From: Juarez, Catherine L
Sent: Wednesday, April 19, 2017 4:08 PM
To: Siona Briley <siona.briley@state.nm.us>; Ricardo Maestas <ricardo.maestas@state.nm.us>; jennifer.hower@state.nm.us; Butch Tongate <butch.tongate@state.nm.us>; Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>; Kieling, John, NMENV <john.kieling@state.nm.us>; pam.allen@state.nm.us
Cc: Maggiore, Peter <peter.maggiore@nnsa.doe.gov>; silas.deroma@nnsa.doe.gov; Cummings, Lisa K <lisa.cummings@nnsa.doe.gov>; Nickless, David J <david.nickless@nnsa.doe.gov>; Pugh, Jody M <jody.pugh@nnsa.doe.gov>; Bishop, Milton L <lee.bishop@em.doe.gov>; Nash, Adrienne Lyn <adrienne.nash@nnsa.doe.gov>; Armijo, Karen <Karen.Armijo@nnsa.doe.gov>; jordan.arnswald@nnsa.doe.gov; Mairson, William Raymond <wrmairson@lanl.gov>; Torres, Enrique <etorres@lanl.gov>; Woitte, Deborah Kay <dwoitte@lanl.gov>; McMichael, Susan Lynn <smcmichael@lanl.gov>; Brandt, Michael Thomas <mtbrandt@lanl.gov>; Sharp-Geiger, Raeanna Racine <raeanna@lanl.gov>; Grieggs, Tony <grieggst@lanl.gov>; Bacigalupa, Gian A <gian@lanl.gov>; Baumer, Andy <andybaumer@lanl.gov>; Martinez, Saundra <saundra@lanl.gov>; Schreiber, Arleen Thorn <arleen@lanl.gov>; Baldonado, Delilah <delilah@lanl.gov>; Hargis, Kenneth Marshall <khargis@lanl.gov>; Cabbil, Cheryl Denise <cabbil@lanl.gov>; Erickson, Randy <rerickson@lanl.gov>; Funk, David John <djf@lanl.gov>; Frederici, Dave <def@lanl.gov>; Robinson, Bruce Alan <robinson@lanl.gov>; McCann, John Phillips <jmccann@lanl.gov>; Tymkowych, John M <jtymkowych@lanl.gov>; Branch, Yvette S <ybranch@lanl.gov>; Guffee, Debi <dguffee@lanl.gov>; Saladen, Michael Thomas <saladen@lanl.gov>; epccat@lanl.gov; Diaz, Tammy <tdiaz@lanl.gov>; Haagenstad, Mark P <mph@lanl.gov>; Martinez, Lydia Emma <lydia@lanl.gov>; Naranjo, Felicia Danielle <felicia@lanl.gov>; Juarez, Catherine L <cjuarez@lanl.gov>; Vigil-Holterman, Luciana R <luciana@lanl.gov>; Martinez, Ellena Isabel <martinezel@lanl.gov>; Martinez, Amanda <amanda_@lanl.gov>; Hohs, Wayne Peter <wphohs@lanl.gov>; Roberts, Benjamine Bellem <bbroberts@lanl.gov>; Baca, Victoria R <vbaca@lanl.gov>
Subject: Monthly Technical Summary March 16, 2017 – April 19, 2017

Linked below is the written monthly technical summary March 16, 2017 – April 19, 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.

NMED monthly written summary April 19 2017.pdf (24.3 MB)

Please remember the following:

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

Cathy Juarez for
Mark Haagenstad
EPC-CP

NMED / LANL Technical Summary

March 16, 2017- April 19, 2017

Participants:

- New Mexico Environment Department: Neelam Dhawan and Siona Briley.
- LANL- NNSA – Los Alamos Field Office: Jordan Arnswald.
- LANL – Los Alamos National Security: Mark Haagenstad, Felicia Naranjo 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).
    - Ten containers are located within the refrigerator attached to the 375 Permacon and all other 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.
    - March 15, 2017 – April 18, 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 April 18, 2017, LANL has completed HSG sampling for the month on 56 containers.
        - March 15, 2017 – April 18, 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 March 2017 and April 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.
- CH_4 values will be added to the May 2017 submittal to give the Permittees time to incorporate data into the graphical format from the raw data received.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**
  - Ten 55-gallon containers have been removed from their overpack container (SWB) and placed into storage within the refrigerator in Dome 375.
  - Preparation for shipment to the Waste Characterization, Reduction and Packaging Facility (WCRRF) will occur when pre-start readiness activities are complete.

Other:

Next Call: Wednesday, May 17, 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
03/15/17	282	938	11326	2381																
03/16/17	301	903	12481	2593	336	1241	21137	2656	276	936	16745	951	387	1184	16937	2678	1047	2444	41075	5252
03/17/17	288	799	12164	2537																
03/18/17	264	767	11258	2350																
03/19/17	291	1185	13021	2743																
03/20/17	303	894	13644	2833	335	1268	22680	2917	280	997	17811	1035	356	1297	17537	2787	715	2299	40487	5259
03/21/17	282	817	13052	2750																
03/22/17	116	454	5591	1190																
03/23/17	301	837	14888	3064	329	1284	23099	2963	279	1045	18033	1099	357	1153	17735	2860	702	2206	40652	5421
03/24/17	285	1021	13710	2879																
03/25/17	298	1036	13770	3025																
03/26/17	209	762	10321	2258																
03/27/17	297	863	13300	2920	331	1300	23370	3117	266	1025	16622	1035	359	1103	17511	2856	760	2253	38985	5365
03/28/17	305	826	13476	2966																
03/29/17	303	864	13099	2962																
03/30/17	282	813	12277	2814	310	1196	21926	2933	257	1047	16838	1093	319	1028	16578	2756	701	2063	37339	5257
03/31/17	275	812	10961	2451																
04/01/17	147	488	5782	1306																
04/02/17	242	594	8625	1944																
04/03/17	235	693	8028	1750	320	1139	21981	2913	280	1360	16902	1019	370	1172	17345	2801	547	1926	34656	4689
04/04/17	237	675	7710	1679																
04/05/17	203	615	6068	1296																
04/06/17	242	564	7040	1474	319	1201	21957	2876	281	956	16649	1024	316	1014	16190	2687	858	1838	30447	4244
04/07/17	267	554	7162	1504																
04/08/17	271	563	7190	1456																
04/09/17	264	588	6737	1378																
04/10/17	270	692	6780	1363	339	1319	22754	3016	288	928	17447	1056	386	1165	17655	2882	816	1618	24847	3212
04/11/17	246	736	6256	1233																
04/12/17	260	527	6723	1302																
04/13/17	259	550	6575	1306	326	1270	22153	2939	283	1047	17435	1061	380	1253	17822	2931	847	1668	25014	3048
04/14/17	266	730	6493	1270																
04/15/17	97	118	2462	467																
04/16/17	269	533	6775	1332																
04/17/17	281	509	6769	1300	343	1404	24121	3220	289	1042	18417	1131	384	1392	18630	3078	809	1610	23226	2740
04/18/17	270	679	6415	1251																

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
03/15/17					844	1672	19107	4506												
03/16/17	458	1279	17367	2364	779	1579	18712	4380												
03/17/17					859	1822	19377	4530												
03/18/17					841	1545	19817	4598												
03/19/17					874	1806	20451	4825												
03/20/17	453	1297	18045	2411	752	1464	19138	4512												
03/21/17					844	1733	20248	4753												
03/22/17					796	1832	19215	4513												
03/23/17	442	1363	18760	2556	875	1715	21240	5006												
03/24/17					800	1643	20197	4776												
03/25/17					804	1714	20443	4777												
03/26/17					812	1706	20484	4782												
03/27/17	460	1275	18447	2464	795	1573	19956	4703												
03/28/17					791	1562	19828	4668												
03/29/17					822	1842	20132	4792												
03/30/17	468	1349	18636	2513	768	1518	19692	4668												
03/31/17					827	1680	20029	4650												
04/01/17					785	1541	18890	4408												
04/02/17					804	1663	19462	4553									15	0	738	0
04/03/17	462	1415	17973	2405	717	1520	18910	4479												
04/04/17					685	1308	16196	3763												
04/05/17					761	1622	18518	4348												
04/06/17	447	1308	16947	2300	843	1602	19412	4555												
04/07/17					865	1646	19999	4649												
04/08/17					738	1441	17094	4014												
04/09/17					852	1648	20048	4661												
04/10/17	453	1315	17984	2480	826	1723	19112	4431												
04/11/17					854	1675	20388	4768	276	693	10600	1874	99	141	2122	86				
04/12/17					801	1736	18863	4375												
04/13/17	456	1335	18346	2440	836	1640	19866	4634												
04/14/17					833	1753	20451	4738												
04/15/17					823	1803	20850	4932												
04/16/17					854	1674	21139	5007												
04/17/17	449	1598	18490	2636	872	2000	21254	4978												
04/18/17					797	1764	20129	4670												

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
03/15/17					33	73	1501	125												
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17																				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17	37	133	2334	223																
03/28/17	54	124	2461	257																
03/29/17	44	117	2308	233																
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17																				
04/05/17					29	83	1330	168									13	0	494	0
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17													20	50	1305	148	13	0	341	0
04/12/17									36	91	1582	262								
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																				

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
03/15/17																				
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17									104	0	1523	424								
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																	308	1010	12549	1524
04/03/17																				
04/04/17									102	0	1151	372								
04/05/17																				
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																				
04/12/17					83	96	2233	247												
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17													730	1565	23216	3688				

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**
03/15/17	351	902	13983	3608																
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17									13	0	1137	109	184	897	9148	2921				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17									15	0	1361	184	272	939	9575	3015				
04/05/17	347	1082	13965	3901																
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																	123	397	1610	759
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																				

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
03/15/17	46	0	1820	118																
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17					342	948	13654	4166												
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17									100	320	4627	620								
04/04/17					338	792	13629	4473												
04/05/17	44	0	1794	106																
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																				
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																	522	1477	24358	2422

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
03/15/17					133	84	3820	423												
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17																				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17																				
04/05/17					127	111	3334	489												
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																				
04/12/17	501	1065	16107	2080					217	625	8197	657					223	1109	7353	2003
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17													305	804	14224	1963				

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
03/15/17																				
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17																				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17																				
04/05/17																				
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																				
04/12/17	512	1260	12947	2227	89	367	4862	332									294	692	9584	2000
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17													92	442	5257	615				

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
03/15/17	235	1004	13539	1929	389	1029	11125	3323	524	1673	22802	4860					124	304	3736	424
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17																				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17																				
04/05/17	215	836	12790	1923	366	1093	11060	3484	457	1422	21397	4647					56	167	3048	368
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17													39	0	796	564				
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																				

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**
03/15/17																				
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17									248	871	12629	1488								
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17	51	163	3570	134	774	1789	20476	4906	249	946	12063	1407								
04/05/17													15	383	7267	1126				
04/06/17													362	1009	14339	2122				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																	291	738	9204	1828
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																				

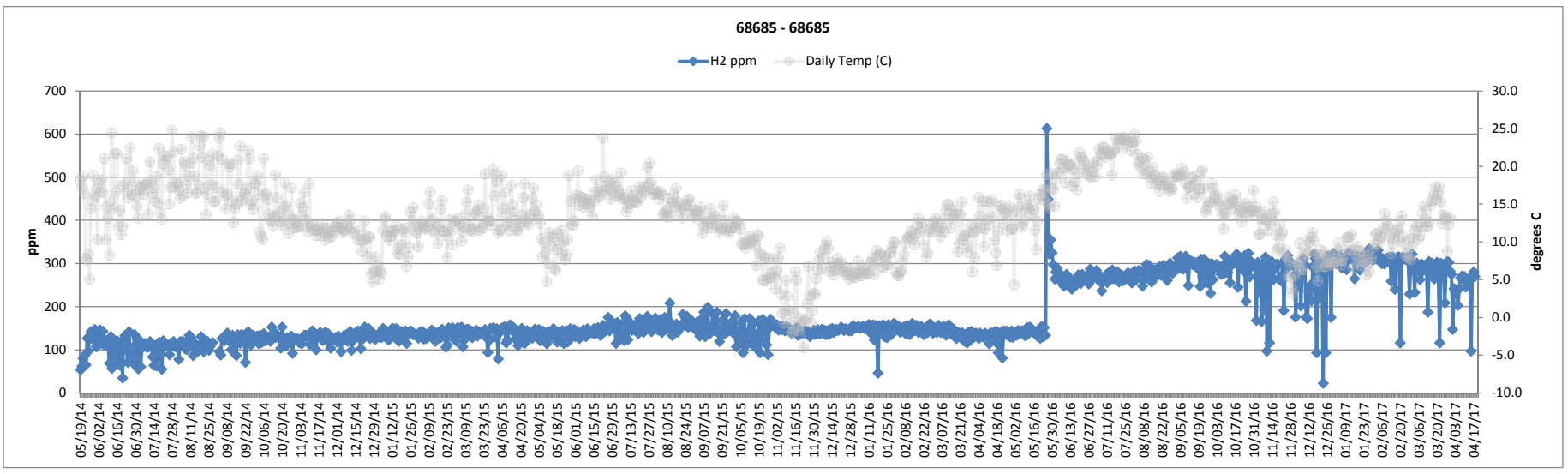
Remediated Nitrate Salt Container Headspace Gas Analysis

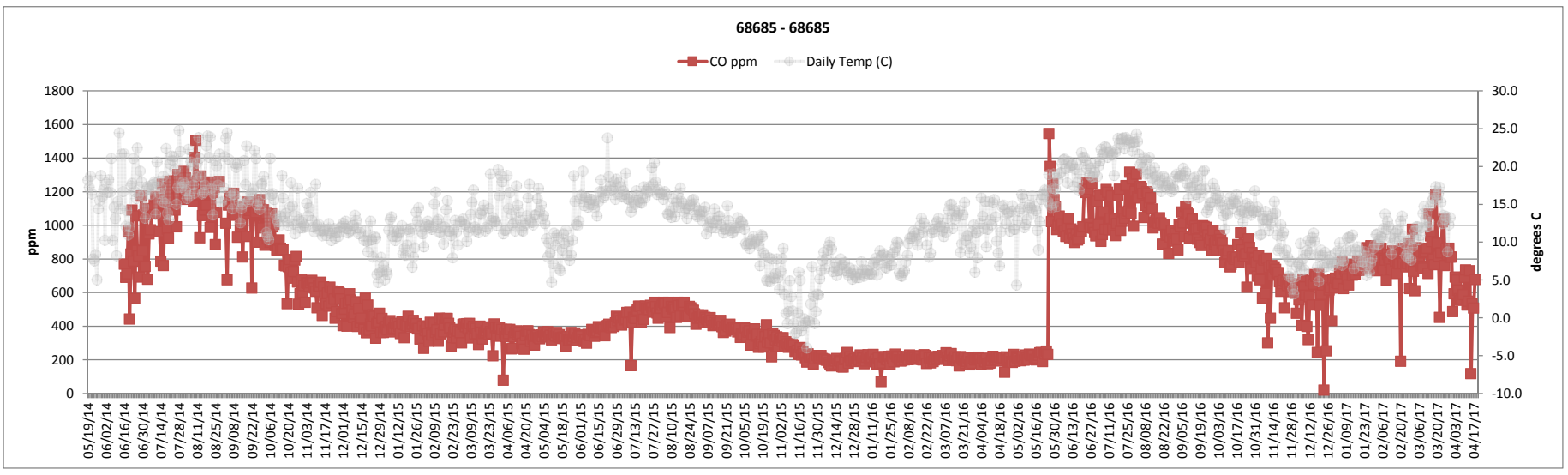
	SB50443 - 69183				SB50448 - 69491				SB50451 - 69361				SB50529 - 68665				SB50559 - 92459			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
03/15/17																				
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17					838	1563	19612	3630	228	613	6785	928	183	694	8038	977				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17																				
04/04/17					833	1646	18866	3505	230	772	6656	874	185	730	7016	936				
04/05/17																				
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17																	30	52	2179	99
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17	704	1567	18284	3852																

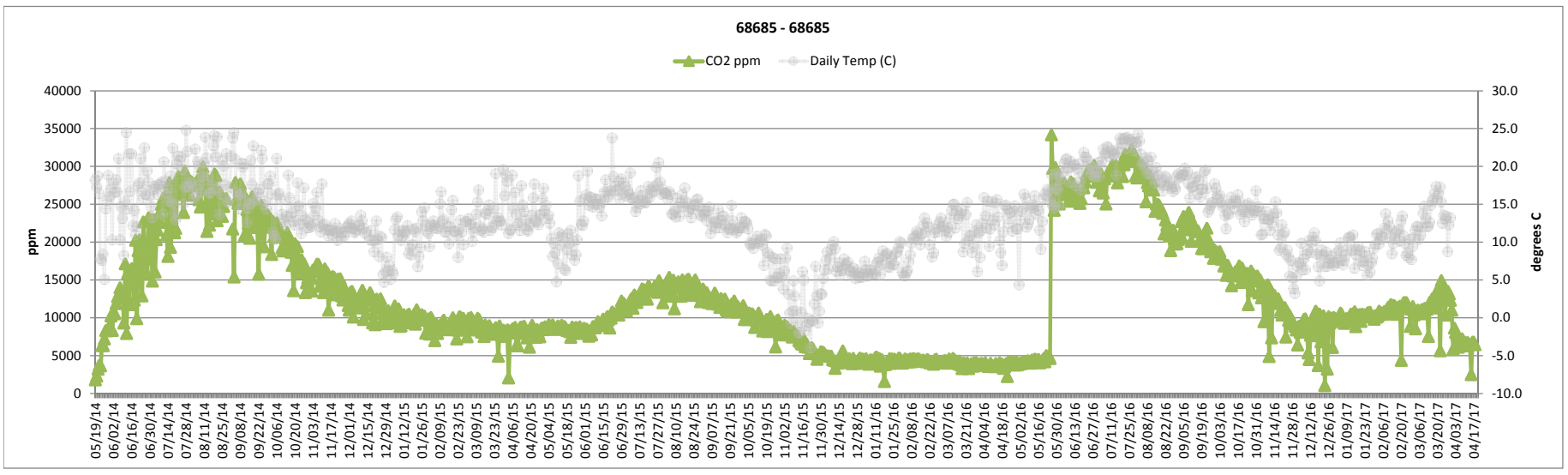
Remediated Nitrate Salt Container Headspace Gas Analysis

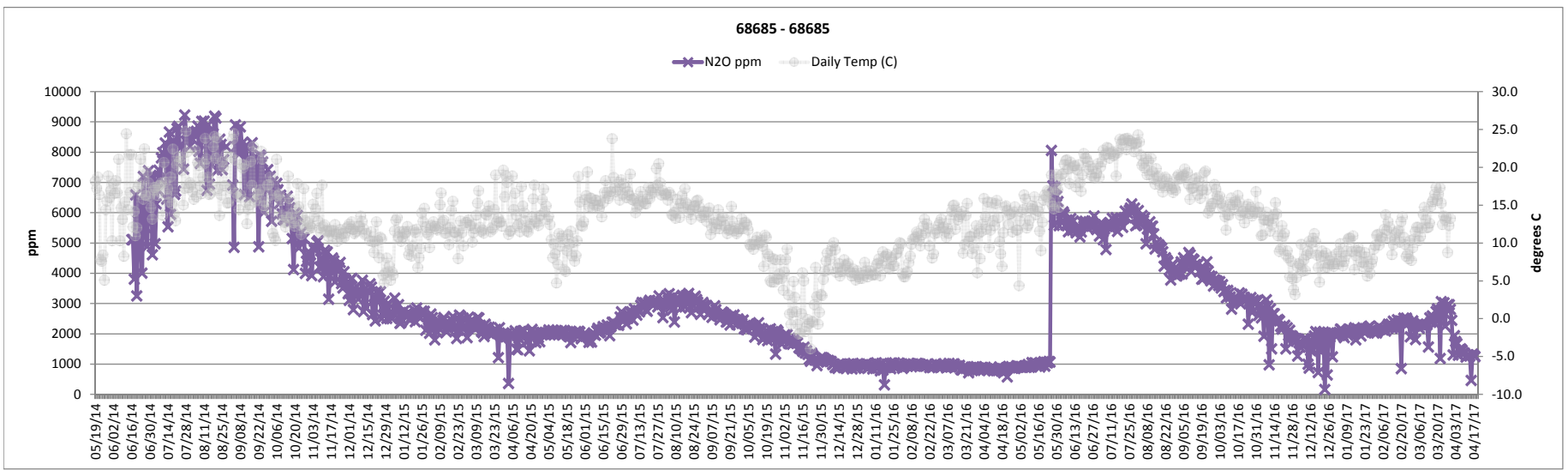
	SB50559 - 92472				87823				87825				87826				87827			
Date	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm	H_2 ppm	CO ppm	CO_2 ppm	N_2O ppm
03/15/17																				
03/16/17																				
03/17/17																				
03/18/17																				
03/19/17																				
03/20/17																				
03/21/17																				
03/22/17																				
03/23/17																				
03/24/17																				
03/25/17																				
03/26/17																				
03/27/17																				
03/28/17																				
03/29/17																				
03/30/17																				
03/31/17																				
04/01/17																				
04/02/17																				
04/03/17					145	120	3176	521	184	253	5005	865	193	461	6985	1022	33	70	2256	229
04/04/17																				
04/05/17																				
04/06/17																				
04/07/17																				
04/08/17																				
04/09/17																				
04/10/17																				
04/11/17	58	138	3349	241																
04/12/17																				
04/13/17																				
04/14/17																				
04/15/17																				
04/16/17																				
04/17/17																				
04/18/17																				

