From: Juarez, Catherine L
Sent: Wednesday, January 18, 2017 3:02 PM
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Subject: Monthly Technical Summary December 22, 2016 - January 18, 2017

Linked below is the written monthly technical summary December 22, 2016 – January 18, 2017. 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.

Please remember the following:

- Be wary of unexpected files as they may contain malware.
- Files are automatically deleted 10 days after being uploaded.

NMED monthly written summary January 18, 2017.pdf

Cathy Juarez for
Mark Haagenstad
EPC-CP
Office: (505) 665-2014

NMED / LANL Technical Summary

December 22, 2016 – January 18, 2017

Participants:

- New Mexico Environment Department: Neelam Dhawan and Siona Briley.
- LANL- NNSA – Los Alamos Field Office: Karen Armijo.
- LANL – Los Alamos National Security: Mark Haagenstad, Luciana Vigil-Holterman and Cathy Juarez.

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers (56 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.
    - December 21, 2016 – January 17, 2017 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 January 17, 2017, LANL has completed HSG sampling for the month on 52 containers.
        - December 21, 2016 – January 17, 2017 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 December 2016 and January 2017.
  - 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.

Other:

Next Call: Wednesday, February 15, 2017

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**
12/21/16	246	591	9161	1869																
12/22/16	301	646	10254	2056	322	1043	19377	2310	221	848	14617	806	412	1100	15352	2346	1075	2187	36220	4358
12/23/16	23	20	995	163																
12/24/16	284	673	9408	1894																
12/25/16	93	254	3164	643																
12/26/16	317	671	10142	2034	340	1064	19732	2366	296	880	15801	852	303	844	11429	1791	1014	2103	34551	4097
12/27/16	292	616	9304	1898																
12/28/16	317	629	9954	2023																
12/29/16	175	433	6049	1239	332	1083	19702	2422	278	849	15063	873	412	1044	15296	2341	0	0	1991	198
12/30/16	314	679	10015	2033													1062	2149	35464	4246
12/31/16	324	628	9883	1967																
01/01/17	312	687	9501	1912																
01/02/17	300	660	9731	1964	315	1018	19273	2351	291	943	15600	899	376	943	14467	2202	443	1725	29011	3524
01/03/17	316	654	9924	2048																
01/04/17	310	733	10628	2156																
01/05/17	318	715	10484	2151	228	778	13581	1651	292	912	16239	905	405	1032	15743	2440	1099	2206	36980	4377
01/06/17	291	781	9543	1948																
01/07/17	292	624	9233	1874																
01/08/17	313	738	9829	2047																
01/09/17	310	724	9874	2033	292	1019	18644	2244	286	932	15418	910	402	1027	14998	2330	1068	2194	34752	4190
01/10/17	286	682	9527	1948																
01/11/17	316	645	10020	2050																
01/12/17	326	756	10473	2134	333	1141	19636	2387	285	947	15615	902	402	1055	15468	2366	1070	2175	36232	4229
01/13/17	311	768	10215	2047																
01/14/17	319	705	10525	2129																
01/15/17	318	767	10811	2204																
01/16/17	265	709	8804	1803	205	958	16562	2002	279	976	15686	873	383	998	15144	2319	1024	2271	35760	4311
01/17/17	318	747	10408	2179																

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452 - 69076				SB50522 - 69490				68430 - 68430				68507 - 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
12/21/16					509	1264	14488	2118												
12/22/16	428	1084	15395	2173	705	1287	14988	3310												
12/23/16					405	738	7629	1724												
12/24/16					898	1453	16908	3781												
12/25/16					0	0	103	0												
12/26/16	326	1002	14410	2079	858	1443	16625	3712												
12/27/16					760	1293	14937	3355												
12/28/16					883	1459	17101	3856												
12/29/16	258	936	12770	1794	680	1368	15971	3581												
12/30/16					908	1524	17721	4036												
12/31/16					599	1308	15208	3479												
01/01/17					914	1547	17666	4031												
01/02/17	415	1050	14684	2082	850	1463	16792	3859												
01/03/17					840	1489	17288	3886									15	0	627	0
01/04/17					827	1458	17557	3920												
01/05/17	470	1178	16111	2249	885	1468	17564	3948												
01/06/17					819	1384	15960	3625												
01/07/17					877	1529	17049	3823												
01/08/17					873	1494	16926	3818												
01/09/17	398	1090	14838	2052	864	1575	16595	3717												
01/10/17					812	1417	16137	3598												
01/11/17					897	1535	17379	3915	126	426	5918	1026	123	124	2666	84				
01/12/17	369	1112	14477	2035	934	1552	18105	4080												
01/13/17					879	1521	17265	3909												
01/14/17					822	1507	16007	3643												
01/15/17					871	1544	17576	3981												
01/16/17	366	1079	14250	1972	870	1636	17695	4065												
01/17/17					886	1709	17851	4076												

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**
12/21/16																				
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12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17	57	113	2007	193																
01/04/17																				
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17									35	105	1608	238								
01/11/17													20	32	1432	141	13	0	591	0
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17					33	50	1221	111												

Remediated Nitrate Salt Container Headspace Gas Analysis

	69013 - 69013				69015 - 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
12/21/16									111	0	1061	298								
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17	46	105	2332	106													326	812	10560	1131
01/04/17													804	1370	19438	2902				
01/05/17																				
01/06/17	49	140	2252	81																
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17					89	111	2503	231												
01/11/17																				
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01/14/17																				
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01/17/17																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69519 - 69519				69520 - 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**
12/21/16									12	0	1251	159	115	646	6700	2053				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17					67	105	2468	791												
01/04/17																				
01/05/17																				
01/06/17					114	356	4692	1545												
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17																	126	412	1595	620
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17	347	846	14791	3596																

Remediated Nitrate Salt Container Headspace Gas Analysis

	69598 - 69598				69604 - 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
12/21/16																				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17									168	412	4247	544	111	484	6062	1001				
01/04/17																	479	1205	19587	1826
01/05/17																				
01/06/17													488	1002	12131	2049				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17																				
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17	40	0	1845	117																

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
12/21/16																				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17																				
01/04/17													332	715	12172	1505				
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17	410	1035	12770	1468					225	521	6775	517					122	541	3663	920
01/11/17																				
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17					146	74	3611	491												

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
12/21/16																				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17									528	1087	9212	3121								
01/04/17													68	171	3808	404				
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17	528	994	11123	1969	175	526	6407	411									281	589	7112	1392
01/11/17																				
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17																				

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
12/21/16																				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17																				
01/04/17																				
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17													38	0	816	473				
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17	238	827	12147	1779	382	956	10225	3041	617	1568	22963	4795					132	198	3541	443

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
12/21/16									5	101	2938	394								
12/22/16									260	751	11084	1294								
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17																				
01/04/17	47	139	3124	118	207	1171	14576	3216					337	813	13499	1829				
01/05/17																				
01/06/17					794	1505	17685	3946												
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17																	291	598	7987	1413
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17																				

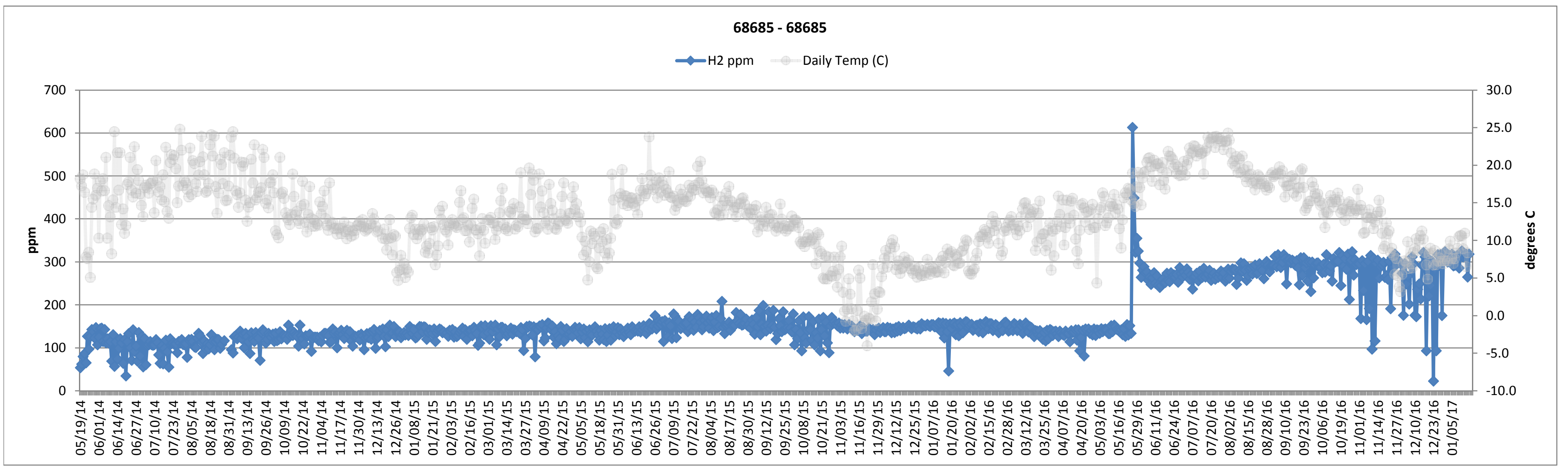
Remediated Nitrate Salt Container Headspace Gas Analysis

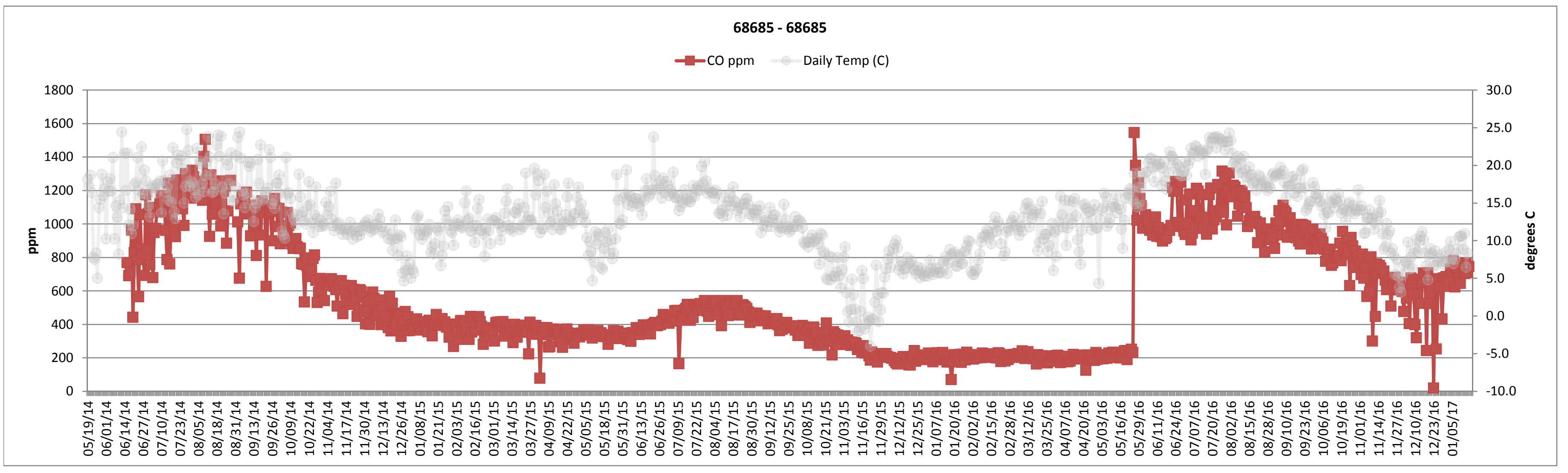
	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
12/21/16					585	1216	14314	2508	239	489	5504	778	244	523	6161	777				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17																				
01/03/17																				
01/04/17	753	1372	15290	2978																
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17																	39	0	1691	25
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17																				

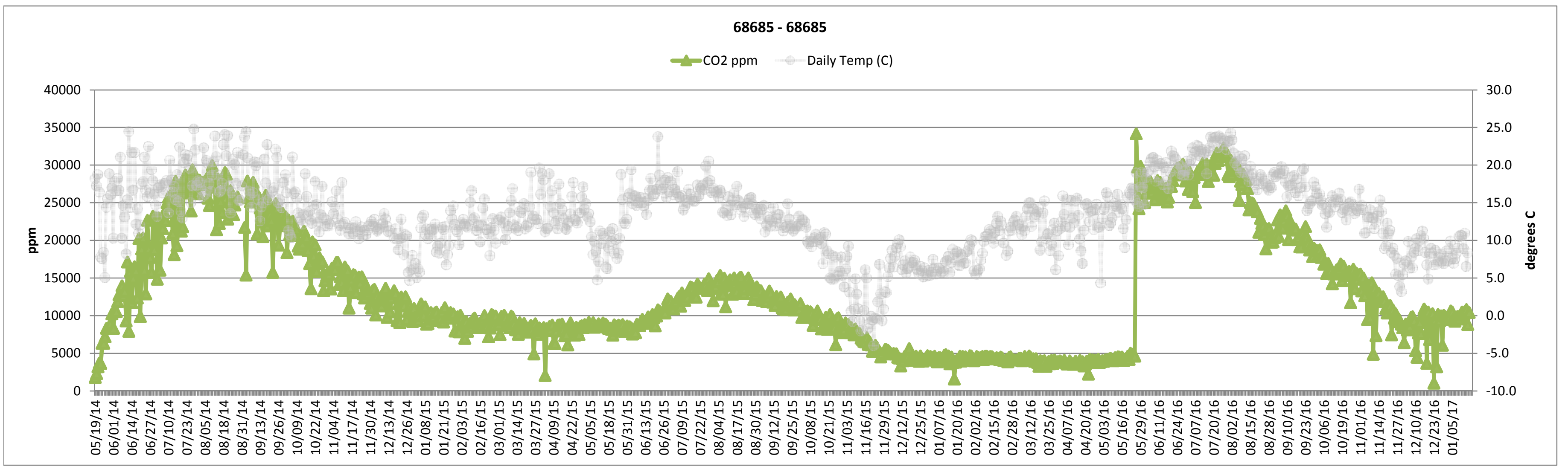
Remediated Nitrate Salt Container Headspace Gas Analysis

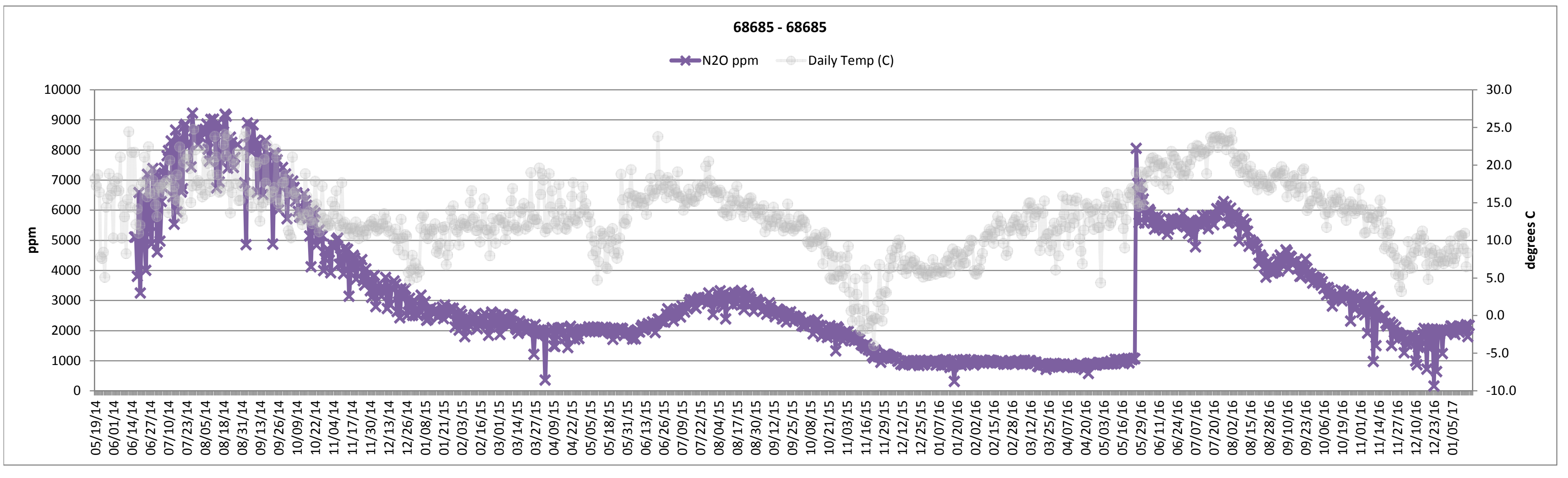
	SB50559 - 92472				87823				87825				87826				87827			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
12/21/16																				
12/22/16																				
12/23/16																				
12/24/16																				
12/25/16																				
12/26/16																				
12/27/16																				
12/28/16																				
12/29/16																				
12/30/16																				
12/31/16																				
01/01/17																				
01/02/17					155	110	2749	506	179	259	4353	792	210	390	7195	1139	46	91	2744	350
01/03/17																				
01/04/17																				
01/05/17																				
01/06/17																				
01/07/17																				
01/08/17																				
01/09/17																				
01/10/17																				
01/11/17	76	164	2939	202																
01/12/17																				
01/13/17																				
01/14/17																				
01/15/17																				
01/16/17																				
01/17/17																				

