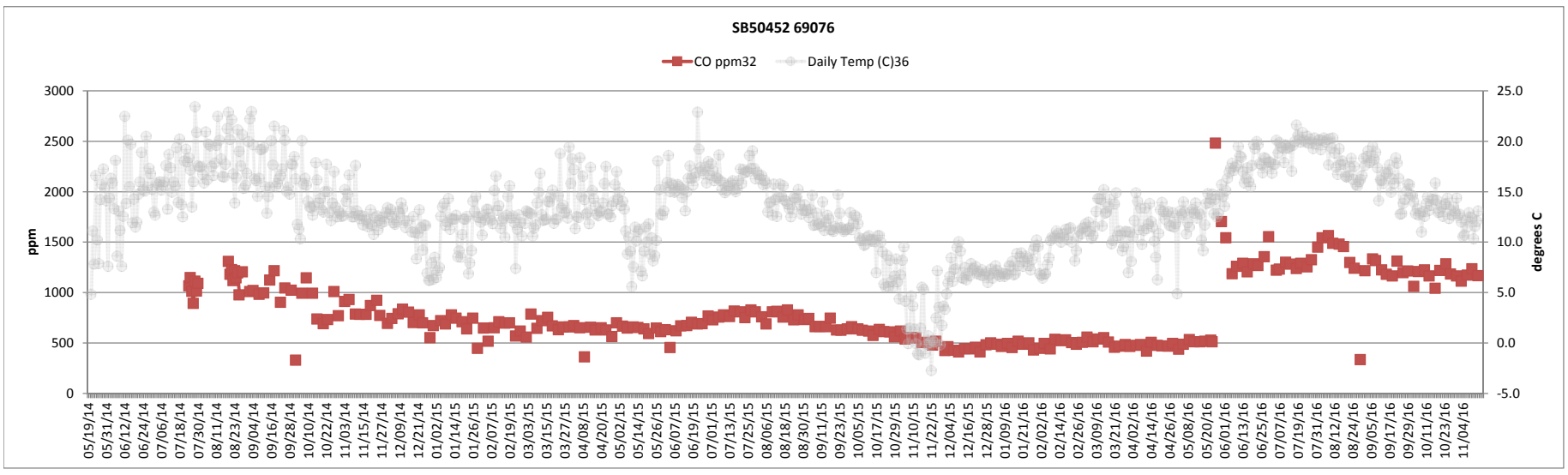


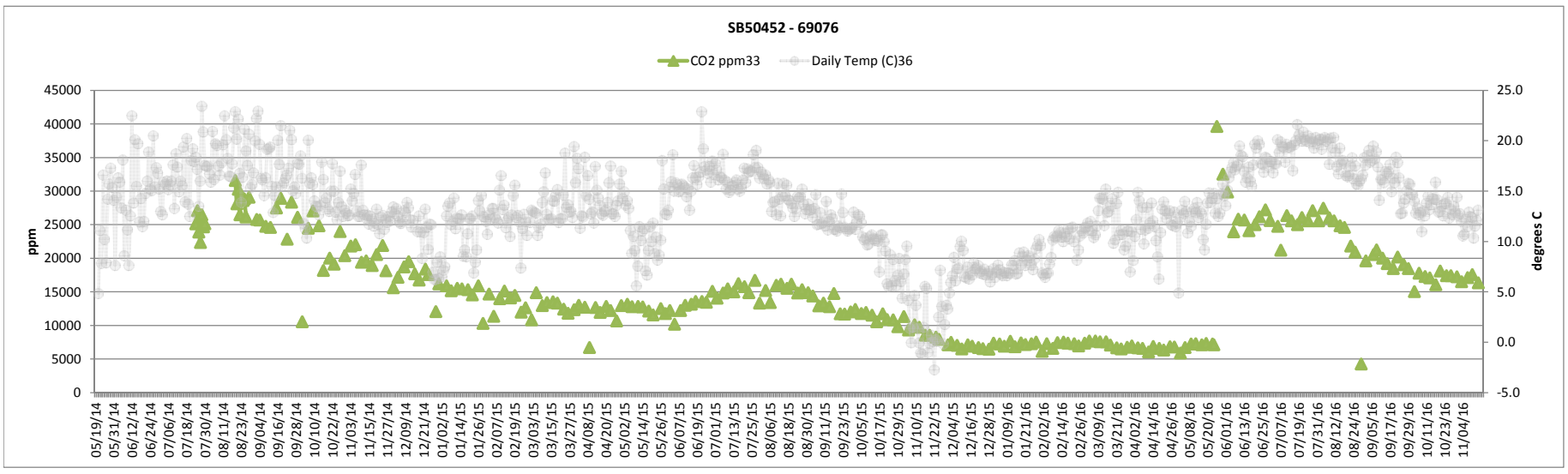


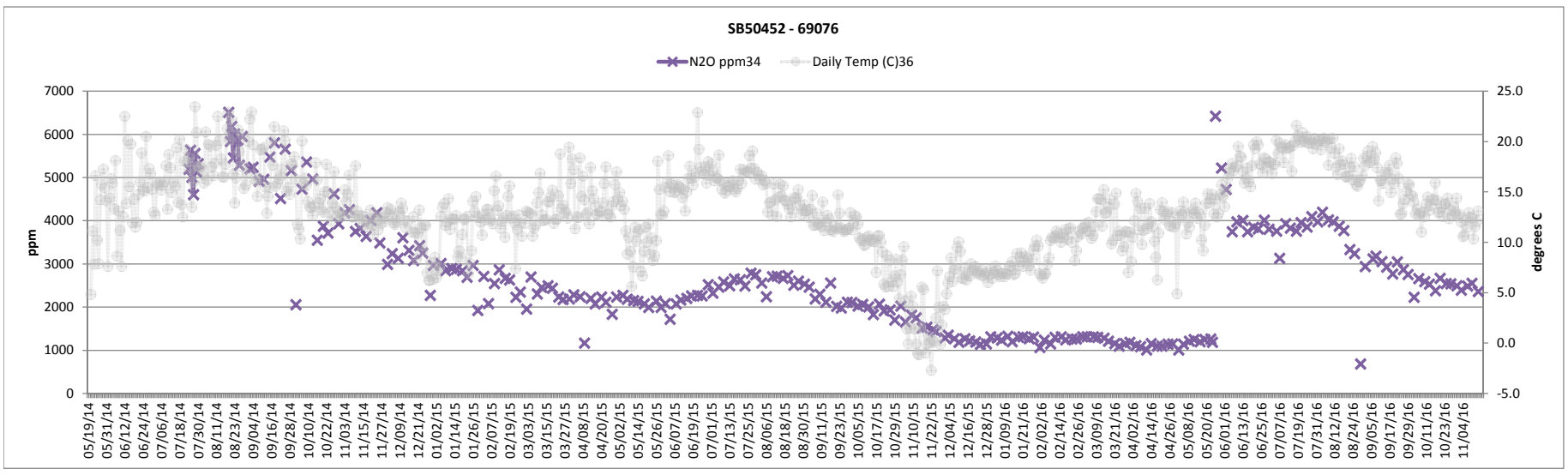


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 3

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 6.[4] Date & Start Time: 10-17-16/1539	Tuesday 6.[4] Date & Start Time: 10-18-16/1325	Wednesday 6.[4] Date & Start Time: 10-19-16/1322	Thursday 6.[4] Date & Start Time: 10-20-16/1357	Friday 6.[4] Date & Start Time: 10-21-16/1318	Saturday 6.[4] Date & Start Time: 10-22-16/1312	Sunday 6.[4] Date & Start Time: 10-23-16/1313
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104841	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number: 104841	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975
Ambient Temperature (6.[5])	62.2 °F	59.3 °F	56.7 °F	56.3 °F	58.9 °F	55.9 °F	57.7 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	61.3	59.7	56.6	57.3	57.6	54.8	57.2
LA00000070503 68540	60.9	58.6	55.8	56.1	55.5	54.4	56.2
LA00000070503 68553	61.0	58.7	57.1	55.9	55.5	54.8	56.8
69445	61.5	58.4	57.2	56.7	55.9	54.6	56.2
69618	59.8	58.1	56.6	56.1	56.5	55.0	57.0
69013	61.1	59.8	58.4	56.5	57.7	55.6	57.6
LASB50522 69076	60.6	57.8	56.4	55.7	56.6	54.8	57.0
LASB50452 69490	60.6	57.5	55.3	55.4	56.4	54.6	56.8
LASB50431 69280	59.2	57.2	56.9	55.0	55.9	54.2	56.1
LASB50069 69208	59.3	58.3	56.0	55.7	55.6	54.5	56.0
LASB50073 69079	59.5	57.9	56.8	55.4	55.7	54.9	56.6
69636	58.7	57.3	55.9	55.7	55.4	54.8	56.6

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	58.9	57.7	57.9	55.4	55.5	55.0	57.3
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	60.7	59.4	56.6	57.3	56.1	55.1	56.2
69520	60.4	57.9	57.8	55.4	54.6	55.2	56.8
69641	60.2	57.4	56.8	57.1	55.6	54.8	56.7
69298	59.1	57.3	56.0	55.1	55.0	54.0	55.7
LASB02203 92669	58.4	56.9	54.9	55.4	57.0	54.2	55.0
End Time (6.[14])	1542	1328	1327	1404	1322	1318	1317
6.[14]	WO: EP WO: FA	WO: MZ WO: FA	WO: VM WO: FA	WO: VM WO: FA	WO: EP WO: [illegible]	WO: EP WO: [illegible]	WO: EP WO: [illegible]

Comments: N/C

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	1004971	EP	10-17-16
Fabian Anaya	Fabian Anaya	1749163	FA	10-17-16
MATTHEW ZOCCO	Matthew Zocco	1311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	1749163	FA	10-18-16
Valerie Martinez	Valerie Martinez	1239958	VM	10-19-16
Fabian Anaya	Fabian Anaya	1749163	FA	10-19-16