Remediated Nitrate Salt Container Headspace Gas and Temperature

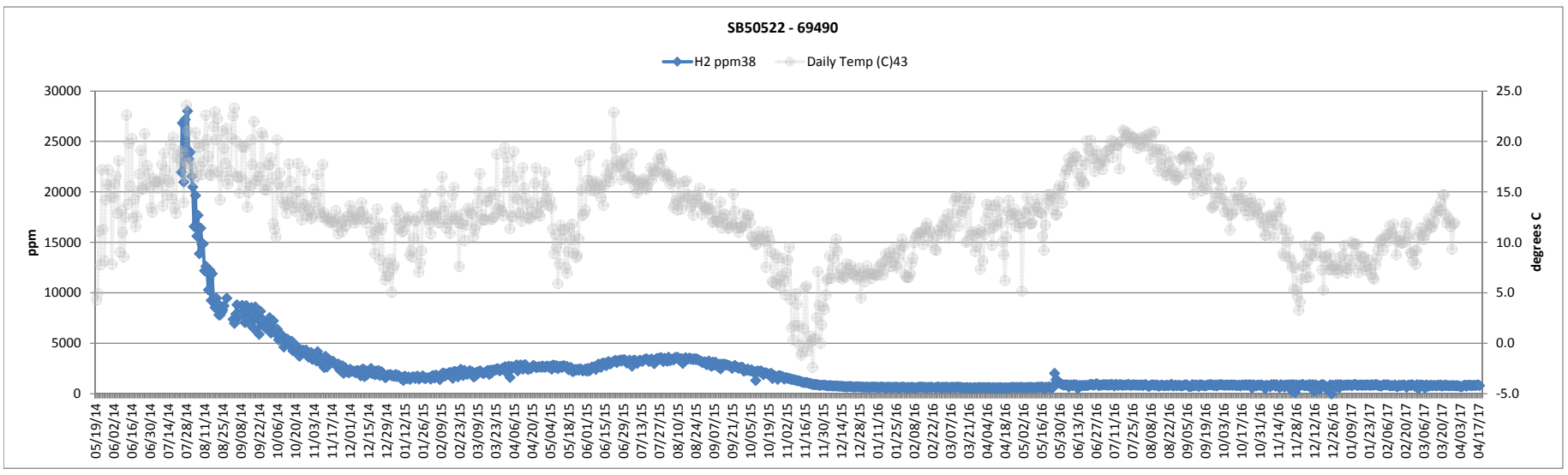


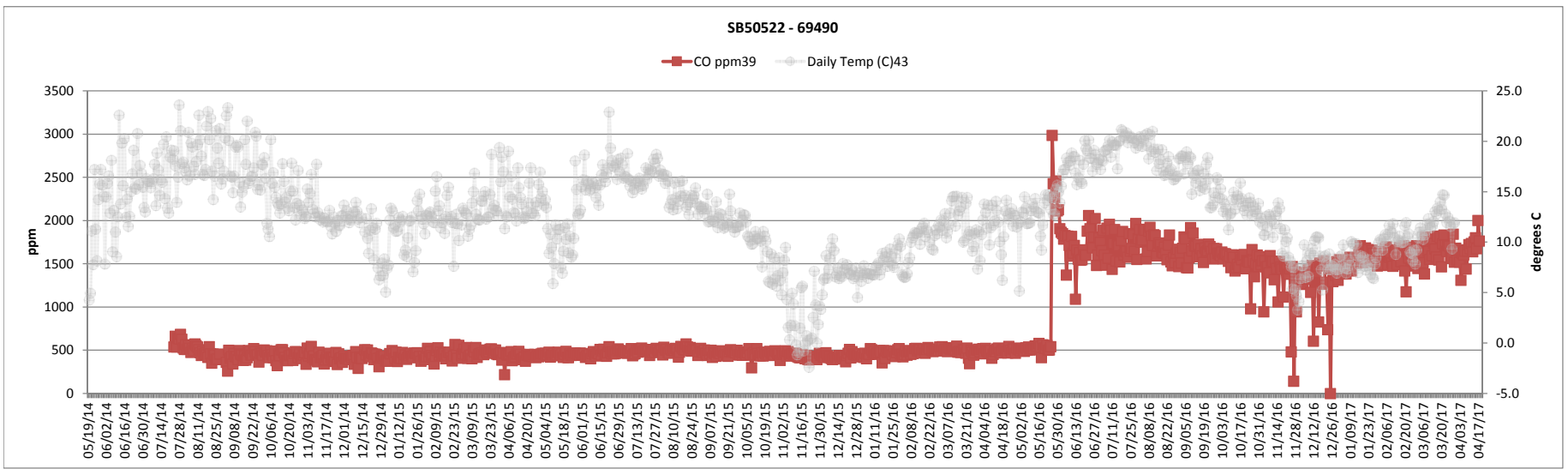


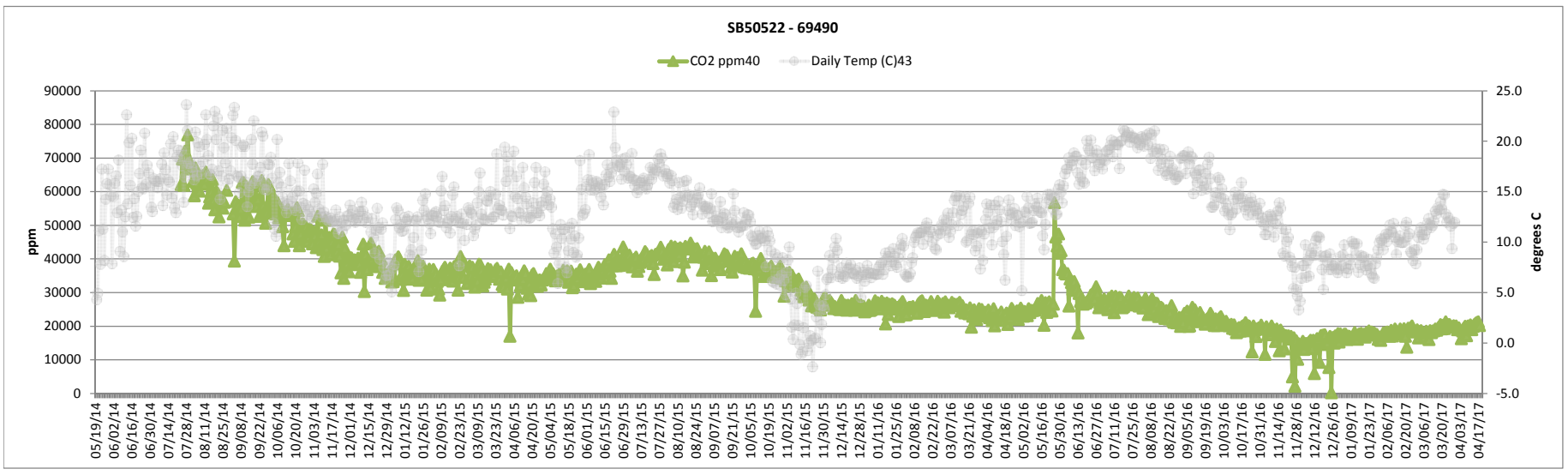


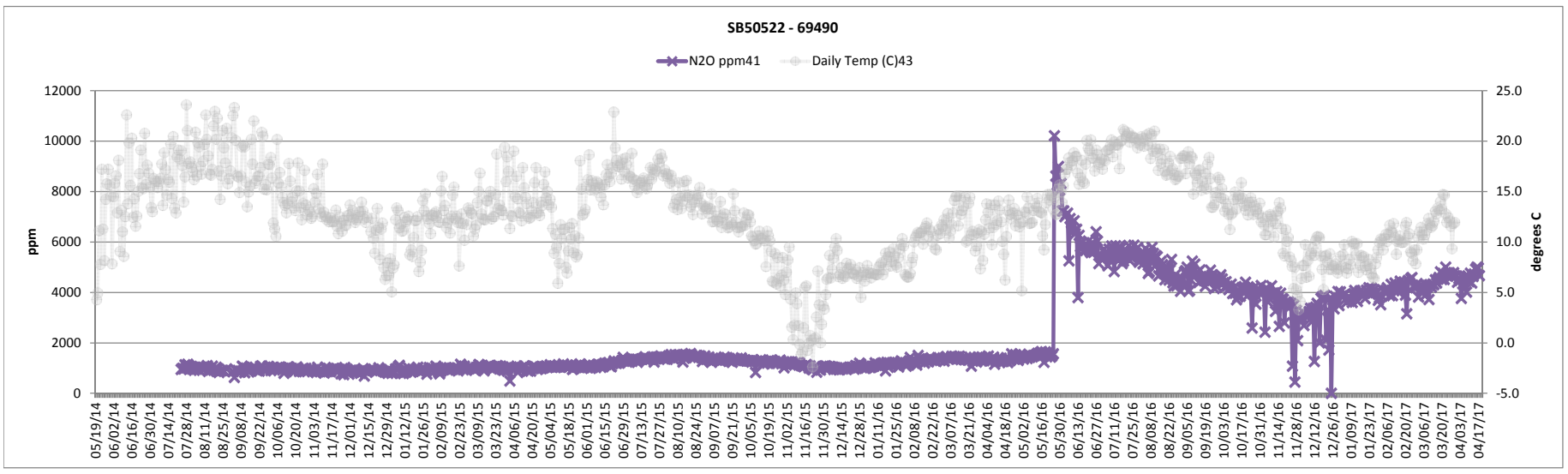


Remediated Nitrate Salt Container Headspace Gas and Temperature

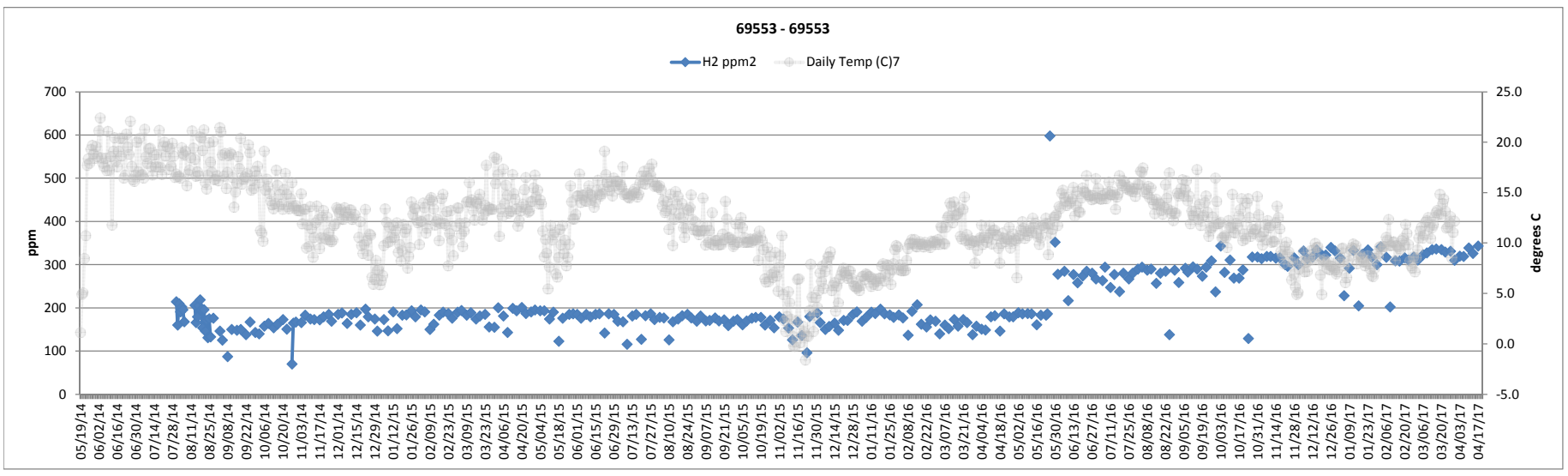


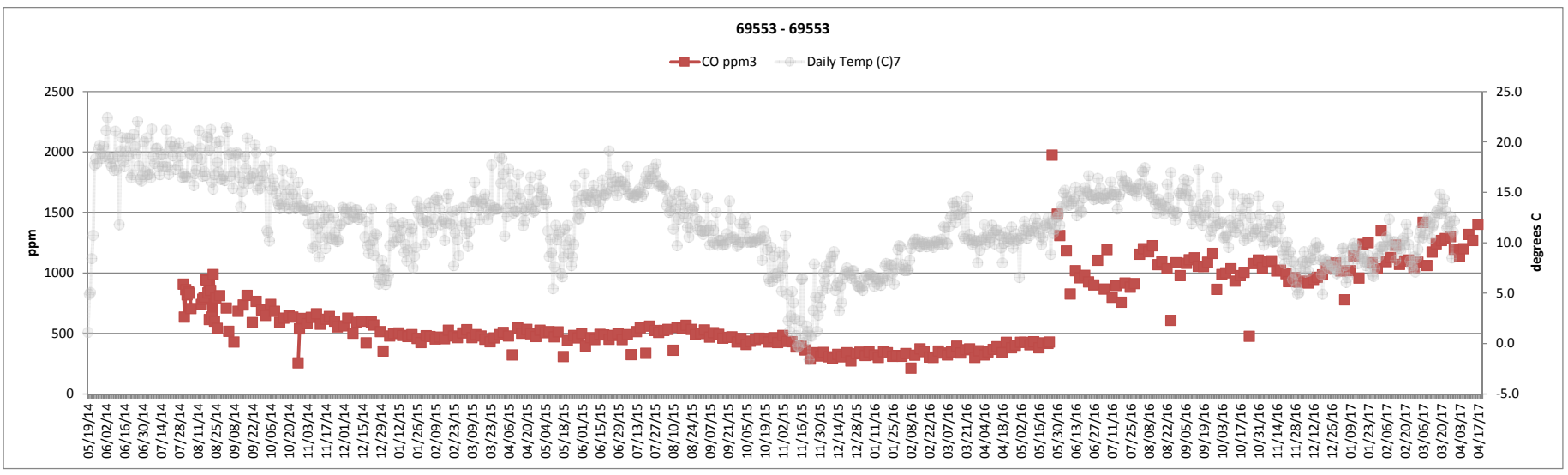


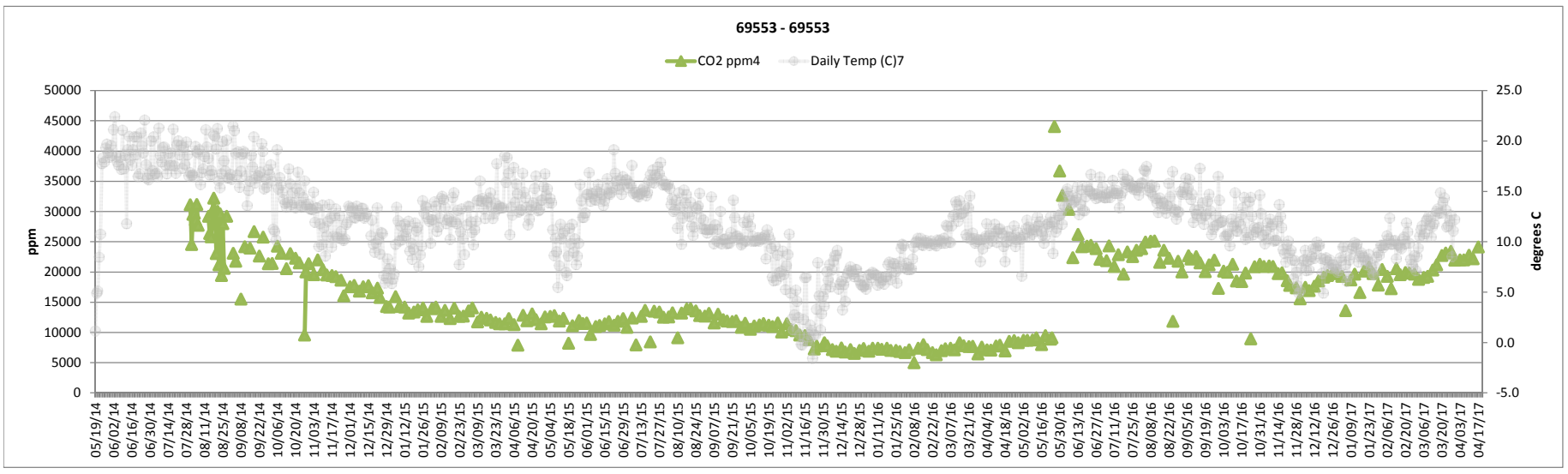


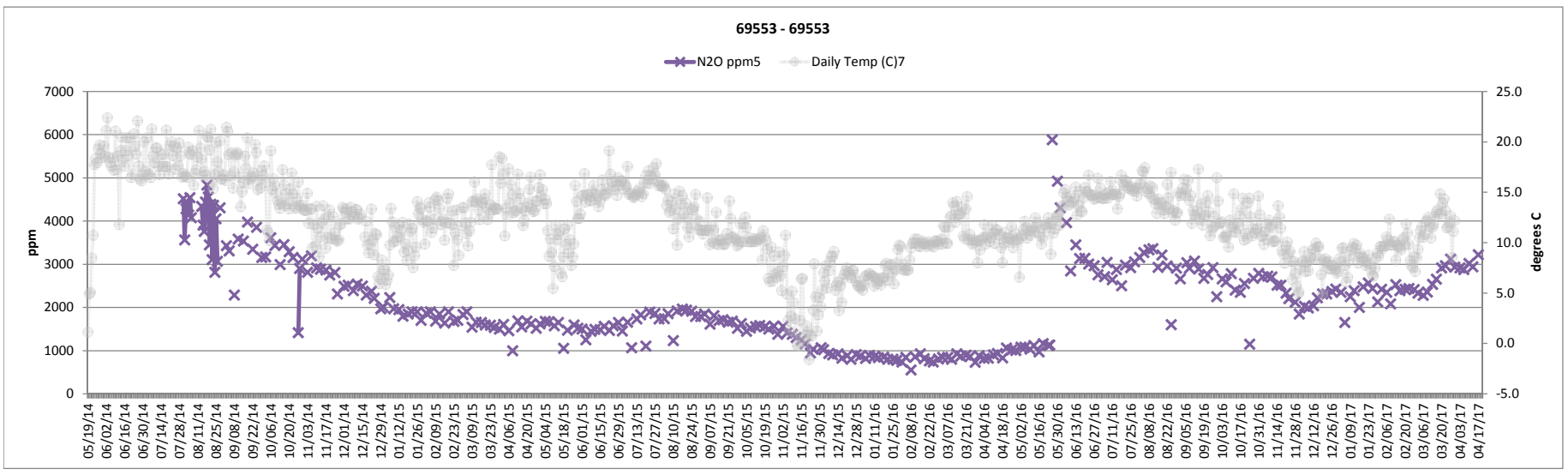


Remediated Nitrate Salt Container Headspace Gas and Temperature

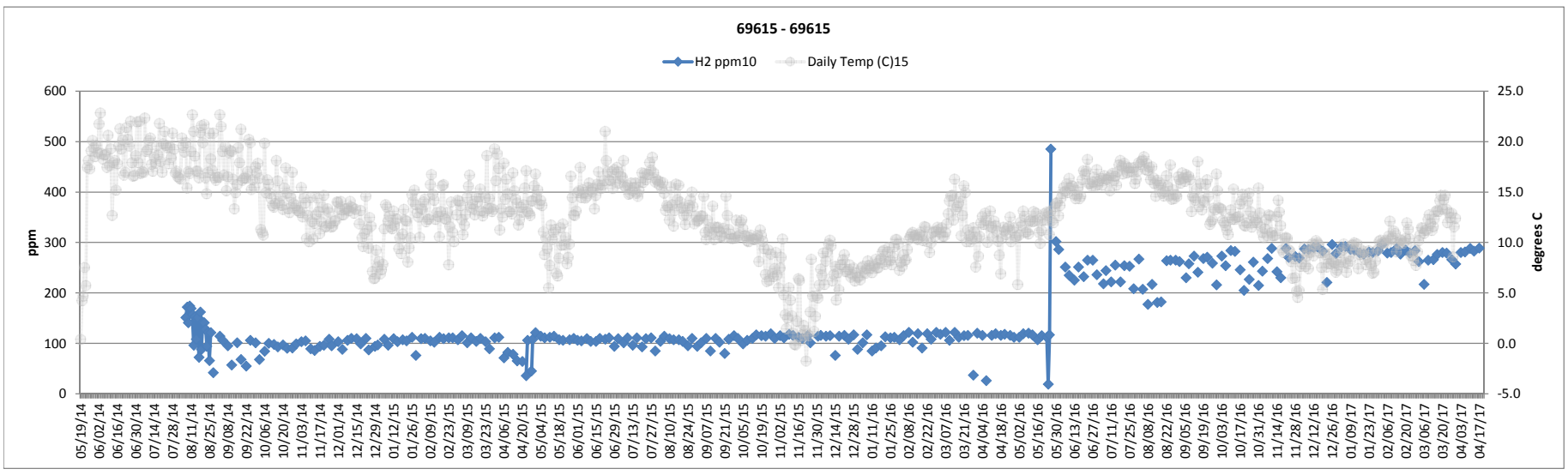


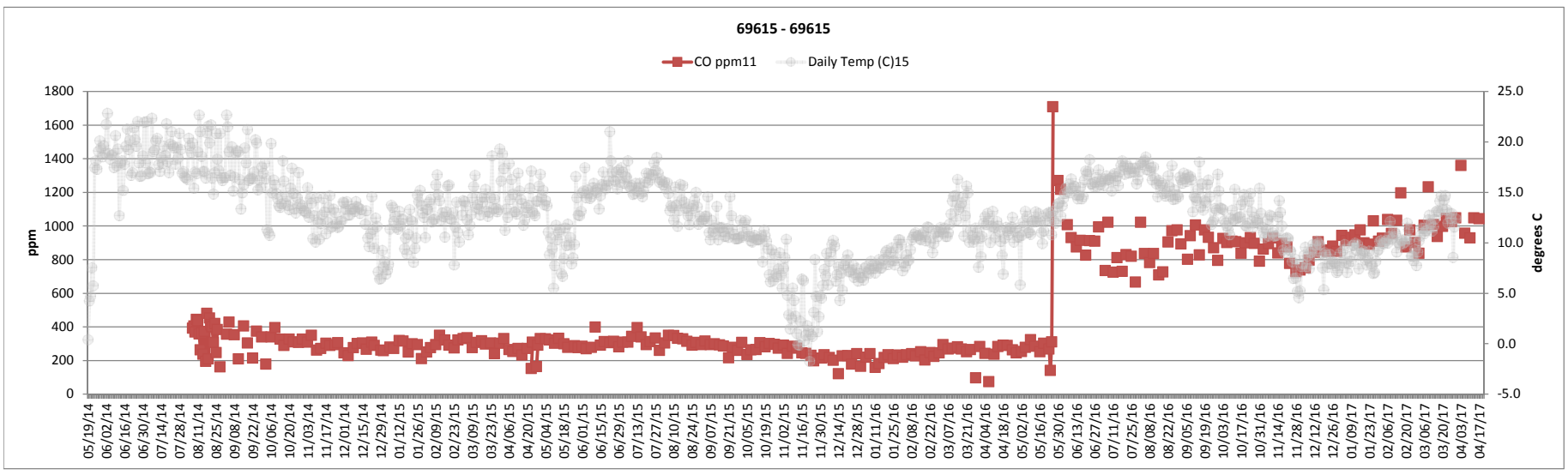


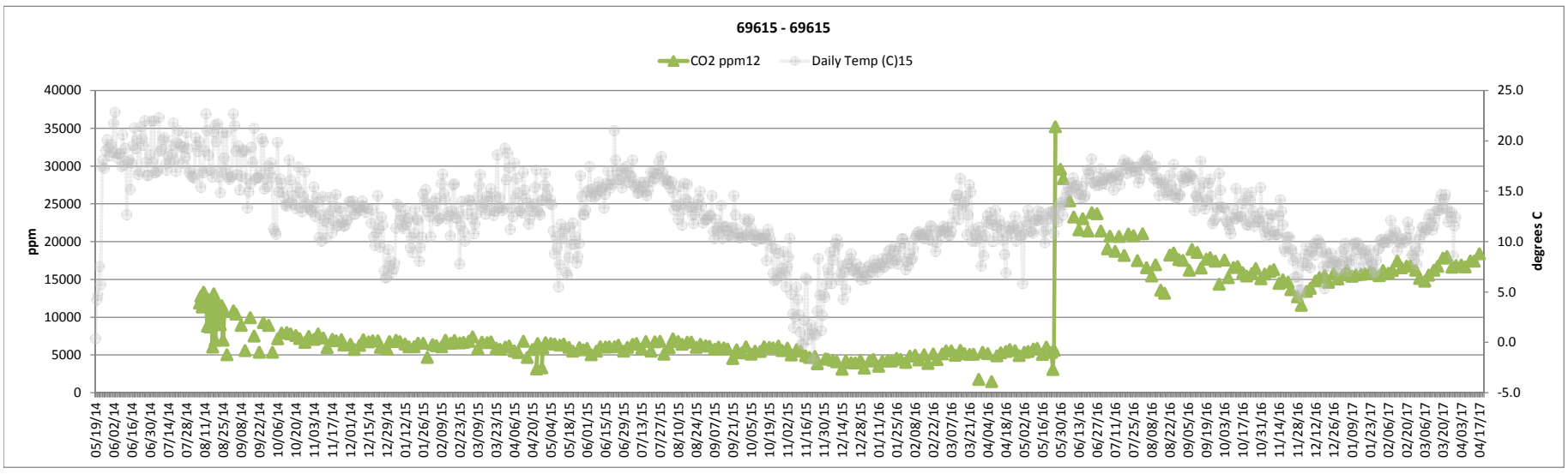


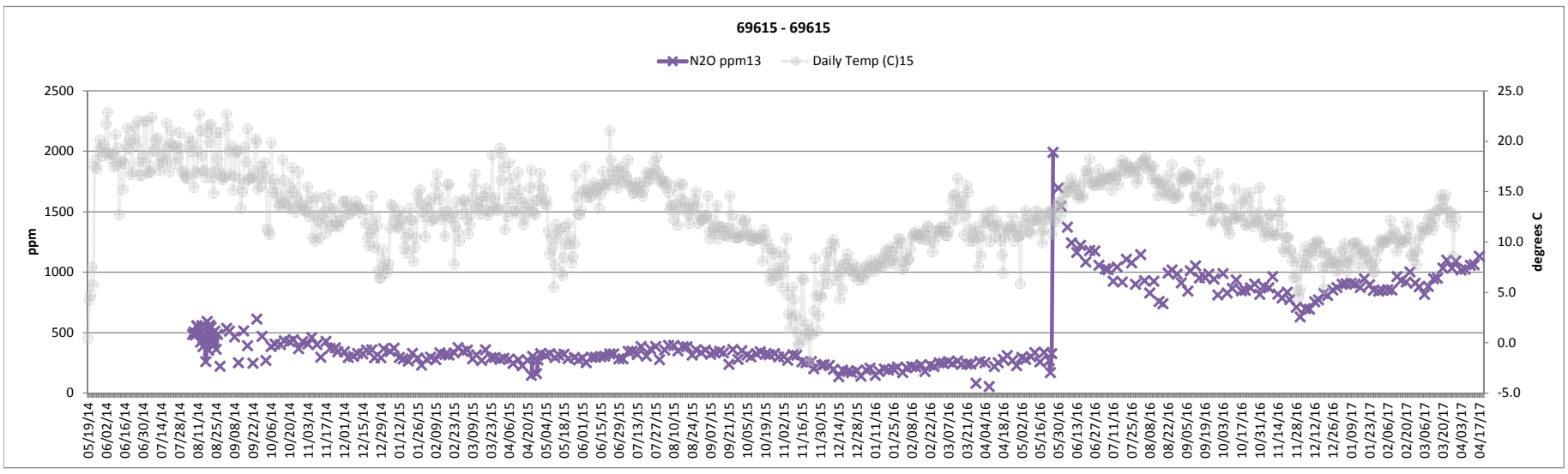


Remediated Nitrate Salt Container Headspace Gas and Temperature

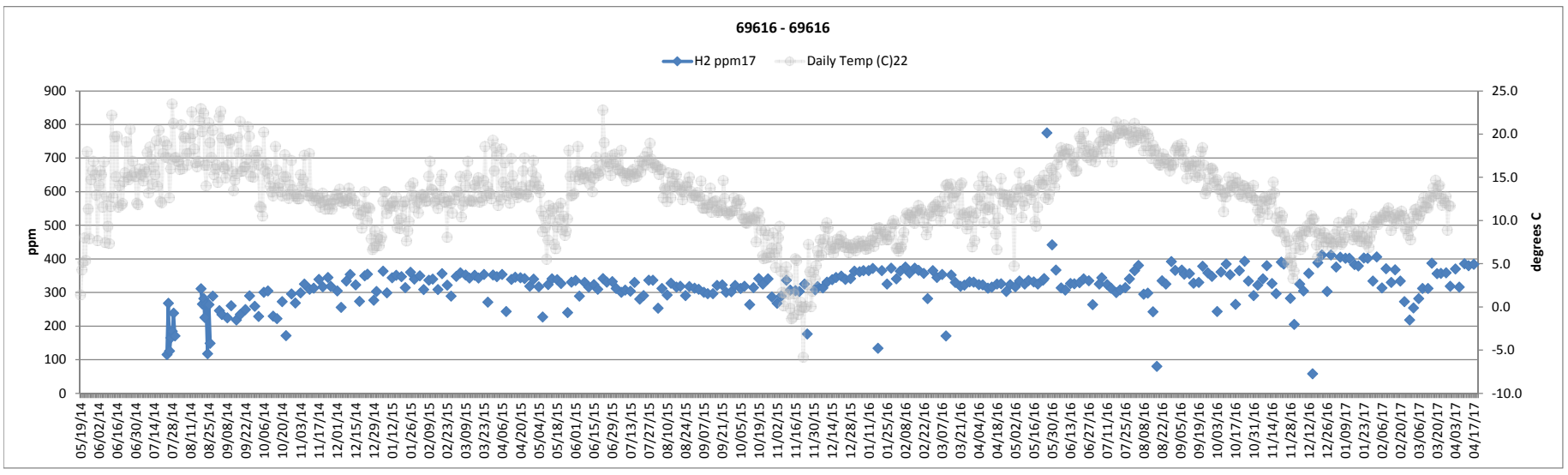


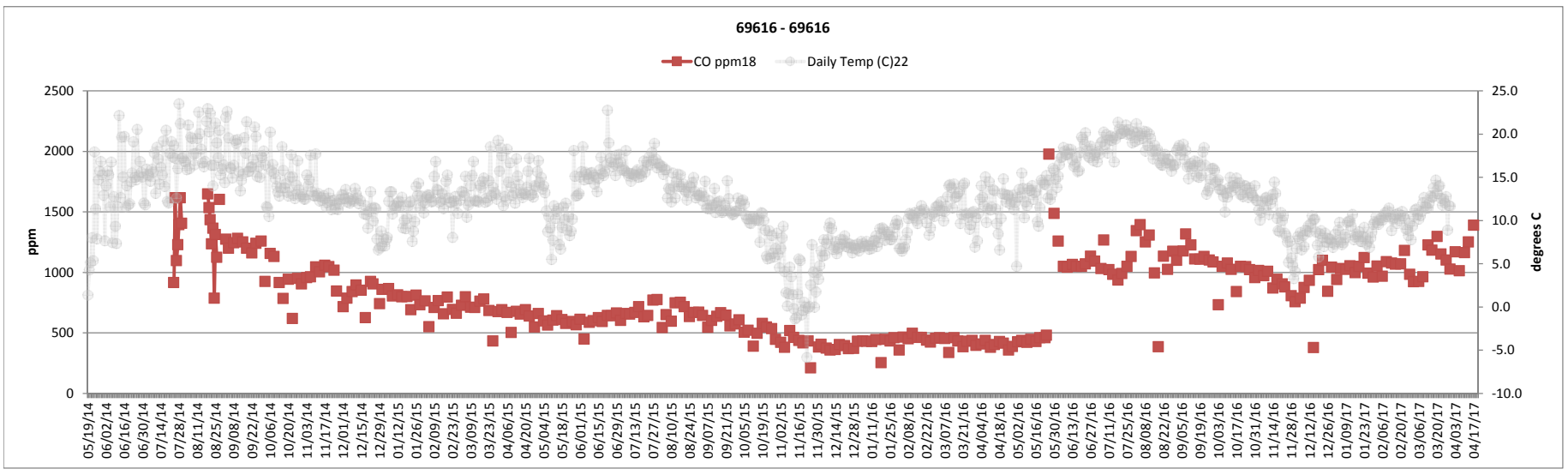


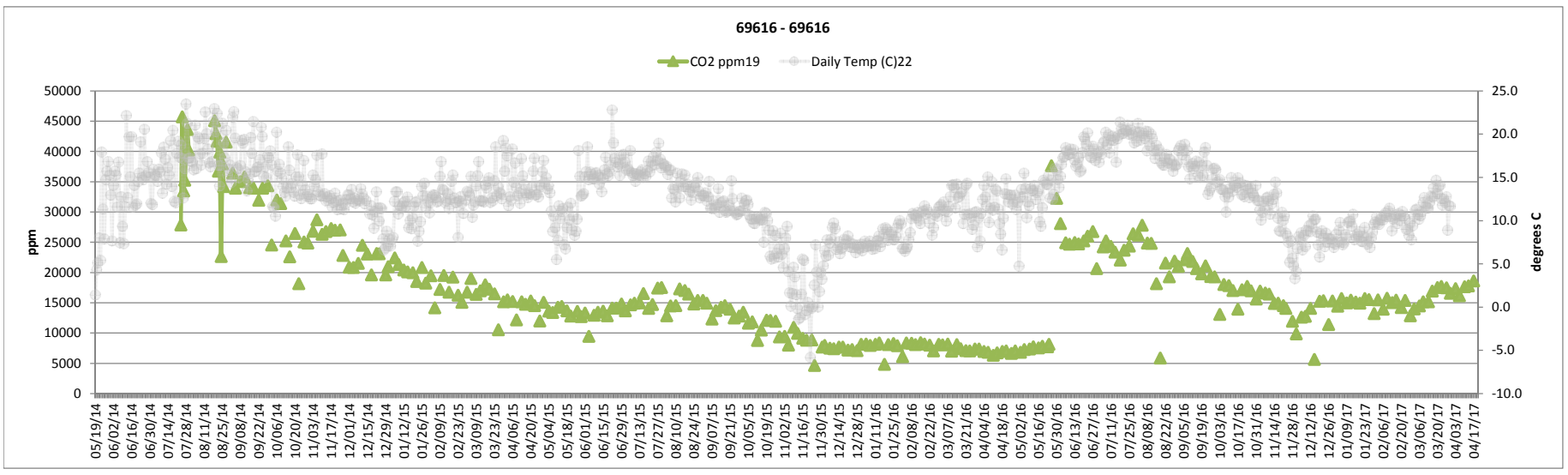


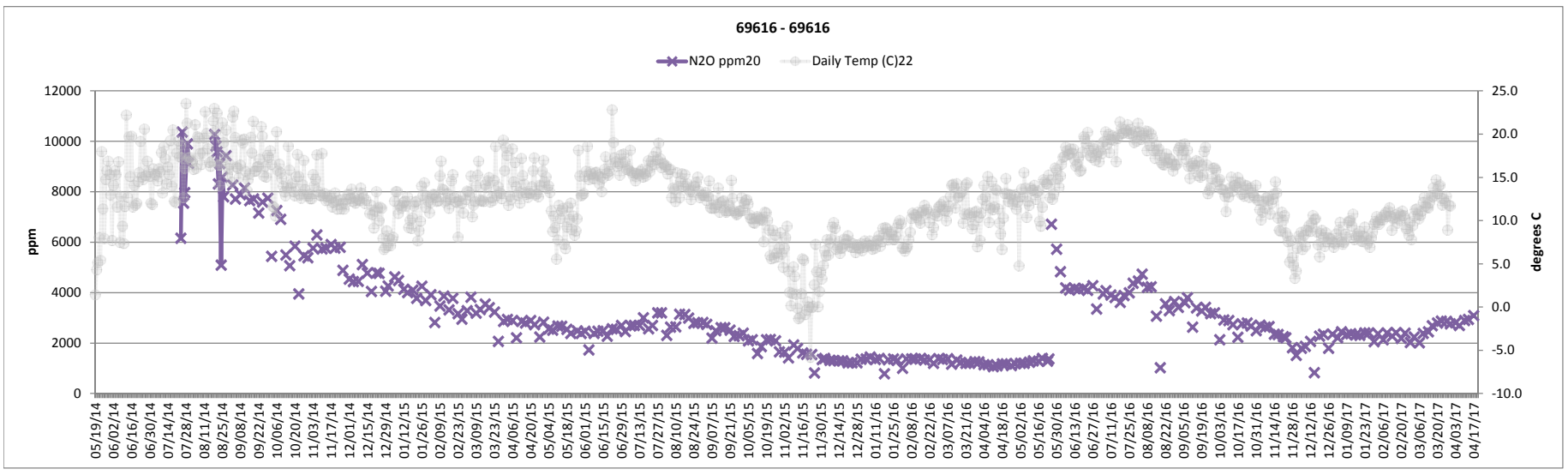


Remediated Nitrate Salt Container Headspace Gas and Temperature

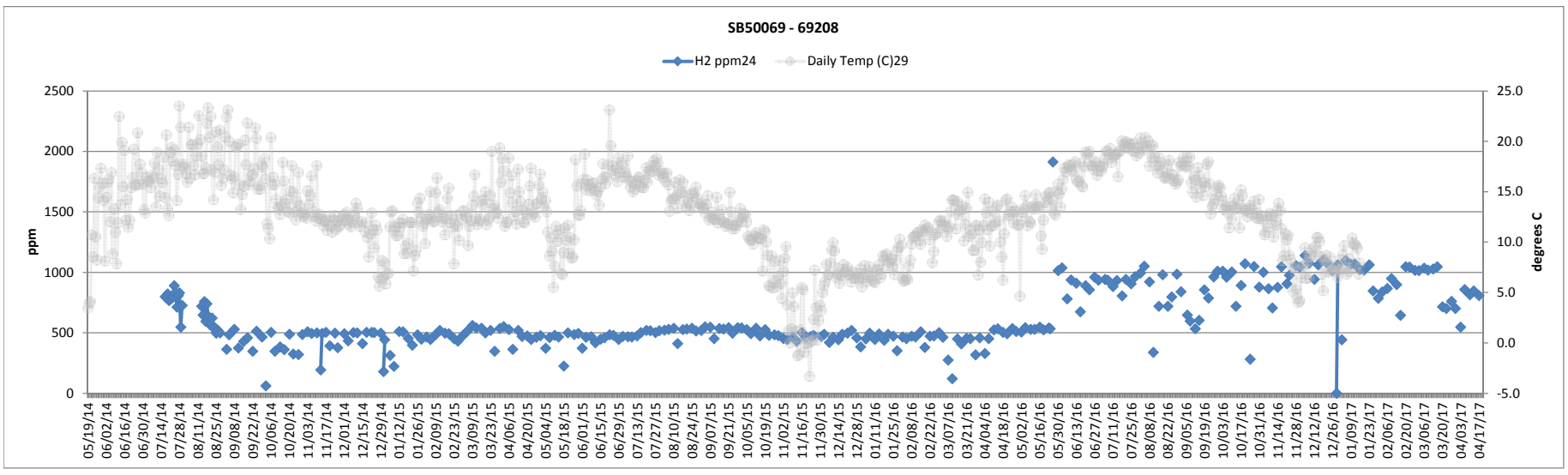


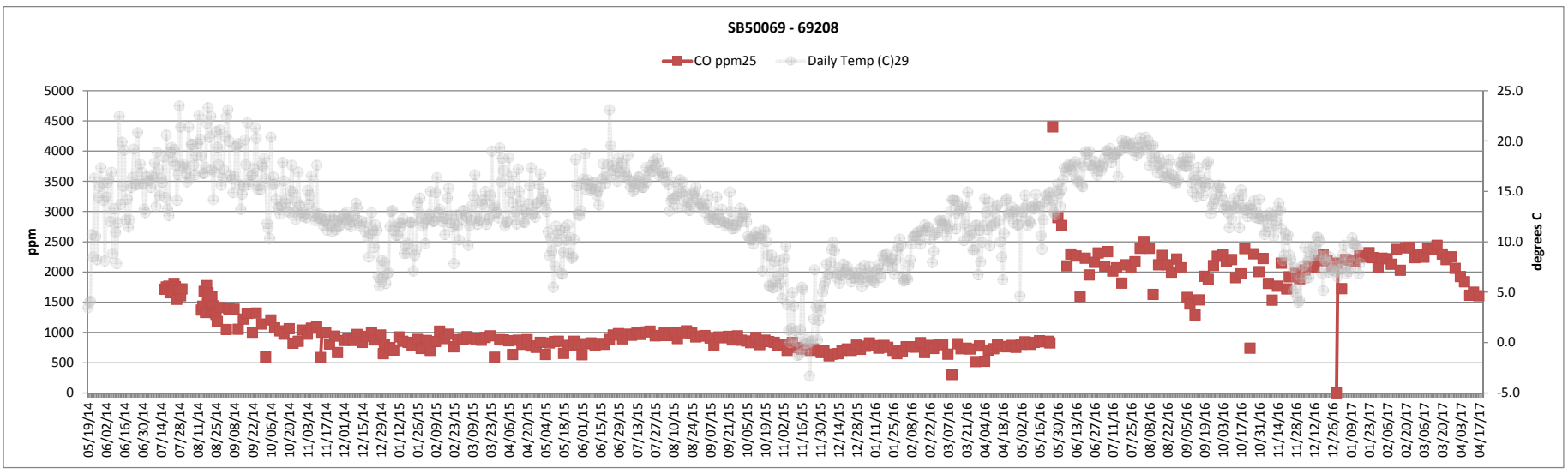


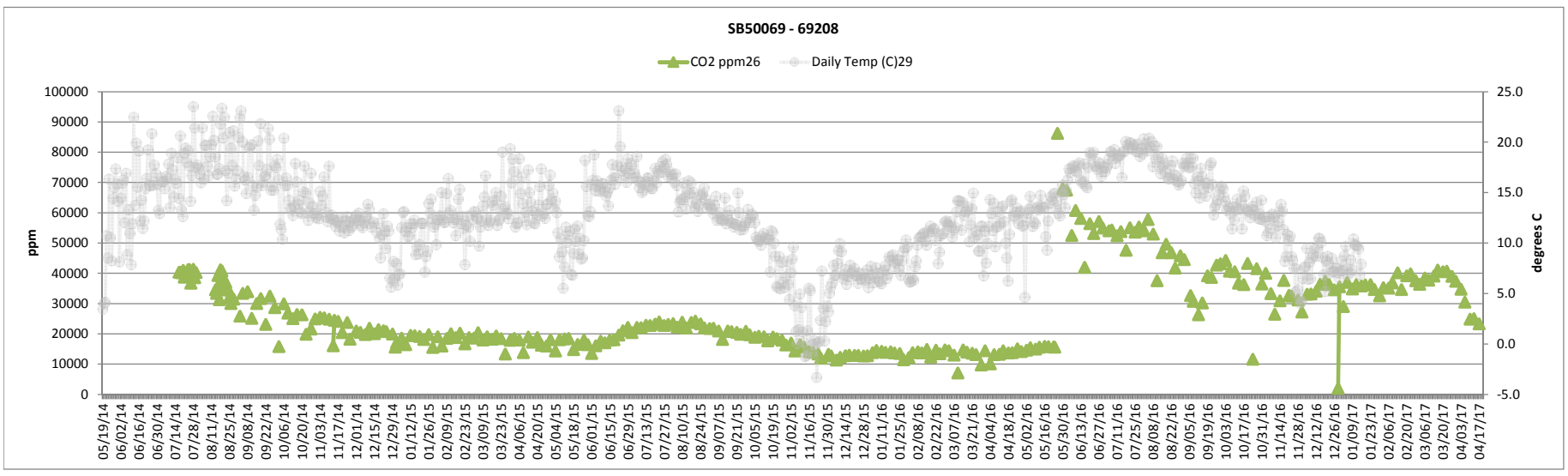


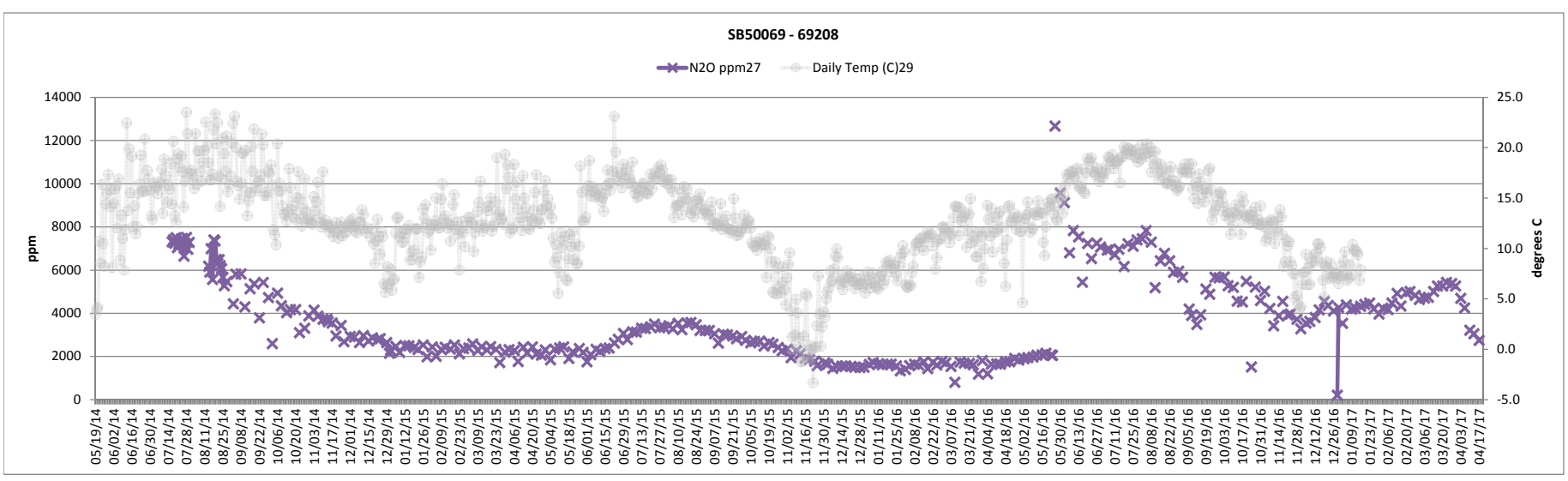


Remediated Nitrate Salt Container Headspace Gas and Temperature

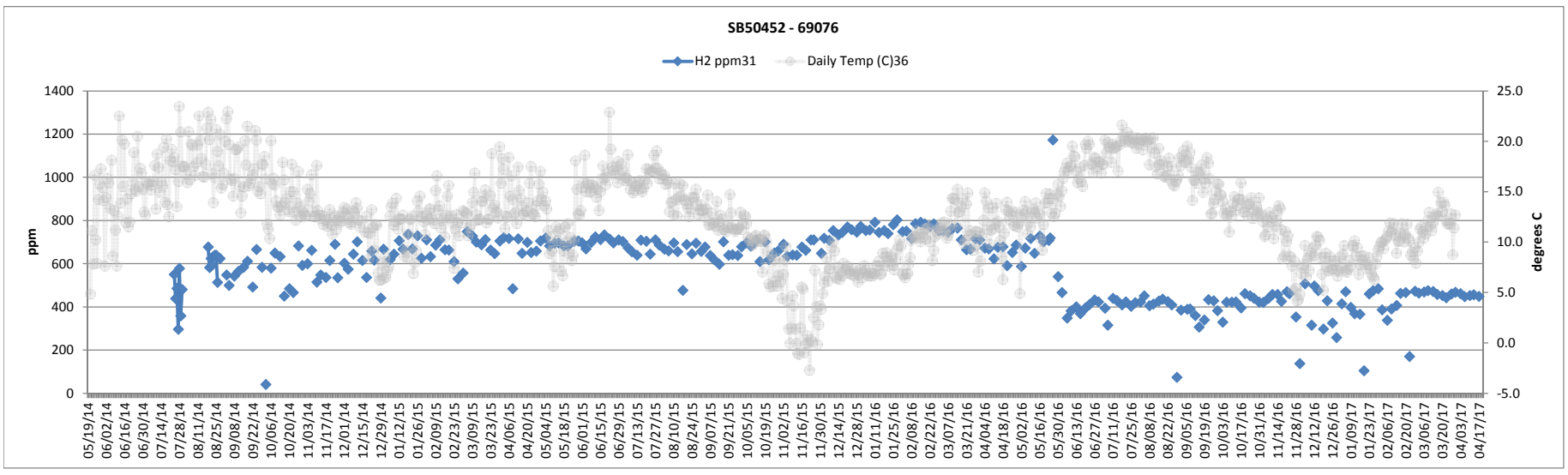


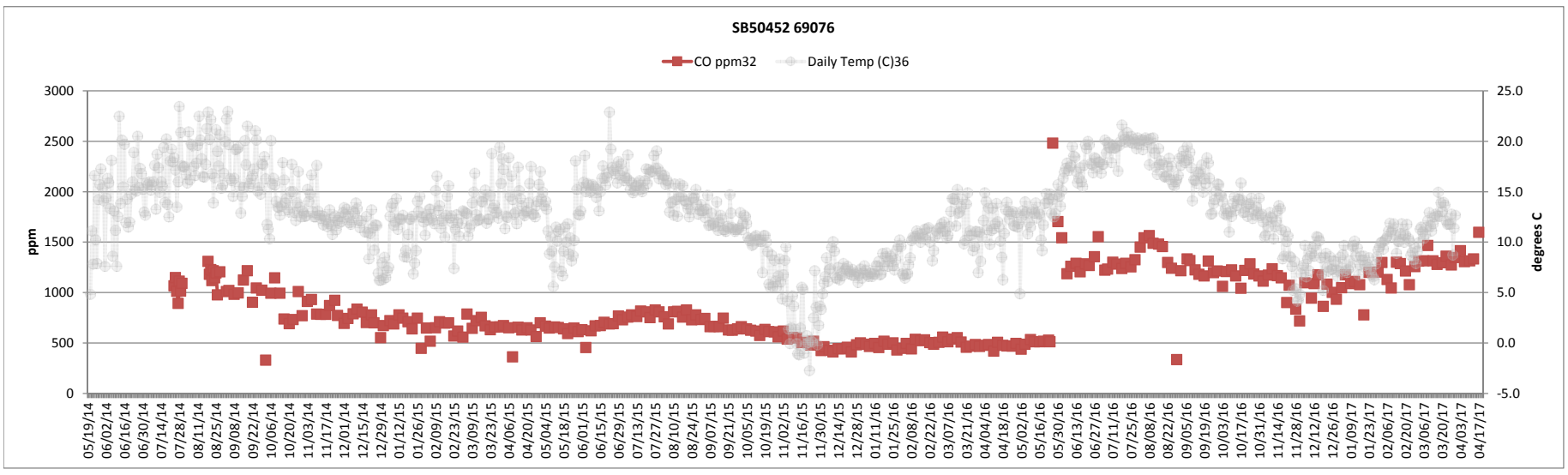


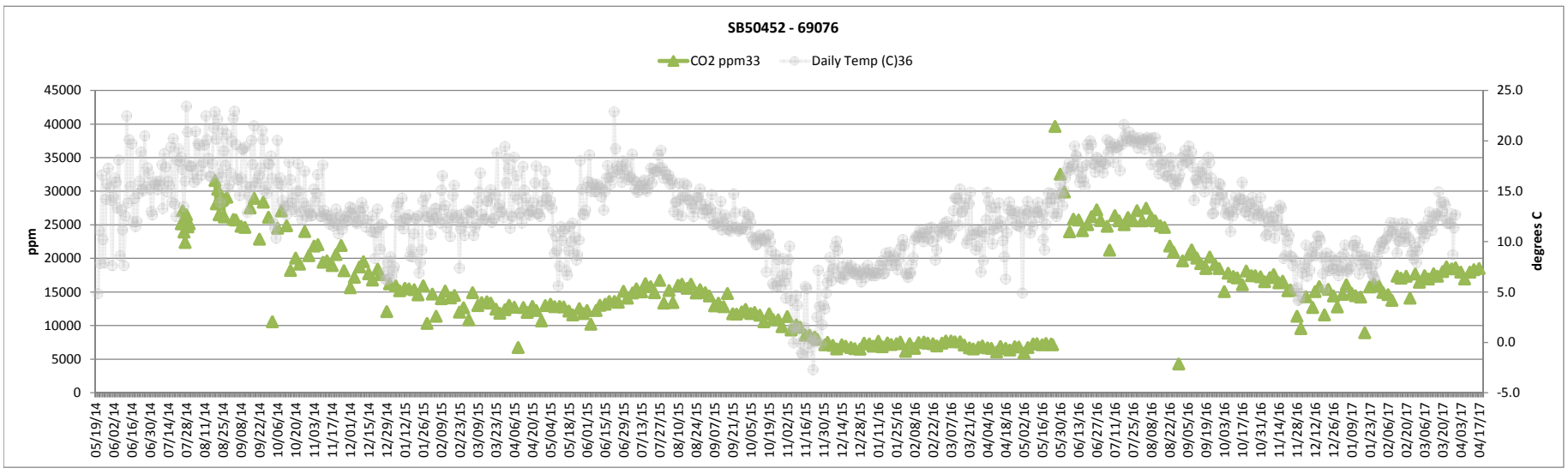


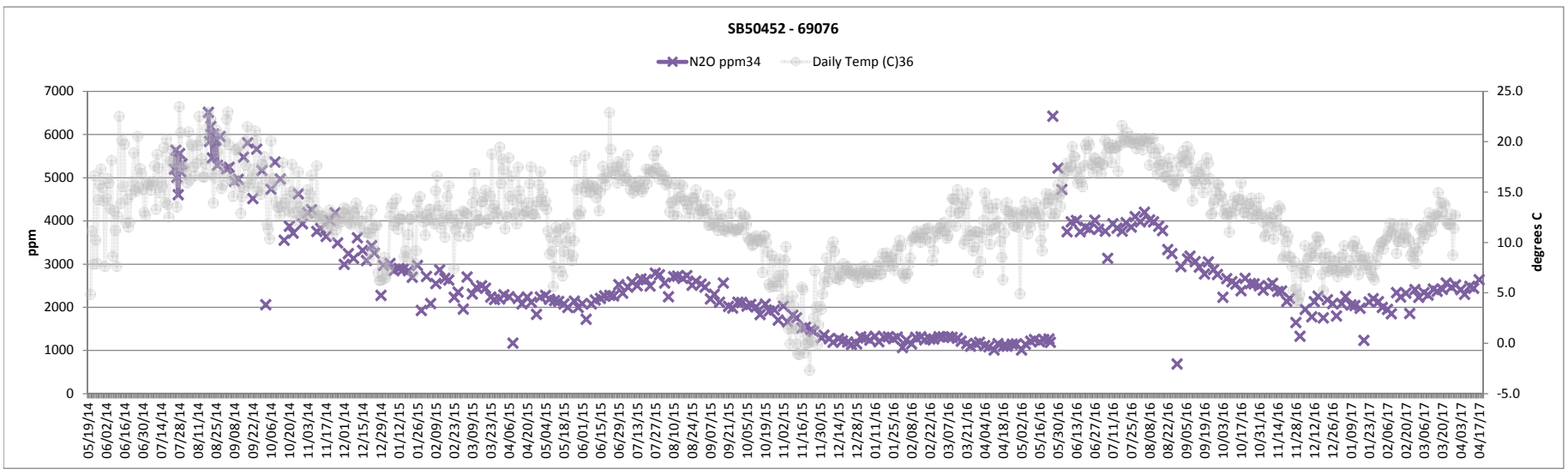


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 03-13-17/1346	Tuesday 6.[2] Date & Start Time: 03-14-17/1310	Wednesday 6.[2] Date & Start Time: 03-15-17/1313	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
TA-54-0375 Cell 1							
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: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[4])	Cell 1: 54.4 °F	Cell 1: 54.7 °F	Cell 1: 57.0 °F	Cell 1: ____ °F	Cell 1: ____ °F	Cell 1: ____ °F	Cell 1: ____ °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: 34.9 °F	Refrig.: 34.9 °F	Refrig.: 38.4 °F	Refrig.: ____ °F	Refrig.: ____ °F	Refrig.: ____ °F	Refrig.: ____ °F
($) 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
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ® N/A	53.7	① ② ③ ® N/A	54.7	① ② ③ ® N/A	58.7	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	53.2	① ② ③ ® N/A	55.2	① ② ③ ® N/A	55.8	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	54.0	① ② ③ ® N/A	55.6	① ② ③ ® N/A	56.1	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A
69445	① ② ③ ® N/A	53.2	① ② ③ ® N/A	54.6	① ② ③ ® N/A	56.3	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A

WORKING COPY
Z# 239958
INITIAL VDM DATE 03/13/17

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69618	✓ ② ③ R N/A	54.8	✓ ② ③ R N/A	55.2	✓ ② ③ R N/A	54.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69013	✓ ② ③ R N/A	53.0	✓ ② ③ R N/A	53.9	✓ ② ③ R N/A	56.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69076	✓ ② ③ R N/A	53.3	✓ ② ③ R N/A	54.5	✓ ② ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69490	✓ ② ③ R N/A	52.9	✓ ② ③ R N/A	53.7	✓ ② ③ R N/A	55.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69280	✓ ② ③ R N/A	53.7	✓ ② ③ R N/A	55.4	✓ ② ③ R N/A	54.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69208	✓ ② ③ R N/A	53.1	✓ ② ③ R N/A	53.7	✓ ② ③ R N/A	55.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69079	✓ ② ③ R N/A	52.9	✓ ② ③ R N/A	54.6	✓ ② ③ R N/A	55.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69636	✓ ② ③ R N/A	52.7	✓ ② ③ R N/A	53.8	✓ ② ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69616	✓ ② ③ R N/A	52.6	✓ ② ③ R N/A	53.7	✓ ② ③ R N/A	55.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	✓ ② ③ R N/A	52.6	✓ ② ③ R N/A	54.0	✓ ② ③ R N/A	56.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69520	✓ ② ③ R N/A	53.2	✓ ② ③ R N/A	53.9	✓ ② ③ R N/A	54.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69641	✓ ② ③ R N/A	52.9	✓ ② ③ R N/A	54.0	✓ ② ③ R N/A	55.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69298	✓ ② ③ R N/A	53.1	✓ ② ③ R N/A	54.0	✓ ② ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
92669	✓ ② ③ R N/A	53.1	✓ ② ③ R N/A	54.2	✓ ② ③ R N/A	54.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
End Time (6.[16])	1352		1316		1319									
Initial (6.[16])	WO: VM WO: FA		WO: FA WO: JA		WO: FA WO: JA		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 2
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Fabian Anaya	Fabian Anaya	174963	03-13-17
Valerie Martinez	Valerie Martinez	239958	03-13-17
Fabian Anaya	Fabian Anaya	174963	03-14-17
Tina Aguirre	Tina Aguirre	174977	03-14-17
Fabian Anaya	Fabian Anaya	174963	03-15-17
Tina Aguirre	Tina Aguirre	174977	03-15-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 03-13-17/1340	Tuesday 6.[2] Date & Start Time: 03-14-17/1316	Wednesday 6.[2] Date & Start Time: 03-15-17/1320	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
