From: Juarez, Catherine L
Sent: Thursday, February 18, 2016 7:49 AM
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Subject: Monthly Technical Submittal -January 21, 2016 - February 17, 2016

Linked below is the written monthly technical submittal for January 21, 2016 - February 17, 2016. Submittals are due the third Wednesday of each month. The Permittees are submitting the attached information pursuant to: Section 19 of the May 19, 2014, *Administrative Order;* the letters from NMED dated July 10, 2014, April 27, 2015, May 8, 2015 , and August 12, 2015 regarding *Modification to May 19, 2014, Administrative Order*; and Section IX of the *LANL Nitrate Salt-Bearing Waste Container Isolation Plan, Revision 4*, approved with modifications on January 14, 2016.

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

NMED monthly written submission February17, 2015.pdf

Thank you,

Cathy Juarez for
Mark Haagenstad
Environmental Protection Division
RCRA Permitting and Compliance Team Leader
Los Alamos National Security
Los Alamos National Laboratory
Office: (505) 665-2014
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NMED / LANL Technical Summary

January 21, 2016 – February 17, 2016 Participants:

- New Mexico Environment Department: Neelam Dhawan and Siona Briley.
- LANL – Los Alamos National Security: Mark Haagenstad, Luciana Vigil- Holterman, Paul Schumann, Shanon Goldberg, Lydia Martinez, Felicia Naranjo and Cathy Juarez.

LANL Technical Update:

- **Location of Nitrate Salt-Bearing Wastes**
  - Remediated nitrate salt-bearing waste containers (55 SWBs and 4 overpacked POCs).
    - All containers remain in the 375 Permacon.

- **Monitoring - Daily Temperature**
  - Temperatures are currently below 90°F.
    - Previous 27 days' temperature data attached.

- **Monitoring – Visual Inspections**
  - No abnormal conditions were observed.

- **Monitoring – headspace gas (HSG)**
  - Containers (SWBs) 68685 and SB50522 continue daily head space gas (HSG) sample collection.
    - January 21, 2016 – February 16, 2016 HSG data (H_2, CO, CO_2 and N_2O) attached.
  - Other containers:
    - A minimum of once per month HSG sampling will be conducted.
      - Through February 16, 2016, LANL has completed HSG sampling for the month on 51 containers.
        - February 1, 2, 3, 9, 10 and 16, 2016 HSG data (H_2, CO, CO_2 and N_2O) attached.

- **Additional measures currently underway**
  - Twice-weekly HSG sample collection on five other SWB overpacks (containing 55-gallon drums of remediated nitrate salt-bearing waste).
    - January 21, 25 and 28, 2016 and February 1, 4, 8, 11 and 15, 2016 HSG data (H_2, CO, CO_2 and N_2O) attached.
  - Graphical depictions of HSG data are attached for the two containers required to be sampled daily and the five other SWB overpacks that are currently sampled twice weekly as additional measures.
    - CO_2 values are adjusted by the quantity of CO_2 in the field blank (i.e., the amount of CO_2 in the air when the sample is taken is subtracted from the CO_2 reading within the container). No other adjustments are made to the data.

- **Anticipated Changes to Nitrate Salt-Bearing Waste Containers (e.g. movement, re-packaging)**
    - Currently, no further movements or re-packaging are occurring.

Other:

- Due to a change in the requirements for security reviews for technical information, HSG and temperature data for each month will be provided through the day before the monthly technical phone call, rather than the day of the phone call. This is so that a draft of the monthly submittal can be placed through security review.
- On February 1, 2016 daily temperature measurements were collected in the morning rather than the standard practice of temperature measurement collection in the afternoon due to a LANL closure for inclement weather.
- On February 11, 2016 the Permittees notified NMED personnel via phone and electronic mail that a delay of notification occurred for the Permittees receipt of corrected manifests from Waste Control Specialists (WCS). Section II.11 of the LANL Nitrate Salt-Bearing Waste Isolation Plan, Revision 4, requires these types of correspondence to be provided to NMED within 15 business days of receipt. The notification was due to the NMED no later than February 2, 2016.