Valerie Martinez	Valerie Martinez	1239958	VM	10/20/16
Fabian Anaya	Fabian Anaya	1749163	FA	10-20-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-21-16
Juan Garcia	Juan Garcia	1169840	JG	10-21-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-22-16
Juan Garcia	Juan Garcia	1169840	JG	10-22-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-23-16
Juan Garcia	Juan Garcia	1169840	JG	10-23-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 10-17-16/1523	Tuesday 6.[4] Date & Start Time: 10-18-16/1320	Wednesday 6.[4] Date & Start Time: 10-19-16/1317	Thursday 6.[4] Date & Start Time: 10-20-16/1405	Friday 6.[4] Date & Start Time: 10-21-16/1314	Saturday 6.[4] Date & Start Time: 10-22-16/1306	Sunday 6.[4] Date & Start Time: 10-23-16/1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841
Ambient Temperature (6.[5])	56.8 °F	58.3 °F	57.7 °F	53.0 °F	52.9 °F	52.1 °F	58.1 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	53.5	56.9	58.5	50.5	52.1	52.1	55.8
68638	55.2	56.5	57.2	51.0	50.2	51.1	56.8
69615	56.8	57.4	58.6	53.1	52.9	53.5	57.4
69635	56.3	57.2	57.7	51.7	52.7	53.0	57.5
69642	57.7	58.0	58.5	53.9	53.7	53.4	57.9
69630	56.7	57.1	57.4	53.8	52.3	52.8	56.7
69633	56.2	58.0	58.0	51.6	51.8	52.3	57.1
68430	56.4	57.4	58.2	50.7	53.6	52.4	58.2
68631	53.5	56.1	57.8	49.2	50.0	50.1	56.5
69634	51.5	55.9	56.7	49.5	50.5	50.1	55.9
68567	55.3	56.0	58.4	50.5	50.0	51.1	57.0
94227	54.4	55.6	56.7	49.5	50.5	50.9	56.7
LASB50442 68648	56.0	56.6	57.4	51.1	50.9	51.2	56.2
69644	56.2	55.5	56.8	52.7	53.1	51.9	56.9
LASB50443 69183	56.7	56.9	57.8	52.6	52.2	52.2	~~57.5~~ 57.5
69638	57.2	57.2	58.1	52.6	52.2	52.2	57.4

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Container ID #		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		56.2	56.6	58.0	51.6	52.0	52.1	57.2
68507		56.6	56.7	57.9	52.1	51.5	52.2	57.9
69568		54.5	55.6	57.0	50.3	51.5	50.8	56.7
69553		54.8	56.0	57.9	50.4	51.6	50.7	57.1
69598		55.5	56.2	59.1	51.0	52.4	52.4	59.2
LASB50559	92472	54.7	57.6	57.6	49.1	49.0	49.8	56.3
	92459	52.3	56.6	10.14.16 ~~58~~ 57.8	48.4	48.7	49.2	56.7
69015		57.6	57.7	58.4	51.5	53.0	52.7	58.6
69639		55.2	55.9	57.8	51.6	51.5	51.7	56.5
69637		56.2	57.6	58.1	52.0	51.6	51.4	57.5
End Time (6.[14])		1537	1324	1321	1413	1317	1311	1312
6.[14]		WO: EP WO: FK	WO: MZ WO: FK	WO: YOM WO: FK	WO: YOM WO: FK	WO: EP WO: [illegible]	WO: EP WO: [illegible]	WO: EP WO: [illegible]