TA-54-0375 Cell 2							
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: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:	Brand: Model: Cal. Due Date: File Number:
Ambient Temperature (6.[4])	Cell 2: 52.5 °F	Cell 2: 53.7 °F	Cell 2: 57.6 °F	Cell 2: °F	Cell 2: °F	Cell 2: °F	Cell 2: °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ② ③ ® N/A	54.4	① ② ③ ® N/A	53.7	① ② ③ ® N/A	55.0	① ② ③ ® N/A
68638	① ② ③ ® N/A	52.7	① ② ③ ® N/A	53.5	① ② ③ ® N/A	55.1	① ② ③ ® N/A
69615	① ② ③ ® N/A	52.8	① ② ③ ® N/A	54.2	① ② ③ ® N/A	55.5	① ② ③ ® N/A
69635	① ② ③ ® N/A	52.9	① ② ③ ® N/A	53.7	① ② ③ ® N/A	55.5	① ② ③ ® N/A
69642	① ② ③ ® N/A	52.9	① ② ③ ® N/A	54.1	① ② ③ ® N/A	55.8	① ② ③ ® N/A
69630	① ② ③ ® N/A	53.2	① ② ③ ® N/A	54.0	① ② ③ ® N/A	55.0	① ② ③ ® N/A
69633	① ② ③ ® N/A	52.6	① ② ③ ® N/A	54.0	① ② ③ ® N/A	55.0	① ② ③ ® N/A
68430	① ② ③ ® N/A	52.6	① ② ③ ® N/A	53.6	① ② ③ ® N/A	55.0	① ② ③ ® N/A
68631	① ② ③ ® N/A	52.7	① ② ③ ® N/A	53.8	① ② ③ ® N/A	55.7	① ② ③ ® N/A
68567	① ② ③ ® N/A	52.4	① ② ③ ® N/A	53.3	① ② ③ ® N/A	54.6	① ② ③ ® N/A
69634	① ② ③ ® N/A	52.2	① ② ③ ® N/A	53.7	① ② ③ ® N/A	55.9	① ② ③ ® N/A

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
94227	① ✓ ③ R N/A	52.4	① ✓ ③ R N/A	53.4	① ✓ ③ R N/A	54.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68648	① ✓ ③ R N/A	52.3	① ✓ ③ R N/A	53.7	① ✓ ③ R N/A	55.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69644	① ✓ ③ R N/A	52.9	① ✓ ③ R N/A	53.4	① ✓ ③ R N/A	54.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69183	① ✓ ③ R N/A	52.0	① ✓ ③ R N/A	54.1	① ✓ ③ R N/A	54.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69638	① ✓ ③ R N/A	53.5	① ✓ ③ R N/A	53.5	① ✓ ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68624	① ✓ ③ R N/A	52.8	① ✓ ③ R N/A	54.2	① ✓ ③ R N/A	55.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68507	① ✓ ③ R N/A	52.8	① ✓ ③ R N/A	53.4	① ✓ ③ R N/A	54.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69568	① ✓ ③ R N/A	52.3	① ✓ ③ R N/A	53.7	① ✓ ③ R N/A	54.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69553	① ✓ ③ R N/A	52.7	① ✓ ③ R N/A	53.2	① ✓ ③ R N/A	54.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69598	① ✓ ③ R N/A	52.3	① ✓ ③ R N/A	53.9	① ✓ ③ R N/A	54.9	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
92472	① ✓ ③ R N/A	52.7	① ✓ ③ R N/A	53.1	① ✓ ③ R N/A	54.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
92459	① ✓ ③ R N/A	53.2	① ✓ ③ R N/A	53.8	① ✓ ③ R N/A	54.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69015	① ✓ ③ R N/A	52.6	① ✓ ③ R N/A	53.5	① ✓ ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69639	① ✓ ③ R N/A	52.7	① ✓ ③ R N/A	53.9	① ✓ ③ R N/A	55.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69637	① ✓ ③ R N/A	53.6	① ✓ ③ R N/A	53.6	① ✓ ③ R N/A	55.4	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
End Time (6.[16])	1345		1321		1325									
Initial (6.[16])	WO: VM WO: FA		WO: FA WO: FA		WO: FA WO: FA		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 3
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Fabian Anaya	Fabian Anaya	174963	03-13-17
Valerie Martinez	Valerie Martinez	239958	03-13-17
Fabian Anaya	Fabian Anaya	174963	03-14-17
Tina Aguirre	Tina Aguirre	174977	03-14-17
Fabian Anaya	Fabian Anaya	174963	03-15-17
Tina Aguirre	Tina Aguirre	174977	03-15-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time:	Friday 6.[2] Date & Start Time:	Saturday 6.[2] Date & Start Time:	Sunday 6.[2] Date & Start Time:
	03-13-17/1335	03-14-17/1321	03-15-17/1325				
TA-54-0375 Cell 3							
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 Model Cal. Due Date File Number	Brand Model Cal. Due Date File Number	Brand Model Cal. Due Date File Number	Brand Model Cal. Due Date File Number
Ambient Temperature (6.[4])	Cell 3: 51.7 °F	Cell 3: 52.7 °F	Cell 3: 54.0 °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT

Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)															
69519	① ② ③ ® N/A	51.0	① ② ③ ® N/A	52.5	① ② ③ ® N/A	53.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69645	① ② ③ ® N/A	50.7	① ② ③ ® N/A	51.1	① ② ③ ® N/A	51.9	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
94068	① ② ③ ® N/A	51.0	① ② ③ ® N/A	51.3	① ② ③ ® N/A	53.3	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
93605	① ② ③ ® N/A	51.6	① ② ③ ® N/A	52.4	① ② ③ ® N/A	53.1	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	
69548	① ② ③ ® N/A	51.6	① ② ③ ® N/A	52.6	① ② ③ ® N/A	53.8	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
69604	① ② ③ R N/A	51.0	① ② ③ R N/A	52.2	① ② ③ R N/A	53.1	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