Remediated Nitrate Salt Container Headspace Gas and Temperature

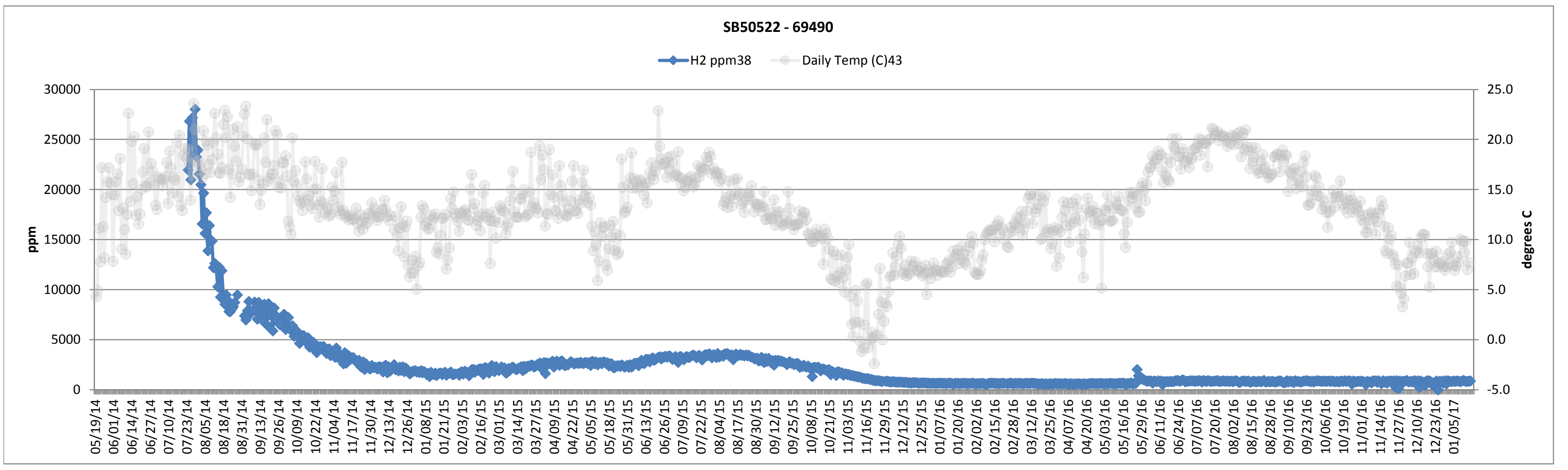


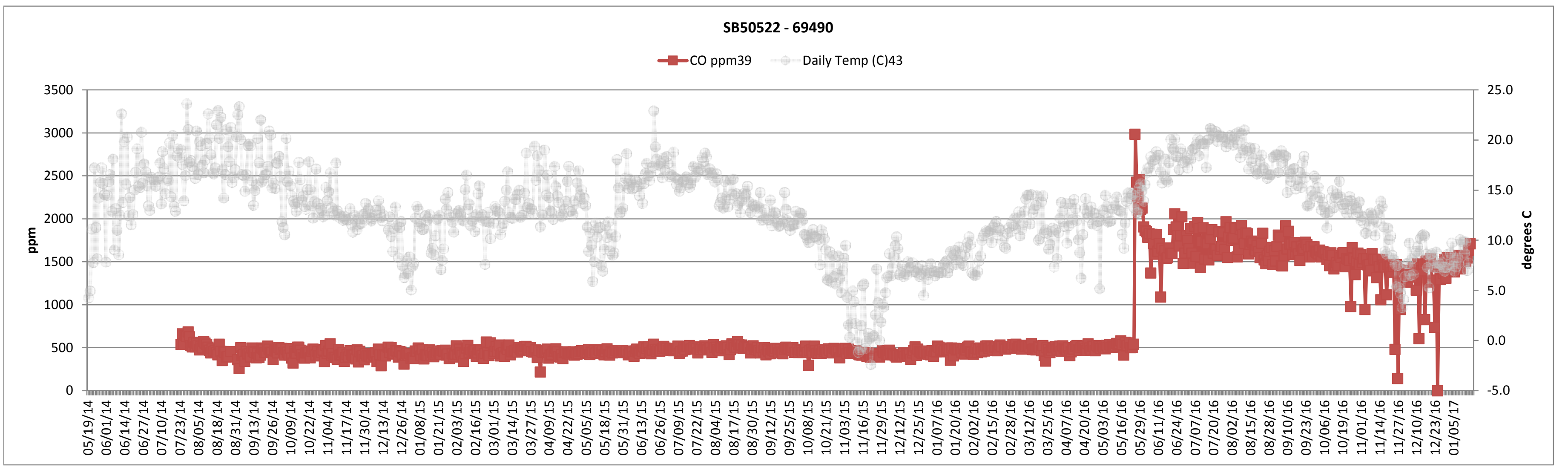


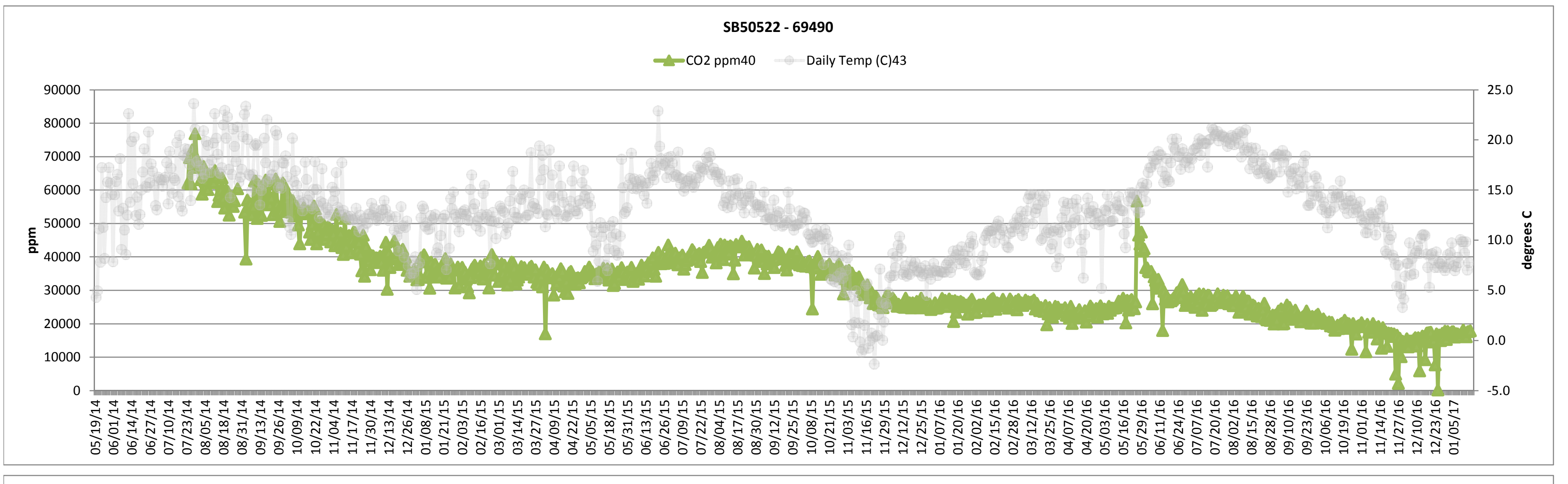


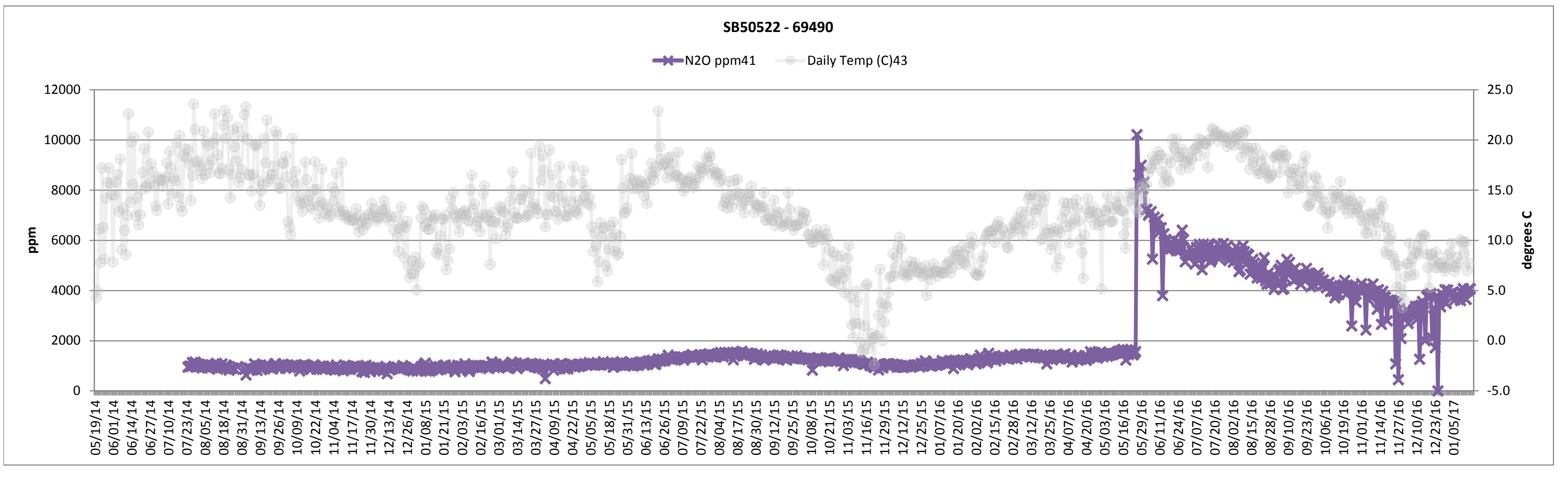


Remediated Nitrate Salt Container Headspace Gas and Temperature

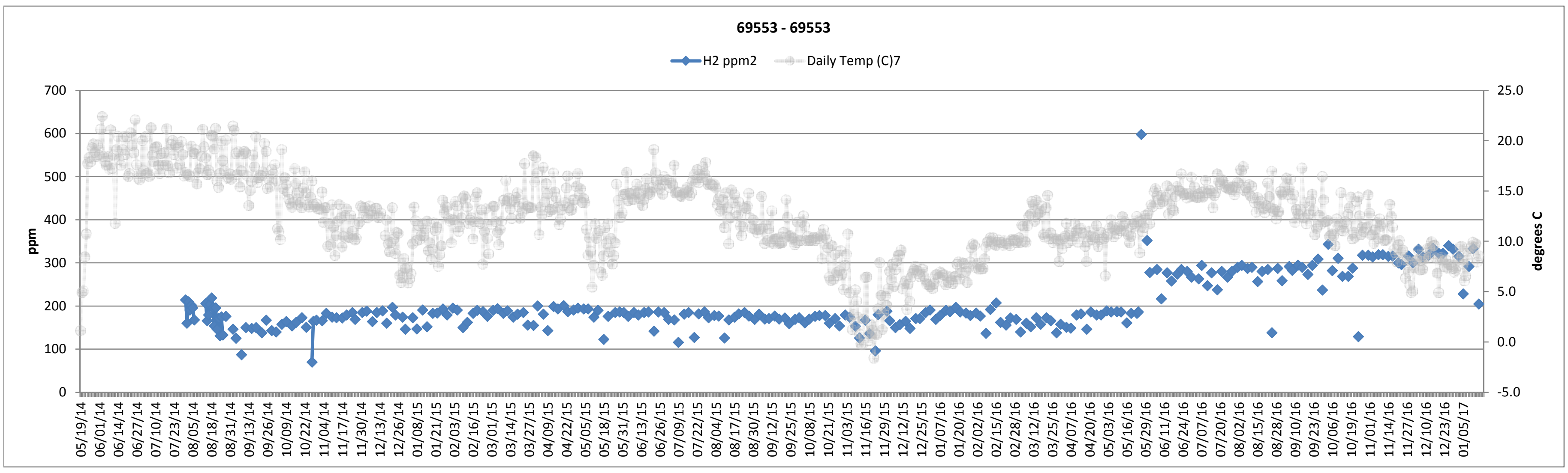


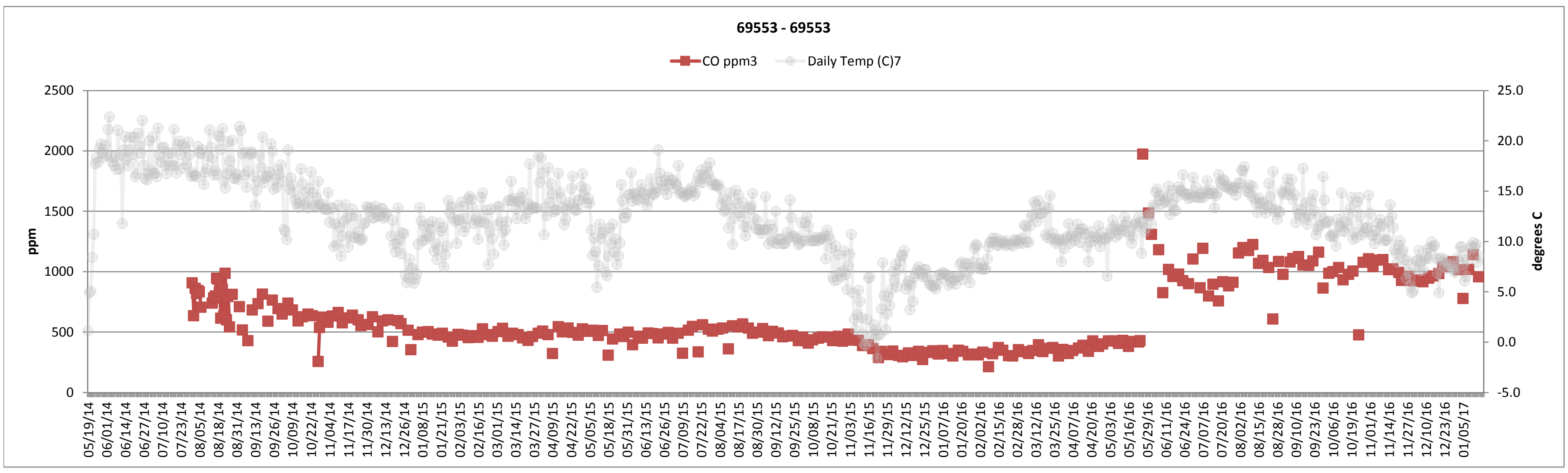


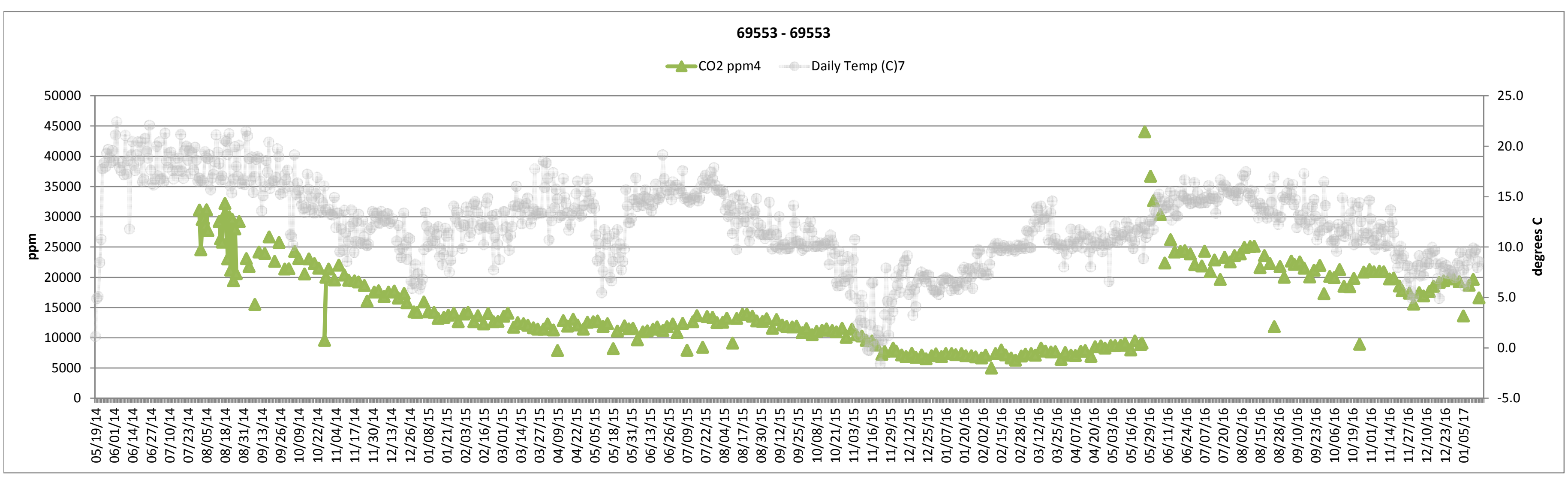


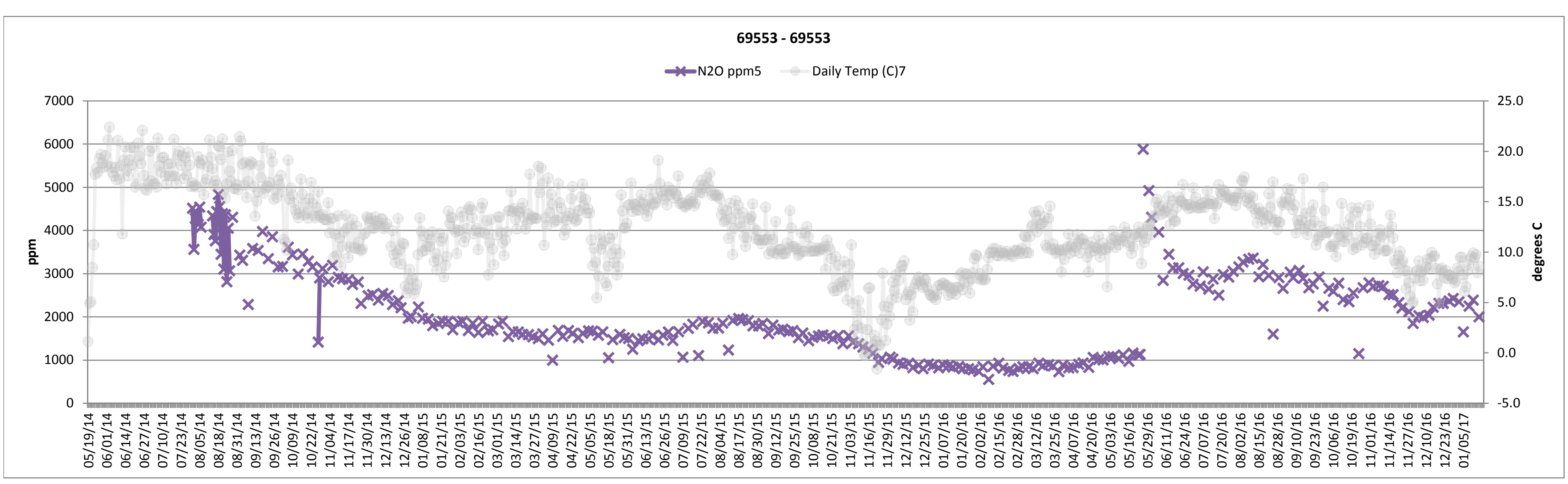


Remediated Nitrate Salt Container Headspace Gas and Temperature

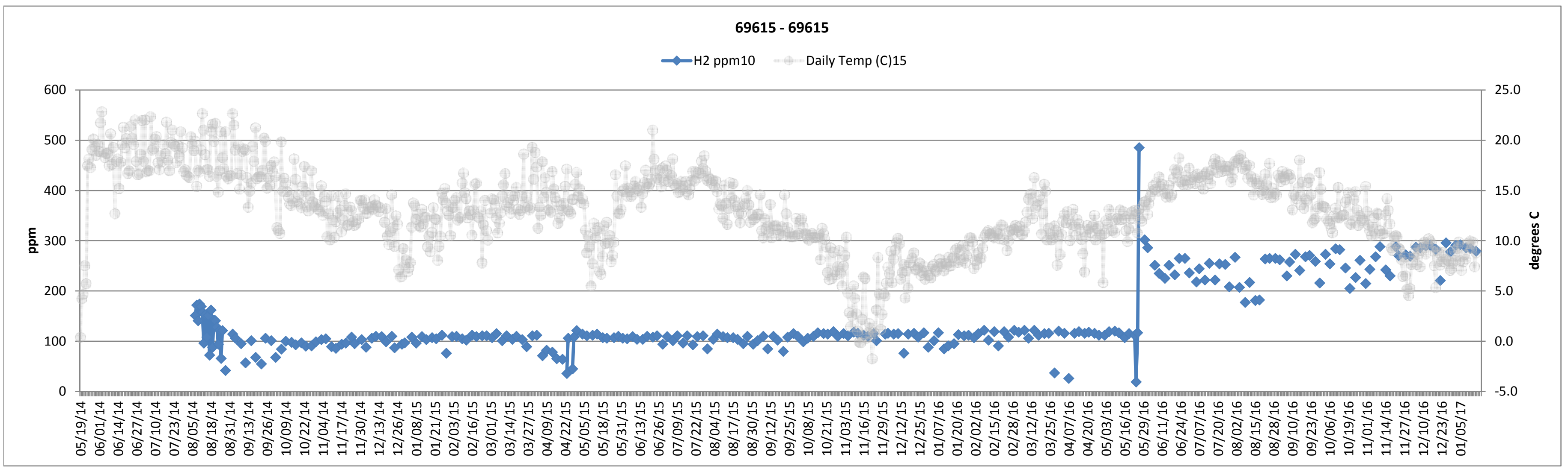


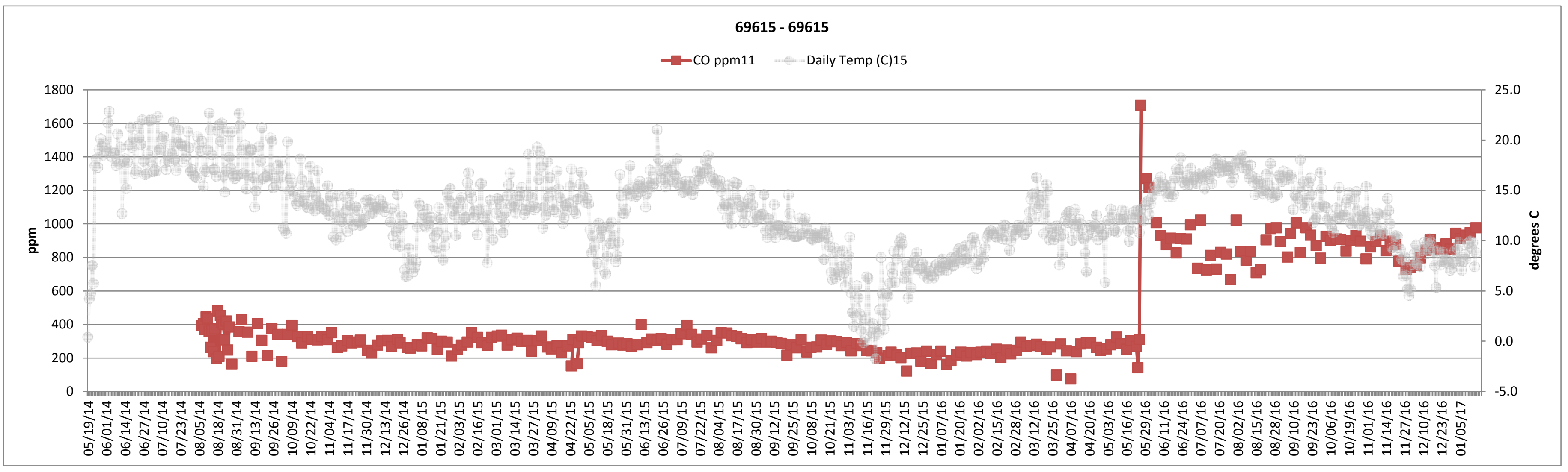


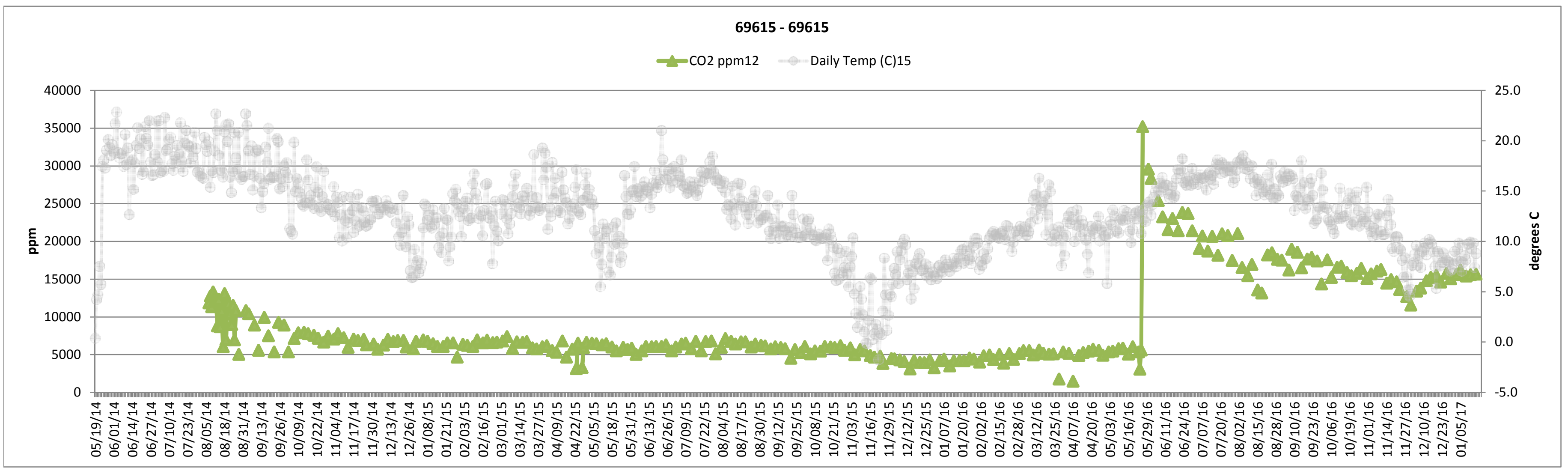


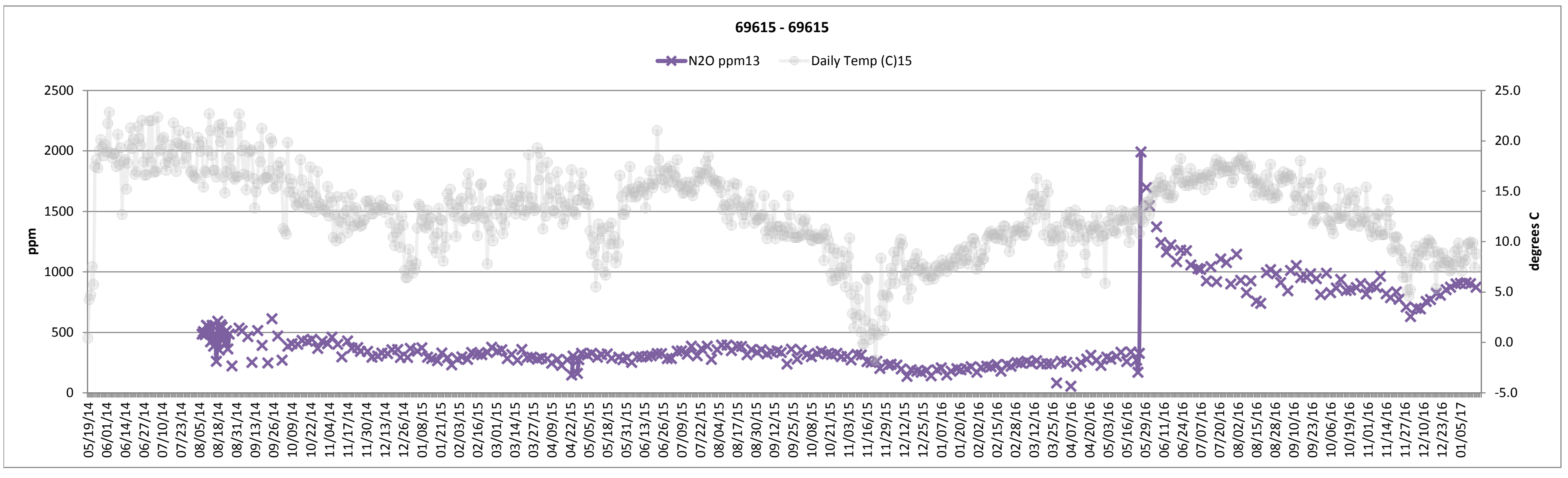


Remediated Nitrate Salt Container Headspace Gas and Temperature

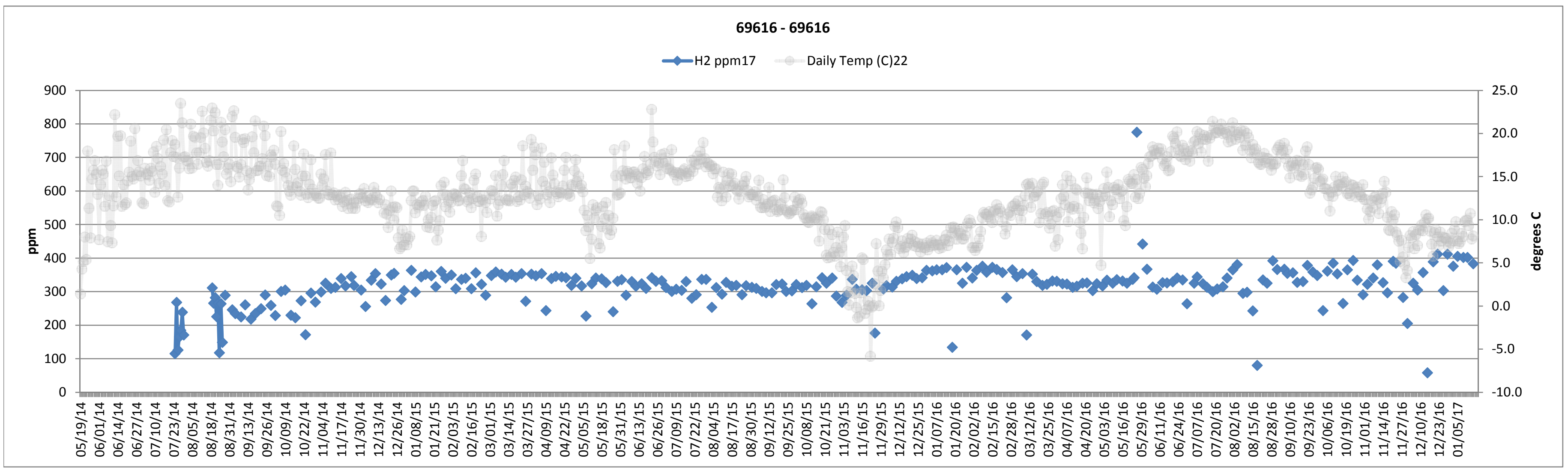


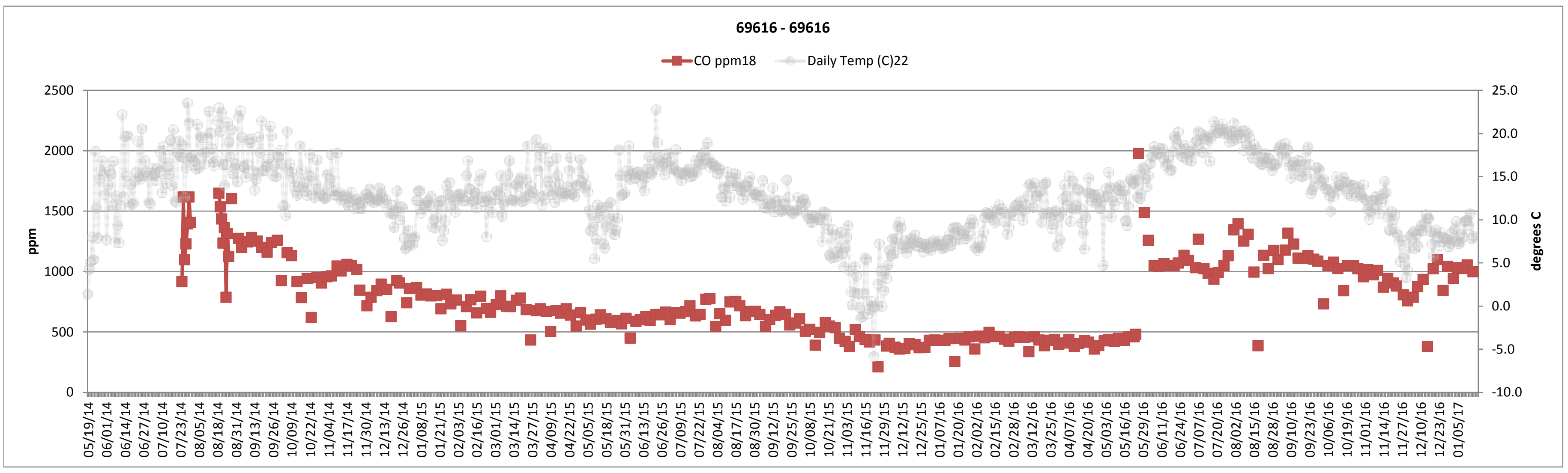


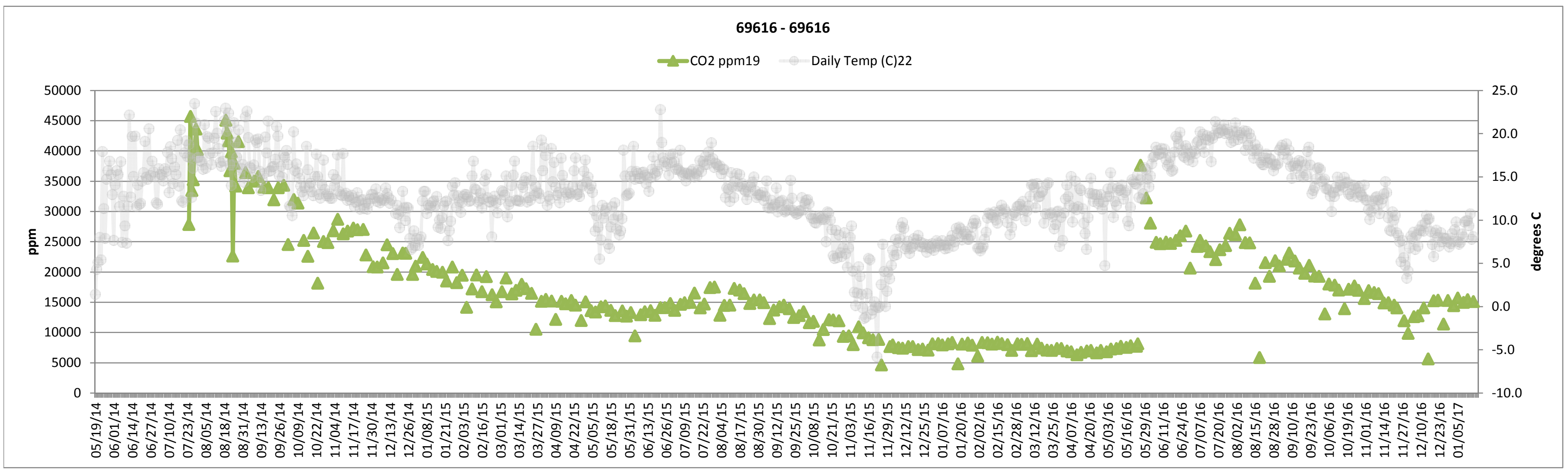


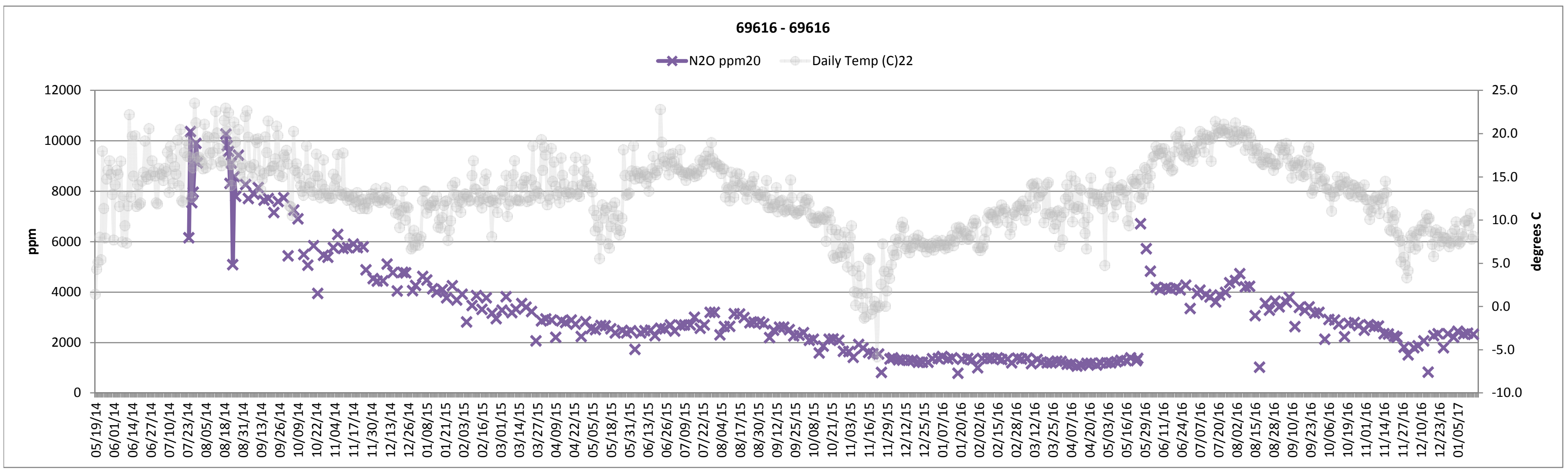


Remediated Nitrate Salt Container Headspace Gas and Temperature

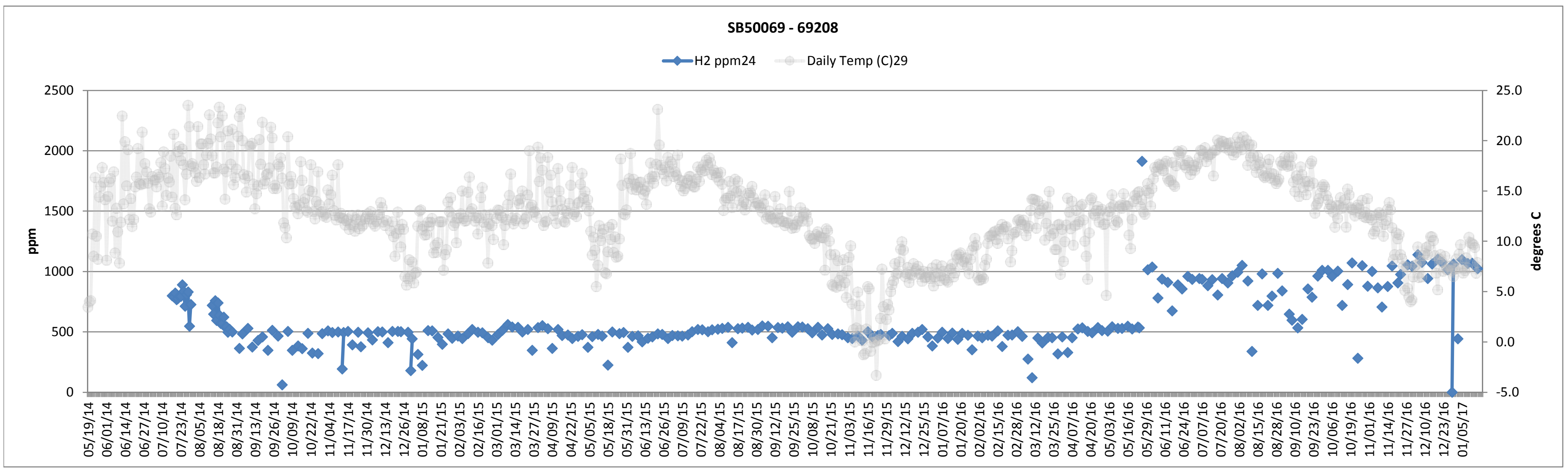


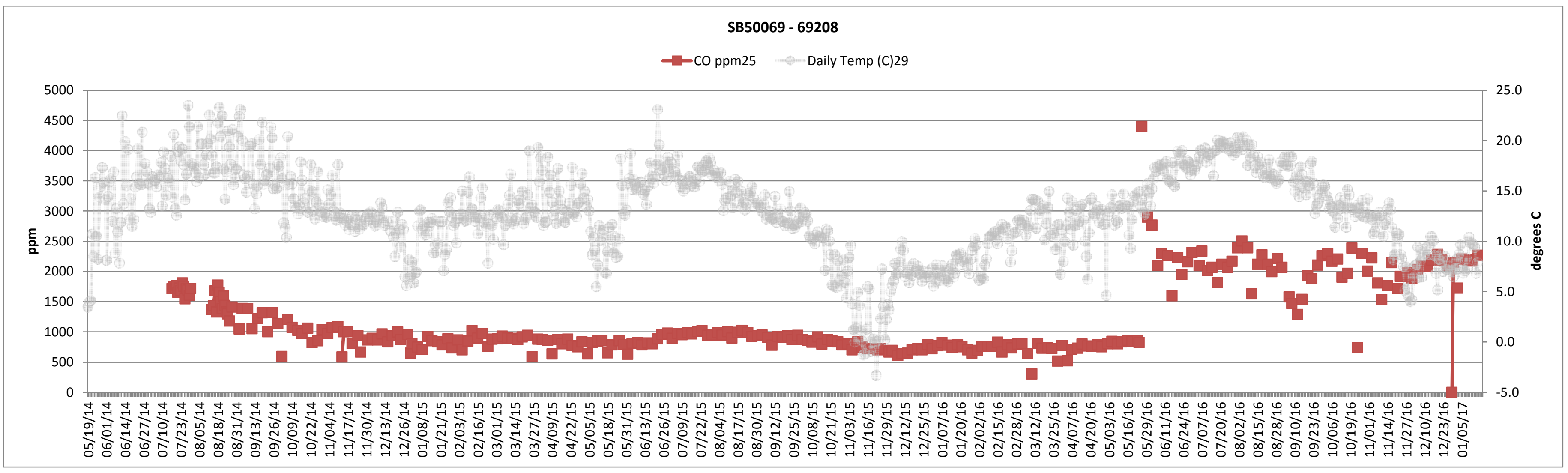


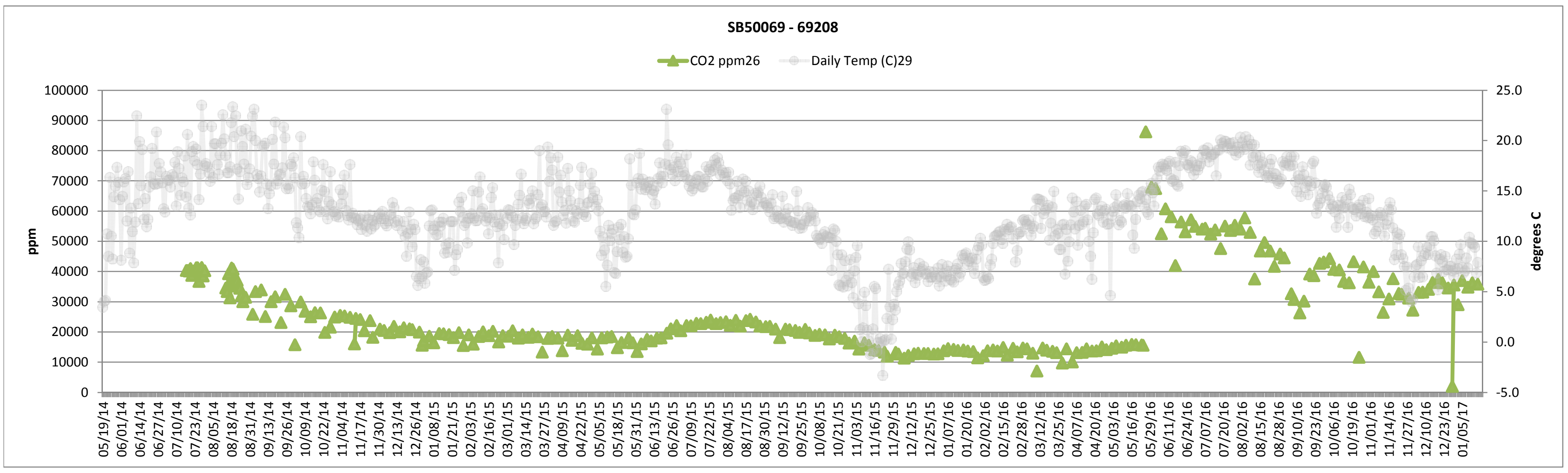


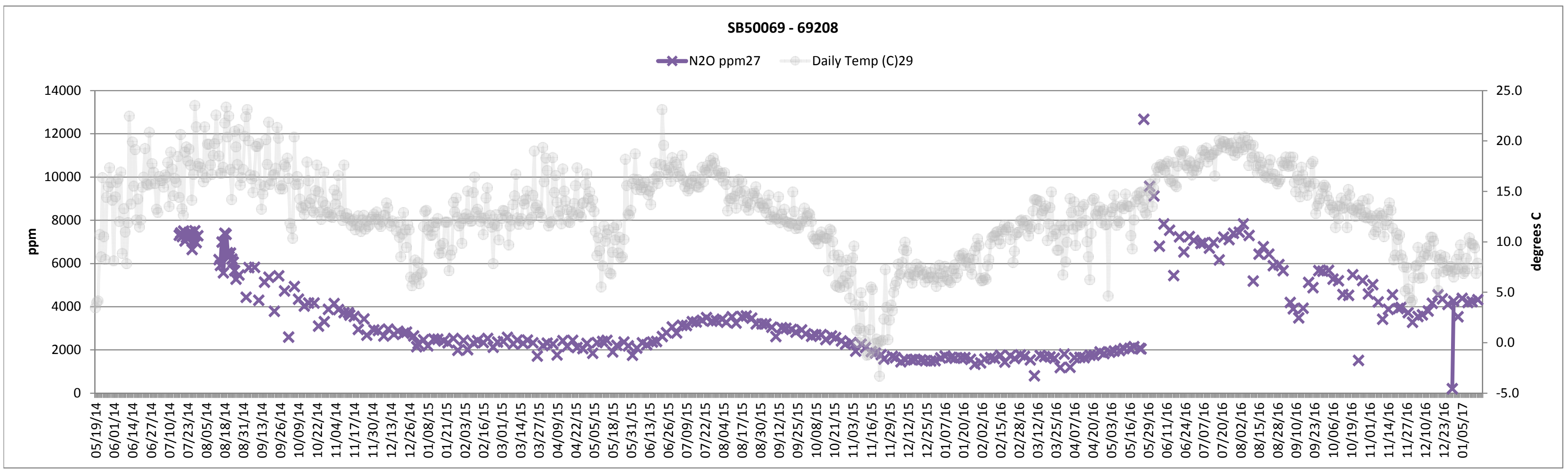


Remediated Nitrate Salt Container Headspace Gas and Temperature

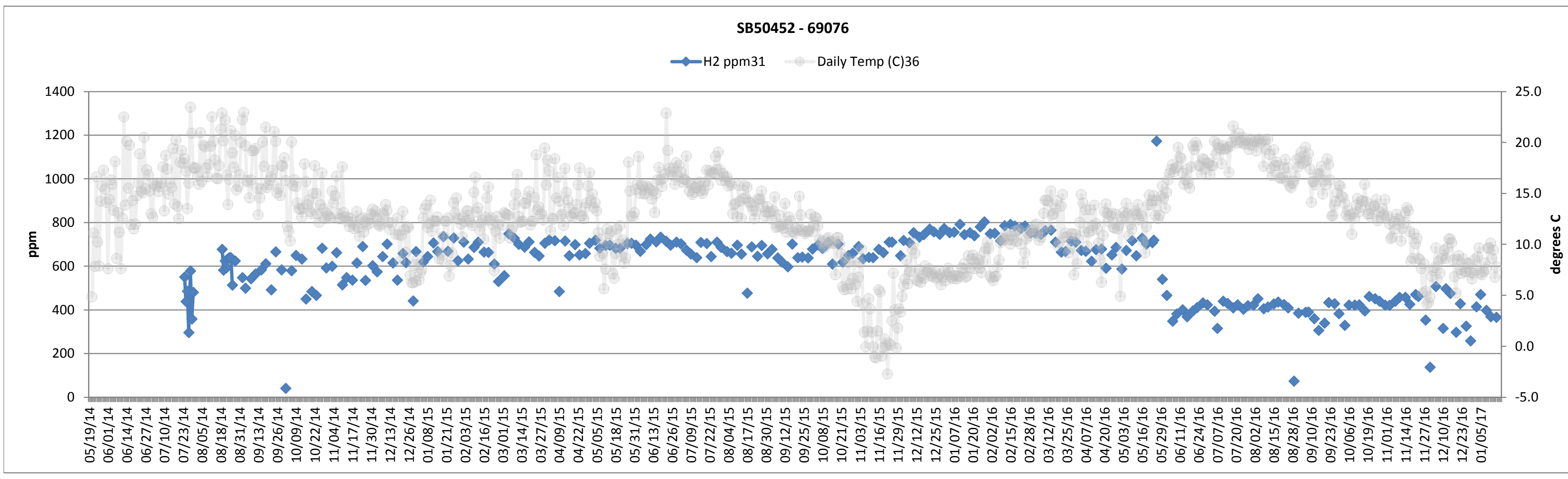


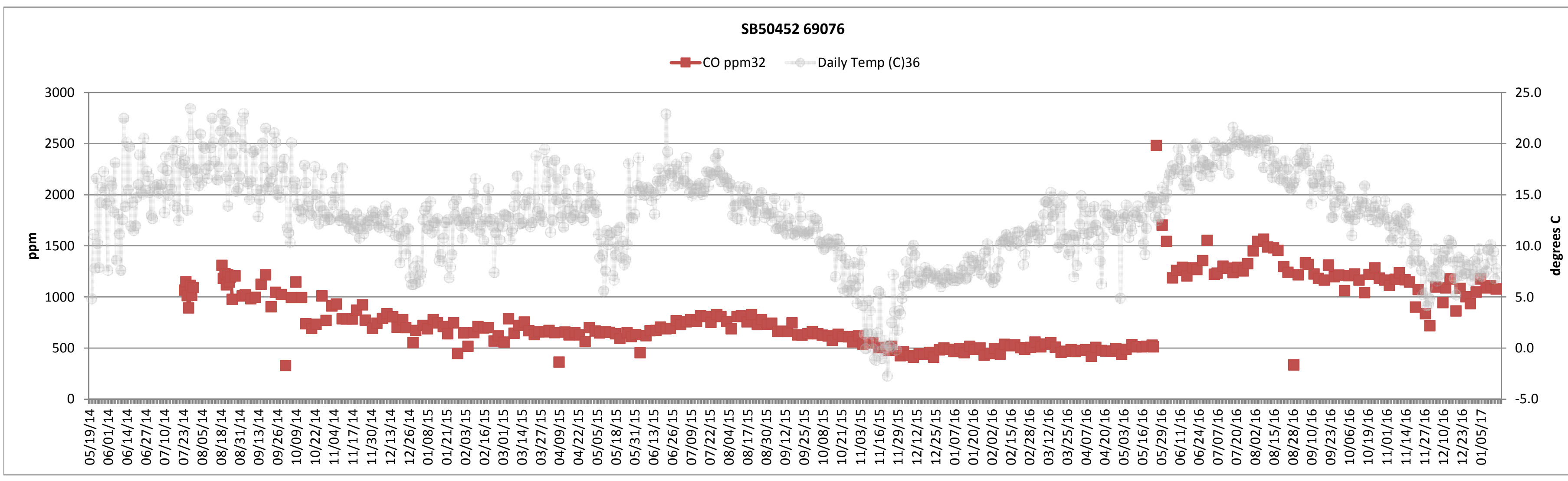


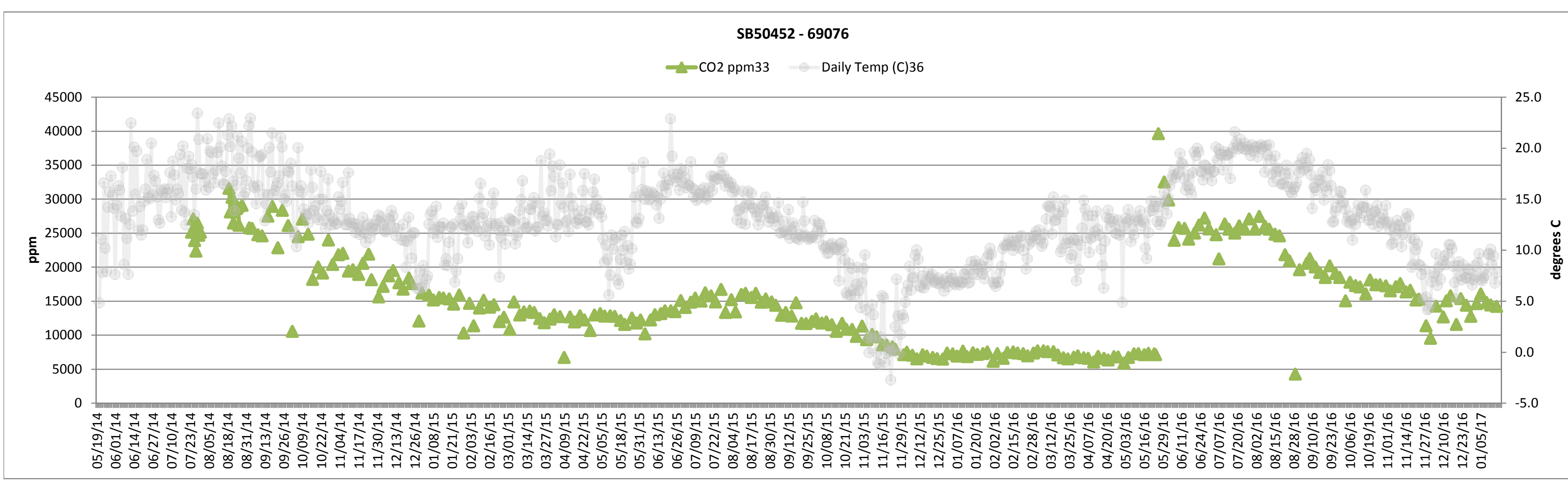


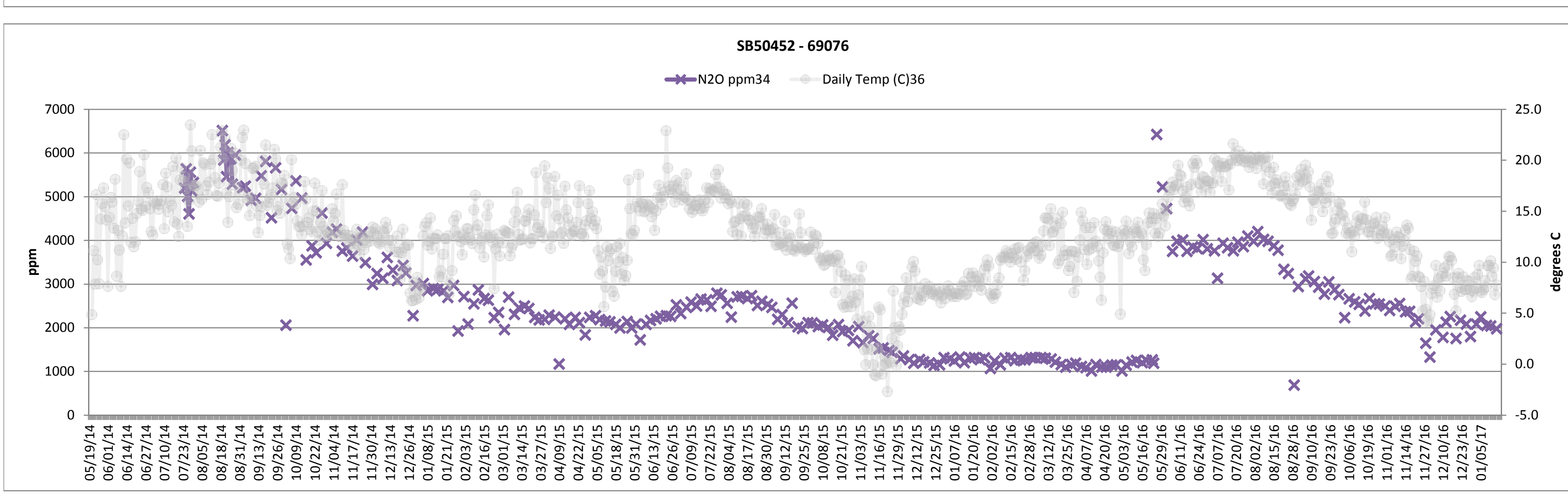


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 6

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; R = refrigerator; N/A = removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: Time:	Tuesday Date: Time:	Wednesday Date: 12·21·16 Time: 1600	Thursday Date: 12·22·16 Time: 1430	Friday Date: 12·23·16 Time: 1300	Saturday Date: 12·24·16 Time: 1300	Sunday Date: 12·25·16 Time: 1300
TA-54-0375							
Calibrated infrared thermometer (6.[3])	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	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: Model: Cal. Due Date: N/A File Number:	Brand: Model: Cal. Due Date: MZ File Number:	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: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	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 Temperatures (6.[4])	Cell 1: °F Cell 2: °F Cell 3: °F Refrig.: °F	Cell 1: °F Cell 2: °F Cell 3: °F Refrig.: °F	Cell 1: 47.7 °F Cell 2: 47.5 °F Cell 3: 48.2 °F Refrig.: 39.3 °F	Cell 1: 43.1 °F Cell 2: 45.6 °F Cell 3: 43.4 °F Refrig.: 39.6 °F	Cell 1: 43.0 °F Cell 2: 44.7 °F Cell 3: 46.7 °F Refrig.: 39.5 °F	Cell 1: 47.0 °F Cell 2: 48.1 °F Cell 3: 46.4 °F Refrig.: 39.4 °F	Cell 1: 43.5 °F Cell 2: 45.0 °F Cell 3: 45.8 °F Refrig.: 40.8 °F
(S) Ambient Cell Temperatures ≤ 75°F, SR 4.ESS.5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