Comments: N/C

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	100497	EP	10-17-16
Fabian Anaya	Fabian Anaya	174963	FA	10-17-16
MATTHEW ZUCCO	Matthew Zucco	1311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	174963	FA	10-18-16
Valerie Martinez	Valerie Martinez	239958	VM	10-19-16
Fabian Anaya	Fabian Anaya	174963	FA	10-19-16
Valerie Martinez	Valerie Martinez	239958	VM	10/20/16
Fabian Anaya	Fabian Anaya	174963	FA	10-20-16
Edward Pacheco	Edward Pacheco	100497	EP	10-21-16
Juan Garcia	Juan Garcia	169840	JG	10-21-16
Edward Pacheco	Edward Pacheco	100497	EP	10-22-16
Juan Garcia	Juan Garcia	169840	JG	10-22-16
Edeward Pacheco	Edeward Pacheco	100497	EP	10-23-16
Juan Garcia	Juan Garcia	169840	JG	10-23-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4

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

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

	Monday 6.[4] Date & Start Time: 10-17-16/1517	Tuesday 6.[4] Date & Start Time: 10-18-16/1315	Wednesday 6.[4] Date & Start Time: 10-19-16/1311	Thursday 6.[4] Date & Start Time: 10-20-16/1414	Friday 6.[4] Date & Start Time: 10-21-16/1308	Saturday 6.[4] Date & Start Time: 10-22-16/1300	Sunday 6.[4] Date & Start Time: 10-23-16/1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104840	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104840	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number 104840
Ambient Temperature (6.[5])	58.9 °F	55.6 °F	58.2 °F	56.8 °F	53.8 °F	53.8 °F	57.0 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	60.4	55.7	56.7	53.1	52.6	52.3	54.8
69645	56.4	53.7	53.0	51.8	52.2	51.6	53.6
94068	56.1	53.9	54.2	51.5	51.8	52.5	52.5
93605	58.3	56.9	55.1	53.2	52.9	52.8	54.5
69548	59.5	55.5	55.8	53.9	52.0	52.6	54.8
69604	58.5	56.0	55.5	52.8	52.7	53.4	55.2
LASB50529 68665	57.7	55.2	55.2	53.0	52.3	53.0	55.2
LASB50418 69595	58.5	56.3	55.7	53.9	52.9	53.4	55.3
69036	58.8	56.4	56.5	53.1	52.6	53.7	55.4
LASB50451 69361	58.1	56.2	56.3	53.0	52.4	53.4	55.5
69559	58.9	56.0	56.3	53.5	52.5	52.9	54.3
LASB50448 69491	59.0	55.7	56.0	53.3	54.3	53.3	56.2

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	62.0	58.9	58.5	54.0	54.5	56.7	58.0
87826	60.7	57.3	57.5	53.9	53.8	54.0	55.3
87823	61.7	58.8	58.6	54.6	54.4	53.8	55.4
87825	60.9	60.3	60.5	55.9	53.2	54.4	56.2
End Time (6.[14])	1522	1319	1316	1419	1313	1305	1305
6.[14]	WO: EP WO: FA	WO: MZ WO: FA	WO: VM WO: FA	WO: VM WO: FA	WO: EP WO: [illegible]	WO: EP WO: [illegible]	WO: EP WO: [illegible]

Comments: N/C

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	1004971	EP	10-17-16
Fabian Anaya	Fabian Anaya	1749631	FA	10-17-16
MATTHEW ZUCCO	Matthew Zucco	1311676	MZ	10-18-16
Fabian Anaya	Fabian Anaya	1749631	FA	10-18-16
Valerie Martinez	Valerie Martinez	1239958	VM	10-19-16
Fabian Anaya	Fabian Anaya	1749631	FA	10-19-16
Valerie Martinez	Valerie Martinez	1239958	VM	10/20/16
Fabian Anaya	Fabian Anaya	1749631	FA	10-20-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-22-16
Juan Garcia	Juan Garcia	1169840	JG	10-21-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-22-16
Juan Garcia	Juan Garcia	1169840	JG	10-22-16
Edward Pacheco	Edward Pacheco	1004971	EP	10-23-16
Juan Garcia	Juan Garcia	1169840	JG	10-23-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 10·21·16 / 1432	Tuesday 6.[4] Date & Start Time: 10·25·16 / 1426	Wednesday 6.[4] Date & Start Time: 10·26·16 / 1307	Thursday 6.[4] Date & Start Time: 10·27·16 / 1412	Friday 6.[4] Date & Start Time: 10·28·16 / 1315	Saturday 6.[4] Date & Start Time: 10·29·16 / 1313	Sunday 6.[4] Date & Start Time: 10·30·16 / 1312
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975
Ambient Temperature (6.[5])	58.3 °F	58.0 °F	55.9 °F	59.1 °F	55.2 °F	56.4 °F	55.3 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	58.7	59.2	57.0	58.5	56.4	57.5	57.1
LA00000070503 68540	57.8	57.3	56.9	56.2	55.1	56.3	55.5
LA00000070503 68553	58.1	57.6	55.9	56.9	56.0	56.2	55.6
69445	58.0	57.4	55.1	56.9	55.4	56.5	55.9
69618	57.5	57.5	56.1	58.4	55.8	56.7	55.6
69013	58.6	58.6	55.3	56.4	56.3	57.3	56.4
LASB50522 69076	57.9	57.1	54.9	56.4	55.5	55.9	55.0
LASB50452 69490	56.8	57.9	54.2	55.8	54.8	56.3	55.2
LASB50431 69280	56.4	56.2	54.2	55.6	54.3	55.1	54.3
LASB50069 69208	56.5	55.9	54.9	57.3	54.4	55.2	54.2
LASB50073 69079	57.7	57.6	54.8	56.4	55.1	55.9	55.4
69636	57.4	56.6	55.2	57.3	55.2	55.7	55.2

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Z# 239958
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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	57.2	56.6	54.8	56.8	55.8	55.2	54.9
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	56.9	57.5	55.8	57.2	55.8	56.2	55.5
69520	57.8	55.4	55.7	57.3	55.5	56.2	55.3
69641	57.9	56.9	54.9	57.0	55.6	56.9	55.1
69298	56.5	57.3	54.1	55.8	54.7	55.7	54.8
LASB02203 92669	55.9	57.4	54.0	55.5	54.2	54.8	54.1
End Time (6.[14])	1435	1430	1312	1416	1319	1316	1316
6.[14]	WO: VM WO: KM	WO: VM WO: MZ	WO: VM WO: KM	WO: VM WO: KM	WO: KM WO: [illegible]	WO: KM WO: [illegible]	WO: KM WO: [illegible]

Comments:

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10/24/16
Leon Montoya		191526	LM	10-24-16
Valerie Martinez	Valerie Martinez	239958	VM	10/25/16
MATT ZOCCO		311676	MZ	10-25-16
Valerie Martinez	Valerie Martinez	239958	VM	10-26-16
Leon Montoya		191526	LM	10-26-16
Valerie Martinez	Valerie Martinez	239958	VM	10-26-16
Leon Montoya		191526	LM	10-27-16
Leon Montoya		191526	LM	10-28-16
Robert Hansel		291778		10-28-16
Leon Montoya		191526	LM	10-29-16
Robert Hansel		291778		10-29-16
Leon Montoya		191526	LM	10-30-16
Robert Hansel		291778		10-30-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 10-24-16 / 1333	Tuesday 6.[4] Date & Start Time: 10-25-16 / 1419	Wednesday 6.[4] Date & Start Time: 10-26-16 / 1313	Thursday 6.[4] Date & Start Time: 10-27-16 / 1407	Friday 6.[4] Date & Start Time: 10-28-16 / 1308	Saturday 6.[4] Date & Start Time: 10-29-16 / 1306	Sunday 6.[4] Date & Start Time: 10-30-16 / 1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841
Ambient Temperature (6.[5])	59.1 °F	53.9 °F	52.1 °F	53.7 °F	52.3 °F	53.4 °F	52.7 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	58.7	52.9	50.2	51.7	50.8	51.1	50.7
68638	58.8	53.5	52.1	53.6	51.7	52.5	52.1
69615	58.8	55.5	52.7	54.5	53.6	54.0	53.5
69635	58.5	55.0	52.6	54.8	53.5	53.5	53.4
69642	58.8	55.2	53.4	55.7	53.9	54.5	53.7
69630	58.3	54.3	53.2	55.0	53.2	53.7	52.9
69633	57.8	54.3	52.6	54.2	53.4	53.3	52.8
68430	59.2	55.1	52.7	54.5	53.0	54.1	52.9
68631	58.3	52.8	50.0	51.9	49.8	51.7	50.3
69634	57.3	51.2	49.9	51.3	50.4	50.2	52.6
68567	57.9	54.2	51.3	51.9	51.8	51.6	51.1
94227	58.0	52.8	50.9	52.2	51.1	51.9	52.6
LASB50442 68648	57.5	54.4	50.0	53.4	52.9	53.4	52.5
69644	57.4	54.3	52.7	54.3	53.1	53.7	53.2
LASB50443 69183	57.9	55.3	52.5	54.1	53.1	54.2	53.2
69638	58.8	54.6	52.8	54.2	53.5	53.7	53.4

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Container ID #		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		58.6	54.5	52.0	54.1	52.7	53.4	53.1
68507		58.4	54.9	52.9	54.8	52.7	54.1	52.6
69568		57.5	53.3	51.1	52.0	51.0	51.8	51.3
69553		57.9	54.5	51.2	52.5	51.7	52.3	52.5
69598		58.4	54.4	51.9	54.1	52.4	53.1	50.0
LASB50559	92472	58.2	52.7	50.6	51.6	50.4	51.4	1:30 49.0
	92459	58.0	50.8	49.5	51.0	49.1	49.9	52.5
69015		58.9	54.8	52.1	54.0	52.7	53.6	52.5
69639		57.4	53.9	52.5	54.3	52.6	53.8	52.8
69637		58.5	54.0	51.9	54.3	52.3	52.8	51.9
End Time (6.[14])		1336	1425	1319	1411	1314	1312	1311
6.[14]		WO: YOM WO: LM	WO: YOM WO: MZ	WO: YOM WO: LM	WO: YOM WO: LM	WO: [illegible] WO: LM	WO: LM WO: [illegible]	WO: LM WO: [illegible]

Comments:

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10/24/16
Leon Montoya		191526	LM	10-24-16
Valerie Martinez	Valerie Martinez	239958	VM	10/25/16
Matt Zocco		1311676	MZ	10-25-16
Valerie Martinez	Valerie Martinez	239958	VM	10/26/16
Leon Montoya		191526	LM	10-26-16
Valerie Martinez	Valerie Martinez	239958	VM	10-26-16
Leon Montoya		191526	LM	10-27-16
Leon Montoya		191526	LM	10-28-16 LM 10-28-16
Robert Hassel		291778		10-28-16
Leon Montoya		191526	LM	10-29-16
Robert Hassel		291778		10-29-16
Leon Montoya		191526	LM	10-30-16
Robert Hassel		291778		10-30-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4

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

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

	Monday 6.[4] Date & Start Time: 10·24·16 / 1328	Tuesday 6.[4] Date & Start Time: 10·25·16 / 1411	Wednesday 6.[4] Date & Start Time: 10·26·16 / 1320	Thursday 6.[4] Date & Start Time: 10·27·16 / 1402	Friday 6.[4] Date & Start Time: 10·28·16 / 1301	Saturday 6.[4] Date & Start Time: 10·29·16 / 1300	Sunday 6.[4] Date & Start Time: 10·30·16 / 1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842
Ambient Temperature (6.[5])	56.8 °F	56.8 °F	55.0 °F	57.8 °F	55.8 °F	56.9 °F	55.0 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	56.3	55.9	53.4	55.9	54.8	55.6	53.6
69645	54.4	53.9	52.1	54.8	53.4	54.4	~~[illegible]~~ 51.9
94068	54.4	53.9	51.6	54.5	53.5	54.0	51.6
93605	55.7	55.5	52.9	56.0	54.1	55.1	53.1
69548	55.6	55.7	53.7	55.6	54.4	55.2	53.7
69604	56.1	56.1	53.8	56.6	54.9	56.0	53.5
LASB50529 68665	55.2	56.0	53.3	56.0	55.1	55.2	53.4
LASB50418 69595	56.1	55.9	53.7	55.9	54.6	55.6	54.0
69036	56.3	56.7	54.2	55.6	54.8	55.8	53.9
LASB50451 69361	56.1	56.4	54.2	56.5	55.0	56.0	54.2
69559	55.1	56.2	53.5	56.4	54.9	55.1	54.3
LASB50448 69491	55.6	55.9	53.7	55.7	55.2	55.9	53.9

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INITIAL VDM DATE 10/24/16

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	57.9	57.6	55.8	59.1	56.4	57.2	56.0
87826	57.3	57.0	55.8	57.8	55.9	56.9	55.0
87823	58.0	57.6	55.7	57.9	56.6	57.4	55.8
87825	58.6	60.2	58.5	58.1	58.1	60.0	58.7
End Time (6.[14])	1332	1418	1326	1406	1307	1305	1305
6.[14]	WO: VOM WO: LM	WO: VOM WO: MZ	WO: VOM WO: LM	WO: VOM WO: LM	WO: LM WO: [illegible]	WO: LM WO: [illegible]	WO: LM WO: [illegible]

Comments:

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10/24/16
Leon Montoya		191526	LM	10-27-16
Valerie Martinez	Valerie Martinez	239958	VM	10/25/16
MATT ZOCCO		311676	MZ	10-25-16
Valerie Martinez	Valerie Martinez	239958	VM	10/26/16
Leon Montoya		191526	LM	10-26-16
Valerie Martinez	Valerie Martinez	239958	VM	10-26-16
Leon Montoya		191526	LM	10-27-16
Leon Montoya		191526	LM	10-28-16
Robert Hauzel		291778		10-28-16
Leon Montoya		191526	LM	10-29-16
Robert Hauzel		291778		10-29-16
Leon Montoya		191526	LM	10-30-16
Robert Hauzel		291778		10-30-16