Next Call: Wednesday, March 16, 2016

Summary Chart - Requested Information / Pending Issues:

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

	Requested Information	Actionee	Status	Completion Date
12.	Follow-up with Tim Hall regarding LANL Hazardous Waste Facility Permit and procedures that LANL is developing for possible future sampling of empty parent containers and unremediated nitrate salt-bearing containers at LANL.	LANL	---	Complete Empty Parent June 16, 2014 Unremediated August 14, 2014 (Supplemental information discussed on sampling of parent containers) August 26, 2014 (Letter on applicability of LANL HWFP for opening waste containers)

	Requested Information	Actionee	Status	Completion Date
13.	Respond to NMED email request for information associated with the nitrate salt-bearing parent and daughter waste containers. WIPP Recovery Daily Meeting Action List item #84 – NMED requested a copy of the LANL remediation records for waste stored in Panel 6 (Trais Kliphuis) – is a subset of the information in item 5 of this action.	LANL	---	Complete July 9, 2014 (Letter sent addressing items 1-4 and 6-9 of the email request) July 17, 2014 (Letter sent with updated spreadsheet) August 7, 2014 (First submittal in response to item 5) August 14, 2014 (Letter addressing items 2 & 8 - Second submittal in response to item 5) August 18, 2014 (Third submittal in response to item 5) August 21, 2014 (Fourth submittal in response to item 5) August 27, 2014 (Fifth submittal in response to item 5) September 4, 2014 (Sixth submittal in response to item 5) September 9, 2014 (Seventh submittal in response to item 5) September 11, 2014 (Eighth submittal in response to item 5) September 22, 2014 (Ninth submittal in response to item 5) September 23, 2014 (Tenth submittal in response to item 5) October 1, 2014 (Eleventh submittal in response to item 5) October 8, 2014 (Twelfth submittal in response to item 5) October 16, 2014 (Thirteenth submittal in response to item 5) October 23, 2014 (Fourteenth submittal in response to item 5) October 27, 2014 (Fifteenth submittal in response to item 5) October 28, 2014 (Sixteenth submittal in response to item 5) November 3, 2014 (Seventeenth submittal in response to item 5)

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

	Requested Information	Actionee	Status	Completion Date
24.	NMED requested the procedure for sampling empty parent drums that previously contained nitrate salt-bearing waste.	LANL	EP-AREAG-WO-DOP-1245 is included in Enclosure 1 to LANL's July 3, 2014 *Response to Request for Information on Management of Waste at LANL*.	Complete July 8, 2014
25.	NMED requested an additional discussion on a future technical call regarding CO_2, including data.	LANL	---	Complete August 14, 2014 (Meeting held)
26.	NMED requested additional discussion on CIN-01 waste containers and absorbent, including confirmation and extent of use.	LANL	---	Complete July 18, 2014 (Meeting held)
27.	NMED requested historic analytical information on pH of liquids associated with gypsum cemented waste.	LANL	---	Complete August 7, 2014
28.	NMED requested link to pdf of Actinide Quarterly edition (3rd Q 2008).	LANL	---	Complete July 21, 2014
29.	NMED requested a copy of lessons learned	LANL	---	Complete August 11, 2014
30.	NMED request regarding empty drum sampling presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
31.	Respond to NMED email request dated 8/12/2014 for information associated with the nitrate salt-bearing waste containers.	LANL	---	Complete September 11, 2014
32.	NMED request regarding technical presentation.	LANL	Presentation is a pre-decisional draft/working document not for external release	August 25, 2014
33.	NMED request regarding literature review of catalytic reactions.	LANL	Literature review is a pre-decisional draft/working document not for external release	August 25, 2014
34.	LANL requested to schedule a meeting with NMED on remediation planning and schedules.	LANL / NMED	---	Complete September 29, 2014 (meeting held)
35.	Schedule a third update on LANL efforts – including teams.	LANL / NMED	---	Complete October 20, 2014