(S) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

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Z# 311676
INITIAL MZ DATE 12·21·16

ATTACHMENT 2

Page 2 of 6

Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.5	① ● ③ R N/A	46.2	① ● ③ R N/A	45.5	① ● ③ R N/A	47.8	① ● ③ R N/A	45.5
68430	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.0	① ● ③ R N/A	46.3	① ● ③ R N/A	45.8	① ● ③ R N/A	47.2	① ● ③ R N/A	45.2
68507	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.8	① ● ③ R N/A	46.2	① ● ③ R N/A	45.9	① ● ③ R N/A	47.6	① ● ③ R N/A	44.9
68540	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.4	● ② ③ R N/A	45.6	● ② ③ R N/A	44.2	● ② ③ R N/A	47.4	● ② ③ R N/A	44.7
68553	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.3	● ② ③ R N/A	45.7	● ② ③ R N/A	44.4	● ② ③ R N/A	47.7	● ② ③ R N/A	45.1
68567	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.1	① ● ③ R N/A	45.7	① ● ③ R N/A	45.4	① ● ③ R N/A	47.4	① ● ③ R N/A	45.9
68624	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.5	① ● ③ R N/A	46.4	① ● ③ R N/A	46.0	① ● ③ R N/A	48.1	① ● ③ R N/A	45.9
68631	2	① ② ③ R N/A	N/A	① ② ③ R N/A	N/A	① ● ③ R N/A	47.6	① ● ③ R N/A	46.3	① ● ③ R N/A	45.1	① ● ③ R N/A	47.6	① ● ③ R N/A	45.7
68638	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.7	① ● ③ R N/A	46.3	① ● ③ R N/A	45.3	① ● ③ R N/A	47.7	① ● ③ R N/A	45.9
68648	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.3	① ● ③ R N/A	46.2	① ● ③ R N/A	45.7	① ● ③ R N/A	47.9	① ● ③ R N/A	45.7
68665	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	49.1	① ② ● R N/A	45.3	① ② ● R N/A	46.3	① ② ● R N/A	47.2	① ② ● R N/A	45.8
68685	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.1	● ② ③ R N/A	46.9	● ② ③ R N/A	44.1	● ② ③ R N/A	47.6	● ② ③ R N/A	44.2
69013	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.0	● ② ③ R N/A	45.3	● ② ③ R N/A	45.1	● ② ③ R N/A	47.7	● ② ③ R N/A	45.2
69015	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.0	① ● ③ R N/A	46.9	① ● ③ R N/A	46.1	① ● ③ R N/A	47.9	① ● ③ R N/A	45.9
69036	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.3	① ② ● R N/A	44.8	① ② ● R N/A	45.5	① ② ● R N/A	47.1	① ② ● R N/A	44.7
69076	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.0	● ② ③ R N/A	45.5	● ② ③ R N/A	44.8	● ② ③ R N/A	47.4	● ② ③ R N/A	45.1
69079	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	47.5	● ② ③ R N/A	46.5	● ② ③ R N/A	44.6	● ② ③ R N/A	47.1	● ② ③ R N/A	44.9
69183	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.0	① ● ③ R N/A	46.2	① ● ③ R N/A	45.5	① ● ③ R N/A	47.8	① ● ③ R N/A	45.9

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	47.6	● ② ③ R N/A	46.3	● ② ③ R N/A	44.6	● ② ③ R N/A	47.3	● ② ③ R N/A	44.9
69280	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.0	● ② ③ R N/A	46.3	● ② ③ R N/A	44.6	● ② ③ R N/A	47.4	● ② ③ R N/A	45.0