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 6.[4] Date & Start Time: 10/31/16 / 1340	Tuesday 6.[4] Date & Start Time: 11/01/16 / 1332	Wednesday 6.[4] Date & Start Time: 11/02/16 / 1332	Thursday 6.[4] Date & Start Time: 11-03-16 / 1325	Friday 6.[4] Date & Start Time: 11-04-16 / 1314	Saturday 6.[4] Date & Start Time: 11-5-16 / 1314	Sunday 6.[4] Date & Start Time: 11-06-16 / 1315
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 06-20-17 File Number: 101975
Ambient Temperature (6.[5])	58.0 °F	54.9 °F	56.1 °F	57.0 °F	53.6 °F	52.6 °F	55.3 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	62.2	57.4	58.4	57.3	51.7	51.9	55.5
LA00000070503 68540	58.1	54.5	55.2	54.1	51.2	51.8	54.4
LA00000070503 68553	59.1	54.1	55.1	54.2	52.6	51.7	55.0
69445	57.7	55.0	55.3	54.4	52.2	51.5	54.8
69618	57.9	54.3	55.5	53.9	51.5	51.8	54.5
69013	59.3	54.9	55.7	54.2	51.5	52.3	54.8
LASB50522 69076	56.9	53.6	54.3	53.1	51.3	51.3	54.6
LASB50452 69490	57.9	54.7	55.0	53.6	51.0	51.3	54.0
LASB50431 69280	56.4	52.5	53.2	52.2	50.9	51.2	54.1
LASB50069 69208	57.6	54.2	54.6	53.8	11-4-16 51.3	51.8	54.7
LASB50073 69079	58.3	55.1	54.9	53.9	51.7	51.9	54.5
69636	57.1	53.1	54.7	52.8	51.1	52.2	54.5

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INITIAL: RM DATE: 10/31/16

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	57.3	54.2	54.2	52.2	50.1	51.7	54.0
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	57.7	54.3	54.7	54.4	51.1	52.0	54.6
69520	58.1	54.1	54.7	53.4	51.1	51.6	54.4
69641	58.6	54.4	55.1	53.7	51.0	51.5	54.3
69298	57.3	53.8	54.8	53.3	51.7	51.6	54.4
LASB02203 92669	55.9	52.2	53.6	52.1	50.8	51.8	54.3
End Time (6.[14])	1346	1336	1336	1328	1320	1320	1320
6.[14]	WO: VDM WO: MZ	WO: VDM WO: MZ	WO: [illegible] WO: MZ	WO: FK WO: MZ	WO: [illegible] WO: [illegible]	WO: [illegible] WO: [illegible]	WO: [illegible] WO: MZ

Comments:

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10/31/16
MATT ZOCCO	Matthew Zocco	311676	MZ	10-31-16
Valerie Martinez	Valerie Martinez	239958	VM	11/01/16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-01-16
Juan Garcia	Juan Garcia	169840	JG	11-02-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-02-16
Fabian Anaya	Fabian Anaya	174963	FA	11-03-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-03-16
Juan Garcia	Juan Garcia	169840	JG	11-04-16
Fabian Anaya	Fabian Anaya	174963	FA	11-04-16
Leon montoya	[illegible]	191526	LM	11-05-16
Juan Garcia	Juan Garcia	169840	JG	11-05-16
Leon montoya	[illegible]	191526	LM	11-06-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-06-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 10·31·16/1333	Tuesday 6.[4] Date & Start Time: 11·01·16/1326	Wednesday 6.[4] Date & Start Time: 11-02-16/1326	Thursday 6.[4] Date & Start Time: 11-03-16/1318	Friday 6.[4] Date & Start Time: 11-04-16/1307	Saturday 6.[4] Date & Start Time: 11-05-16/1308	Sunday 6.[4] Date & Start Time: 11-06-16/1307
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01·28·17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date 01-28-17 File Number 104841
Ambient Temperature (6.[5])	59.8 °F	55.9 °F	52.1 °F	50.9 °F	50.9 °F	51.8 °F	53.1 °F
(S) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	59.5	55.8	50.9	50.1	50.6	51.5	54.0
68638	58.8	55.1	51.4	50.2	50.5	51.6	53.8
69615	59.7	55.2	52.8	51.8	50.9	52.4	54.1
69635	58.9	55.5	53.0	52.0	51.2	52.4	54.4
69642	59.1	55.3	52.9	52.0	50.9	52.2	55.6
69630	57.6	54.9	52.1	51.2	50.9	52.5	54.1
69633	58.5	55.1	52.2	51.1	50.5	53.4	53.6
68430	59.5	55.3	52.2	51.6	50.6	52.2	54.0
68631	58.6	54.8	50.0	49.0	49.4	52.0	53.0
69634	58.5	55.1	50.4	49.0	49.1	52.2	53.4
68567	58.9	55.2	50.4	49.7	49.7	52.0	53.4
94227	58.3	55.5	50.2	50.0	51.1	52.1	54.0
LASB50442 68648	57.6	54.9	51.8	51.2	50.0	52.3	53.6
69644	58.1	54.6	52.1	51.6	50.2	52.0	53.6
LASB50443 69183	59.0	55.2	52.6	51.9	50.9	52.4	54.0
69638	58.9	55.6	52.0	51.4	50.4	52.0	54.2

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Container ID #		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		58.7	55.2	51.7	51.9	50.0	51.9	53.6
68507		59.0	55.7	52.7	50.2	50.0	51.7	53.8
69568		57.9	54.7	50.9	50.0	49.1	51.8	53.7
69553		58.3	55.0	51.1	51.2	49.6	52.0	53.3
69598		59.6	55.7	51.3	48.0	49.8	52.0	53.6
LASB50559	92472	59.5	55.4	50.9	49.1	49.3	51.8	53.4
	92459	58.6	55.0	48.8	51.0	50.6	51.7	53.1
69015		59.9	56.0	57.9	51.2	50.5	52.5	52.7
69639		58.1	55.9	52.1	50.9	50.1	52.1	53.6
69637		59.6	55.1	51.7	50.6	49.8	51.9	53.4
End Time (6.[14])		1339	1331	1331	1324	1313	1313	1314
6.[14]		WO: VOM WO: MZ	WO: VOM WO: MZ	WO: [illegible] WO: MZ	WO: FK WO: MZ	WO: FK WO: [illegible]	WO: CM WO: [illegible]	WO: [illegible] WO: MZ

Comments:

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239458	VM	10/31/16
MATT ZOCCO	Matthew Zocco	311676	MZ	10-31-16
Valerie Martinez	Valerie Martinez	239458	VM	11/01/16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-01-16
Juan Garcia	Juan Garcia	169840	JG	11-02-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-02-16
Fabian Anaya	Fabian Anaya	174962	FA	11-03-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-03-16
Fabian Anaya	Fabian Anaya	174962	FA	11-04-16
Juan Garcia	Juan Garcia	169840	JG	11-04-16
Leon montoya	[illegible]	191826	LM	11-05-16
Juan Garcia	Juan Garcia	169840	JG	11-05-16
Leon montoya	[illegible]	191826	LM	11-06-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-06-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4

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

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

	Monday 6.[4] Date & Start Time: 10·31·16/1320	Tuesday 6.[4] Date & Start Time: 11·01·16/1320	Wednesday 6.[4] Date & Start Time: 11-02-16/1320	Thursday 6.[4] Date & Start Time: 11-03-16/1310	Friday 6.[4] Date & Start Time: 11-04-16/1300	Saturday 6.[4] Date & Start Time: 11-05-16/1301	Sunday 6.[4] Date & Start Time: 11-06-16/1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01-28-17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842	Brand: Fluke Model: 561 Cal. Due Date: 01·28·17 File Number: 104842
Ambient Temperature (6.[5])	57.6 °F	53.7 °F	54.2 °F	55.0 °F	54.4 °F	54.3 °F	53.2 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	56.3	53.5	52.9	52.7	50.9	51.6	54.0
69645	54.2	51.6	51.1	52.5	50.4	51.5	52.3
94068	54.9	51.9	51.8	51.1	51.3	51.4	53.4
93605	55.4	53.0	52.8	53.0	51.1	51.8	54.2
69548	55.0	52.7	52.6	52.4	50.9	51.6	53.8
69604	56.9	53.1	53.5	52.9	51.3	51.6	53.7
LASB50529 68665	54.9	52.8	52.5	52.5	50.7	51.4	53.6
LASB50418 69595	56.1	52.9	53.6	52.8	51.5	51.4	53.6
69036	56.6	53.3	53.3	52.9	52.2	51.3	53.6
LASB50451 69361	56.5	53.1	53.5	52.7	51.4	51.4	53.5
69559	56.4	53.6	53.9	53.2	51.2	51.4	53.8
LASB50448 69491	55.9	52.9	53.6	52.9	52.1	52.0	54.0

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Z# 239958
INITIAL rom DATE 10/31/16

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	57.4	54.5	54.4	53.8	52.0	52.7	54.5
87826	57.4	54.1	54.0	53.8	51.7	51.8	54.5
87823	57.9	54.5	54.2	54.6	52.1	51.9	54.8
87825	61.1	56.8	56.9	56.2	53.0	52.6	55.8
End Time (6.[14])	1332	~~12~~ 1325 VM 11.01.16	1325	1317	1306	1307	1306
6.[14]	WO: VM WO: MZ	WO: VM WO: MZ	WO: [illegible] WO: MZ	WO: FA WO: MZ	WO: FA WO: [illegible]	WO: [illegible] WO: [illegible]	WO: [illegible] WO: MZ

Comments:

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	10/31/16
MATT ZOCCO	Matthew Zocco	311674	MZ	10-31-16
Valerie Martinez	Valerie Martinez	239958	VM	11/01/16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-01-16
Juan Garcia	Juan Garcia	169840	JG	11-02-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-02-16
Fabian Anaya	Fabian Anaya	174963	FA	11-03-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-03-16
Fabian Anaya	Fabian Anaya	174963	FA	11-04-16
Juan Garcia	Juan Garcia	169840	JG	11-04-16
Leon Montoya	Leon Montoya	191526	LM	11-05-16
Juan Garcia	Juan Garcia	169840	JG	11-05-16
Leon Montoya	Leon Montoya	191526	LM	11-05-16
MATT ZOCCO	Matthew Zocco	311676	MZ	11-06-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 11·07·16/1330	Tuesday 6.[4] Date & Start Time: 11·08·16/1329	Wednesday 6.[4] Date & Start Time: 11·09·16/1344	Thursday 6.[4] Date & Start Time: 11·10·16/1319	Friday 6.[4] Date & Start Time: 11·11·16/1309	Saturday 6.[4] Date & Start Time: 11·12·16/1312	Sunday 6.[4] Date & Start Time: 11·13·16/1310
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975	Brand Fluke Model 561 Cal Due Date 06·20·17 File Number 101975
Ambient Temperature (6.[5])	53.4 °F	57.9 °F	56.3 °F	55.7 °F	52.1 °F	53.7 °F	55.5 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	55.5	57.3	55.4	55.3	52.8	54.3	55.8
LA00000070503 68540	53.9	56.0	55.1	54.7	50.4	53.9	54.5
LA00000070503 68553	53.5	56.5	55.4	55.6	51.2	53.7	53.8
69445	53.2	55.5	55.0	55.1	50.8	53.8	54.8
69618	53.3	56.2	56.5	54.9	52.0	54.3	55.3
69013	53.9	56.2	55.2	55.3	51.1	54.3	54.9
LASB50522 69076	52.7	54.9	54.6	53.8	50.9	53.3	54.8
LASB50452 69490	52.7	55.3	54.5	54.3	50.6	52.8	53.8
LASB50431 69280	51.7	55.0	54.7	53.9	50.8	53.1	54.3
LASB50069 69208	52.6	55.1	54.6	54.7	50.9	53.0	53.7
LASB50073 69079	52.7	54.9	54.8	54.0	51.8	53.8	54.4
69636	52.5	55.2	55.1	55.0	50.6	53.6	54.2

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	52.5	54.7	54.9	54.2	51.3	53.5	54.4
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	53.3	55.6	54.8	56.1	50.3	53.7	55.0
69520	53.3	55.7	55.4	54.5	51.2	54.7	54.6
69641	52.6	56.0	55.2	55.6	50.8	53.8	55.2
69298	52.0	56.2	54.4	53.7	50.8	53.4	54.1
LASB02203 | 92669	52.1	55.5	54.6	54.9	50.7	53.3	54.5
End Time (6.[14])	1337	1333	1347	1323	1313	1315	1312
6.[14]	WO: VOM WO: [illegible]	WO: VOM WO: MZ	WO: FH WO: [illegible]	WO: VOM WO: FH	WO: VOM WO: FH	WO: VOM WO: FH	WO: VOM WO: FH