68665	① ② ③ R N/A	51.9	① ② ③ R N/A	52.2	① ② ③ R N/A	53.6	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69595	① ② ③ R N/A	51.0	① ② ③ R N/A	52.9	① ② ③ R N/A	53.3	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69036	① ② ③ R N/A	52.5	① ② ③ R N/A	52.4	① ② ③ R N/A	54.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69361	① ② ③ R N/A	51.9	① ② ③ R N/A	52.8	① ② ③ R N/A	53.8	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69559	① ② ③ R N/A	52.1	① ② ③ R N/A	52.6	① ② ③ R N/A	54.2	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
69491	① ② ③ R N/A	51.4	① ② ③ R N/A	52.8	① ② ③ R N/A	53.7	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87827	① ② ③ R N/A	53.0	① ② ③ R N/A	53.7	① ② ③ R N/A	56.0	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87826	① ② ③ R N/A	52.9	① ② ③ R N/A	53.4	① ② ③ R N/A	55.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87823	① ② ③ R N/A	54.0	① ② ③ R N/A	54.8	① ② ③ R N/A	56.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
87825	① ② ③ R N/A	54.5	① ② ③ R N/A	56.2	① ② ③ R N/A	58.5	① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A		① ② ③ R N/A	
End Time (6.[16])	1339		1325		1324									
Initial (6.[16])	WO: VDM WO: FA		WO: FA WO: [illegible]		WO: FA WO: [illegible]		WO: WO:		WO: WO:		WO: WO:		WO: WO:	

ATTACHMENT 4
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Fabian Anaya	Fabian Anaya	174963	03-13-17
Valerie Martinez	Valerie Martinez	239958	03-13-17
Fabian Anaya	Fabian Anaya	174963	03-14-17
Tina Aguirre	Tina Aguirre	174977	03-14-17
Fabian Anaya	Fabian Anaya	174963	03-15-17
Tina Aguirre	Tina Aguirre	174977	03-15-17

Waste Operator (print)	Signature	Z#	Date

9.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time: 03-16-17 / 1315	Friday 6.[2]Date & Start Time: 03-17-17 / 1300	Saturday 6.[2] Date & Start Time: 03-18-17 / 1300	Sunday 6.[2] Date & Start Time: 03-19-17 / 1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	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: 06-20-17 / File Number 101975	Brand: Fluke / Model: 561 / Cal. Due Date: 06-20-2017 / File Number 101975	Brand: FLUKE / Model: 561 / Cal. Due Date: 12-19-17 / File Number 103868
Ambient Temperature (6.[4])	Cell 1: ____ °F	Cell 1: ____ °F	Cell 1: ____ °F	Cell 1: 56.8 °F	Cell 1: 59.0 °F	Cell 1: 58.2 °F	Cell 1: 59.6 °F
($) Temperature ≤ 75°F SR 4 ESS 5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: ____ °F	Refrig.: ____ °F	Refrig.: ____ °F	Refrig.: 37.9 °F	Refrig.: ~~60.5~~ °F	Refrig.: 36.9 °F	Refrig.: 37.1 °F
($) 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	MZ 03-17-17 36.0 ☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 59.8	① ② ③ ® N/A 60.3	① ② ③ ® N/A 61.6	① ② ③ ® N/A 63.2
68540	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 56.2	① ② ③ ® N/A 57.2	① ② ③ ® N/A 56.7	① ② ③ ® N/A 58.6
68553	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.8	① ② ③ ® N/A 56.7	① ② ③ ® N/A 56.7	① ② ③ ® N/A 59.4
69445	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 56.1	① ② ③ ® N/A 56.7	① ② ③ ® N/A 57.3	① ② ③ ® N/A 58.0

WORKING COPY
Z# 174563
INITIAL FA DATE 03-16-17

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
69618	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.4	✓ ② ③ ④ N/A	56.9	✓ ② ③ ④ N/A	56.5	✓ ② ③ ④ N/A	58.3
69013	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	56.7	✓ ② ③ ④ N/A	55.9	✓ ② ③ ④ N/A	55.7	✓ ② ③ ④ N/A	58.0
69490	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.0	✓ ② ③ ④ N/A	56.1	✓ ② ③ ④ N/A	55.7	✓ ② ③ ④ N/A	57.2
69076	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	54.7	✓ ② ③ ④ N/A	58.9	✓ ② ③ ④ N/A	54.6	✓ ② ③ ④ N/A	57.0
69280	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	54.5	✓ ② ③ ④ N/A	55.4	✓ ② ③ ④ N/A	56.5	✓ ② ③ ④ N/A	57.1
69208	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.7	✓ ② ③ ④ N/A	55.1	✓ ② ③ ④ N/A	55.6	✓ ② ③ ④ N/A	57.3
69079	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	56.1	✓ ② ③ ④ N/A	55.4	✓ ② ③ ④ N/A	54.7	✓ ② ③ ④ N/A	57.9
69636	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.0	✓ ② ③ ④ N/A	55.6	✓ ② ③ ④ N/A	56.3	✓ ② ③ ④ N/A	57.3
69616	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	54.9	✓ ② ③ ④ N/A	56.8	✓ ② ③ ④ N/A	55.1	✓ ② ③ ④ N/A	58.4
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.7	✓ ② ③ ④ N/A	55.8	✓ ② ③ ④ N/A	55.1	✓ ② ③ ④ N/A	58.5
69520	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	54.7	✓ ② ③ ④ N/A	56.4	✓ ② ③ ④ N/A	56.2	✓ ② ③ ④ N/A	56.5
69641	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.9	✓ ② ③ ④ N/A	55.8	✓ ② ③ ④ N/A	54.6	✓ ② ③ ④ N/A	57.4
69298	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	55.2	✓ ② ③ ④ N/A	56.1	✓ ② ③ ④ N/A	56.2	✓ ② ③ ④ N/A	56.6
92669	① ② ③ ④ N/A		① ② ③ ④ N/A		① ② ③ ④ N/A		✓ ② ③ ④ N/A	54.5	✓ ② ③ ④ N/A	55.8	✓ ② ③ ④ N/A	53.9	✓ ② ③ ④ N/A	55.4
End Time (6.[16])							1323		1306		1304		1308	
Initial (6.[16])	WO: ____ WO: ____		WO: ____ WO: ____		WO: ____ WO: ____		WO: EP WO: FH		WO: EP WO: MZ		WO: MZ WO: EP		WO: MZ WO: EP	