69298	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.0	● ② ③ R N/A	47.4	● ② ③ R N/A	45.0	● ② ③ R N/A	47.5	● ② ③ R N/A	45.3
69361	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.2	① ② ● R N/A	44.8	① ② ● R N/A	45.4	① ② ● R N/A	47.3	① ② ● R N/A	44.9
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.4	● ② ③ R N/A	45.8	● ② ③ R N/A	44.7	● ② ③ R N/A	47.6	● ② ③ R N/A	45.0
69490	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	47.6	● ② ③ R N/A	46.4	● ② ③ R N/A	45.1	● ② ③ R N/A	47.9	● ② ③ R N/A	45.1
69491	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.8	① ② ● R N/A	44.6	① ② ● R N/A	45.4	① ② ● R N/A	47.6	① ② ● R N/A	45.0
69519	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.1	① ② ● R N/A	45.1	① ② ● R N/A	45.8	① ② ● R N/A	47.5	① ② ● R N/A	45.7
69520	1	① ② ③ R N/A N/A		① ② ③ R N/A N/A		● ② ③ R N/A	47.8	● ② ③ R N/A	46.4	● ② ③ R N/A	44.8	● ② ③ R N/A	47.3	● ② ③ R N/A	45.7
69548	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	47.2	① ② ● R N/A	44.5	① ② ● R N/A	45.6	① ② ● R N/A	47.6	① ② ● R N/A	45.5
69553	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.1	① ● ③ R N/A	46.5	① ● ③ R N/A	45.4	① ● ③ R N/A	46.7	① ● ③ R N/A	45.2
69559	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	47.1	① ② ● R N/A	44.6	① ② ● R N/A	45.5	① ② ● R N/A	47.3	① ② ● R N/A	45.5
69568	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.6	① ● ③ R N/A	45.7	① ● ③ R N/A	45.5	① ● ③ R N/A	47.2	① ● ③ R N/A	45.5
69595	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.1	① ② ● R N/A	45.1	① ② ● R N/A	45.7	① ② ● R N/A	46.9	① ② ● R N/A	45.0
69598	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	46.8	① ● ③ R N/A	45.6	① ● ③ R N/A	45.4	① ● ③ R N/A	46.6	① ● ③ R N/A	45.2
69604	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.2	① ② ● R N/A	44.8	① ② ● R N/A	45.7	① ② ● R N/A	47.5	① ② ● R N/A	45.3
69615	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.8	① ● ③ R N/A	45.6	① ● ③ R N/A	46.2	① ● ③ R N/A	47.9	① ● ③ R N/A	46.2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	47.9	● ② ③ R N/A	46.4	● ② ③ R N/A	44.6	● ② ③ R N/A	47.4	● ② ③ R N/A	45.5
69618	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.4	● ② ③ R N/A	46.3	● ② ③ R N/A	44.6	● ② ③ R N/A	48.3	● ② ③ R N/A	45.1
69620	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.2	● ② ③ R N/A	46.1	● ② ③ R N/A	44.9	● ② ③ R N/A	47.7	● ② ③ R N/A	45.1
69630	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.0	① ● ③ R N/A	46.7	① ● ③ R N/A	45.6	① ● ③ R N/A	47.1	① ● ③ R N/A	46.0
69633	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.7	① ● ③ R N/A	46.7	① ● ③ R N/A	46.9	① ● ③ R N/A	48.4	① ● ③ R N/A	46.5
69634	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	46.8	① ● ③ R N/A	45.8	① ● ③ R N/A	45.4	① ● ③ R N/A	47.1	① ● ③ R N/A	45.5