Comments: No comments

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VOM	11/07/16
Leon Montoya		191526		11/07/16
Valerie Martinez	Valerie Martinez	239958	VOM	11/08/16
MATT ZOCCO		311676	MZ	11-08-16
Fabian Anaya	Fabian Anaya	174963	FA	11-09-16
Juan Garcia		168840		11-09-16
Valerie Martinez	Valerie Martinez	239958	VOM	11/10/16
Fabian Anaya	Fabian Anaya	174963	FA	11-10-16
Valerie Martinez	Valerie Martinez	239958	VOM	11/11/16
Fabian Anaya	Fabian Anaya	174963	FA	11-11-16
Valerie Martinez	Valerie Martinez	239958	VOM	11/12/16
Fabian Anaya	Fabian Anaya	174963	FA	11-12-16
Valerie Martinez	Valerie Martinez	239958	VOM	11/13/16
Fabian Anaya	Fabian Anaya	174963	FA	11-13-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 11·07·16 / 1319	Tuesday 6.[4] Date & Start Time: 11·08·16 / 1323	Wednesday 6.[4] Date & Start Time: 11·09·16 / 1340	Thursday 6.[4] Date & Start Time: 11·10·16 / 1309	Friday 6.[4] Date & Start Time: 11·11·16 / 1305	Saturday 6.[4] Date & Start Time: 11·12·16 / 1307	Sunday 6.[4] Date & Start Time: 11·13·16 / 1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104841
Ambient Temperature (6.[5])	50.4 °F	54.8 °F	54.6 °F	51.3 °F	51.2 °F	51.5 °F	51.8 °F
(S) Temperature ≤ 75°F SR 4 ESS 5 1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	50.7	54.6	53.9	50.9	51.0	50.8	51.6
68638	50.5	54.4	53.9	50.4	50.7	50.9	50.8
69615	51.2	54.9	54.7	51.8	51.2	51.2	51.3
69635	51.6	52.2	54.8	51.1	50.8	52.9	51.2
69642	52.1	54.6	55.2	52.5	50.7	52.3	53.1
69630	51.6	55.0	54.8	51.3	52.1	51.3	51.5
69633	51.1	54.2	53.1	50.6	50.5	51.1	51.5
68430	51.7	54.7	54.3	52.8	51.2	50.9	50.8
68631	48.9	53.6	54.0	48.5	49.9	49.2	48.8
69634	49.4	53.8	53.6	50.2	50.4	49.9	49.6
68567	50.3	54.1	53.7	50.0	50.2	50.9	50.7
94227	49.8	54.4	53.9	49.8	50.0	50.1	50.1
LASB50442 68648	51.2	53.7	53.5	50.1	50.2	51.2	51.2
69644	51.9	53.6	53.4	50.6	50.5	50.7	51.1
LASB50443 69183	51.4	54.3	54.7	51.0	50.1	50.9	51.6
69638	51.3	54.4	54.8	51.0	50.4	50.7	51.1

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Container ID #		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		51.1	54.10	54.0	51.1	51.0	50.9	51.1
68507		51.4	54.3	54.0	51.4	50.7	51.2	51.2
69568		49.7	53.5	52.9	50.2	50.4	50.4	50.4
69553		50.5	54.0	52.7	53.1	50.1	50.3	50.2
69598		50.8	53.8	54.3	50.7	51.0	51.0	50.5
LASB50559	92472	50.1	53.9	52.9	49.3	49.7	50.1	49.5
	92459	49.3	53.7	52.8	48.9	49.5	49.3	49.0
69015		51.5	54.9	53.7	51.4	50.3	50.8	51.4
69639		50.8	54.7	53.8	50.1	50.2	50.7	50.8
69637		50.9	55.4	53.4	51.3	50.5	51.2	51.1
End Time (6.[14])		1323	1328	1343	1318	1308	1311	1309
6.[14]		WO: VOM WO: [illegible]	WO: VOM WO: MZ	WO: FA WO: [illegible]	WO: VOM WO: FA	WO: VOM WO: FA	WO: VOM WO: FA	WO: VOM WO: FA

Comments: NO COMMENTS

ATTACHMENT 3
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239158	VM	11/07/16
Juan Montoya	[illegible]	169526	JM	11/07/16
Valerie Martinez	Valerie Martinez	239158	VM	11/08/16
MATT ZOCCO	[illegible]	311676	MZ	11-08-16
Fabian Anaya	Fabian Anaya	174963	FA	11-09-16
Juan Garcia	[illegible]	169340	[illegible]	11-09-16
Valerie Martinez	Valerie Martinez	239158	VM	11/10/16
Fabian Anaya	Fabian Anaya	174963	FA	11-10-16
Valerie Martinez	Valerie Martinez	239158	VM	11/11/16
Fabian Anaya	Fabian Anaya	174963	FA	11-11-16
Valerie Martinez	Valerie Martinez	239158	VM	11/12/16
Fabian Anaya	Fabian Anaya	174963	FA	11-12-16
Valerie Martinez	Valerie Martinez	239158	VM	11/13/16
Fabian Anaya	Fabian Anaya	174963	FA	11-13-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

ATTACHMENT 4

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

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

	Monday 6.[4] Date & Start Time 11·07·16/1314	Tuesday 6.[4] Date & Start Time 11·08·16/1318	Wednesday 6.[4] Date & Start Time 11·09·16/1330	Thursday 6.[4] Date & Start Time 11·10·16/1304	Friday 6.[4] Date & Start Time 11·11·16/1300	Saturday 6.[4] Date & Start Time 11·12·16/1300	Sunday 6.[4] Date & Start Time 11·13·16/1301
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842	Brand Fluke Model 561 Cal Due Date 01·28·17 File Number 104842
Ambient Temperature (6.[5])	52.5 °F	52.7 °F	52.6 °F	52.6 °F	52.1 °F	53.7 °F	53.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	52.2	52.5	51.8	51.7	51.9	51.7	52.6
69645	51.0	51.2	51.1	50.8	50.3	50.9	51.0
94068	50.9	51.8	51.9	52.6	50.8	50.6	51.2
93605	51.8	51.9	51.9	51.4	51.7	51.9	51.8
69548	52.4	51.9	51.7	52.1	51.3	51.3	52.3
69604	52.5	52.2	52.4	51.3	50.8	51.2	51.8
LASB50529 68665	51.8	51.3	51.3	50.6	51.1	51.2	51.8
LASB50418 69595	52.2	51.9	52.4	51.3	50.6	51.1	51.5
69036	52.2	51.8	53.6	52.4	51.8	51.2	52.3
LASB50451 69361	52.4	52.0	52.1	51.4	50.7	52.0	51.7
69559	52.7	52.3	52.0	52.0	50.9	51.2	52.0
LASB50448 69491	52.5	52.1	51.7	51.6	51.0	51.4	52.1

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	53.3	53.5	53.0	52.4	50.6	53.0	52.4
87826	52.9	53.1	52.6	52.4	51.7	52.2	52.6
87823	52.9	53.1	53.5	52.9	51.6	52.4	53.1
87825	54.6	54.9	54.1	52.7	51.8	52.4	53.0
End Time (6.[14])	1318	1322	1339	1308	1304	1306	1305
6.[14]	WO: VDM WO: [illegible]	WO: VDM WO: MZ	WO: FA WO: [illegible]	WO: VDM WO: FA	WO: VDM WO: FA	WO: VDM WO: FA	WO: VDM WO: FA