ATTACHMENT 2
Page 3 of 3

Comments: Due to use Rev. 4

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Edward Pacheco	Edward Pacheco	100497	03-16-17
Fabian Anaya	Fabian Anaya	124463	03-16-17
Edward Pacheco	Edward Pacheco	100497	03-17-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-17-17
Edward Pacheco	Edward Pacheco	100497	03-18-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-18-17

Waste Operator (print)	Signature	Z#	Date
MATTHEW ZOCCO	Matthew Zocco	311676	03-19-17
Edward Pacheco	Edward Pacheco	100497	03-19-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time: 03-16-17/1324	Friday 6.[2] Date & Start Time: 03-17-17/1307	Saturday 6.[2] Date & Start Time: 03-18-17/1305	Sunday 6.[2] Date & Start Time: 03-19-17/1304
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	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: 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: 12-19-17 File Number: 103868
Ambient Temperature (6.[4])	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: ____ °F	Cell 2: 55.5 °F	Cell 2: 57.2 °F	Cell 2: 56.9 °F	Cell 2: 58.5 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.2	① ② ③ ® N/A 55.8	① ② ③ ® N/A 58.5	① ② ③ ® N/A 57.9
68638	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.7	① ② ③ ® N/A 57.3	① ② ③ ® N/A 56.2	① ② ③ ® N/A 58.4
69615	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.7	① ② ③ ® N/A 55.5	① ② ③ ® N/A 57.4	① ② ③ ® N/A 58.4
69635	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.8	① ② ③ ® N/A 56.9	① ② ③ ® N/A 56.2	① ② ③ ® N/A 57.8
69642	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.8	① ② ③ ® N/A 57.1	① ② ③ ® N/A 56.6	① ② ③ ® N/A 59.6
69630	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.6	① ② ③ ® N/A 55.9	① ② ③ ® N/A 55.9	① ② ③ ® N/A 56.9
69633	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.3	① ② ③ ® N/A 57.0	① ② ③ ® N/A 57.0	① ② ③ ® N/A 58.3
68430	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.4	① ② ③ ® N/A 54.9	① ② ③ ® N/A 56.9	① ② ③ ® N/A 56.6
68631	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 55.7	① ② ③ ® N/A 56.4	① ② ③ ® N/A 55.5	① ② ③ ® N/A 58.9
69634	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A	① ② ③ ® N/A 56.3	① ② ③ ® N/A 55.5	① ② ③ ® N/A 56.7	① ② ③ ® N/A 57.5

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68567	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.2	① ② ③ ® N/A	56.2	① ② ③ ® N/A	55.9	① ② ③ ® N/A	58.4
94227	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	56.9	① ② ③ ® N/A	56.3	① ② ③ ® N/A	56.0	① ② ③ ® N/A	57.4
68648	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.0	① ② ③ ® N/A	54.8	① ② ③ ® N/A	55.8	① ② ③ ® N/A	57.3
69644	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	56.2	① ② ③ ® N/A	56.2	① ② ③ ® N/A	56.4	① ② ③ ® N/A	56.0
69183	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.6	① ② ③ ® N/A	56.4	① ② ③ ® N/A	54.9	① ② ③ ® N/A	56.8
69638	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.4	① ② ③ ® N/A	55.8	① ② ③ ® N/A	55.9	① ② ③ ® N/A	57.6
68624	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.4	① ② ③ ® N/A	54.9	① ② ③ ® N/A	56.2	① ② ③ ® N/A	57.4
68507	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.1	① ② ③ ® N/A	55.7	① ② ③ ® N/A	57.9
69568	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	54.5	① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.0	① ② ③ ® N/A	56.6
69553	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.4	① ② ③ ® N/A	55.8	① ② ③ ® N/A	55.1	① ② ③ ® N/A	58.7
69598	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.4	① ② ③ ® N/A	57.1	① ② ③ ® N/A	57.5
92472	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.9	① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.2	① ② ③ ® N/A	58.2
92459	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.3	① ② ③ ® N/A	55.8	① ② ③ ® N/A	55.9	① ② ③ ® N/A	57.6
69015	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.9	① ② ③ ® N/A	56.2	① ② ③ ® N/A	55.5	① ② ③ ® N/A	58.6
69639	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.2	① ② ③ ® N/A	55.9	① ② ③ ® N/A	56.2	① ② ③ ® N/A	58.2
69637	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.6	① ② ③ ® N/A	56.1	① ② ③ ® N/A	55.3	① ② ③ ® N/A	59.3
End Time (6.[16])							1331		1313		1309		1309	
Initial (6.[16])	WO: ____ WO: ____		WO: ____ WO: ____		WO: ____ WO: ____		WO: FA WO: EP		WO: EP WO: MZ		WO: MZ WO: EP		WO: MZ WO: EP	

ATTACHMENT 3
Page 3 of 3

Comments: Due to new Rev. 4

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Fabian Anaya	Fabian Anaya	174643	03-16-17
Edward Pacheco	Edward Pacheco	100497	03-16-17
Edward Pacheco	Edward Pacheco	100497	03-17-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-17-17
Edward Pacheco	Edward Pacheco	100497	03-18-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-18-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-19-17
Edward Pacheco	Edward Pacheco	100497	03-19-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

NOTE ① = Cell 1; ② = Cell 2; ③ = Cell 3; ⑧ = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time:	Tuesday 6.[2] Date & Start Time:	Wednesday 6.[2] Date & Start Time:	Thursday 6.[2] Date & Start Time: 03-16-17/1332	Friday 6.[2] Date & Start Time: 03-17-17/1314	Saturday 6.[2] Date & Start Time: 03-18-17/1310	Sunday 6.[2] Date & Start Time: 03-19-17/1310
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	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: 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: 12-19-17 File Number: 103868
Ambient Temperature (6.[4])	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: ____ °F	Cell 3: 54.2 °F	Cell 3: 55.8 °F	Cell 3: 56.3 °F	Cell 3: 57.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☐ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
69519	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A 53.1	① ② ③ ⑧ N/A 54.3	① ② ③ ⑧ N/A 55.1	① ② ③ ⑧ N/A 55.9
69645	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A 52.2	① ② ③ ⑧ N/A 52.4	① ② ③ ⑧ N/A 53.3	① ② ③ ⑧ N/A 54.1
94068	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A 53.7	① ② ③ ⑧ N/A 52.3	① ② ③ ⑧ N/A 54.0	① ② ③ ⑧ N/A 57.3
93605	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A 53.8	① ② ③ ⑧ N/A 54.7	① ② ③ ⑧ N/A 54.2	① ② ③ ⑧ N/A 55.6
69548	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A	① ② ③ ⑧ N/A 54.0	① ② ③ ⑧ N/A 54.5	① ② ③ ⑧ N/A 54.9	① ② ③ ⑧ N/A 57.1

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	53.3	① ② ③ ® N/A	54.5	① ② ③ ® N/A	55.4	① ② ③ ® N/A	56.6
68665	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	54.1	① ② ③ ® N/A	54.3	① ② ③ ® N/A	54.9	① ② ③ ® N/A	55.6
69595	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	53.4	① ② ③ ® N/A	55.4	① ② ③ ® N/A	56.9	① ② ③ ® N/A	56.2
69036	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	54.6	① ② ③ ® N/A	55.8	① ② ③ ® N/A	54.5	① ② ③ ® N/A	56.5
69361	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	54.4	① ② ③ ® N/A	54.8	① ② ③ ® N/A	55.2	① ② ③ ® N/A	56.4
69559	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.2	① ② ③ ® N/A	54.3	① ② ③ ® N/A	54.9	① ② ③ ® N/A	58.0
69491	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	54.6	① ② ③ ® N/A	55.5	① ② ③ ® N/A	55.4	① ② ③ ® N/A	57.2
87827	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	56.3	① ② ③ ® N/A	56.2	① ② ③ ® N/A	56.8	① ② ③ ® N/A	58.4
87826	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	55.8	① ② ③ ® N/A	55.7	① ② ③ ® N/A	55.6	① ② ③ ® N/A	57.1
87823	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	57.4	① ② ③ ® N/A	56.8	① ② ③ ® N/A	59.1	① ② ③ ® N/A	58.8
87825	① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A		① ② ③ ® N/A	59.1	① ② ③ ® N/A	59.5	① ② ③ ® N/A	59.7	① ② ③ ® N/A	60.7
End Time (6.[16])							1340		1317		1313		1313	
Initial (6.[16])	WO: ____ WO: ____		WO: ____ WO: ____		WO: ____ WO: ____		WO: FK WO: EP		WO: EP WO: MZ		WO: MZ WO: EP		WO: MZ WO: EP	

ATTACHMENT 4
Page 3 of 3

Comments: Due to new Rev 4

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Fabian Arango	Fabian Arango	174943	03-16-17
Edward Pacheco	Edward Pacheco	100497	03-16-17
Edward Pacheco	Edward Pacheco	100497	03-17-17
MATTHEW ZOCCO	Matthew Zocco	1311676	03-17-17
Edward Pacheco	Edward Pacheco	100497	03-18-17
MATTHEW ZOCCO	Matthew Zocco	1311676	03-18-17
MATTHEW ZOCCO	Matthew Zocco	1311676	03-19-17
Edward Pacheco	Edward Pacheco	100497	03-19-2017

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 03-20-17/1300	Tuesday 6.[2] Date & Start Time: 03-21-17/1301	Wednesday 6.[2] Date & Start Time: 03-22-17/1300	Thursday 6.[2] Date & Start Time: 03-23-17/1316	Friday 6.[2]Date & Start Time: 03-24-17/1302	Saturday 6.[2] Date & Start Time: 03-25-17/1300	Sunday 6.[2] Date & Start Time: 03-26-17/1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 1: 58.1 °F	Cell 1: 58.6 °F	Cell 1: 58.5 °F	Cell 1: 58.2 °F	Cell 1: 55.6 °F	Cell 1: 56.0 °F	Cell 1: 55.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: 36.6 °F	Refrig.: 39.3 °F	Refrig.: ~~58.5~~ 35.5 °F MZ 03-22-17	Refrig.: 35.4 °F	Refrig.: 36.9 °F	Refrig.: 37.0 °F	Refrig.: 36.9 °F
(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
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ® N/A	60.1	① ② ③ ® N/A	61.6	① ② ③ ® N/A	63.1	① ② ③ ® N/A	59.5	① ② ③ ® N/A	54.4	① ② ③ ® N/A	56.4	① ② ③ ® N/A	55.5
68540	① ② ③ ® N/A	56.7	① ② ③ ® N/A	57.6	① ② ③ ® N/A	58.5	① ② ③ ® N/A	56.5	① ② ③ ® N/A	54.0	① ② ③ ® N/A	55.7	① ② ③ ® N/A	54.6
68553	① ② ③ ® N/A	56.6	① ② ③ ® N/A	57.4	① ② ③ ® N/A	58.6	① ② ③ ® N/A	56.3	① ② ③ ® N/A	54.5	① ② ③ ® N/A	55.3	① ② ③ ® N/A	55.0
69445	① ② ③ ® N/A	56.4	① ② ③ ® N/A	57.7	① ② ③ ® N/A	58.2	① ② ③ ® N/A	56.4	① ② ③ ® N/A	53.8	① ② ③ ® N/A	54.9	① ② ③ ® N/A	54.2

WORKING COPY
Z# 239958
INITIAL 1300 DATE 03/20/17

ATTACHMENT 2

Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
69618	✓ ② ③ ® N/A	56.5	✓ ② ③ ® N/A	57.6	✓ ② ③ ® N/A	58.3	✓ ② ③ ® N/A	54.7	✓ ② ③ ® N/A	54.1	✓ ② ③ ® N/A	55.2	✓ ② ③ ® N/A	54.7
69013	✓ ② ③ ® N/A	56.4	✓ ② ③ ® N/A	57.4	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	55.5	✓ ② ③ ® N/A	53.2	✓ ② ③ ® N/A	54.5	✓ ② ③ ® N/A	54.0
69490	✓ ② ③ ® N/A	55.9	✓ ② ③ ® N/A	58.5	✓ ② ③ ® N/A	58.4	✓ ② ③ ® N/A	55.0	✓ ② ③ ® N/A	53.5	✓ ② ③ ® N/A	54.4	✓ ② ③ ® N/A	53.8
69076	✓ ② ③ ® N/A	55.5	✓ ② ③ ® N/A	57.1	✓ ② ③ ® N/A	56.6	✓ ② ③ ® N/A	53.8	✓ ② ③ ® N/A	53.2	✓ ② ③ ® N/A	53.3	✓ ② ③ ® N/A	53.2
69280	✓ ② ③ ® N/A	55.0	✓ ② ③ ® N/A	56.6	✓ ② ③ ® N/A	55.5	✓ ② ③ ® N/A	53.5	✓ ② ③ ® N/A	53.7	✓ ② ③ ® N/A	54.9	✓ ② ③ ® N/A	52.6
69208	✓ ② ③ ® N/A	56.5	✓ ② ③ ® N/A	57.7	✓ ② ③ ® N/A	58.5	✓ ② ③ ® N/A	54.8	✓ ② ③ ® N/A	53.5	✓ ② ③ ® N/A	54.3	✓ ② ③ ® N/A	53.7
69079	✓ ② ③ ® N/A	56.3	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	56.5	✓ ② ③ ® N/A	54.7	✓ ② ③ ® N/A	53.7	✓ ② ③ ® N/A	54.8	✓ ② ③ ® N/A	54.5
69636	✓ ② ③ ® N/A	54.9	✓ ② ③ ® N/A	56.7	✓ ② ③ ® N/A	57.6	✓ ② ③ ® N/A	54.5	✓ ② ③ ® N/A	53.5	✓ ② ③ ® N/A	54.3	✓ ② ③ ® N/A	54.0
69616	✓ ② ③ ® N/A	55.6	✓ ② ③ ® N/A	57.1	✓ ② ③ ® N/A	57.3	✓ ② ③ ® N/A	54.6	✓ ② ③ ® N/A	53.2	✓ ② ③ ® N/A	54.5	✓ ② ③ ® N/A	53.7
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	✓ ② ③ ® N/A	56.2	✓ ② ③ ® N/A	57.6	✓ ② ③ ® N/A	57.9	✓ ② ③ ® N/A	55.6	✓ ② ③ ® N/A	54.0	✓ ② ③ ® N/A	53.7	✓ ② ③ ® N/A	54.1
69520	✓ ② ③ ® N/A	55.7	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	56.8	✓ ② ③ ® N/A	54.7	✓ ② ③ ® N/A	53.2	✓ ② ③ ® N/A	54.2	✓ ② ③ ® N/A	53.6
69641	✓ ② ③ ® N/A	56.1	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	57.6	✓ ② ③ ® N/A	55.3	✓ ② ③ ® N/A	53.4	✓ ② ③ ® N/A	54.7	✓ ② ③ ® N/A	54.1
69298	✓ ② ③ ® N/A	55.6	✓ ② ③ ® N/A	56.9	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	54.4	✓ ② ③ ® N/A	54.0	✓ ② ③ ® N/A	54.1	✓ ② ③ ® N/A	53.6
92669	✓ ② ③ ® N/A	54.8	✓ ② ③ ® N/A	55.7	✓ ② ③ ® N/A	55.9	✓ ② ③ ® N/A	52.8	✓ ② ③ ® N/A	53.3	✓ ② ③ ® N/A	54.5	✓ ② ③ ® N/A	53.2
End Time (6.[16])	1304		1307		1304		1319		1306		1304		1304	
Initial (6.[16])	WO: VM WO:		WO: [illegible] WO: DL		WO: MZ WO: EP		WO: VM WO: [illegible]		WO: VM WO: FA		WO: VM WO: FA		WO: VM WO: FA	

ATTACHMENT 2
Page 3 of 3

Comments: No comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03-20-17
Leon Montoya		191526	03-20-17
Leon Montoya		191526	03-21-17
Tina Aguirre	Tina Aguirre	174927	03-21-17
Edward Pacheco	Edward Pacheco	100497	03-22-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-22-17
Valerie Martinez	Valerie Martinez	239958	03-23-17
Juan Garcia	Juan Garcia	169840	03-23-17
Valerie Martinez	Valerie Martinez	239958	03-24-17
Fabian Anaya	Fabian Anaya	174963	03-24-17
Valerie Martinez	Valerie Martinez	239958	03-25-17
Fabian Anaya	Fabian Anaya	174963	03-25-17
Valerie Martinez	Valerie Martinez	239958	03-26-17
Fabian Anaya	Fabian Anaya	174963	03-26-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 03·20·17/1304	Tuesday 6.[2] Date & Start Time: 03-21-17/1307	Wednesday 6.[2] Date & Start Time: 03-22-17/1306	Thursday 6.[2] Date & Start Time: 03·23·17/1319	Friday 6.[2] Date & Start Time: 03·24·17/1306	Saturday 6.[2] Date & Start Time: 03·25·17/1304	Sunday 6.[2] Date & Start Time: 03·26·17/1304
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12·19·17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12·19·17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12·19·17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12·19·17 File Number 103868
Ambient Temperature (6.[4])	Cell 2: 56.6 °F	Cell 2: 58.0 °F	Cell 2: 58.7 °F	Cell 2: 56.1 °F	Cell 2: 53.6 °F	Cell 2: 54.3 °F	Cell 2: 54.4 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ② ③ ® N/A	56.0	① ② ③ ® N/A	57.5	① ② ③ ® N/A	58.2	① ② ③ ® N/A	54.9	① ② ③ ® N/A	53.9	① ② ③ ® N/A	54.5	① ② ③ ® N/A	53.8
68638	① ② ③ ® N/A	56.3	① ② ③ ® N/A	57.6	① ② ③ ® N/A	57.4	① ② ③ ® N/A	54.2	① ② ③ ® N/A	53.2	① ② ③ ® N/A	54.0	① ② ③ ® N/A	54.3
69615	① ② ③ ® N/A	55.9	① ② ③ ® N/A	57.6	① ② ③ ® N/A	58.4	① ② ③ ® N/A	55.9	① ② ③ ® N/A	53.5	① ② ③ ® N/A	55.3	① ② ③ ® N/A	54.4
69635	① ② ③ ® N/A	56.2	① ② ③ ® N/A	57.7	① ② ③ ® N/A	57.1	① ② ③ ® N/A	55.6	① ② ③ ® N/A	53.1	① ② ③ ® N/A	54.1	① ② ③ ® N/A	54.0
69642	① ② ③ ® N/A	55.9	① ② ③ ® N/A	57.8	① ② ③ ® N/A	56.4	① ② ③ ® N/A	55.2	① ② ③ ® N/A	53.3	① ② ③ ® N/A	54.6	① ② ③ ® N/A	54.1
69630	① ② ③ ® N/A	56.0	① ② ③ ® N/A	57.7	① ② ③ ® N/A	57.8	① ② ③ ® N/A	55.1	① ② ③ ® N/A	53.4	① ② ③ ® N/A	54.1	① ② ③ ® N/A	53.9
69633	① ② ③ ® N/A	56.0	① ② ③ ® N/A	58.2	① ② ③ ® N/A	58.3	① ② ③ ® N/A	55.7	① ② ③ ® N/A	53.8	① ② ③ ® N/A	54.3	① ② ③ ® N/A	54.1
68430	① ② ③ ® N/A	55.7	① ② ③ ® N/A	57.4	① ② ③ ® N/A	56.7	① ② ③ ® N/A	55.9	① ② ③ ® N/A	52.8	① ② ③ ® N/A	53.4	① ② ③ ® N/A	53.5
68631	① ② ③ ® N/A	56.0	① ② ③ ® N/A	57.9	① ② ③ ® N/A	58.4	① ② ③ ® N/A	56.5	① ② ③ ® N/A	53.1	① ② ③ ® N/A	54.3	① ② ③ ® N/A	52.9
69634	① ② ③ ® N/A	55.7	① ② ③ ® N/A	57.2	① ② ③ ® N/A	57.6	① ② ③ ® N/A	56.4	① ② ③ ® N/A	52.6	① ② ③ ® N/A	53.2	① ② ③ ® N/A	53.5

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68567	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	58.0	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	52.5	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	53.7
94227	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	57.8	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	53.3
68648	① ✓ ③ ® N/A	55.8	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	52.5	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	53.8
69644	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	57.2	① ✓ ③ ® N/A	57.6	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	53.4	① ✓ ③ ® N/A	53.4	① ✓ ③ ® N/A	53.3
69183	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	55.9	① ✓ ③ ® N/A	52.4	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	53.6
69638	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	57.5	① ✓ ③ ® N/A	58.0	① ✓ ③ ® N/A	56.0	① ✓ ③ ® N/A	53.2	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	53.5
68624	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	57.2	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	55.6	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	54.0
68507	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	56.7	① ✓ ③ ® N/A	56.8	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	53.3
69568	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	57.8	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	52.8	① ✓ ③ ® N/A	53.7
69553	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	55.9	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	53.3
69598	① ✓ ③ ® N/A	55.6	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	57.5	① ✓ ③ ® N/A	56.5	① ✓ ③ ® N/A	52.7	① ✓ ③ ® N/A	53.2	① ✓ ③ ® N/A	53.5
92472	① ✓ ③ ® N/A	55.3	① ✓ ③ ® N/A	57.3	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	53.3
92459	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	57.5	① ✓ ③ ® N/A	55.8	① ✓ ③ ® N/A	52.9	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	53.5
69015	① ✓ ③ ® N/A	54.9	① ✓ ③ ® N/A	56.9	① ✓ ③ ® N/A	56.5	① ✓ ③ ® N/A	55.9	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	53.7
69639	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	57.8	① ✓ ③ ® N/A	55.8	① ✓ ③ ® N/A	52.9	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	54.0
69637	① ✓ ③ ® N/A	55.7	① ✓ ③ ® N/A	57.5	① ✓ ③ ® N/A	57.5	① ✓ ③ ® N/A	55.8	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	54.3
End Time (6.[16])	1309		1312		1310		1323		1311		1309		1308	
Initial (6.[16])	WO: VDM WO: LM		WO: [illegible] WO: [illegible]		WO: MZ WO: EP		WO: VDM WO: [illegible]		WO: VDM WO: FA		WO: VDM WO: FA		WO: VDM WO: FA	