69635	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.9	① ● ③ R N/A	46.7	① ● ③ R N/A	45.9	① ● ③ R N/A	47.9	① ● ③ R N/A	46.0
69636	1	① ② ③ R N/A	N/A	① ② ③ R N/A	N/A	● ② ③ R N/A	47.9	● ② ③ R N/A	46.5	● ② ③ R N/A	45.0	● ② ③ R N/A	48.2	● ② ③ R N/A	44.8
69637	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.5	① ● ③ R N/A	46.8	① ● ③ R N/A	46.4	① ● ③ R N/A	48.4	① ● ③ R N/A	46.4
69638	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.6	① ● ③ R N/A	46.3	① ● ③ R N/A	45.7	① ● ③ R N/A	47.7	① ● ③ R N/A	45.6
69639	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.1	① ● ③ R N/A	46.7	① ● ③ R N/A	46.1	① ● ③ R N/A	47.6	① ● ③ R N/A	46.2
69641	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	48.3	● ② ③ R N/A	46.8	● ② ③ R N/A	45.6	● ② ③ R N/A	47.9	● ② ③ R N/A	45.1
69642	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	48.5	① ● ③ R N/A	47.0	① ● ③ R N/A	45.5	① ● ③ R N/A	48.4	① ● ③ R N/A	45.9
69644	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.7	① ● ③ R N/A	46.2	① ● ③ R N/A	45.8	① ● ③ R N/A	47.4	① ● ③ R N/A	46.0
69645	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	49.0	① ② ● R N/A	45.5	① ② ● R N/A	46.0	① ② ● R N/A	48.1	① ② ● R N/A	45.1
87827	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.6	① ② ● R N/A	45.3	① ② ● R N/A	45.6	① ② ● R N/A	48.0	① ② ● R N/A	45.2
87823	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.6	① ② ● R N/A	43.9	① ② ● R N/A	44.9	① ② ● R N/A	46.6	① ② ● R N/A	44.3

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.6	① ② ● R N/A	44.5	① ② ● R N/A	44.7	① ② ● R N/A	47.0	① ② ● R N/A	44.4
87826	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.1	① ② ● R N/A	44.1	① ② ● R N/A	45.2	① ② ● R N/A	47.0	① ② ● R N/A	44.8
92459	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.5	① ● ③ R N/A	46.4	① ● ③ R N/A	45.7	① ● ③ R N/A	47.3	① ● ③ R N/A	46.3
92472	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.6	① ● ③ R N/A	46.2	① ● ③ R N/A	45.7	① ● ③ R N/A	47.3	① ● ③ R N/A	45.7
92669	1	① ② ③ R N/A		① ② ③ R N/A		● ② ③ R N/A	47.7	● ② ③ R N/A	46.6	● ② ③ R N/A	45.1	● ② ③ R N/A	47.6	● ② ③ R N/A	45.1
93605	3	① ② ③ R N/A N/A		① ② ③ R N/A N/A		① ② ● R N/A	48.6	① ② ● R N/A	44.9	① ② ● R N/A	45.7	① ② ● R N/A	48.0	① ② ● R N/A	45.1
94068	3	① ② ③ R N/A		① ② ③ R N/A		① ② ● R N/A	48.2	① ② ● R N/A	44.9	① ② ● R N/A	45.9	① ② ● R N/A	47.3	① ② ● R N/A	45.5
94227	2	① ② ③ R N/A		① ② ③ R N/A		① ● ③ R N/A	47.7	① ● ③ R N/A	45.9	① ● ③ R N/A	45.5	① ● ③ R N/A	47.2	① ● ③ R N/A	45.7
End Time (6.[16])						1625		1500		1315		1313		1315	
Initial (6.[16])		WO: WO:		WO: WO:		WO: MZ WO: LM		WO: MZ WO: LM		WO: MZ WO: FA		WO: MZ WO: FA		WO: MZ WO: FA	

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Comments: Tuesday (12/20/16) we went through procedure change, therefore there are two different revisions.