Comments: NO COMMENTS

ATTACHMENT 4
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Valerie Martinez	Valerie Martinez	239958	VM	11/07/16
Leon Mandoza		189526	LM	11/07/16
Valerie Martinez	Valerie Martinez	239958	VM	11/08/16
MATT ZOCCO		311676	MZ	11-08-16
Fabian Anaya	Fabian Anaya	174963	FA	11-09-16
Juan Garcia		169890		11-09-16
Valerie Martinez	Valerie Martinez	239958	VM	11/10/16
Fabian Anaya	Fabian Anaya	174963	FA	111-10-16
Valerie Martinez	Valerie Martinez	239958	VM	11/11/16
Fabian Anaya	Fabian Anaya	174963	FA	11-11-16
Valerie Martinez	Valerie Martinez	239958	VM	11/12/16
Fabian Anaya	Fabian Anaya	174963	FA	11-12-16
Valerie Martinez	Valerie Martinez	239958	VM	11/13/16
Fabian Anaya	Fabian Anaya	174963	FA	11-13-16

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 11-14-16 / 1322	Tuesday 6.[4] Date & Start Time: 11-15-16 / 1357	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number 101975	Brand: FLUKE Model: 561 Cal. Due Date: 06-20-17 File Number 101975	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	56.6 °F	58.2 °F	°F	°F	°F	°F	°F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
68685	56.8	59.6					
LA00000070503 68540	56.1	57.8					
LA00000070503 68553	56.6	58.0					
69445	56.8	57.6					
69618	56.7	58.6					
69013	56.2	58.1					
LASB50522 69076	55.5	57.0					
LASB50452 69490	55.6	56.5					
LASB50431 69280	55.7	57.7					
LASB50069 69208	55.7	56.9					
LASB50073 69079	55.4	57.6					
69636	55.6	57.3					

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INITIAL EP DATE 11-14-16

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Container ID #	Monday Temp (°F) (6.[8]/6.[9]/6.[10])	Tuesday Temp (°F) (6.[8]/6.[9]/6.[10])	Wednesday Temp (°F) (6.[8]/6.[9]/6.[10])	Thursday Temp (°F) (6.[8]/6.[9]/6.[10])	Friday Temp (°F) (6.[8]/6.[9]/6.[10])	Saturday Temp (°F) (6.[8]/6.[9]/6.[10])	Sunday Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 1 (continued)							
69616	55.5	58.0					
69417	N/A	N/A	N/A	N/A	N/A	N/A	N/A
69620	56.6	57.7					
69520	56.8	58.3					
69641	56.3	57.9					
69298	55.6	57.7					
LASB02203 92669	56.3	57.3					
End Time (6.[14])	1327	1402					
6.[14]	WO: PP WO: Lm	WO: MZ WO: FK	WO: WO:	WO: WO:	WO: WO:	WO: WO:	WO: WO:

Comments:

ATTACHMENT 2
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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	100497	EP	11-14-16
Leo Montoya		191576	LM	11-14-16
MATT ZOCCO	Matthew Zocco	1311676	MZ	11-15-16
Fabian Anaya	Fabian Anaya	174962	FA	11-15-16

Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date

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 6.[4] Date & Start Time: 11-14-16 / 1317	Tuesday 6.[4] Date & Start Time: 11-15-16 / 1350	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 1-28-17 File Number 104841	Brand: FLUKE Model: 561 Cal. Due Date 01-28-17 File Number 104841	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	55.4 °F	56.9 °F	°F	°F	°F	°F	°F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
LASB02198 68408	54.0	56.3					
68638	54.0	56.8					
69615	54.6	57.5					
69635	54.9	57.6					
69642	56.3	58.1					
69630	54.9	57.6					
69633	54.7	57.0					
68430	54.9	55.6					
68631	53.9	57.2					
69634	52.9	55.6					
68567	53.7	57.3					
94227	53.6	56.1					
LASB50442 68648	53.7	56.2					
69644	53.7	56.8					
LASB50443 69183	54.5	56.5					
69638	55.6	57.7					

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Z# 100497

ATTACHMENT 3
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Container ID #		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 2 (continued)								
68624		54.0	57.4					
68507		54.5	57.2					
69568		53.7	55.8					
69553		53.6	56.6					
69598		53.9	57.1					
LASB50559	92472	53.8	56.4					
	92459	53.7	55.8					
69015		54.3	57.1					
69639		54.4	56.9					
69637		55.2	57.3					
End Time (6.[14])		1321	1357					
6.[14]		WO: EP WO: JM	WO: MZ WO: FA	WO: WO:	WO: WO:	WO WO:	WO: WO:	WO: WO:

Comments:

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	V00497	EP	11-14-16
Leon Montoya	[signature]	191526	LM	11-14-16
MATT ZOCCO	[signature]	311676	MZ	11-15-16
Fabian Anaya	[signature]	174663	FA	11-15-16

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 6.[4] Date & Start Time: 11-14-16 / 1313	Tuesday 6.[4] Date & Start Time: 11-15-16 / 1345	Wednesday 6.[4] Date & Start Time:	Thursday 6.[4] Date & Start Time:	Friday 6.[4] Date & Start Time:	Saturday 6.[4] Date & Start Time:	Sunday 6.[4] Date & Start Time:
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.1[2][B])	Brand: Fluke Model: 561 Cal. Due Date: 1-28-17 File Number 104842	Brand: FLUKE Model: 561 Cal. Due Date: 01-28-17 File Number 104842	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	52.0 °F	53.0 °F	°F	°F	°F	°F	°F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[6])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
69519	52.3	53.9					
69645	51.5	52.1					
94068	51.4	51.6					
93605	51.5	52.8					
69548	52.2	53.5					
69604	52.6	53.4					
LASB50529 68665	51.8	52.0					
LASB50418 69595	52.1	52.4					
69036	52.1	53.6					
LASB50451 69361	52.3	52.7					
69559	52.5	53.2					
LASB50448 69491	52.5	53.6					

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Z#: 100497

INITIAL: FP DATE: 11-14-16

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Container ID #	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])	Temp (°F) (6.[8]/6.[9]/6.[10])
TA-54-0375 Cell 3 (continued)							
87827	53.3	54.3					
87826	53.3	54.2					
87823	54.0	53.9					
87825	54.1	53.9					
End Time (6.[14])	1316	1350					
6.[14]	WO: EP WO: Lm	WO: MZ WO: FA	WO: WO:	WO: WO:	WO: WO:	WO: WO:	WO: WO:

Comments:

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6.[18] Performed by:

Waste Operator (print)	Signature	Z#	Initials	Date
Edward Parker	Edward Parker	100497	EP	11-14-16
Leon [illegible]	[illegible]	149526	[illegible]	11-14-16
MATT ZUCCO	Matthew Zucco	311676	MZ	11-15-16
Fabian Anaya	Fabian Anaya	174963	FA	11-15-16

Waste Operator (print)	Signature	Z#	Initials	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Initials	Date