	Requested Information	Actionee	Status	Completion Date
36.	NMED request regarding LANL Causal Analysis associated with processing of nitrate salt-bearing waste at WCRRF – when document is Final.	LANL	Document is currently Draft and will remain draft.	Closed November 19, 2015 Meeting with NMED-HWB personnel discussed that information in the Technical Assessment Report and the DOE Phase II Investigation Report were sufficient for closure.
37.	NMED requested a diagram illustrating the current locations within the 375 Permacon of the 55 SWBs that contain the 57 remediated nitrate salt-bearing waste containers. NMED also requested a list of these 55 SWBs and the waste drums within each SWB (including the container numbers and waste stream type).	LANL	---	Complete October 27, 2014 (Diagram submitted) November 3, 2014 (Table submitted) November 20, 2014 (Revised table submitted)

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

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

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

Remediated Nitrate Salt Container Headspace Gas Analysis

	68685				69553				69615				69616				SB50069			
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
01/21/16	156	219	4240	911	186	341	7016	798	113	234	4220	189	365	447	8113	1335	488	753	13645	1631
01/22/16	158	204	4578	1001																
01/23/16	131	200	3929	853																
01/24/16	155	222	4574	1037																
01/25/16	128	174	4178	921	184	312	7013	802	111	210	4568	196	325	434	8310	1360	472	706	13437	1556
01/26/16	159	223	4509	1045																
01/27/16	152	207	4159	920																
01/28/16	135	188	4147	909	178	319	6821	771	112	231	4447	214	373	462	7913	1309	352	652	11362	1326
01/29/16	158	235	4678	1033																
01/30/16	161	221	4628	1028																
01/31/16	160	216	4367	969																
02/01/16	148	200	3959	861	184	311	6637	738	107	218	4026	169	341	360	6106	991	466	696	12119	1396
02/02/16	152	194	4144	906																
02/03/16	155	195	4538	989																
02/04/16	141	218	4461	984	177	335	7092	845	115	233	4848	211	364	466	8386	1364	451	762	13725	1566
02/05/16	144	200	4135	930																
02/06/16	152	219	4442	998																
02/07/16	153	220	4572	1005																
02/08/16	138	202	4164	920	137	214	4981	548	122	239	4987	219	376	453	8335	1365	472	764	14005	1635
02/09/16	156	229	4596	1010																
02/10/16	154	211	4593	973																
02/11/16	135	221	4215	931	192	320	7377	856	102	226	4346	216	358	497	8088	1366	465	760	13612	1590
02/12/16	155	225	4524	1024																
02/13/16	161	213	4541	1012																
02/14/16	159	203	4519	1005																
02/15/16	145	208	4307	990	207	373	7967	927	119	251	5055	232	373	464	8408	1382	509	830	14829	1754
02/16/16	157	215	4266	953																

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB50452				SB50522				68430				68507				70503 (68540/68553)			
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
01/21/16	740	488	7207	1310	627	475	25192	1110												
01/22/16					639	484	26627	1205												
01/23/16					644	485	26305	1219												
01/24/16					657	490	26157	1196												
01/25/16	781	502	7327	1267	628	449	25055	1123												
01/26/16					655	492	25593	1221												
01/27/16					584	427	22839	1047												
01/28/16	803	432	7570	1304	645	475	26161	1209												
01/29/16					650	508	26651	1281												
01/30/16					664	520	27269	1255												
01/31/16					662	455	25672	1191												
02/01/16	748	449	6170	1063	622	448	23266	1134												
02/02/16					575	425	23357	1082									31	0	813	38
02/03/16					630	450	25284	1188												
02/04/16	751	497	7337	1239	609	491	25570	1228												
02/05/16					640	444	25628	1424												
02/06/16					634	486	25481	1298												
02/07/16					639	497	25842	1282												
02/08/16	717	443	6634	1148	627	452	25061	1198												
02/09/16					528	486	25193	1236												
02/10/16					612	461	23778	1128	218	201	2992	518	100	59	851	68				
02/11/16	786	538	7462	1298	644	521	26526	1504												
02/12/16					660	524	26878	1367												
02/13/16					672	494	27284	1357												
02/14/16					677	514	27562	1367												
02/15/16	792	524	7549	1311	640	511	26066	1332												
02/16/16					643	472	24289	1199												