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
MATT ZOCCO	[illegible]	311676	12.21.16
Leon Montoya	[illegible]	191526	12-21-16
MATT ZOCCO	[illegible]	311676	12.22.16
Leon Montoya	[illegible]	191526	12-22-16
MATT ZOCCO	[illegible]	311676	12.23.16
Fabian Anaya	[illegible]	174963	12-23-16
MATT ZOCCO	[illegible]	311676	12.24.16
Fabian Anaya	[illegible]	174963	12-24-16
MATT ZOCCO	[illegible]	311676	12.25.16
Fabian Anaya	[illegible]	174963	12-25-16
N/A			
N/A			
N/A			
N/A			

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date
			/

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WORKING COPY
124977

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.* QA DATE 12-26-16

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Date: 12-26-16	Date: 12-27-16	Date: 12-28-16	Date: 12-29-16	Date: 12-30-16	Date: 12-31-16	Date: 01-01-17
	Time: 1300	Time: 1300	Time: 1300	Time: 1300	Time: 1300	Time: 1300	Time: 1300
TA-54-0375							
Calibrated infrared thermometer (6.[3])	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: 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: 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: 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: 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: 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 Temperatures (6.[4])	Cell 1: 44.6 °F Cell 2: 45.2 °F Cell 3: 44.5 °F Refrig.: 39.4 °F	Cell 1: 44.4 °F Cell 2: 46.3 °F Cell 3: 45.0 °F Refrig.: 40.6 °F	Cell 1: 45.4 °F Cell 2: 46.6 °F Cell 3: 45.6 °F Refrig.: 38.9 °F	Cell 1: ~~39.0~~ 45.7 °F Cell 2: 45.0 °F Cell 3: 44.5 °F Refrig.: 39.0 °F	Cell 1: 43.0 °F Cell 2: 46.2 °F Cell 3: 43.9 °F Refrig.: 38.9 °F	Cell 1: 43.7 °F Cell 2: 45.6 °F Cell 3: 44.8 °F Refrig.: 38.7 °F	Cell 1: 46.8 °F Cell 2: 48.3 °F Cell 3: 47.2 °F Refrig.: 40.2 °F
(S) Ambient Cell Temperatures ≤ 75°F: SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
(S) Ambient Refrig. Temp.: > 32°F and ≤ 41°F: SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

ATTACHMENT 2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ② ③ ® N/A	45.3	① ② ③ ® N/A	45.8	① ② ③ ® N/A	45.8	① ② ③ ® N/A	44.6	① ② ③ ® N/A	44.2	① ② ③ ® N/A	45.1	① ② ③ ® N/A	47.4
68430	2	① ② ③ ® N/A	45.6	① ② ③ ® N/A	46.6	① ② ③ ® N/A	46.9	① ② ③ ® N/A	45.6	① ② ③ ® N/A	44.9	① ② ③ ® N/A	46.1	① ② ③ ® N/A	47.9
68507	2	① ② ③ ® N/A	46.3	① ② ③ ® N/A	46.7	① ② ③ ® N/A	46.7	① ② ③ ® N/A	45.5	① ② ③ ® N/A	45.0	① ② ③ ® N/A	45.6	① ② ③ ® N/A	47.5
68540	1	① ② ③ ® N/A	44.8	① ② ③ ® N/A	45.8	① ② ③ ® N/A	46.1	① ② ③ ® N/A	44.1	① ② ③ ® N/A	43.7	① ② ③ ® N/A	44.9	① ② ③ ® N/A	47.4
68553	1	① ② ③ ® N/A	44.7	① ② ③ ® N/A	45.7	① ② ③ ® N/A	45.8	① ② ③ ® N/A	44.2	① ② ③ ® N/A	43.8	① ② ③ ® N/A	45.0	① ② ③ ® N/A	47.4
68567	2	① ② ③ ® N/A	45.7	① ② ③ ® N/A	45.5	① ② ③ ® N/A	45.6	① ② ③ ® N/A	44.9	① ② ③ ® N/A	44.4	① ② ③ ® N/A	44.9	① ② ③ ® N/A	47.1
68624	2	① ② ③ ® N/A	46.6	① ② ③ ® N/A	47.8	① ② ③ ® N/A	46.6	① ② ③ ® N/A	46.2	① ② ③ ® N/A	45.8	① ② ③ ® N/A	45.7	① ② ③ ® N/A	47.5
68631	2	① ② ③ ® N/A	45.5	① ② ③ ® N/A	46.3	① ② ③ ® N/A	46.5	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.7	① ② ③ ® N/A	45.2	① ② ③ ® N/A	47.6
68638	2	① ② ③ ® N/A	46.8	① ② ③ ® N/A	47.7	① ② ③ ® N/A	46.4	① ② ③ ® N/A	44.6	① ② ③ ® N/A	45.1	① ② ③ ® N/A	45.8	① ② ③ ® N/A	47.8
68648	2	① ② ③ ® N/A	45.5	① ② ③ ® N/A	46.2	① ② ③ ® N/A	46.3	① ② ③ ® N/A	45.2	① ② ③ ® N/A	44.8	① ② ③ ® N/A	45.5	① ② ③ ® N/A	47.7
68665	3	① ② ③ ® N/A	45.3	① ② ③ ® N/A	46.8	① ② ③ ® N/A	46.0	① ② ③ ® N/A	45.2	① ② ③ ® N/A	44.6	① ② ③ ® N/A	45.2	① ② ③ ® N/A	47.7
68685	1	① ② ③ ® N/A	45.0	① ② ③ ® N/A	45.9	① ② ③ ® N/A	46.7	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.4	① ② ③ ® N/A	45.1	① ② ③ ® N/A	47.4
69013	1	① ② ③ ® N/A	44.9	① ② ③ ® N/A	46.0	① ② ③ ® N/A	46.2	① ② ③ ® N/A	45.3	① ② ③ ® N/A	44.0	① ② ③ ® N/A	44.9	① ② ③ ® N/A	47.4
69015	2	① ② ③ ® N/A	45.9	① ② ③ ® N/A	47.5	① ② ③ ® N/A	46.5	① ② ③ ® N/A	45.9	① ② ③ ® N/A	45.7	① ② ③ ® N/A	45.8	① ② ③ ® N/A	47.7
69036	3	① ② ③ ® N/A	45.3	① ② ③ ® N/A	46.2	① ② ③ ® N/A	45.5	① ② ③ ® N/A	44.7	① ② ③ ® N/A	44.4	① ② ③ ® N/A	44.7	① ② ③ ® N/A	47.3
69076	1	① ② ③ ® N/A	45.2	① ② ③ ® N/A	46.7	① ② ③ ® N/A	46.6	① ② ③ ® N/A	45.0	① ② ③ ® N/A	43.9	① ② ③ ® N/A	44.9	① ② ③ ® N/A	47.3
69079	1	① ② ③ ® N/A	44.9	① ② ③ ® N/A	46.7	① ② ③ ® N/A	46.1	① ② ③ ® N/A	45.1	① ② ③ ® N/A	44.2	① ② ③ ® N/A	45.0	① ② ③ ® N/A	47.3
69183	2	① ② ③ ® N/A	45.9	① ② ③ ® N/A	46.4	① ② ③ ® N/A	46.9	① ② ③ ® N/A	45.1	① ② ③ ® N/A	45.0	① ② ③ ® N/A	46.0	① ② ③ ® N/A	47.7

ATTACHMENT 2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	1	44.9	1	45.5	1	45.6	1	44.7	1	43.7	1	45.0	1	46.8
69280	1	1	45.2	1	45.9	1	45.5	1	44.8	1	44.2	1	45.9	1	47.3
69298	1	1	45.3	1	46.2	1	46.1	1	45.2	1	44.2	1	45.4	1	47.2
69361	3	3	45.2	3	46.1	3	45.6	3	44.9	3	44.7	3	44.7	3	47.4
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	1	45.5	1	46.0	1	45.9	1	45.0	1	43.7	1	45.2	1	47.4
69490	1	1	45.9	1	45.7	1	46.1	1	45.1	1	44.5	1	45.1	1	47.4
69491	3	3	45.4	3	47.2	3	46.1	3	44.8	3	44.4	3	44.6	3	47.7
69519	3	3	45.6	3	46.3	3	46.4	3	45.2	3	44.8	3	45.9	3	47.6
69520	1	1	45.3	1	46.1	1	46.0	1	44.9	1	44.5	1	45.6	1	47.3
69548	3	3	45.4	3	46.7	3	45.8	3	45.2	3	44.8	3	44.7	3	48.2
69553	2	2	45.9	2	45.8	2	45.5	2	45.1	2	44.5	2	44.8	2	47.1
69559	3	3	45.1	3	46.1	3	45.8	3	44.8	3	45.2	3	44.7	3	47.5
69568	2	2	46.1	2	46.1	2	45.9	2	45.0	2	44.6	2	45.3	2	47.1
69595	3	3	45.2	3	46.2	3	45.9	3	45.0	3	44.4	3	44.9	3	48.0
69598	2	2	45.9	2	45.5	2	45.3	2	44.7	2	44.3	2	44.8	2	47.6
69604	3	2, 3	45.3	3	46.6	3	46.2	3	45.0	3	44.7	3	44.9	3	47.7
69615	2	2	46.7	2	46.5	2	46.3	2	44.7	2	45.0	2	46.0	2	48.2

ATTACHMENT 2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	46.2	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	44.4	① ② ③ Ⓡ N/A	45.1	① ② ③ Ⓡ N/A	47.2
69618	1	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	46.4	① ② ③ Ⓡ N/A	44.0	① ② ③ Ⓡ N/A	44.0	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	47.6
69620	1	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	46.2	① ② ③ Ⓡ N/A	44.9	① ② ③ Ⓡ N/A	44.3	① ② ③ Ⓡ N/A	45.1	① ② ③ Ⓡ N/A	47.6
69630	2	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	46.7	① ② ③ Ⓡ N/A	46.6	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	45.0	① ② ③ Ⓡ N/A	45.6	① ② ③ Ⓡ N/A	47.8
69633	2	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	47.0	① ② ③ Ⓡ N/A	46.7	① ② ③ Ⓡ N/A	45.6	① ② ③ Ⓡ N/A	45.2	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	48.0
69634	2	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	46.4	① ② ③ Ⓡ N/A	44.9	① ② ③ Ⓡ N/A	44.4	① ② ③ Ⓡ N/A	45.0	① ② ③ Ⓡ N/A	47.3
69635	2	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	46.8	① ② ③ Ⓡ N/A	46.8	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	45.2	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	48.1
69636	1	① ② ③ Ⓡ N/A	45.2	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	45.0	① ② ③ Ⓡ N/A	44.2	① ② ③ Ⓡ N/A	45.4	① ② ③ Ⓡ N/A	47.3
69637	2	① ② ③ Ⓡ N/A	45.4	① ② ③ Ⓡ N/A	47.4	① ② ③ Ⓡ N/A	46.8	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	48.3
69638	2	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	46.4	① ② ③ Ⓡ N/A	46.8	① ② ③ Ⓡ N/A	46.6	① ② ③ Ⓡ N/A	44.8	① ② ③ Ⓡ N/A	45.4	① ② ③ Ⓡ N/A	47.8
69639	2	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	47.0	① ② ③ Ⓡ N/A	46.7	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	45.7	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	47.8
69641	1	① ② ③ Ⓡ N/A	45.2	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	44.4	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	47.3
69642	2	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	47.0	① ② ③ Ⓡ N/A	46.9	① ② ③ Ⓡ N/A	45.6	① ② ③ Ⓡ N/A	45.1	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	48.1
69644	2	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	46.6	① ② ③ Ⓡ N/A	46.3	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	45.2	① ② ③ Ⓡ N/A	45.7	① ② ③ Ⓡ N/A	47.7
69645	3	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	46.5	① ② ③ Ⓡ N/A	46.5	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	44.7	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	48.2
87827	3	① ② ③ Ⓡ N/A	45.7	① ② ③ Ⓡ N/A	47.0	① ② ③ Ⓡ N/A	46.7	① ② ③ Ⓡ N/A	44.9	① ② ③ Ⓡ N/A	45.0	① ② ③ Ⓡ N/A	45.0	① ② ③ Ⓡ N/A	48.3
87823	3	① ② ③ Ⓡ N/A	44.9	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	44.7	① ② ③ Ⓡ N/A	44.9	① ② ③ Ⓡ N/A	44.6	① ② ③ Ⓡ N/A	46.9

ATTACHMENT 2
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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ③ ® N/A	45.2	① ② ③ ® N/A	46.1	① ② ③ ® N/A	45.9	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.8	① ② ③ ® N/A	45.1	① ② ③ ® N/A	46.5
87826	3	① ② ③ ® N/A	45.0	① ② ③ ® N/A	47.0	① ② ③ ® N/A	46.0	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.2	① ② ③ ® N/A	44.9	① ② ③ ® N/A	47.2
92459	2	① ② ③ ® N/A	45.7	① ② ③ ® N/A	46.3	① ② ③ ® N/A	45.9	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.8	① ② ③ ® N/A	45.3	① ② ③ ® N/A	47.5
92472	2	① ② ③ ® N/A	45.5	① ② ③ ® N/A	46.5	① ② ③ ® N/A	46.2	① ② ③ ® N/A	45.3	① ② ③ ® N/A	44.6	① ② ③ ® N/A	45.4	① ② ③ ® N/A	47.5
92669	1	① ② ③ ® N/A	45.2	① ② ③ ® N/A	46.3	① ② ③ ® N/A	46.1	① ② ③ ® N/A	44.9	① ② ③ ® N/A	44.0	① ② ③ ® N/A	45.2	① ② ③ ® N/A	47.3
93605	3	① ② ③ ® N/A	45.6	① ② ③ ® N/A	46.5	① ② ③ ® N/A	46.1	① ② ③ ® N/A	45.0	① ② ③ ® N/A	44.7	① ② ③ ® N/A	45.1	① ② ③ ® N/A	48.1
94068	3	① ② ③ ® N/A	45.5	① ② ③ ® N/A	46.5	① ② ③ ® N/A	46.3	① ② ③ ® N/A	45.1	① ② ③ ® N/A	44.6	① ② ③ ® N/A	45.2	① ② ③ ® N/A	48.1
94227	2	① ② ③ ® N/A	45.4	① ② ③ ® N/A	45.9	① ② ③ ® N/A	46.0	① ② ③ ® N/A	45.1	① ② ③ ® N/A	44.9	① ② ③ ® N/A	45.4	① ② ③ ® N/A	47.6
End Time (6.[16])		1331		1338		1322		1321		1323		1322		1320	
Initial (6.[16])		WO: WO: Lm		WO: WO: Lm		WO: WO: Lm		WO: WO: Lm		WO: WO: Lm		WO: WO: Lm		WO: WO: Lm	

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Comments: no comment

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	12-26-16
Tina Aguirre		174977	12-26-16
Leon Montoya		191526	12-27-16
Tina Aguirre		174977	12-27-16
Leon Montoya		191526	12-28-16
Tina Aguirre		174977	12-28-16
Tina Aguirre		174977	12-29-16
Leon Montoya		191526	12-29-16
Tina Aguirre		174977	12-30-16
Leon Montoya		191526	12-30-16
Tina Aguirre		174977	12-31-16
Leon Montoya		191526	12-31-16
Tina Aguirre		174977	01-01-17
Leon Montoya		191526	01-01-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ④ = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: 01-02-17 Time: 1300	Tuesday Date: 01-03-17 Time: 1305	Wednesday Date: 01-04-17 Time: 1305	Thursday Date: 01-05-17 Time: 1400	Friday Date: 1-06-17 Time: 1429	Saturday Date: 01-07-17 Time: 1300	Sunday Date: 01-08-17 Time: 1301
TA-54-0375							
Calibrated infrared thermometer (6.[3])	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 01-06-17 104841 File Number: ~~104841~~	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 File Number: 101975	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 01-06-17 6-20-17 Cal. Due Date: ~~01-28-17~~ 01-06-17 101975 File Number: ~~104841~~	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: 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: 1-28-17 01-06-17 104841 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 Temperatures (6.[4])	Cell 1: 43.5 °F Cell 2 46.6 °F Cell 3: 44.5 °F Refrig.: 39.0 °F	Cell 1: 47.7 °F Cell 2 48.0 °F Cell 3: 47.0 °F Refrig.: 40.0 °F	Cell 1: 49.9 °F Cell 2 50.0 °F Cell 3: 48.7 °F Refrig.: 39.7 °F	Cell 1: 45.7 °F Cell 2 46.6 °F Cell 3: 45.3 °F Refrig.: 39.3 °F	Cell 1: 42.0 °F Cell 2 44.1 °F Cell 3: 43.7 °F Refrig.: 37.9 °F	Cell 1: 41.0 °F Cell 2 45.7 °F Cell 3: 42.1 °F Refrig.: 37.1 °F	Cell 1: 45.9 °F Cell 2 47.2 °F Cell 3: 44.9 °F Refrig.: 38.2 °F
($) Ambient Cell Temperatures ≤ 75°F; SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
($) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