ATTACHMENT 3
Page 3 of 3

Comments:
No comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03-20-17
Leon Montoya		191526	03-20-17
Leon Montoya		191526	03-21-17
Lina Aguirre	Lina Aguirre	174927	03-21-17
Edward Pacheco	Edward Pacheco	100497	03-22-17
MATTHEW Fosco	Matthew Fosco	311676	03-22-17
Valerie Martinez	Valerie Martinez	239958	03-23-17
Juan Garcia	Juan Garcia	169840	03-23-17
Valerie Martinez	Valerie Martinez	239958	03-24-17
Fabian Araya	Fabian Araya	174963	03-24-17
Valerie Martinez	Valerie Martinez	239958	03-25-17
Fabian Araya	Fabian Araya	174963	03-25-17
Valerie Martinez	Valerie Martinez	239958	03-26-17
Fabian Araya	Fabian Araya	174963	03-26-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 03-20-17/1309	Tuesday 6.[2] Date & Start Time: 03-21-17/1312	Wednesday 6.[2] Date & Start Time: 03-22-17/1311	Thursday 6.[2] Date & Start Time: 03-23-17/1323	Friday 6.[2] Date & Start Time: 03-24-17/1311	Saturday 6.[2] Date & Start Time: 03-25-17/1309	Sunday 6.[2] Date & Start Time: 03-26-17/1308
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 3: 55.8 °F	Cell 3: 52.2 °F	Cell 3: 56.9 °F	Cell 3: 55.6 °F	Cell 3: 53.1 °F	Cell 3: 53.4 °F	Cell 3: 53.4 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
69519	① ② ③ ® N/A 54.1	① ② ③ ® N/A 55.4	① ② ③ ® N/A 55.6	① ② ③ ® N/A 54.0	① ② ③ ® N/A 51.8	① ② ③ ® N/A 52.4	① ② ③ ® N/A 52.1
69645	① ② ③ ® N/A 52.1	① ② ③ ® N/A 54.6	① ② ③ ® N/A 53.9	① ② ③ ® N/A 52.3	① ② ③ ® N/A 50.6	① ② ③ ® N/A 51.0	① ② ③ ® N/A 50.9
94068	① ② ③ ® N/A 52.3	① ② ③ ® N/A 55.1	① ② ③ ® N/A 55.3	① ② ③ ® N/A 52.0	① ② ③ ® N/A 51.4	① ② ③ ® N/A 51.3	① ② ③ ® N/A 51.3
93605	① ② ③ ® N/A 53.5	① ② ③ ® N/A 55.7	① ② ③ ® N/A 55.5	① ② ③ ® N/A 53.4	① ② ③ ® N/A 51.6	① ② ③ ® N/A 51.9	① ② ③ ® N/A 51.9
69548	① ② ③ ® N/A 54.2	① ② ③ ® N/A 56.8	① ② ③ ® N/A 56.3	① ② ③ ® N/A 53.6	① ② ③ ® N/A 52.8	① ② ③ ® N/A 53.2	① ② ③ ® N/A 54.1

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A	53.3	① ② ③ ® N/A	56.0	① ② ③ ® N/A	55.8	① ② ③ ® N/A	55.0	① ② ③ ® N/A	51.7	① ② ③ ® N/A	51.3	① ② ③ ® N/A	51.8
68665	① ② ③ ® N/A	53.5	① ② ③ ® N/A	55.8	① ② ③ ® N/A	56.3	① ② ③ ® N/A	52.5	① ② ③ ® N/A	51.1	① ② ③ ® N/A	52.1	① ② ③ ® N/A	51.3
69595	① ② ③ ® N/A	53.9	① ② ③ ® N/A	56.6	① ② ③ ® N/A	56.2	① ② ③ ® N/A	53.5	① ② ③ ® N/A	52.0	① ② ③ ® N/A	51.5	① ② ③ ® N/A	51.6
69036	① ② ③ ® N/A	54.3	① ② ③ ® N/A	56.4	① ② ③ ® N/A	56.9	① ② ③ ® N/A	54.5	① ② ③ ® N/A	52.6	① ② ③ ® N/A	53.1	① ② ③ ® N/A	53.1
69361	① ② ③ ® N/A	54.5	① ② ③ ® N/A	56.2	① ② ③ ® N/A	56.8	① ② ③ ® N/A	54.7	① ② ③ ® N/A	52.2	① ② ③ ® N/A	52.6	① ② ③ ® N/A	52.4
69559	① ② ③ ® N/A	54.2	① ② ③ ® N/A	56.6	① ② ③ ® N/A	57.2	① ② ③ ® N/A	54.3	① ② ③ ® N/A	52.3	① ② ③ ® N/A	52.9	① ② ③ ® N/A	53.7
69491	① ② ③ ® N/A	54.8	① ② ③ ® N/A	56.4	① ② ③ ® N/A	56.6	① ② ③ ® N/A	55.2	① ② ③ ® N/A	52.7	① ② ③ ® N/A	53.1	① ② ③ ® N/A	52.5
87827	① ② ③ ® N/A	55.8	① ② ③ ® N/A	57.2	① ② ③ ® N/A	58.0	① ② ③ ® N/A	56.7	① ② ③ ® N/A	52.9	① ② ③ ® N/A	53.9	① ② ③ ® N/A	53.7
87826	① ② ③ ® N/A	56.1	① ② ③ ® N/A	57.9	① ② ③ ® N/A	57.5	① ② ③ ® N/A	56.2	① ② ③ ® N/A	53.2	① ② ③ ® N/A	53.4	① ② ③ ® N/A	53.4
87823	① ② ③ ® N/A	57.0	① ② ③ ® N/A	59.8	① ② ③ ® N/A	58.2	① ② ③ ® N/A	55.8	① ② ③ ® N/A	53.9	① ② ③ ® N/A	55.2	① ② ③ ® N/A	55.0
87825	① ② ③ ® N/A	58.5	① ② ③ ® N/A	61.9	① ② ③ ® N/A	59.7	① ② ③ ® N/A	58.5	① ② ③ ® N/A	54.7	① ② ③ ® N/A	56.6	① ② ③ ® N/A	55.4
End Time (6.[16])	1315		1316		1313		1327		1315		1313		1313	
Initial (6.[16])	WO: VDM WO: [illegible]		WO: LM WO: [illegible]		WO: MZ WO: EP		WO: VDM WO: [illegible]		WO: VDM WO: FK		WO: VDM WO: FK		WO: VDM WO: FK	

ATTACHMENT 4
Page 3 of 3

Comments:
No Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03.20.17
Leon Montoya		191526	03 20 17
Leon Montoya		191526	03-21-17
Lina Aguirre	Lina Aguirre	174922	03-21-17
Edward Pacheco	Edward Pacheco	100497	03-22-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-22-17
Valerie Martinez	Valerie Martinez	239958	03.23.17
Juan Garcia	Juan Garcia	169840	03-23-17
Valerie Martinez	Valerie Martinez	239958	03.24.17
Fabian Anaya	Fabian Anaya	174963	03-24-17
Valerie Martinez	Valerie Martinez	239958	03.25.17
Fabian Anaya	Fabian Anaya	174963	03.25-17
Valerie Martinez	Valerie Martinez	239958	03.26.17
Fabian Anaya	Fabian Anaya	174963	03-26-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 03-27-17/1300		Tuesday 6.[2] Date & Start Time: 03-28-17/1320		Wednesday 6.[2] Date & Start Time: 03-29-17/1300		Thursday 6.[2] Date & Start Time: 03-30-17/1320		Friday 6.[2]Date & Start Time: 03-31-17/1300		Saturday 6.[2] Date & Start Time: 04-1-17/1300		Sunday 6.[2] Date & Start Time: 04-2-17/1300	
TA-54-0375 Cell 1														
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12/19/17 File Number 103868		Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868		Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868		Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868		Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868		Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868		Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	
Ambient Temperature (6.[4])	Cell 1: 56.7 °F		Cell 1: 48.2 °F		Cell 1: 55.7 °F		Cell 1: 55.0 °F		Cell 1: 57.1 °F		Cell 1: 50.1 °F		Cell 1: 52.7 °F	
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT		☑ SAT ☐ UNSAT	
Ambient Temperature (6.[7])	Refrig.: 34.8 °F		Refrig.: 34.7 °F		Refrig.: 34.9 °F		Refrig.: 34.9 °F		Refrig.: 38.4 °F		Refrig.: 36.3 °F		Refrig.: 36.6 °F	
(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	
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)													
68685	① ② ③ ® N/A	56.1	① ② ③ ® N/A	47.7	① ② ③ ® N/A	54.1	① ② ③ ® N/A	55.8	① ② ③ ® N/A	36.2	① ② ③ ® N/A	35.3	① ② ③ ® N/A	33.6
68540	① ② ③ ® N/A	54.8	① ② ③ ® N/A	47.1	① ② ③ ® N/A	54.2	① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.5	① ② ③ ® N/A	50.1	① ② ③ ® N/A	52.4
68553	① ② ③ ® N/A	55.5	① ② ③ ® N/A	47.2	① ② ③ ® N/A	53.6	① ② ③ ® N/A	53.8	① ② ③ ® N/A	36.5	① ② ③ ® N/A	34.5	① ② ③ ® N/A	33.8
69445	① ② ③ ® N/A	55.3	① ② ③ ® N/A	47.5	① ② ③ ® N/A	55.1	① ② ③ ® N/A	54.9	① ② ③ ® N/A	55.7	① ② ③ ® N/A	50.2	① ② ③ ® N/A	52.6

WORKING COPY
Z# 239958
INITIAL VM DATE 03-27-17

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
69618	① ② ③ ® N/A	55.0	① ② ③ ® N/A	48.0	① ② ③ ® N/A	53.2	① ② ③ ® N/A	54.6	① ② ③ ® N/A	55.8	① ② ③ ® N/A	50.7	① ② ③ ® N/A	50.7
69013	① ② ③ ® N/A	54.0	① ② ③ ® N/A	47.2	① ② ③ ® N/A	52.5	① ② ③ ® N/A	54.4	① ② ③ ® N/A	54.9	① ② ③ ® N/A	50.5	① ② ③ ® N/A	50.3
69490	① ② ③ ® N/A	52.8	① ② ③ ® N/A	48.8	① ② ③ ® N/A	53.3	① ② ③ ® N/A	53.5	① ② ③ ® N/A	55.9	① ② ③ ® N/A	50.9	① ② ③ ® N/A	49.4
69076	① ② ③ ® N/A	55.0	① ② ③ ® N/A	47.7	① ② ③ ® N/A	52.5	① ② ③ ® N/A	54.8	① ② ③ ® N/A	53.7	① ② ③ ® N/A	51.0	① ② ③ ® N/A	50.3
69280	① ② ③ ® N/A	51.6	① ② ③ ® N/A	48.3	① ② ③ ® N/A	53.3	① ② ③ ® N/A	53.1	① ② ③ ® N/A	53.5	① ② ③ ® N/A	51.0	① ② ③ ® N/A	51.3
69208	① ② ③ ® N/A	54.6	① ② ③ ® N/A	47.8	① ② ③ ® N/A	51.8	① ② ③ ® N/A	54.6	① ② ③ ® N/A	54.7	① ② ③ ® N/A	50.8	① ② ③ ® N/A	50.8
69079	① ② ③ ® N/A	54.3	① ② ③ ® N/A	48.3	① ② ③ ® N/A	54.2	① ② ③ ® N/A	53.3	① ② ③ ® N/A	55.7	① ② ③ ® N/A	50.9	① ② ③ ® N/A	51.2
69636	① ② ③ ® N/A	54.2	① ② ③ ® N/A	47.7	① ② ③ ® N/A	53.1	① ② ③ ® N/A	54.3	① ② ③ ® N/A	54.7	① ② ③ ® N/A	51.0	① ② ③ ® N/A	50.8
69616	① ② ③ ® N/A	55.0	① ② ③ ® N/A	48.0	① ② ③ ® N/A	53.1	① ② ③ ® N/A	53.0	① ② ③ ® N/A	54.7	① ② ③ ® N/A	51.0	① ② ③ ® N/A	50.8
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	① ② ③ ® N/A	53.8	① ② ③ ® N/A	48.8	① ② ③ ® N/A	52.4	① ② ③ ® N/A	54.7	① ② ③ ® N/A	53.3	① ② ③ ® N/A	51.1	① ② ③ ® N/A	51.1
69520	① ② ③ ® N/A	54.2	① ② ③ ® N/A	48.0	① ② ③ ® N/A	52.7	① ② ③ ® N/A	53.1	① ② ③ ® N/A	54.3	① ② ③ ® N/A	50.0	① ② ③ ® N/A	50.8
69641	① ② ③ ® N/A	53.9	① ② ③ ® N/A	48.5	① ② ③ ® N/A	53.3	① ② ③ ® N/A	54.4	① ② ③ ® N/A	54.1	① ② ③ ® N/A	50.1	① ② ③ ® N/A	50.3
69298	① ② ③ ® N/A	54.3	① ② ③ ® N/A	48.3	① ② ③ ® N/A	52.6	① ② ③ ® N/A	54.7	① ② ③ ® N/A	53.7	① ② ③ ® N/A	51.0	① ② ③ ® N/A	51.3
92669	① ② ③ ® N/A	52.9	① ② ③ ® N/A	48.1	① ② ③ ® N/A	52.7	① ② ③ ® N/A	52.4	① ② ③ ® N/A	53.0	① ② ③ ® N/A	50.8	① ② ③ ® N/A	50.7
End Time (6.[16])	1305		1324		1303		1325		1310		1305		1305	
Initial (6.[16])	WO: VM WO: MZ		WO: MZ WO: QA		WO: MZ WO: EP		WO: MZ WO: [illegible]		WO: [illegible] WO: EP		WO: [illegible] WO: EP		WO: [illegible] WO: EP	

ATTACHMENT 2
Page 3 of 3

Comments:

NO Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-28-17
Tina Aguirre	Tina Aguirre	174977	03-28-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-29-17
Edward Pacheco	Edward Pacheco	100497	03-29-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-30-17
Tina Aguirre	Tina Aguirre	174977	03-30-17
Juan Garcia	Juan Garcia	169840	03-31-17
Edward Pacheco	Edward Pacheco	100497	03-31-17
Juan Garcia	Juan Garcia	169840	04-1-17
Edward Pacheco	Edward Pacheco	100497	04-1-17
Juan Garcia	Juan Garcia	169840	04-02-17
Edward Pacheco	Edward Pacheco	100497	04-2-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 03-27-17/1306	Tuesday 6.[2] Date & Start Time: 03-28-17/1325	Wednesday 6.[2] Date & Start Time: 03-29-17/1304	Thursday 6.[2] Date & Start Time: 03-30-17/1326	Friday 6.[2] Date & Start Time: 03-31-17/1311	Saturday 6.[2] Date & Start Time: 04-1-17/1306	Sunday 6.[2] Date & Start Time: 04-2-17/1306
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 2: 55.5 °F	Cell 2: 48.9 °F	Cell 2: 52.8 °F	Cell 2: 54.7 °F	Cell 2: 55.1 °F	Cell 2: 51.1 °F	Cell 2: 50.7 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	48.1	① ✓ ③ ® N/A	52.4	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	49.3
68638	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	48.6	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	50.8	① ✓ ③ ® N/A	50.5
69615	① ✓ ③ ® N/A	55.2	① ✓ ③ ® N/A	47.4	① ✓ ③ ® N/A	52.8	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	50.8	① ✓ ③ ® N/A	50.5
69635	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	48.7	① ✓ ③ ® N/A	53.5	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	51.7	① ✓ ③ ® N/A	50.7
69642	① ✓ ③ ® N/A	55.8	① ✓ ③ ® N/A	47.5	① ✓ ③ ® N/A	52.4	① ✓ ③ ® N/A	55.2	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	51.1
69630	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	48.2	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	50.5
69633	① ✓ ③ ® N/A	55.2	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	52.4	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	50.5
68430	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	48.4	① ✓ ③ ® N/A	52.1	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	50.3
68631	① ✓ ③ ® N/A	54.9	① ✓ ③ ® N/A	47.7	① ✓ ③ ® N/A	52.4	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	53.5	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	50.3
69634	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	47.8	① ✓ ③ ® N/A	52.5	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	49.8

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
68567	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	52.0	① ✓ ③ ® N/A	53.2	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	50.5
94227	① ✓ ③ ® N/A	53.5	① ✓ ③ ® N/A	48.1	① ✓ ③ ® N/A	52.2	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	53.4	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	49.6
68648	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	47.2	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	49.8
69644	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	48.5	① ✓ ③ ® N/A	52.3	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	49.9
69183	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	52.5	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	49.9
69638	① ✓ ③ ® N/A	54.8	① ✓ ③ ® N/A	48.0	① ✓ ③ ® N/A	52.3	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.0
68624	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	47.8	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	50.4	① ✓ ③ ® N/A	50.8
68507	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	48.6	① ✓ ③ ® N/A	51.9	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	50.1
69568	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	47.3	① ✓ ③ ® N/A	52.5	① ✓ ③ ® N/A	53.5	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	50.7
69553	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	47.3	① ✓ ③ ® N/A	51.9	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	49.9
69598	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	47.8	① ✓ ③ ® N/A	52.1	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	54.8	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	49.9
92472	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	47.3	① ✓ ③ ® N/A	52.1	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	50.5
92459	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	47.3	① ✓ ③ ® N/A	52.3	① ✓ ③ ® N/A	52.9	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	49.9
69015	① ✓ ③ ® N/A	54.9	① ✓ ③ ® N/A	48.3	① ✓ ③ ® N/A	52.0	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	50.1	① ✓ ③ ® N/A	51.0
69639	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	48.0	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	53.2	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.6
69637	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	52.7	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	50.3
End Time (6.[16])	1311		1330		1307		1380		1317		1310		1311	
Initial (6.[16])	WO: VM WO: MZ		WO: MZ WO: QA		WO: MZ WO: EP		WO: MZ WO: QA		WO: [illegible] WO: EP		WO: [illegible] WO: EP		WO: [illegible] WO: EP	

ATTACHMENT 3
Page 3 of 3

Comments:
NO Comment's

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-28-17
Tina Aguirre	Tina Aguirre	174977	03-28-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-29-17
Edward Pacheco	Edward Pacheco	100497	03-29-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-30-17
Tina Aguirre	Tina Aguirre	174977	03-30-17
Juan Garcia	Juan Garcia	169840	03-31-17
Edward Pacheco	Edward Pacheco	100497	03-31-17
Juan Garcia	Juan Garcia	169840	04-01-17
Edward Pacheco	Edward Pacheco	100497	04-1-17
Juan Garcia	Juan Garcia	169840	04-02-17
Edward Pacheco	Edward Pacheco	100497	04-2-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 03-27-17/1312	Tuesday 6.[2] Date & Start Time: 03-28-17/1331	Wednesday 6.[2] Date & Start Time: 03-29-17/1308	Thursday 6.[2] Date & Start Time: 03-30-17/1332	Friday 6.[2] Date & Start Time: 03/31/17/1318	Saturday 6.[2] Date & Start Time: 04-1-17/1311	Sunday 6.[2] Date & Start Time: 04-2-17/1312
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: FLUKE Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 3: 53.6 °F	Cell 3: 47.1 °F	Cell 3: 53.3 °F	Cell 3: 53.9 °F	Cell 3: 53.7 °F	Cell 3: 49.5 °F	Cell 3: 49.7 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
69519	① ② ③✓ ® N/A 53.0	① ② ③✓ ® N/A 47.6	① ② ③✓ ® N/A 51.3	① ② ③✓ ® N/A 52.1	① ② ③✓ ® N/A 51.5	① ② ③✓ ® N/A 49.1	① ② ③✓ ® N/A 48.3
69645	① ② ③✓ ® N/A 51.7	① ② ③✓ ® N/A 47.0	① ② ③✓ ® N/A 50.2	① ② ③✓ ® N/A 50.8	① ② ③✓ ® N/A 51.0	① ② ③✓ ® N/A 49.1	① ② ③✓ ® N/A 48.6
94068	① ② ③✓ ® N/A 52.4	① ② ③✓ ® N/A 48.4	① ② ③✓ ® N/A 52.1	① ② ③✓ ® N/A 51.7	① ② ③✓ ® N/A 50.7	① ② ③✓ ® N/A 49.0	① ② ③✓ ® N/A 49.3
93605	① ② ③✓ ® N/A 52.8	① ② ③✓ ® N/A 47.4	① ② ③✓ ® N/A 51.2	① ② ③✓ ® N/A 51.6	① ② ③✓ ® N/A 51.8	① ② ③✓ ® N/A 49.4	① ② ③✓ ® N/A 48.7
69548	① ② ③✓ ® N/A 55.0	① ② ③✓ ® N/A 47.9	① ② ③✓ ® N/A 51.6	① ② ③✓ ® N/A 52.8	① ② ③✓ ® N/A 52.2	① ② ③✓ ® N/A 49.4	① ② ③✓ ® N/A 49.0

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A	53.3	① ② ③ ® N/A	47.2	① ② ③ ® N/A	51.0	① ② ③ ® N/A	53.1	① ② ③ ® N/A	52.0	① ② ③ ® N/A	49.2	① ② ③ ® N/A	50.0
68665	① ② ③ ® N/A	52.5	① ② ③ ® N/A	46.8	① ② ③ ® N/A	51.2	① ② ③ ® N/A	51.7	① ② ③ ® N/A	51.2	① ② ③ ® N/A	51.5	① ② ③ ® N/A	48.8
69595	① ② ③ ® N/A	53.5	① ② ③ ® N/A	47.2	① ② ③ ® N/A	51.3	① ② ③ ® N/A	52.0	① ② ③ ® N/A	51.9	① ② ③ ® N/A	49.2	① ② ③ ® N/A	48.3
69036	① ② ③ ® N/A	54.1	① ② ③ ® N/A	46.6	① ② ③ ® N/A	51.4	① ② ③ ® N/A	52.8	① ② ③ ® N/A	52.2	① ② ③ ® N/A	48.6	① ② ③ ® N/A	48.5
69361	① ② ③ ® N/A	54.9	① ② ③ ® N/A	47.2	① ② ③ ® N/A	51.9	① ② ③ ® N/A	52.9	① ② ③ ® N/A	52.8	① ② ③ ® N/A	48.8	① ② ③ ® N/A	48.5
69559	① ② ③ ® N/A	53.7	① ② ③ ® N/A	47.3	① ② ③ ® N/A	52.5	① ② ③ ® N/A	52.5	① ② ③ ® N/A	52.7	① ② ③ ® N/A	50.0	① ② ③ ® N/A	49.1
69491	① ② ③ ® N/A	54.3	① ② ③ ® N/A	48.8	① ② ③ ® N/A	51.9	① ② ③ ® N/A	52.7	① ② ③ ® N/A	53.0	① ② ③ ® N/A	49.4	① ② ③ ® N/A	48.5
87827	① ② ③ ® N/A	54.2	① ② ③ ® N/A	48.3	① ② ③ ® N/A	53.0	① ② ③ ® N/A	53.8	① ② ③ ® N/A	54.3	① ② ③ ® N/A	49.3	① ② ③ ® N/A	49.2
87826	① ② ③ ® N/A	55.8	① ② ③ ® N/A	47.1	① ② ③ ® N/A	52.5	① ② ③ ® N/A	52.9	① ② ③ ® N/A	53.3	① ② ③ ® N/A	50.0	① ② ③ ® N/A	49.3
87823	① ② ③ ® N/A	55.1	① ② ③ ® N/A	47.0	① ② ③ ® N/A	52.7	① ② ③ ® N/A	54.1	① ② ③ ® N/A	53.0	① ② ③ ® N/A	48.7	① ② ③ ® N/A	50.7
87825	① ② ③ ® N/A	57.0	① ② ③ ® N/A	46.4	① ② ③ ® N/A	52.9	① ② ③ ® N/A	55.9	① ② ③ ® N/A	55.3	① ② ③ ® N/A	48.5	① ② ③ ® N/A	50.6
End Time (6.[16])	1316		1334		MZ 9-25-18 ~~1302~~ 1312		1338		1325		1316		1317	
Initial (6.[16])	WO: VDM WO: MZ		WO: MZ WO: QA		WO: MZ WO: EP		WO: MZ WO: QA		WO: [illegible] WO: EP		WO: [illegible] WO: EP		WO: [illegible] WO: EP	