Remediated Nitrate Salt Container Headspace Gas Analysis

	68567				68624				68631				68638				69013			
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
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16																	29	0	623	0
02/03/16																				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16					42	61	842	83												
02/10/16									14	0	368	37	12	0	201	0				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16	26	0	374	29																

Remediated Nitrate Salt Container Headspace Gas Analysis

	69015				69036				69298				69417				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
01/21/16																				
01/22/16																				
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01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16													0	0	-37	0	227	320	4046	350
02/03/16									699	580	7802	1135								
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16	74	54	739	54																
02/10/16																				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69519				69520				69548				69559				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
01/21/16																				
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01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16					95	122	1586	505												
02/03/16																				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16																				
02/10/16																	94	70	243	172
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16	302	260	4260	1132																

Remediated Nitrate Salt Container Headspace Gas Analysis

	69598				69604				69618				69620				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**
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16									129	117	1238	145	389	328	3783	653				
02/03/16																	398	527	8292	634
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16																				
02/10/16																				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16	34	0	465	21																

Remediated Nitrate Salt Container Headspace Gas Analysis

	69633				69634				69635				69636				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**
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16																				
02/03/16													283	271	5329	562				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16	413	368	4747	593					190	180	2573	144					109	183	1848	413
02/10/16																				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16					95	0	658	158												

Remediated Nitrate Salt Container Headspace Gas Analysis

	69638				69639				69641				69642				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**
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16									476	444	4126	1238								
02/03/16													72	87	1526	123				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16	502	432	4696	642	165	132	2569	130									249	218	2144	565
02/10/16																				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16																				

Remediated Nitrate Salt Container Headspace Gas Analysis

	69645				93605				94068				94227				SB02198			
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**
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16																				
02/03/16																				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16																				
02/10/16													32	41	133	159				
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16	258	301	4550	644	323	290	2909	814	521	503	7460	1607					626	128	578	257

Remediated Nitrate Salt Container Headspace Gas Analysis

	SB02203				SB50073				SB50418				SB50431				SB50442			
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
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16																				
02/03/16	113	81	1690	52	962	898	7702	2491					761	400	6052	998				
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16																				
02/10/16																	256	278	3176	688
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16																				