WORKING COPY
Z# 174977

ATTACHMENT 2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ② ③ R N/A	46.0	① ② ③ R N/A	47.7	① ② ③ R N/A	48.7	① ② ③ R N/A	46.0	① ② ③ R N/A	43.1	① ② ③ R N/A	43.6	① ② ③ R N/A	46.3
68430	2	① ② ③ R N/A	46.9	① ② ③ R N/A	48.5	① ② ③ R N/A	49.6	① ② ③ R N/A	45.9	① ② ③ R N/A	44.2	① ② ③ R N/A	45.4	① ② ③ R N/A	47.1
68507	2	① ② ③ R N/A	46.7	① ② ③ R N/A	48.3	① ② ③ R N/A	49.7	① ② ③ R N/A	46.3	① ② ③ R N/A	44.4	① ② ③ R N/A	45.5	① ② ③ R N/A	47.6
68540	1	① ② ③ R N/A	45.1	① ② ③ R N/A	48.0	① ② ③ R N/A	49.7	① ② ③ R N/A	44.9	① ② ③ R N/A	43.9	① ② ③ R N/A	44.5	① ② ③ R N/A	46.6
68553	1	① ② ③ R N/A	45.1	① ② ③ R N/A	48.1	① ② ③ R N/A	49.7	① ② ③ R N/A	44.7	① ② ③ R N/A	44.0	① ② ③ R N/A	44.2	① ② ③ R N/A	46.6
68567	2	① ② ③ R N/A	45.9	① ② ③ R N/A	47.8	① ② ③ R N/A	49.0	① ② ③ R N/A	46.0	① ② ③ R N/A	43.6	① ② ③ R N/A	45.2	① ② ③ R N/A	46.7
68624	2	① ② ③ R N/A	47.3	① ② ③ R N/A	48.3	① ② ③ R N/A	49.9	① ② ③ R N/A	46.5	① ② ③ R N/A	44.6	① ② ③ R N/A	45.3	① ② ③ R N/A	47.5
68631	2	① ② ③ R N/A	46.7	① ② ③ R N/A	48.4	① ② ③ R N/A	49.6	① ② ③ R N/A	45.9	① ② ③ R N/A	43.8	① ② ③ R N/A	44.6	① ② ③ R N/A	47.0
68638	2	① ② ③ R N/A	47.0	① ② ③ R N/A	49.1	① ② ③ R N/A	49.3	① ② ③ R N/A	45.8	① ② ③ R N/A	44.1	① ② ③ R N/A	44.5	① ② ③ R N/A	47.1
68648	2	① ② ③ R N/A	46.4	① ② ③ R N/A	48.1	① ② ③ R N/A	49.4	① ② ③ R N/A	46.9	① ② ③ R N/A	44.1	① ② ③ R N/A	45.0	① ② ③ R N/A	47.1
68665	3	① ② ③ R N/A	46.0	① ② ③ R N/A	48.2	① ② ③ R N/A	49.5	① ② ③ R N/A	45.7	① ② ③ R N/A	44.1	① ② ③ R N/A	44.9	① ② ③ R N/A	46.6
68685	1	① ② ③ R N/A	45.0	① ② ③ R N/A	48.0	① ② ③ R N/A	49.8	① ② ③ R N/A	45.7	① ② ③ R N/A	44.5	① ② ③ R N/A	45.6	① ② ③ R N/A	46.9
69013	1	① ② ③ R N/A	45.3	① ② ③ R N/A	47.9	① ② ③ R N/A	49.5	① ② ③ R N/A	45.5	① ② ③ R N/A	44.1	① ② ③ R N/A	44.3	① ② ③ R N/A	46.5
69015	2	① ② ③ R N/A	46.5	① ② ③ R N/A	48.0	① ② ③ R N/A	49.4	① ② ③ R N/A	46.3	① ② ③ R N/A	44.2	① ② ③ R N/A	46.3	① ② ③ R N/A	47.4
69036	3	① ② ③ R N/A	45.6	① ② ③ R N/A	47.9	① ② ③ R N/A	49.6	① ② ③ R N/A	46.2	① ② ③ R N/A	43.1	① ② ③ R N/A	43.8	① ② ③ R N/A	46.7
69076	1	① ② ③ R N/A	45.4	① ② ③ R N/A	47.8	① ② ③ R N/A	49.4	① ② ③ R N/A	44.9	① ② ③ R N/A	44.6	① ② ③ R N/A	45.1	① ② ③ R N/A	46.7
69079	1	① ② ③ R N/A	45.6	① ② ③ R N/A	47.6	① ② ③ R N/A	49.0	① ② ③ R N/A	45.2	① ② ③ R N/A	44.0	① ② ③ R N/A	45.3	① ② ③ R N/A	47.0
69183	2	① ② ③ R N/A	46.6	① ② ③ R N/A	48.2	① ② ③ R N/A	50.0	① ② ③ R N/A	46.3	① ② ③ R N/A	44.2	① ② ③ R N/A	45.4	① ② ③ R N/A	47.2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	①✓ ② ③ ® N/A	45.1	①✓ ② ③ ® N/A	47.7	①✓ ② ③ ® N/A	49.4	①✓ ② ③ ® N/A	45.3	①✓ ② ③ ® N/A	44.3	①✓ ② ③ ® N/A	44.7	①✓ ② ③ ® N/A	47.0
69280	1	①✓ ② ③ ® N/A	45.1	①✓ ② ③ ® N/A	48.6	①✓ ② ③ ® N/A	49.7	①✓ ② ③ ® N/A	45.2	①✓ ② ③ ® N/A	44.7	①✓ ② ③ ® N/A	45.5	①✓ ② ③ ® N/A	47.2
69298	1	①✓ ② ③ ® N/A	45.8	①✓ ② ③ ® N/A	47.9 ~~47.9~~	①✓ ② ③ ® N/A	49.4	①✓ ② ③ ® N/A	45.7	①✓ ② ③ ® N/A	44.9	①✓ ② ③ ® N/A	46.0	①✓ ② ③ ® N/A	47.2
69361	3	① ② ③✓ ® N/A	45.7	① ② ③✓ ® N/A	47.8	① ② ③✓ ® N/A	49.7	① ② ③✓ ® N/A	45.5	① ② ③✓ ® N/A	43.7	① ② ③✓ ® N/A	43.7	① ② ③✓ ® N/A	46.6
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	①✓ ② ③ ® N/A	45.0	①✓ ② ③ ® N/A	47.8	①✓ ② ③ ® N/A	49.6	①✓ ② ③ ® N/A	45.1	①✓ ② ③ ® N/A	44.3	①✓ ② ③ ® N/A	45.1 ~~45.1~~	①✓ ② ③ ® N/A	47.4
69490	1	①✓ ② ③ ® N/A	45.7	①✓ ② ③ ® N/A	47.7	①✓ ② ③ ® N/A	49.5	①✓ ② ③ ® N/A	45.4	①✓ ② ③ ® N/A	44.5	①✓ ② ③ ® N/A	45.2	①✓ ② ③ ® N/A	46.9
69491	3	① ② ③✓ ® N/A	46.1	① ② ③✓ ® N/A	48.0	① ② ③✓ ® N/A	49.7	① ② ③✓ ® N/A	45.6	① ② ③✓ ® N/A	43.4	① ② ③✓ ® N/A	43.1	① ② ③✓ ® N/A	46.4
69519	3	① ② ③✓ ® N/A	45.6	① ② ③✓ ® N/A	48.1	① ② ③✓ ® N/A	49.1	① ② ③✓ ® N/A	45.9	① ② ③✓ ® N/A	43.9	① ② ③✓ ® N/A	44.2	① ② ③✓ ® N/A	46.9
69520	1	①✓ ② ③ ® N/A	45.6	①✓ ② ③ ® N/A	48.3	①✓ ② ③ ® N/A	50.5	①✓ ② ③ ® N/A	45.5	①✓ ② ③ ® N/A	44.3	①✓ ② ③ ® N/A	45.3	①✓ ② ③ ® N/A	46.6
69548	3	① ② ③✓ ® N/A	46.0	① ② ③✓ ® N/A	48.9	① ② ③✓ ® N/A	50.1	① ② ③✓ ® N/A	46.0	① ② ③✓ ® N/A	44.2	① ② ③✓ ® N/A	43.8	① ② ③✓ ® N/A	46.8
69553	2	① ②✓ ③ ® N/A	46.6	① ②✓ ③ ® N/A	49.0	① ②✓ ③ ® N/A	49.1	① ②✓ ③ ® N/A	45.9	① ②✓ ③ ® N/A	42.9	① ②✓ ③ ® N/A	43.8	① ②✓ ③ ® N/A	46.7
69559	3	① ② ③✓ ® N/A	45.7	① ② ③✓ ® N/A	48.0	① ② ③✓ ® N/A	49.6	① ② ③✓ ® N/A	45.7	① ② ③✓ ® N/A	43.9	① ② ③✓ ® N/A	43.5	① ② ③✓ ® N/A	46.5
69568	2	① ②✓ ③ ® N/A	46.5	① ②✓ ③ ® N/A	48.0	① ②✓ ③ ® N/A	49.0	① ②✓ ③ ® N/A	45.9	① ②✓ ③ ® N/A	43.2	① ②✓ ③ ® N/A	44.5	① ②✓ ③ ® N/A	46.8
69595	3	① ② ③✓ ® N/A	45.9	① ② ③✓ ® N/A	47.9	① ② ③✓ ® N/A	49.5	① ② ③✓ ® N/A	45.4	① ② ③✓ ® N/A	43.8	① ② ③✓ ® N/A	43.9	① ② ③✓ ® N/A	46.5
69598	2	① ②✓ ③ ® N/A	46.2	① ②✓ ③ ® N/A	47.5	① ②✓ ③ ® N/A	48.5	① ②✓ ③ ® N/A	45.5	① ②✓ ③ ® N/A	43.1	① ②✓ ③ ® N/A	44.4	① ②✓ ③ ® N/A	46.5
69604	3	① ② ③✓ ® N/A	45.9	① ② ③✓ ® N/A	48.5	① ② ③✓ ® N/A	49.0	① ② ③✓ ® N/A	46.3	① ② ③✓ ® N/A	44.3	① ② ③✓ ® N/A	43.9	① ② ③✓ ® N/A	46.8
69615	2	① ②✓ ③ ® N/A	46.5	① ②✓ ③ ® N/A	48.6	① ②✓ ③ ® N/A	49.7	① ②✓ ③ ® N/A	46.4	① ②✓ ③ ® N/A	44.7	① ②✓ ③ ® N/A	46.2	① ②✓ ③ ® N/A	47.5

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	①✓ ② ③ ® N/A	45.6	①✓ ② ③ ® N/A	48.0	①✓ ② ③ ® N/A	49.6	①✓ ② ③ ® N/A	45.5	①✓ ② ③ ® N/A	45.0	①✓ ② ③ ® N/A	45.4	①✓ ② ③ ® N/A	47.1
69618	1	①✓ ② ③ ® N/A	45.4	①✓ ② ③ ® N/A	48.1	①✓ ② ③ ® N/A	49.6	①✓ ② ③ ® N/A	45.2	①✓ ② ③ ® N/A	44.2	①✓ ② ③ ® N/A	44.3	①✓ ② ③ ® N/A	47.0
69620	1	①✓ ② ③ ® N/A	45.7	①✓ ② ③ ® N/A	47.9	①✓ ② ③ ® N/A	49.9	①✓ ② ③ ® N/A	45.8	①✓ ② ③ ® N/A	44.5	①✓ ② ③ ® N/A	44.9	①✓ ② ③ ® N/A	46.9
69630	2	① ②✓ ③ ® N/A	46.4	① ②✓ ③ ® N/A	48.5	① ②✓ ③ ® N/A	49.8	① ②✓ ③ ® N/A	46.3	① ②✓ ③ ® N/A	44.5	① ②✓ ③ ® N/A	45.6	① ②✓ ③ ® N/A	47.6
69633	2	① ②✓ ③ ® N/A	47.0	① ②✓ ③ ® N/A	48.6	① ②✓ ③ ® N/A	49.7	① ②✓ ③ ® N/A	46.2	① ②✓ ③ ® N/A	45.2	① ②✓ ③ ® N/A	45.4	① ②✓ ③ ® N/A	47.3
69634	2	① ②✓ ③ ® N/A	46.1	① ②✓ ③ ® N/A	48.1	① ②✓ ③ ® N/A	49.4	① ②✓ ③ ® N/A	45.8	① ②✓ ③ ® N/A	43.2	① ②✓ ③ ® N/A	44.4	① ②✓ ③ ® N/A	46.2
69635	2	① ②✓ ③ ® N/A	46.7	① ②✓ ③ ® N/A	49.5	① ②✓ ③ ® N/A	49.9	① ②✓ ③ ® N/A	46.2	① ②✓ ③ ® N/A	45.6	① ②✓ ③ ® N/A	46.4	① ②✓ ③ ® N/A	46.8
69636	1	①✓ ② ③ ® N/A	45.6	①✓ ② ③ ® N/A	48.7	①✓ ② ③ ® N/A	49.4	①✓ ② ③ ® N/A	45.5	①✓ ② ③ ® N/A	44.9	①✓ ② ③ ® N/A	45.7	①✓ ② ③ ® N/A	47.3
69637	2	① ②✓ ③ ® N/A	47.5	① ②✓ ③ ® N/A	48.7	① ②✓ ③ ® N/A	50.3	① ②✓ ③ ® N/A	46.7	① ②✓ ③ ® N/A	44.6	① ②✓ ③ ® N/A	46.6	① ②✓ ③ ® N/A	48.1
69638	2	① ②✓ ③ ® N/A	47.0	① ②✓ ③ ® N/A	48.8	① ②✓ ③ ® N/A	50.0	① ②✓ ③ ® N/A	46.4	① ②✓ ③ ® N/A	44.4	① ②✓ ③ ® N/A	46.1	① ②✓ ③ ® N/A	47.4
69639	2	① ②✓ ③ ® N/A	47.3	① ②✓ ③ ® N/A	48.4	① ②✓ ③ ® N/A	49.7	① ②✓ ③ ® N/A	46.3	① ②✓ ③ ® N/A	45.3	① ②✓ ③ ® N/A	46.2	① ②✓ ③ ® N/A	47.5
69641	1	①✓ ② ③ ® N/A	45.8	①✓ ② ③ ® N/A	47.8	①✓ ② ③ ® N/A	49.6	①✓ ② ③ ® N/A	45.4	①✓ ② ③ ® N/A	45.3	①✓ ② ③ ® N/A	46.2	①✓ ② ③ ® N/A	47.3
69642	2	① ②✓ ③ ® N/A	46.9	① ②✓ ③ ® N/A	48.9	① ②✓ ③ ® N/A	50.0	① ②✓ ③ ® N/A	46.1	① ②✓ ③ ® N/A	44.9	① ②✓ ③ ® N/A	46.6	① ②✓ ③ ® N/A	47.3
69644	2	① ②✓ ③ ® N/A	46.6	① ②✓ ③ ® N/A	48.4	① ②✓ ③ ® N/A	49.7	① ②✓ ③ ® N/A	46.3	① ②✓ ③ ® N/A	44.3	① ②✓ ③ ® N/A	44.9	① ②✓ ③ ® N/A	47.6
69645	3	① ② ③✓ ® N/A	46.6	① ② ③✓ ® N/A	48.3	① ② ③✓ ® N/A	49.7	① ② ③✓ ® N/A	45.7	① ② ③✓ ® N/A	44.1	① ② ③✓ ® N/A	44.3	① ② ③✓ ® N/A	46.7
87827	3	① ② ③✓ ® N/A	46.0	① ② ③✓ ® N/A	48.7	① ② ③✓ ® N/A	50.3	① ② ③✓ ® N/A	45.8	① ② ③✓ ® N/A	43.7	① ② ③✓ ® N/A	43.8	① ② ③✓ ® N/A	47.1
87823	3	① ② ③✓ ® N/A	45.5	① ② ③✓ ® N/A	47.3	① ② ③✓ ® N/A	49.8	① ② ③✓ ® N/A	45.4	① ② ③✓ ® N/A	43.2	① ② ③✓ ® N/A	43.4	① ② ③✓ ® N/A	46.5

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	47.5	① ② ③ Ⓡ N/A	49.7	① ② ③ Ⓡ N/A	46.8	① ② ③ Ⓡ N/A	43.1	① ② ③ Ⓡ N/A	43.1	① ② ③ Ⓡ N/A	46.6
87826	3	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	48.7	① ② ③ Ⓡ N/A	50.7	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	43.8	① ② ③ Ⓡ N/A	43.5	① ② ③ Ⓡ N/A	46.4
92459	2	① ② ③ Ⓡ N/A	46.4	① ② ③ Ⓡ N/A	47.9	① ② ③ Ⓡ N/A	49.7	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	43.5	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	47.2
92472	2	① ② ③ Ⓡ N/A	46.7	① ② ③ Ⓡ N/A	47.8	① ② ③ Ⓡ N/A	49.4	① ② ③ Ⓡ N/A	45.8	① ② ③ Ⓡ N/A	43.6	① ② ③ Ⓡ N/A	45.3	① ② ③ Ⓡ N/A	47.1
92669	1	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	47.7	① ② ③ Ⓡ N/A	49.8	① ② ③ Ⓡ N/A	45.6	① ② ③ Ⓡ N/A	45.1	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	47.2
93605	3	① ② ③ Ⓡ N/A	46.0	① ② ③ Ⓡ N/A	48.4	① ② ③ Ⓡ N/A	49.9	① ② ③ Ⓡ N/A	45.6	① ② ③ Ⓡ N/A	44.4	① ② ③ Ⓡ N/A	44.1	① ② ③ Ⓡ N/A	46.9
94068	3	① ② ③ Ⓡ N/A	45.9	① ② ③ Ⓡ N/A	48.1	① ② ③ Ⓡ N/A	50.1	① ② ③ Ⓡ N/A	45.5	① ② ③ Ⓡ N/A	44.7	① ② ③ Ⓡ N/A	43.8	① ② ③ Ⓡ N/A	46.6
94227	2	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	48.5	① ② ③ Ⓡ N/A	49.0	① ② ③ Ⓡ N/A	46.1	① ② ③ Ⓡ N/A	43.7	① ② ③ Ⓡ N/A	44.8	① ② ③ Ⓡ N/A	47.2
End Time (6.[16])		1322		1421		1352		~~1420~~ 1440 FA 01-05-17		1450		1319		1321	
Initial (6.[16])		WO: [signature] A WO: Lm		WO: [signature] WO: Lm		WO: [signature] WO: Lm		WO: FA WO: Lm		WO: [signature] WO: [signature]		WO: [signature] WO: Lm		WO: Lm WO: [signature]	

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Comments: no comment

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre		174977	01-02-17
Leon montoya		191526	01-02-17
Tina Aguirre		174977	01-03-17
Leon montoya		191526	01-03-17
Tina Aguirre		174977	01-04-17
Leon montoya		191526	01-04-17
Fabian Anaya		174963	01-05-17
Leon montoya		191526	01-05-17
Robert Hansel		291778	1-6-17
Juan Garcia		169840	01-06-17
Leon montoya		191526	01-07-17
Robert Hansel		291778	01-07-17
Leon montoya		191526	01-08-17
Robert Hansel		291778	01-08-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

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

NOTE *Drum 6941[illegible] is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A = removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: 01-09-2017 Time: 1322	Tuesday Date: 01-10-17 Time: 1350	Wednesday Date: 01.11.17 Time: 1312	Thursday Date: 01.12.17 Time: 1319	Friday Date: 01.13.17 Time: 1305	Saturday Date: 01-14-17 Time: 1305	Sunday Date: 01.15.17 Time: 1306
TA-54-0375							
Calibrated infrared thermometer (6.[3])	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: 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: 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: 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: 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: 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: 06-20-17 File Number: 101975
Ambient Temperatures (6.[4])	Cell 1: 45.9 °F Cell 2: 47.8 °F Cell 3: 47.0 °F Refrig.: 39.1 °F	Cell 1: 50.9 °F Cell 2: 49.2 °F Cell 3: 51.9 °F Refrig.: 38.7 °F	Cell 1: 49.7 °F Cell 2: 49.4 °F Cell 3: 48.8 °F Refrig.: 40.0 °F	Cell 1: 50.0 °F Cell 2: 50.1 °F Cell 3: 52.3 °F Refrig.: 39.1 °F	Cell 1: 48.3 °F Cell 2: 50.2 °F Cell 3: 47.9 °F Refrig.: 38.7 °F	Cell 1: 49.7 °F Cell 2: 51.2 °F Cell 3: 49.8 °F Refrig.: 39.6 °F	Cell 1: 42.5 °F Cell 2: 47.0 °F Cell 3: 44.8 °F Refrig.: 38.7 °F
(S) Ambient Cell Temperatures ≤ 75°F: SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
(S) Ambient Refrig. Temp.: > 32°F and < 41°F: SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT

WORKING COPY

Z# 100492

INITIAL ED

DATE 01-09-2017

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	2	46.4	2	49.2	2	48.8	2	49.8	2	49.6	2	50.6	2	47.2
68430	2	2	46.1	2	49.6	2	50.3	2	49.3	2	48.8	2	49.7	2	46.1
68507	2	2	46.5	2	49.5	2	49.3	2	50.1	2	48.6	2	49.6	2	45.6
68540	1	1	44.7	1	49.4	1	49.7	1	49.7	1	48.0	1	49.8	1	43.8
68553	1	1	45.9	1	50.0	1	49.3	1	50.1	1	47.9	1	48.9	1	43.9
68567	2	2	46.3	2	49.1	2	50.4	2	48.9	2	48.8	2	49.6	2	45.5
68624	2	2	47.5	2	52.1	2	51.4	2	49.2	2	49.5	2	51.3	2	47.2
68631	2	2	47.6	2	49.4	2	49.6	2	49.6	2	48.9	2	49.7	2	45.4
68638	2	2	46.4	2	49.5	2	49.7	2	49.4	2	48.6	2	51.5	2	45.2
68648	2	2	47.5	2	50.1	2	49.4	2	50.0	2	49.5	2	49.6	2	47.0
68665	3	3	47.7	3	49.3	3	49.5	3	50.1	3	49.5	3	49.9	3	46.8
68685	1	1	48.1	1	50.9	1	51.2	1	51.1	1	46.0	1	51.7	1	43.7
69013	1	1	46.2	1	49.1	1	51.8	1	50.6	1	49.2	1	51.3	1	45.8
69015	2	2	46.1	2	49.6	2	50.7	2	50.2	2	49.0	2	49.7	2	46.3
69036	3	3	46.7	3	49.7	3	48.5	3	49.2	3	48.3	3	49.9	3	45.9
69076	1	1	45.6	1	49.3	1	49.4	1	50.2	1	47.5	1	49.0	1	44.2
69079	1	1	46.5	1	48.8	1	49.7	1	50.4	1	49.0	1	49.0	1	44.2
69183	2	2	46.5	2	49.7	2	49.2	2	49.6	2	48.6	2	49.4	2	46.3

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Container ID #	Original Cell Location	Monday Location	Monday Temp	Tuesday Location	Tuesday Temp	Wednesday Location	Wednesday Temp	Thursday Location	Thursday Temp	Friday Location	Friday Temp	Saturday Location	Saturday Temp	Sunday Location	Sunday Temp
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	1	45.2	1	50.7	1	49.7	1	49.6	1	49.4	1	48.9	1	44.3
69280	1	1	46.1	1	49.4	1	49.9	1	49.4	1	49.4	1	50.8	1	45.3
69298	1	1	46.2	1	51.1	1	50.4	1	49.7	1	49.4	1	50.1	1	45.1
69361	3	3	46.8	3	48.6	3	50.0	3	50.2	3	49.2	3	50.4	3	45.7
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	1	45.3	1	50.1	1	50.6	1	49.8	1	49.4	1	50.7	1	45.0
69490	1	1	45.9	1	50.1	1	49.7	1	49.7	1	47.7	1	49.7	1	44.6
69491	3	3	46.8	3	49.5	3	48.7	3	49.6	3	48.2	3	49.6	3	45.7
69519	3	3	47.1	3	50.7	3	49.9	3	49.6	3	47.9	3	49.3	3	46.3
69520	1	1	45.4	1	51.6	1	51.3	1	49.1	1	47.1	1	49.9	1	44.9
69548	3	3	46.9	3	50.2	3	49.3	3	49.9	3	48.9	3	50.1	3	45.7
69553	2	2	47.7	2	48.7	2	49.2	2	49.8	2	49.0	2	49.5	2	46.3
69559	3	3	47.9	3	49.9 ~~[illegible]~~	3	49.1	3	49.6	3	48.2	3	49.9	3	45.8
69568	2	2	46.6	2	49.6	2	49.9	2	49.9	2	48.6	2	49.9	2	45.3
69595	3	3	46.8	3	48.4	3	48.7	3	49.1	3	49.5	3	49.6	3	45.7
69598	2	2	46.4	2	49.0	2	49.4	2	49.8	2	48.5	2	49.7	2	45.8
69604	3	3	47.8	3	49.5	3	48.1	3	49.2	3	48.9	3	49.9	3	46.4
69615	2	2	46.7	2	49.5	2	49.6	2	49.9	2	48.6	2	49.7	2	45.3

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	● ② ③ R N/A	46.5	● ② ③ R N/A	49.6	● ② ③ R N/A	49.9	● ② ③ R N/A	49.9	● ② ③ R N/A	48.8	● ② ③ R N/A	57.3	● ② ③ R N/A	46.0
69618	1	● ② ③ R N/A	46.3	● ② ③ R N/A	49.6	● ② ③ R N/A	49.9	● ② ③ R N/A	50.2	● ② ③ R N/A	48.3	● ② ③ R N/A	49.7	● ② ③ R N/A	44.1
69620	1	● ② ③ R N/A	46.8	● ② ③ R N/A	48.6	● ② ③ R N/A	49.0	● ② ③ R N/A	49.1	● ② ③ R N/A	47.1	● ② ③ R N/A	49.1	● ② ③ R N/A	44.6
69630	2	① ● ③ R N/A	46.7	① ● ③ R N/A	49.5	① ● ③ R N/A	50.1	① ● ③ R N/A	49.6	① ● ③ R N/A	48.8	① ● ③ R N/A	50.4	① ● ③ R N/A	45.4
69633	2	① ● ③ R N/A	46.7	① ● ③ R N/A	50.3	① ● ③ R N/A	49.7	① ● ③ R N/A	52.2	① ● ③ R N/A	48.8	① ● ③ R N/A	50.6	① ● ③ R N/A	46.9
69634	2	① ● ③ R N/A	46.8	① ● ③ R N/A	49.7	① ● ③ R N/A	49.0	① ● ③ R N/A	49.8	① ● ③ R N/A	49.5	① ● ③ R N/A	50.4	① ● ③ R N/A	46.6
69635	2	① ● ③ R N/A	47.8	① ● ③ R N/A	51.0	① ● ③ R N/A	49.9	① ● ③ R N/A	50.1	① ● ③ R N/A	50.4	① ● ③ R N/A	50.0	① ● ③ R N/A	47.0
69636	1	● ② ③ R N/A	45.7	● ② ③ R N/A	49.8	● ② ③ R N/A	49.9	● ② ③ R N/A	49.9	● ② ③ R N/A	48.3	● ② ③ R N/A	50.2	● ② ③ R N/A	45.2
69637	2	① ● ③ R N/A	47.0	① ● ③ R N/A	50.0	① ● ③ R N/A	49.8	① ● ③ R N/A	48.7	① ● ③ R N/A	48.9	① ● ③ R N/A	50.0	① ● ③ R N/A	46.4
69638	2	① ● ③ R N/A	46.4	① ● ③ R N/A	50.8	① ● ③ R N/A	49.7	① ● ③ R N/A	49.2	① ● ③ R N/A	49.3	① ● ③ R N/A	50.0	① ● ③ R N/A	45.7
69639	2	① ● ③ R N/A	48.3	① ● ③ R N/A	49.9	① ● ③ R N/A	49.6	① ● ③ R N/A	48.9	① ● ③ R N/A	49.0	① ● ③ R N/A	50.0	① ● ③ R N/A	46.2
69641	1	● ② ③ R N/A	46.0	● ② ③ R N/A	49.4	● ② ③ R N/A	50.2	● ② ③ R N/A	49.5	● ② ③ R N/A	48.7	● ② ③ R N/A	50.1	● ② ③ R N/A	44.8
69642	2	① ● ③ R N/A	46.8	① ● ③ R N/A	49.9	① ● ③ R N/A	50.6	① ● ③ R N/A	49.6	① ● ③ R N/A	48.8	① ● ③ R N/A	49.8	① ● ③ R N/A	45.3
69644	2	① ● ③ R N/A	46.5	① ● ③ R N/A	49.2	① ● ③ R N/A	50.3	① ● ③ R N/A	49.0	① ● ③ R N/A	48.8	① ● ③ R N/A	49.6	① ● ③ R N/A	45.9
69645	3	① ② ● R N/A	46.9	① ② ● R N/A	49.3	① ② ● R N/A	48.8	① ② ● R N/A	49.7	① ② ● R N/A	48.3	① ② ● R N/A	49.5	① ② ● R N/A	45.9
87827	3	① ② ● R N/A	48.3	① ② ● R N/A	51.3	① ② ● R N/A	51.9	① ② ● R N/A	51.5	① ② ● R N/A	49.1	① ② ● R N/A	51.7	① ② ● R N/A	46.7
87823	3	① ② ● R N/A	46.5	① ② ● R N/A	50.2	① ② ● R N/A	49.6	① ② ● R N/A	51.8	① ② ● R N/A	47.7	① ② ● R N/A	50.0	① ② ● R N/A	46.2

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ● R N/A	46.3	① ② ● R N/A	50.2	① ② ● R N/A	48.9	① ② ● R N/A	50.0	① ② ● R N/A	48.8	① ② ● R N/A	~~49.9~~ 50.0	① ② ● R N/A	44.2
87826	3	① ② ● R N/A	47.0	① ② ● R N/A	50.0	① ② ● R N/A	49.3	① ② ● R N/A	51.3	① ② ● R N/A	48.6	① ② ● R N/A	~~49.9~~ 48.2	① ② ● R N/A	45.4
92459	2	① ● ③ R N/A	45.9	① ● ③ R N/A	49.6	① ● ③ R N/A	49.8	① ● ③ R N/A	48.9	① ● ③ R N/A	48.8	① ● ③ R N/A	49.6	① ● ③ R N/A	46.1
92472	2	① ● ③ R N/A	45.7	① ● ③ R N/A	50.0	① ● ③ R N/A	50.4	① ● ③ R N/A	48.9	① ● ③ R N/A	48.6	① ● ③ R N/A	49.6	① ● ③ R N/A	46.1
92669	1	● ② ③ R N/A	46.2	● ② ③ R N/A	49.7	● ② ③ R N/A	49.9	● ② ③ R N/A	50.0	● ② ③ R N/A	48.5	● ② ③ R N/A	50.1	● ② ③ R N/A	44.9
93605	3	① ② ● R N/A	47.5	① ② ● R N/A	50.1	① ② ● R N/A	50.1	① ② ● R N/A	50.7	① ② ● R N/A	49.6	① ② ● R N/A	50.0	① ② ● R N/A	47.0
94068	3	① ② ● R N/A	46.1	① ② ● R N/A	49.2	① ② ● R N/A	48.9	① ② ● R N/A	49.7	① ② ● R N/A	48.5	① ● ~~③~~ R N/A	49.7	① ② ● R N/A	46.1
94227	2	① ● ③ R N/A	46.5	① ● ③ R N/A	49.4	① ● ③ R N/A	49.6	① ● ③ R N/A	49.1	① ● ③ R N/A	48.4	~~①~~ ● ③ R N/A	49.7	① ● ③ R N/A	45.5
End Time (6.[16])		1425		1405		1325		1337		1327		1330		1321	
Initial (6.[16])		WO: EP WO: MZ		WO: [illegible] WO: MZ		WO: von WO: MZ		WO: von WO: MZ		WO: MZ WO: LM		WO: MZ WO: LM		WO: MZ WO: von	

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Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Edward Pacheco	Edward Pacheco	100497	01-09-2017
MATT ZOCCO	Matthew Zo	311676	01-09-17
Tina Aguirre	Tina Aguirre	174977	01-10-17
MATT ZOCCO	Matthew Zo	311676	01-10-17
MATT ZOCCO	Matthew Z	311676	01-11-17
Valerie Martinez	Valerie Martinez	239958	01.11.17
Valerie Martinez	Valerie Martinez	239958	01.12.17

Waste Operator (print)	Signature	Z#	Date
MATT ZOCCO	Matthew Zo	311676	01-12-17
MATT ZOCCO	Matthew Zo	311676	01-13-17
Leon Montoya	[illegible]	191526	01-13-17
Leon Montoya	[illegible]	191526	01-14-17
MATT ZOCCO	Matthew Zo	311676	01-14-17
Valerie Martinez	Valerie Martinez	239958	01.15.17
MATT ZOCCO	Matthew Z	311676	01-15-17

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2

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

NOTE *Drum 69417 is no longer considered a RNS waste container by LANL or NMED. Containers marked by an (*) are POCs.*

① = Cell 1; ② = Cell 2; ③ = Cell3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Date and Start Time (6.[2])						
	Monday Date: 01·16·17 Time: 1300	Tuesday Date: 01-17-17 Time: 1306	Wednesday Date: ______ Time: ______	Thursday Date: ______ Time: ______	Friday Date: ______ Time: ______	Saturday Date: ______ Time: ______	Sunday Date: ______ Time: ______
TA-54-0375							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 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: ______
	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 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: ______
	Brand: Fluke Model: 561 Cal. Due Date: 06·20·17 File Number: 101975	Brand: Fluke Model: 561 Cal. Due Date: 6-20-17 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 Temperatures (6.[4])	Cell 1: 44.6 °F Cell 2 49.7 °F Cell 3: 46.8 °F Refrig.: 38.5 °F	Cell 1: ~~39.5~~ 46.5 °F Cell 2 49.0 °F Cell 3: 46.9 °F Refrig.: 39.5 °F	Cell 1: ____ °F Cell 2 ____ °F Cell 3: ____ °F Refrig.: ____ °F	Cell 1: ____ °F Cell 2 ____ °F Cell 3: ____ °F Refrig.: ____ °F	Cell 1: ____ °F Cell 2 ____ °F Cell 3: ____ °F Refrig.: ____ °F	Cell 1: ____ °F Cell 2 ____ °F Cell 3: ____ °F Refrig.: ____ °F	Cell 1: ____ °F Cell 2 ____ °F Cell 3: ____ °F Refrig.: ____ °F
(S) Ambient Cell Temperatures ≤ 75°F; SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
(S) Ambient Refrig. Temp.: > 32°F and ≤ 41°F; SR 4.6.2.1, SAC 5.7.24 (6.[7])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT

WORKING COPY

Z# 239958

INITIAL VM DATE 01/16/17

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68408	2	① ● ③ ® N/A	47.2	① ● ③ ® N/A	48.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68430	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68507	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68540	1	● ② ③ ® N/A	45.8	● ② ③ ® N/A	47.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68553	1	● ② ③ ® N/A	45.7	● ② ③ ® N/A	47.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68567	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68624	2	① ● ③ ® N/A	48.6	① ● ③ ® N/A	49.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68631	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68638	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68648	2	① ● ③ ® N/A	48.3	① ● ③ ® N/A	49.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68665	3	① ② ● ® N/A	47.7	① ② ● ® N/A	47.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
68685	1	● ② ③ ® N/A	47.0	● ② ③ ® N/A	48.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69013	1	● ② ③ ® N/A	47.8	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69015	2	① ● ③ ® N/A	48.7	① ● ③ ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69036	3	① ② ● ® N/A	47.1	① ② ● ® N/A	47.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69076	1	● ② ③ ® N/A	46.0	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69079	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69183	2	① ● ③ ® N/A	48.0	① ● ③ ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69208	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69280	1	● ② ③ ® N/A	47.0	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69298	1	● ② ③ ® N/A	47.5	● ② ③ ® N/A	47.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69361	3	① ② ● ® N/A	47.6	① ② ● ® N/A	47.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69417	1	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69445	1	● ② ③ ® N/A	47.2	● ② ③ ® N/A	47.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69490	1	● ② ③ ® N/A	45.9	● ② ③ ® N/A	47.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69491	3	① ② ● ® N/A	46.9	① ② ● ® N/A	48.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69519	3	① ② ● ® N/A	48.2	① ② ● ® N/A	47.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69520	1	● ② ③ ® N/A	46.3	● ② ③ ® N/A	47.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69548	3	① ② ● ® N/A	47.3	① ② ● ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69553	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69559	3	① ② ● ® N/A	46.2	① ② ● ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69568	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69595	3	① ② ● ® N/A	46.3	① ② ● ® N/A	47.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69598	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	47.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69604	3	① ② ● ® N/A	47.4	① ② ● ® N/A	48.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69615	2	① ● ③ ® N/A	47.8	① ● ③ ® N/A	48.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69616	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69618	1	● ② ③ ® N/A	46.2	● ② ③ ® N/A	47.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69620	1	● ② ③ ® N/A	46.1	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69630	2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69633	2	① ● ③ ® N/A	49.0	① ● ③ ® N/A	48.7	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69634	2	① ● ③ ® N/A	48.0	① ● ③ ® N/A	47.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69635	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69636	1	● ② ③ ® N/A	46.7	● ② ③ ® N/A	47.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69637	2	① ● ③ ® N/A	47.5	① ● ③ ® N/A	48.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69638	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A	48.6	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69639	2	① ● ③ ® N/A	47.6	① ● ③ ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69641	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	47.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69642	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69644	2	① ● ③ ® N/A	47.4	① ● ③ ® N/A [illegible] 1-17-17	48.4 ~~48.8~~	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69645	3	① ② ● ® N/A	47.3	① ② ● ® N/A	47.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87827	3	① ② ● ® N/A	47.4	① ② ● ® N/A	48.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87823	3	① ② ● ® N/A	48.0	① ② ● ® N/A	47.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	

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Container ID #	Original Cell Location	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
		Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
87825	3	① ② ● ® N/A	45.2	① ② ● ® N/A	47.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
87826	3	① ② ● ® N/A	47.1	① ② ● ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92459	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92472	2	① ● ③ ® N/A	47.7	① ● ③ ® N/A	48.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
92669	1	● ② ③ ® N/A	46.6	● ② ③ ® N/A	48.0	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
93605	3	① ② ● ® N/A	48.1	~~①~~ ② ● ® N/A	48.5	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
94068	3	① ② ● ® N/A	47.5	① ② ● ® N/A	48.4	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
94227	2	① ● ③ ® N/A	47.3	① ● ③ ® N/A	48.2	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
End Time (6.[16])		1318		14:22											
Initial (6.[16])		WO: RM WO: MZ		WO: CA WO: FA		WO: WO:		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

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Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	01/16/17
Matt Zocco	[illegible]	311676	01-16-17
Tina Aguirre	[illegible]	124977	01-17-17
Fabian Anaya	Fabian Anaya	174963	01-17-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date