ATTACHMENT 4
Page 3 of 3

Comments:

NO Comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Valerie Martinez	Valerie Martinez	239958	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-27-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-28-17
Tina Aguirre	Tina Aguirre	124977	03-28-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-29-17
Edward Pacheco	Edward Pacheco	100497	03-29-17
MATTHEW ZOCCO	Matthew Zocco	311676	03-30-17
Waste Operator (print)	Signature	Z#	Date

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	124977	03-30-17
Juan Garcia	Juan Garcia	169840	03-31-17
Edward Pacheco	Edward Pacheco	100497	03-31-17
Juan Garcia	Juan Garcia	169840	04-01-17
Edward Pacheco	Edward Pacheco	100497	04-1-17
Juan Garcia	Juan Garcia	169840	04-02-17
Edward Pacheco	Edward Pacheco	100497	04-2-17
Waste Operator (print)	Signature	Z#	Date

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 04-03-17/1418	Tuesday 6.[2] Date & Start Time: 04-04-17/1323	Wednesday 6.[2] Date & Start Time: 04-05-17/1300	Thursday 6.[2] Date & Start Time: 04-06-17/1300	Friday 6.[2]Date & Start Time: 04-07-17/1300	Saturday 6.[2] Date & Start Time: 04-08-17/1300	Sunday 6.[2] Date & Start Time: 04-09-17/1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 1: 52.9 °F	Cell 1: 47.9 °F	Cell 1: 53.4 °F	Cell 1: 53.5 °F	Cell 1: 56.9 °F	Cell 1: 57.3 °F	Cell 1: 57.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: 39.0 °F	Refrig.: 34.0 °F	Refrig.: 36.9 °F	Refrig.: 37.9 °F	Refrig.: 37.6 °F	Refrig.: 37.7 °F	Refrig.: 37.0 °F
(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
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ® N/A	38.5	① ② ③ ® N/A	35.1	① ② ③ ® N/A	35.7	① ② ③ ® N/A	36.1	① ② ③ ® N/A	37.1	① ② ③ ® N/A	35.8	① ② ③ ® N/A	35.7
68540	① ② ③ ® N/A	37.9	① ② ③ ® N/A	34.8	① ② ③ ® N/A	35.4	① ② ③ ® N/A	35.9	① ② ③ ® N/A	36.0	① ② ③ ® N/A	36.5	① ② ③ ® N/A	35.6
68553	① ② ③ ® N/A	37.3	① ② ③ ® N/A	33.3	① ② ③ ® N/A	35.8	① ② ③ ® N/A	36.0	① ② ③ ® N/A	36.1	① ② ③ ® N/A	36.4	① ② ③ ® N/A	35.7
69445	① ② ③ ® N/A	37.7	① ② ③ ® N/A	35.1	① ② ③ ® N/A	36.4	① ② ③ ® N/A	36.7	① ② ③ ® N/A	37.3	① ② ③ ® N/A	37.0	① ② ③ ® N/A	37.1

WORKING COPY
Z# 169840
INITIAL [illegible] DATE 04-03-17

ATTACHMENT 2
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
69618	① ② ③ ® N/A	51.8	① ② ③ ® N/A	34.5	① ② ③ ® N/A	35.4	① ② ③ ® N/A	37.0	① ② ③ ® N/A	35.7	① ② ③ ® N/A	37.0	① ② ③ ® N/A	35.9
69013	① ② ③ ® N/A	50.3	① ② ③ ® N/A	48.2	① ② ③ ® N/A	52.4	① ② ③ ® N/A	54.6	① ② ③ ® N/A	56.0	① ② ③ ® N/A	56.9	① ② ③ ® N/A	55.5
69490	① ② ③ ® N/A	51.4	① ② ③ ® N/A	48.8	① ② ③ ® N/A	52.1	① ② ③ ® N/A	54.6	① ② ③ ® N/A	54.6	① ② ③ ® N/A	56.5	① ② ③ ® N/A	55.4
69076	① ② ③ ® N/A	50.9	① ② ③ ® N/A	48.5	① ② ③ ® N/A	52.0	① ② ③ ® N/A	54.2	① ② ③ ® N/A	55.8	① ② ③ ® N/A	57.1	① ② ③ ® N/A	55.2
69280	① ② ③ ® N/A	52.1	① ② ③ ® N/A	51.0	① ② ③ ® N/A	53.0	① ② ③ ® N/A	54.3	① ② ③ ® N/A	35.7	① ② ③ ® N/A	36.6	① ② ③ ® N/A	36.3
69208	① ② ③ ® N/A	51.3	① ② ③ ® N/A	35.6	① ② ③ ® N/A	35.6	① ② ③ ® N/A	37.1	① ② ③ ® N/A	36.4	① ② ③ ® N/A	37.1	① ② ③ ® N/A	36.4
69079	① ② ③ ® N/A	51.4	① ② ③ ® N/A	48.9	① ② ③ ® N/A	36.3	① ② ③ ® N/A	37.8	① ② ③ ® N/A	37.9	① ② ③ ® N/A	37.7	① ② ③ ® N/A	37.1
69636	① ② ③ ® N/A	51.7	① ② ③ ® N/A	48.7	① ② ③ ® N/A	52.9	① ② ③ ® N/A	55.3	① ② ③ ® N/A	55.6	① ② ③ ® N/A	57.2	① ② ③ ® N/A	54.4
69616	① ② ③ ® N/A	52.3	① ② ③ ® N/A	49.1	① ② ③ ® N/A	52.1	① ② ③ ® N/A	54.4	① ② ③ ® N/A	55.5	① ② ③ ® N/A	57.3	① ② ③ ® N/A	55.3
69417	N/A	51.1 04-03-17	N/A		N/A		N/A		N/A		N/A		N/A	
69620	① ② ③ ® N/A	51.1	① ② ③ ® N/A	48.8	① ② ③ ® N/A	52.4	① ② ③ ® N/A	55.5	① ② ③ ® N/A	55.6	① ② ③ ® N/A	57.6	① ② ③ ® N/A	55.1
69520	① ② ③ ® N/A	51.7	① ② ③ ® N/A	48.6	① ② ③ ® N/A	52.5	① ② ③ ® N/A	54.4	① ② ③ ® N/A	55.2	① ② ③ ® N/A	56.2	① ② ③ ® N/A	54.7
69641	① ② ③ ® N/A	51.0	① ② ③ ® N/A	48.8	① ② ③ ® N/A	52.1	① ② ③ ® N/A	54.2	① ② ③ ® N/A	55.9	① ② ③ ® N/A	57.6	① ② ③ ® N/A	54.9
69298	① ② ③ ® N/A	51.7	① ② ③ ® N/A	48.8	① ② ③ ® N/A	52.0	① ② ③ ® N/A	54.3	① ② ③ ® N/A	55.3	① ② ③ ® N/A	56.2	① ② ③ ® N/A	55.0
92669	① ② ③ ® N/A	50.9	① ② ③ ® N/A	48.6	① ② ③ ® N/A	35.4	① ② ③ ® N/A	37.4	① ② ③ ® N/A	35.5	① ② ③ ® N/A 4-3-17	37.3	① ② ③ ® N/A	36.8
End Time (6.[16])	1422		1329		1306		1306		1305		1305		1304	
Initial (6.[16])	WO: [illegible] WO: [illegible]		WO: FA WO: FA		WO: FA WO: EP		WO: FA WO: FA		WO: [illegible] WO: FA		WO: [illegible] WO: FA		WO: [illegible] WO: FA	

ATTACHMENT 2
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	174977	04-03-17
Juan Garcia		169840	04-03-17
Fabian Anaya	Fabian Anaya	174963	04-04-17
Tina Aguirre	Tina Aguirre	174977	04-04-17
Fabian Anaya	Fabian Anaya	174963	04-05-17
Edward Pacheco	Edward Pacheco	100497	04-05-17
Fabian Anaya	Fabian Anaya	174963	04-06-17
Tina Aguirre	Tina Aguirre	174977	04-06-17
Leon Montoya		191526	04-07-17
Fabian Anaya	Fabian Anaya	174963	04-07-17
Leon Montoya		191526	04-08-17
Fabian Anaya	Fabian Anaya	174963	04-08-17
Leon Montoya		191526	04-09-17
Fabian Anaya	Fabian Anaya	174963	04-09-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 04-03-17/1423	Tuesday 6.[2] Date & Start Time: 04-04-17/1330	Wednesday 6.[2] Date & Start Time: 04-05-17/1307	Thursday 6.[2] Date & Start Time: 04-06-17/1306	Friday 6.[2] Date & Start Time: 04-07-17/1306	Saturday 6.[2] Date & Start Time: 04-08-17/1306	Sunday 6.[2] Date & Start Time: 04-09-17/1305
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 2: 51.4 °F	Cell 2: 48.6 °F	Cell 2: 51.7 °F	Cell 2: 54.3 °F	Cell 2: 56.2 °F	Cell 2: 58.2 °F	Cell 2: 55.2 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ② ③ ® N/A	51.5	① ② ③ ® N/A	48.2	① ② ③ ® N/A	51.4	① ② ③ ® N/A	53.3	① ② ③ ® N/A	56.0	① ② ③ ® N/A	58.2	① ② ③ ® N/A	55.2
68638	① ② ③ ® N/A	51.0	① ② ③ ® N/A	48.1	① ② ③ ® N/A	51.3	① ② ③ ® N/A	53.8	① ② ③ ® N/A	35.8	① ② ③ ® N/A	37.6	① ② ③ ® N/A	37.7
69615	① ② ③ ® N/A	50.8	① ② ③ ® N/A	48.5	① ② ③ ® N/A	52.1	① ② ③ ® N/A	54.4	① ② ③ ® N/A	54.9	① ② ③ ® N/A	57.1	① ② ③ ® N/A	55.2
69635	① ② ③ ® N/A	51.4	① ② ③ ® N/A	48.7	① ② ③ ® N/A	51.3	① ② ③ ® N/A	53.9	① ② ③ ® N/A	55.7	① ② ③ ® N/A	57.6	① ② ③ ® N/A	55.7
69642	① ② ③ ® N/A	50.7	① ② ③ ® N/A	48.3	① ② ③ ® N/A	51.9	① ② ③ ® N/A	54.4	① ② ③ ® N/A	55.1	① ② ③ ® N/A	57.8	① ② ③ ® N/A	54.7
69630	① ② ③ ® N/A	50.4	① ② ③ ® N/A	48.2	① ② ③ ® N/A	51.2	① ② ③ ® N/A	53.9	① ② ③ ® N/A	55.2	① ② ③ ® N/A	57.7	① ② ③ ® N/A	54.8
69633	① ② ③ ® N/A	50.7	① ② ③ ® N/A	48.7	① ② ③ ® N/A	50.9	① ② ③ ® N/A	53.5	① ② ③ ® N/A	54.8	① ② ③ ® N/A	56.7	① ② ③ ® N/A	55.5
68430	① ② ③ ® N/A	50.6	① ② ③ ® N/A	48.3	① ② ③ ® N/A	50.6	① ② ③ ® N/A	53.0	① ② ③ ® N/A	55.3	① ② ③ ® N/A	57.6	① ② ③ ® N/A	54.8
68631	① ② ③ ® N/A	50.5	① ② ③ ® N/A	48.2	① ② ③ ® N/A	51.7	① ② ③ ® N/A	53.8	① ② ③ ® N/A	54.9	① ② ③ ® N/A	57.0	① ② ③ ® N/A	56.0
69634	① ② ③ ® N/A	50.9	① ② ③ ® N/A	48.2	① ② ③ ® N/A	50.1	① ② ③ ® N/A	52.7	① ② ③ ® N/A	56.0	① ② ③ ® N/A	57.5	① ② ③ ® N/A	55.2

ATTACHMENT 3
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
68567	① ✓ ③ ® N/A	50.8	① ✓ ③ ® N/A	48.3	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	53.4	① ✓ ③ ® N/A	55.4	① ✓ ③ ® N/A	57.7	① ✓ ③ ® N/A	55.4
94227	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	48.2	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	52.9	① ✓ ③ ® N/A	55.3	① ✓ ③ ® N/A	57.8	① ✓ ③ ® N/A	54.5
68648	① ✓ ③ ® N/A	51.6	① ✓ ③ ® N/A	48.1	① ✓ ③ ® N/A	51.0	① ✓ ③ ® N/A	52.9	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	56.8	① ✓ ③ ® N/A	54.9
69644	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	48.2	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	52.7	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	54.4
69183	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	48.4	① ✓ ③ ® N/A	50.4	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	54.8	① ✓ ③ ® N/A	56.8	① ✓ ③ ® N/A	55.2
69638	① ✓ ③ ® N/A	51.8	① ✓ ③ ® N/A	48.3	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	57.4	① ✓ ③ ® N/A	54.4
68624	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	51.2	① ✓ ③ ® N/A	53.3	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	56.3	① ✓ ③ ® N/A	54.8
68507	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	47.9	① ✓ ③ ® N/A	50.3	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	56.8	① ✓ ③ ® N/A	54.5
69568	① ✓ ③ ® N/A	50.4	① ✓ ③ ® N/A	48.5	① ✓ ③ ® N/A	50.2	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	54.8	① ✓ ③ ® N/A	56.6	① ✓ ③ ® N/A	55.2
69553	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	50.0	① ✓ ③ ® N/A	49.9	① ✓ ③ ® N/A	52.6	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	54.5
69598	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	48.0	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	53.1	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	56.9	① ✓ ③ ® N/A	55.1
92472	① ✓ ③ ® N/A	50.7	① ✓ ③ ® N/A	48.3	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	52.7	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	56.8	① ✓ ③ ® N/A	54.5
92459	① ✓ ③ ® N/A	51.1	① ✓ ③ ® N/A	48.0	① ✓ ③ ® N/A	50.5	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	56.6	① ✓ ③ ® N/A	54.6
69015	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	48.2	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	53.2	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	56.9	① ✓ ③ ® N/A	54.3
69639	① ✓ ③ ® N/A	50.4	① ✓ ③ ® N/A	48.4	① ✓ ③ ® N/A	50.6	① ✓ ③ ® N/A	53.0	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	56.4	① ✓ ③ ® N/A	54.7
69637	① ✓ ③ ® N/A	50.9	① ✓ ③ ® N/A	48.3	① ✓ ③ ® N/A	51.6	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	55.6	① ✓ ③ ® N/A	57.0	① ✓ ③ ® N/A	54.5
End Time (6.[16])	1429		1335		1314		1311		1312		1313		1311	
Initial (6.[16])	WO: DA WO: [illegible]		WO: FA WO: DA		WO: FA WO: EP		WO: FA WO: [illegible]		WO: LM WO: FA		WO: LM WO: FA		WO: LM WO: FA	

ATTACHMENT 3
Page 3 of 3

Comments:

6.[19] Performed by

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	174977	04-03-17
Juan Garcia		169840	04-03-17
Fabian Anaya	Fabian Anaya	174963	04-04-17
Tina Aguirre	Tina Aguirre	174977	04-04-17
Fabian Anaya	Fabian Anaya	174963	04-05-17
Edward Pacheco	Edward Pacheco	100497	04-05-17
Fabian Anaya	Fabian Anaya	174963	04-06-17
Tina Aguirre	Tina Aguirre	174977	04-06-17
Leon Montoya		191526	04-07-17
Fabian Anaya	Fabian Anaya	174963	04-07-17
Leon Montoya		191526	04-08-17
Fabian Anaya	Fabian Anaya	174963	04-08-17
Leon Montoya		191526	04-09-17
Fabian Anaya	Fabian Anaya	174963	04-09-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 04-03-17/1430	Tuesday 6.[2] Date & Start Time: 04-04-17/1335	Wednesday 6.[2] Date & Start Time: 04-05-17/1315	Thursday 6.[2] Date & Start Time: 04-06-17/1311	Friday 6.[2] Date & Start Time: 04-07-17/1313	Saturday 6.[2] Date & Start Time: 04-08-17/1314	Sunday 6.[2] Date & Start Time: 04-09-17/1312
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868
Ambient Temperature (6.[4])	Cell 3: 51.0 °F	Cell 3: 47.5 °F	Cell 3: 50.3 °F	Cell 3: 53.0 °F	Cell 3: 55.1 °F	Cell 3: 56.6 °F	Cell 3: 54.0 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
69519	① ② ③ ® N/A	49.5	① ② ③ ® N/A	48.2	① ② ③ ® N/A	49.3	① ② ③ ® N/A	51.6	① ② ③ ® N/A	53.4	① ② ③ ® N/A	54.8	① ② ③ ® N/A	52.9
69645	① ② ③ ® N/A	49.5	① ② ③ ® N/A	47.7	① ② ③ ® N/A	49.1	① ② ③ ® N/A	50.5	① ② ③ ® N/A	51.5	① ② ③ ® N/A	53.3	① ② ③ ® N/A	51.4
94068	① ② ③ ® N/A	50.2	① ② ③ ® N/A	48.2	① ② ③ ® N/A	50.2	① ② ③ ® N/A	50.7	① ② ③ ® N/A	51.8	① ② ③ ® N/A	54.3	① ② ③ ® N/A	52.0
93605	① ② ③ ® N/A	49.8	① ② ③ ® N/A	48.3	① ② ③ ® N/A	49.8	① ② ③ ® N/A	51.6	① ② ③ ® N/A	51.9	① ② ③ ® N/A	54.5	① ② ③ ® N/A	52.2
69548	① ② ③ ® N/A	49.5	① ② ③ ® N/A	48.4	① ② ③ ® N/A	50.3	① ② ③ ® N/A	51.5	① ② ③ ® N/A	53.7	① ② ③ ® N/A	55.0	① ② ③ ® N/A	53.6

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 3 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
69604	① ② ③ ® N/A	50.2	① ② ③ ® N/A	48.2	① ② ③ ® N/A	49.8	① ② ③ ® N/A	51.2	① ② ③ ® N/A	53.0	① ② ③ ® N/A	55.0	① ② ③ ® N/A	53.2
68665	① ② ③ ® N/A	49.2	① ② ③ ® N/A	48.1	① ② ③ ® N/A	49.8	① ② ③ ® N/A	51.1	① ② ③ ® N/A	53.0	① ② ③ ® N/A	55.1	① ② ③ ® N/A	52.5
69595	① ② ③ ® N/A	49.6	① ② ③ ® N/A	47.0	① ② ③ ® N/A	49.4	① ② ③ ® N/A	52.0	① ② ③ ® N/A	52.7	① ② ③ ® N/A	55.0	① ② ③ ® N/A	52.8
69036	① ② ③ ® N/A	51.1	① ② ③ ® N/A	46.9	① ② ③ ® N/A	50.0	① ② ③ ® N/A	51.9	① ② ③ ® N/A	53.7	① ② ③ ® N/A	56.1	① ② ③ ® N/A	53.2
69361	① ② ③ ® N/A	49.8	① ② ③ ® N/A	47.3	① ② ③ ® N/A	49.8	① ② ③ ® N/A	52.0	① ② ③ ® N/A	53.4	① ② ③ ® N/A	55.8	① ② ③ ® N/A	53.5
69559	① ② ③ ® N/A	49.9	① ② ③ ® N/A	48.1	① ② ③ ® N/A	50.1	① ② ③ ® N/A	51.5	① ② ③ ® N/A	53.4	① ② ③ ® N/A	56.8	① ② ③ ® N/A	53.4
69491	① ② ③ ® N/A	50.0	① ② ③ ® N/A	47.9	① ② ③ ® N/A	51.1	① ② ③ ® N/A	52.1	① ② ③ ® N/A	53.7	① ② ③ ® N/A	55.7	① ② ③ ® N/A	52.7
87827	① ② ③ ® N/A	50.8	① ② ③ ® N/A	48.0	① ② ③ ® N/A	50.5	① ② ③ ® N/A	53.0	① ② ③ ® N/A	54.6	① ② ③ ® N/A	57.0	① ② ③ ® N/A	54.7
87826	① ② ③ ® N/A	50.3	① ② ③ ® N/A	48.2	① ② ③ ® N/A	50.5	① ② ③ ® N/A	52.4	① ② ③ ® N/A	54.1	① ② ③ ® N/A	57.4	① ② ③ ® N/A	54.2
87823	① ② ③ ® N/A	51.2	① ② ③ ® N/A	46.7	① ② ③ ® N/A	52.2	① ② ③ ® N/A	54.0	① ② ③ ® N/A	55.7	① ② ③ ® N/A	57.9	① ② ③ ® N/A	56.7
87825	① ② ③ ® N/A	51.2	① ② ③ ® N/A	46.2	① ② ③ ® N/A	51.2	① ② ③ ® N/A	55.1	① ② ③ ® N/A	57.8	① ② ③ ® N/A	60.9	① ② ③ ® N/A	57.3
End Time (6.[16])	1434		1339		1322		1315		1320		1321		1319	
Initial (6.[16])	WO: [illegible] WO: [illegible]		WO: FA WO: [illegible]		WO: FA WO: EP		WO: FA WO: [illegible]		WO: LM WO: FA		WO: LM WO: FA		WO: LM WO: FA	

ATTACHMENT 4
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Tina Aguirre	Tina Aguirre	174977	04-03-17
Ivan Garcia	Ivan Garcia	189840	04-03-17
Fabian Anaya	Fabian Anaya	174963	04-04-17
Tina Aguirre	Tina Aguirre	174977	04-04-17
Fabian Anaya	Fabian Anaya	174963	04-05-17
Edward Pacheco	Edward Pacheco	160497	04-05-17
Fabian Anaya	Fabian Anaya	174963	04-06-17
Tina Aguirre	Tina Aguirre	174977	04-06-17
Leon Montoya		191526	04-07-17
Fabian Anaya	Fabian Anaya	174963	04-07-17
Leon Montoya		191526	04-08-17
Fabian Anaya	Fabian Anaya	174963	04-08-17
Leon Montoya		191526	04-09-17
Fabian Anaya	Fabian Anaya	174963	04-09-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

WORKING COPY
Z# 1749277
INITIAL SA DATE 04-10-17

ATTACHMENT 2
Page 1 of 3

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

NOTE 1 *Drum 69417 is no longer considered a RNS drum by LANL or NMED.*
NOTE 2 ① = Cell 1; ② = Cell 2; ③ = Cell 3; ® = refrigerator; N/A – removed from Perma-Con and refrigerator

	Monday 6.[2] Date & Start Time: 04-10-17/1326	Tuesday 6.[2] Date & Start Time: 04-11-17/1318	Wednesday 6.[2] Date & Start Time: 04-12-17/1350	Thursday 6.[2] Date & Start Time: 04-13-17/1314	Friday 6.[2] Date & Start Time: 04/14/17/1308	Saturday 6.[2] Date & Start Time: 04-15-17/1309	Sunday 6.[2] Date & Start Time: 04-16-17/1300
TA-54-0375 Cell 1							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 3-21-18 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 03-21-18 File Number 104841
Ambient Temperature (6.[4])	Cell 1: 59.4 °F	Cell 1: 57.1 °F	Cell 1: 60.9 °F	Cell 1: 59.2 °F	Cell 1: 60.5 °F	Cell 1: 59.8 °F	Cell 1: 59.6 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Ambient Temperature (6.[7])	Refrig.: 39.0 °F	Refrig.: 35.8 °F	Refrig.: 37.4 °F	Refrig.: 35.8 °F	Refrig.: 37.8 °F	Refrig.: 37.3 °F	Refrig.: 37.1 °F
($) 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
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68685	① ② ③ ● N/A	37.2	① ② ③ ● N/A	35.9	① ② ③ ● N/A	36.3	① ② ③ ● N/A	36.4	① ② ③ ● N/A	36.2	① ② ③ ● N/A	38.5	① ② ③ ● N/A	36.8
68540	① ② ③ ● N/A	35.8	① ② ③ ● N/A	34.8	① ② ③ ● N/A	35.0	① ② ③ ● N/A	36.5	① ② ③ ● N/A	35.3	① ② ③ ● N/A	35.8	① ② ③ ● N/A	35.3
68553	① ② ③ ● N/A	36.4	① ② ③ ● N/A	34.4	① ② ③ ● N/A	35.3	① ② ③ ● N/A	37.4	① ② ③ ● N/A	35.2	① ② ③ ● N/A	36.7	① ② ③ ● N/A	36.7
69445	① ② ③ ● N/A	37.6	① ② ③ ● N/A	35.6	① ② ③ ● N/A	35.8	① ② ③ ● N/A	36.3	① ② ③ ● N/A	36.2	① ② ③ ● N/A	37.6	① ② ③ ● N/A	37.2

ATTACHMENT 2

Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 1 (continued)														
69618	① ② ③ ● N/A	35.3	① ② ③ ● N/A	35.1	① ② ③ ● N/A	35.3	① ② ③ ● N/A	36.0	① ② ③ ● N/A	35.9	① ② ③ ● N/A	36.9	① ② ③ ● N/A	36.2
69013	✓ ② ③ ® N/A	55.7	✓ ② ③ ® N/A	54.1	✓ ② ③ ® N/A	58.3	✓ ② ③ ® N/A	57.9	● ② ③ ® N/A	58.5	● ② ③ ® N/A	56.7	● ② ③ ® N/A	57.6
69490	✓ ② ③ ® N/A	58.3	✓ ② ③ ® N/A	53.7	✓ ② ③ ® N/A	57.6	✓ ② ③ ® N/A	58.3	● ② ③ ® N/A	57.5	● ② ③ ® N/A	56.2	● ② ③ ® N/A	58.1
69076	✓ ② ③ ® N/A	56.0	✓ ② ③ ® N/A	54.2	✓ ② ③ ® N/A	57.4	✓ ② ③ ® N/A	57.7	● ② ③ ® N/A	58.4	● ② ③ ® N/A	58.4	● ② ③ ® N/A	56.5
69280	① ② ③ ● N/A	34.6	① ② ③ ● N/A	34.5	① ② ③ ● N/A	35.2	① ② ③ ● N/A	34.8	① ② ③ ● N/A	36.5	① ② ③ ● N/A	~~36.2~~ 36.6 4/19/17	① ② ③ ● N/A	36.3
69208	① ② ③ ● N/A	36.7	① ② ③ ● N/A	36.2	① ② ③ ● N/A	35.5	① ② ③ ● N/A	36.0	① ② ③ ● N/A	37.4	① ② ③ ● N/A	38.1	① ② ③ ● N/A	37.5
69079	① ② ③ ● N/A	37.8	① ② ③ ● N/A	35.0	① ② ③ ● N/A	35.8	① ② ③ ● N/A	36.0	① ② ③ ● N/A	37.5	① ② ③ ● N/A	37.5	① ② ③ ● N/A	37.0
69636	✓ ② ③ ® N/A	55.8	✓ ② ③ ® N/A	54.1	✓ ② ③ ® N/A	57.1	✓ ② ③ ® N/A	58.0	● ② ③ ® N/A	59.0	● ② ③ ® N/A	57.7	● ② ③ ® N/A	57.4
69616	✓ ② ③ ® N/A	55.7	✓ ② ③ ® N/A	54.1	✓ ② ③ ® N/A	57.5	✓ ② ③ ® N/A	58.3	● ② ③ ® N/A	58.0	● ② ③ ® N/A	56.8	● ② ③ ® N/A	57.6
69417	N/A		N/A		N/A		N/A		N/A		N/A		N/A	
69620	✓ ② ③ ® N/A	55.5	✓ ② ③ ® N/A	53.8	✓ ② ③ ® N/A	58.1	✓ ② ③ ® N/A	59.0	● ② ③ ® N/A	57.5	● ② ③ ® N/A	57.8	● ② ③ ® N/A	57.3
69520	✓ ② ③ ® N/A	55.3	✓ ② ③ ® N/A	53.6	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	57.7	● ② ③ ® N/A	58.3	● ② ③ ® N/A	56.9	● ② ③ ® N/A	57.3
69641	✓ ② ③ ® N/A	55.6	✓ ② ③ ® N/A	54.0	✓ ② ③ ® N/A	57.4	✓ ② ③ ® N/A	57.9	● ② ③ ® N/A	57.7	● ② ③ ® N/A	58.7	● ② ③ ® N/A	57.7
69298	✓ ② ③ ® N/A	55.1	✓ ② ③ ® N/A	53.4	✓ ② ③ ® N/A	57.2	✓ ② ③ ® N/A	57.5	● ② ③ ® N/A	58.2	● ② ③ ® N/A	55.8	● ② ③ ® N/A	56.4
92669	① ② ③ ● N/A	34.9	① ② ③ ● N/A	35.0	① ② ③ ● N/A	35.6	① ② ③ ● N/A	35.5	① ② ③ ● N/A	37.0	① ② ③ ● N/A	37.6	● ② ③ ® N/A	36.5
End Time (6.[16])	1333		1325		1356		1320		1316		1315		1307	
Initial (6.[16])	WO: LM WO: QA		WO: LM WO: QA		WO: LM WO: QA		WO: LM WO: QA		WO: VOM WO: [illegible]		WO: VOM WO: [illegible]		WO: VOM WO: [illegible]	

ATTACHMENT 2
Page 3 of 3

Comments: No comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	04-10-17
Tina Aguirre		174977	04-10-17
Leon Montoya		191526	04-11-17
Tina Aguirre		174977	04-11-17
Leon Montoya		191526	04-12-17
Tina Aguirre		174977	04-12-17
Leon Montoya		191526	04-13-17
Tina Aguirre		174977	04-13-17
Valerie Martinez		239958	04-14-17
Juan Garcia		169840	04-14-17
Valerie Martinez		239958	04-15-17
Juan Garcia		169840	04-15-17
Valerie Martinez		239958	04-16-17
Juan Garcia		169840	04-16-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 3
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 04-10-17/1333	Tuesday 6.[2] Date & Start Time: 04-11-17/1325	Wednesday 6.[2] Date & Start Time: 04-12-17/1357	Thursday 6.[2] Date & Start Time: 04-13-17/1320	Friday 6.[2] Date & Start Time: 04-14-17/1316	Saturday 6.[2] Date & Start Time: 04-15-17/1315	Sunday 6.[2] Date & Start Time: 04-16-17/1307
TA-54-0375 Cell 2							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number 103868	Brand: Fluke Model: 561 Cal. Due Date: 03-21-18 File Number 104841	Brand: Fluke Model: 561 Cal. Due Date: 03-21-18 File Number 104841
Ambient Temperature (6.[4])	Cell 2: 55.5 °F	Cell 2: 55.2 °F	Cell 2: 58.5 °F	Cell 2: 58.4 °F	Cell 2: 60.1 °F	Cell 2: 60.0 °F	Cell 2: 59.8 °F
(S) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
68408	① ✓ ③ ® N/A	56.2	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	58.5	① ✓ ③ ® N/A	58.5	① ● ③ ® N/A	59.4	① ● ③ ® N/A	59.1	① ● ③ ® N/A	58.2
68638	① ② ③ ● N/A	38.4	① ② ③ ● N/A	36.0	① ② ③ ● N/A	34.9	① ② ③ ● N/A	35.5	① ② ③ ● N/A	37.4	① ② ③ ● N/A	37.9	① ② ③ ● N/A	37.3
69615	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	58.6	① ✓ ③ ® N/A	58.4	① ● ③ ® N/A	59.6	① ● ③ ® N/A	58.3	① ● ③ ® N/A	57.7
69635	① ✓ ③ ® N/A	55.5	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	58.6	① ✓ ③ ® N/A	58.0	① ● ③ ® N/A	58.1	① ● ③ ® N/A	56.8	① ● ③ ® N/A	57.5
69642	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	57.9	① ✓ ③ ® N/A	57.7	① ● ③ ® N/A	57.4	① ● ③ ® N/A	58.1	① ● ③ ® N/A	57.5
69630	① ✓ ③ ® N/A	54.9	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	58.2	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	58.6	① ● ③ ® N/A	57.7	① ● ③ ® N/A	57.2
69633	① ✓ ③ ® N/A	55.3	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	58.4	① ✓ ③ ® N/A	57.9	① ● ③ ® N/A	58.2	① ● ③ ® N/A	58.0	① ● ③ ® N/A	57.5
68430	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	53.9	① ✓ ③ ® N/A	57.9	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	58.1	① ● ③ ® N/A	57.0	① ● ③ ® N/A	56.2
68631	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	58.5	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	57.8	① ● ③ ® N/A	57.8	① ● ③ ® N/A	57.4
69634	① ✓ ③ ® N/A	55.0	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	58.3	① ✓ ③ ® N/A	57.8	① ● ③ ® N/A	57.8	① ● ③ ® N/A	57.3	① ● ③ ® N/A	57.5

ATTACHMENT 3

Page 2 of 3

	Monday 6.[2]		Tuesday 6.[2]		Wednesday 6.[2]		Thursday 6.[2]		Friday 6.[2]		Saturday 6.[2]		Sunday 6.[2]	
TA-54-0375 Cell 2 (continued)														
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**													
68567	① ✓ ③ ® N/A	55.2	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	58.8	① ✓ ③ ® N/A	57.9	① ● ③ ® N/A	58.8	① ● ③ ® N/A	60.3	① ● ③ ® N/A	57.4
94227	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	58.5	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	58.3	① ● ③ ® N/A	57.9	① ● ③ ® N/A	56.6
68648	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	53.5	① ✓ ③ ® N/A	58.4	① ✓ ③ ® N/A	57.3	① ● ③ ® N/A	57.6	① ● ③ ® N/A	56.3	① ● ③ ® N/A	56.9
69644	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	54.0	① ✓ ③ ® N/A	58.3	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	58.0	① ● ③ ® N/A	56.4	① ● ③ ® N/A	57.8
69183	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	53.7	① ✓ ③ ® N/A	57.8	① ✓ ③ ® N/A	57.2	① ● ③ ® N/A	58.2	① ● ③ ® N/A	57.7	① ● ③ ® N/A	57.3
69638	① ✓ ③ ® N/A	54.9	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	59.0	① ✓ ③ ® N/A	57.7	① ● ③ ® N/A	58.5	① ● ③ ® N/A	57.7	① ● ③ ® N/A	57.6
68624	① ✓ ③ ® N/A	53.4	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	59.1	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	58.4	① ● ③ ® N/A	57.5	① ● ③ ® N/A	56.8
68507	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	54.1	① ✓ ③ ® N/A	58.1	① ✓ ③ ® N/A	57.0	① ● ③ ® N/A	57.2	① ● ③ ® N/A	57.4	① ● ③ ® N/A	57.0
69568	① ✓ ③ ® N/A	54.5	① ✓ ③ ® N/A	53.8	① ✓ ③ ® N/A	58.3	① ✓ ③ ® N/A	56.8	① ● ③ ® N/A	57.5	① ● ③ ® N/A	57.5	① ● ③ ® N/A	57.1
69553	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	58.4	① ✓ ③ ® N/A	57.1	① ● ③ ® N/A	57.8	① ● ③ ® N/A	58.0	① ● ③ ® N/A	57.9
69598	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	57.4	① ✓ ③ ® N/A	57.6	① ● ③ ® N/A	59.0	① ● ③ ® N/A	58.9	① ● ③ ® N/A	57.0
92472	① ✓ ③ ® N/A	54.7	① ✓ ③ ® N/A	54.4	① ✓ ③ ® N/A	57.7	① ✓ ③ ® N/A	57.3	① ● ③ ® N/A	57.4	① ● ③ ® N/A	57.5	① ● ③ ® N/A	57.2
92459	① ✓ ③ ® N/A	55.2	① ✓ ③ ® N/A	54.6	① ✓ ③ ® N/A	58.5	① ✓ ③ ® N/A	57.5	① ● ③ ® N/A	57.8	① ● ③ ® N/A	57.4	① ● ③ ® N/A	56.4
69015	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	53.6	① ✓ ③ ® N/A	57.1	① ✓ ③ ® N/A	56.5	① ● ③ ® N/A	57.3	① ● ③ ® N/A	58.3	① ● ③ ® N/A	57.2
69639	① ✓ ③ ® N/A	54.8	① ✓ ③ ® N/A	54.3	① ✓ ③ ® N/A	58.3	① ✓ ③ ® N/A	57.1	① ● ③ ® N/A	57.7	① ● ③ ® N/A	57.8	① ● ③ ® N/A	57.1
69637	① ✓ ③ ® N/A	55.1	① ✓ ③ ® N/A	54.2	① ✓ ③ ® N/A	58.8	① ✓ ③ ® N/A	57.9	① ● ③ ® N/A	58.1	① ● ③ ® N/A	56.1	① ● ③ ® N/A	57.3
End Time (6.[16])	1338		1330		1402		1325		1320		1318		1310	
Initial (6.[16])	WO: LM WO: QA		WO: LM WO: QA		WO: LM WO: QA		WO: LM WO: QA		WO: YM WO: [signature]		WO: YM WO: [signature]		WO: YM WO: [signature]	

ATTACHMENT 3
Page 3 of 3

Comments:
No comments

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	04-10-17
Tina Aguirre		174977	04-10-17
Leon Montoya		191526	04-11-17
Tina Aguirre		174977	04-11-17
Leon Montoya		191526	04-12-17
Tina Aguirre		174977	04-12-17
Leon Montoya		191526	04-13-17
Tina Aguirre		174977	04-13-17
Valerie Martinez		239958	04-14-17
Juan Garcia		169840	04-14-17
Valerie Martinez		239958	04-15-17
Juan Garcia		169840	04-15-17
Valerie Martinez		239958	04-16-17
Juan Garcia		169840	04-16-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date

ATTACHMENT 4
Page 1 of 3

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

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

	Monday 6.[2] Date & Start Time: 04-10-17/1338	Tuesday 6.[2] Date & Start Time: 04-11-17/1330	Wednesday 6.[2] Date & Start Time: 04-12-17/1402	Thursday 6.[2] Date & Start Time: 04-13-17/1325	Friday 6.[2] Date & Start Time: 04-14-17/1320	Saturday 6.[2] Date & Start Time: 04/15/17/1318	Sunday 6.[2] Date & Start Time: 04-16-17/1310
TA-54-0375 Cell 3							
Calibrated infrared thermometer (6.[3])	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number: 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number: 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number: 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number: 103868	Brand: Fluke Model: 561 Cal. Due Date: 12-19-17 File Number: 103868	Brand: Fluke Model: 561 Cal. Due Date: 03-21-18 File Number: 104841	Brand: Fluke Model: 561 Cal. Due Date: 03-21-18 File Number: 104841
Ambient Temperature (6.[4])	Cell 3: 53.9 °F	Cell 3: 53.5 °F	Cell 3: 60.5 °F	Cell 3: 56.7 °F	Cell 3: 57.8 °F	Cell 3: 57.4 °F	Cell 3: 57.1 °F
($) Temperature ≤ 75°F SR 4.ESS.5.1 (6.[5])	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT	☑ SAT ☐ UNSAT
Container ID #	Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)						
69519	① ② ③ ® N/A 52.7	① ② ③ ® N/A 52.1	① ② ③ ® N/A 56.6	① ② ③ ® N/A 54.8	① ② ● ® N/A 54.7	① ② ● ® N/A 55.4	① ② ● ® N/A 54.8
69645	① ② ③ ® N/A 52.0	① ② ③ ® N/A 50.8	① ② ③ ® N/A 55.7	① ② ③ ® N/A 53.5	① ② ● ® N/A 54.0	① ② ● ® N/A 53.9	① ② ● ® N/A 54.3
94068	① ② ③ ® N/A 51.4	① ② ③ ® N/A 50.9	① ② ③ ® N/A 55.5	① ② ③ ® N/A 54.4	① ② ● ® N/A 55.0	① ② ● ® N/A 54.0	① ② ● ® N/A 53.5
93605	① ② ③ ® N/A 52.3	① ② ③ ® N/A 51.9	① ② ③ ® N/A 56.8	① ② ③ ® N/A 54.7	① ② ● ® N/A 55.1	① ② ● ® N/A 55.2	① ② ● ® N/A 54.5
69548	① ② ③ ® N/A 53.5	① ② ③ ® N/A 52.9	① ② ③ ® N/A 57.8	① ② ③ ® N/A 55.7	① ② ● ® N/A 55.4	① ② ● ® N/A 55.2	① ② ● ® N/A 56.1

ATTACHMENT 4
Page 2 of 3

	Monday 6.[2]	Tuesday 6.[2]	Wednesday 6.[2]	Thursday 6.[2]	Friday 6.[2]	Saturday 6.[2]	Sunday 6.[2]
TA-54-0375 Cell 3 (continued)							
Container ID #	**Location/(&) Temp (°F) (6.[9]/6.[10]/6.[11]) (IP IV.7)**						
69604	① ② ✓ ® N/A 52.7	① ② ✓ ® N/A 52.9	① ② ✓ ® N/A 57.1	① ② ✓ ® N/A 55.8	① ② ● ® N/A 55.4	① ② ● ® N/A 55.5	① ② ● ® N/A 55.1
68665	① ② ✓ ® N/A 52.7	① ② ✓ ® N/A 52.4	① ② ✓ ® N/A 57.3	① ② ✓ ® N/A 55.5	① ② ● ® N/A 56.2	① ② ● ® N/A 54.6	① ② ● ® N/A 55.2
69595	① ② ✓ ® N/A 53.1	① ② ✓ ® N/A 52.7	① ② ✓ ® N/A 57.3	① ② ✓ ® N/A 55.6	① ② ● ® N/A 56.5	① ② ● ® N/A 55.6	① ② ● ® N/A 56.7
69036	① ② ✓ ® N/A 53.7	① ② ✓ ® N/A 52.3	① ② ✓ ® N/A 58.2	① ② ✓ ® N/A 56.0	① ② ● ® N/A 55.5	① ② ● ® N/A 56.3	① ② ● ® N/A 55.8
69361	① ② ✓ ® N/A 54.0	① ② ✓ ® N/A 53.2	① ② ✓ ® N/A 52.9	① ② ✓ ® N/A 56.4	① ② ● ® N/A 56.8	① ② ● ® N/A 56.8	① ② ● ® N/A 55.4
69559	① ② ✓ ® N/A 53.8	① ② ✓ ® N/A 53.7	① ② ✓ ® N/A 57.2	① ② ✓ ® N/A 55.6	① ② ● ® N/A 57.4	① ② ● ® N/A 55.6	① ② ● ® N/A 55.6
69491	① ② ✓ ® N/A 53.3	① ② ✓ ® N/A 53.2	① ② ✓ ® N/A 57.5	① ② ✓ ® N/A 55.7	① ② ● ® N/A 55.9	① ② ● ® N/A 55.6	① ② ● ® N/A 57.0
87827	① ② ✓ ® N/A 54.4	① ② ✓ ® N/A 54.3	① ② ✓ ® N/A 59.3	① ② ✓ ® N/A 57.2	① ② ● ® N/A 58.1	① ② ● ® N/A 56.5	① ② ● ® N/A 55.9
87826	① ② ✓ ® N/A 54.2	① ② ✓ ® N/A 54.0	① ② ✓ ® N/A 59.0	① ② ✓ ® N/A 56.6	① ② ● ® N/A 57.6	① ② ● ® N/A 56.7	① ② ● ® N/A 55.6
87823	① ② ✓ ® N/A 54.7	① ② ✓ ® N/A 54.3	① ② ✓ ® N/A 58.8	① ② ✓ ® N/A 57.3	① ② ● ® N/A 56.4	① ② ● ® N/A 55.3	① ② ● ® N/A 57.9
87825	① ② ✓ ® N/A 57.3	① ② ✓ ® N/A 57.4	① ② ✓ ® N/A 63.3	① ② ✓ ® N/A 60.7	① ② ● ® N/A 60.4	① ② ● ® N/A 60.3	① ② ● ® N/A 60.0
End Time (6.[16])	1342	1334	1406	1329	1325	1322	1314
Initial (6.[16])	WO: Lm WO: DA	WO: Lm WO: DA	WO: Lm WO: DA	WO: Lm WO: DA	WO: YM WO: [illegible]	WO: YM WO: [illegible]	WO: YM WO: [illegible]

ATTACHMENT 4
Page 3 of 3

Comments:

6.[19] Performed by:

Waste Operator (print)	Signature	Z#	Date
Leon Montoya		191526	04-10-17
Tina Aguirre		174977	04-10-17
Leon Montoya		191526	04-11-17
Tina Aguirre		174977	04-11-17
Leon Montoya		191526	04-12-17
Tina Aguirre		174977	04-12-17
Leon Montoya		191526	04-13-17
Tina Aguirre		174977	04-13-17
Valerie Martinez		239958	04-14-17
Juan Garcia		169840	04-14-17
Valerie Martinez		239958	04-15-17
Juan Garcia		169840	04-15-17
Valerie Martinez		239958	04-16-17
Juan Garcia		169840	04-16-17

10.1[2] Reviewed by:

SOM (print)	Signature	Z#	Date