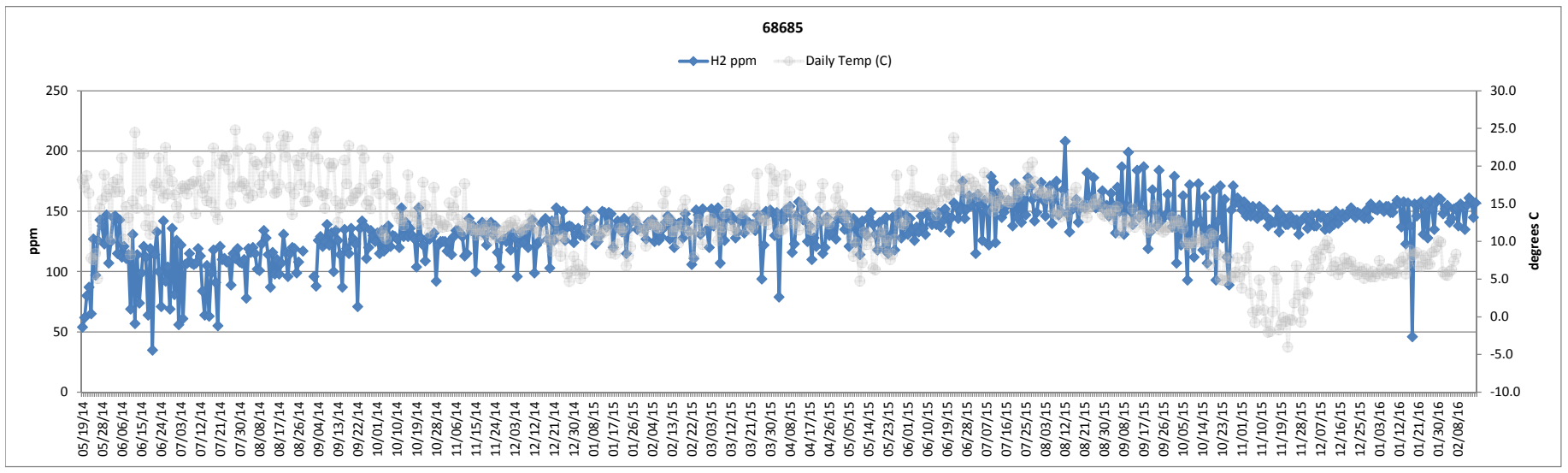
Remediated Nitrate Salt Container Headspace Gas Analysis

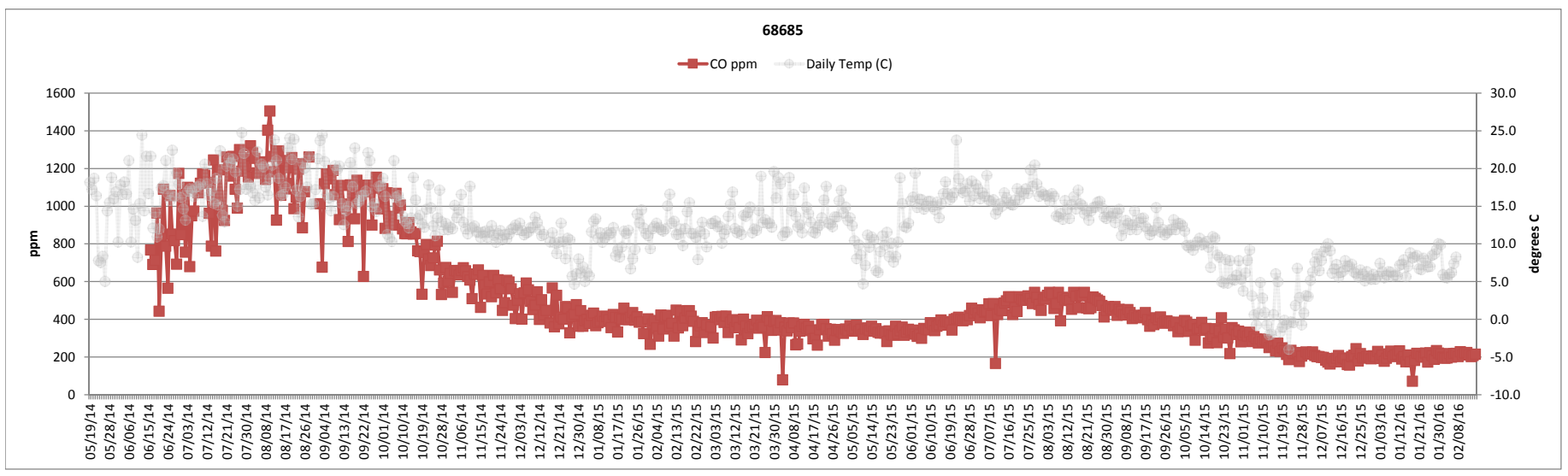
	SB50443				SB50448				SB50451				SB50529				SB50559			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/21/16																				
01/22/16																				
01/23/16																				
01/24/16																				
01/25/16																				
01/26/16																				
01/27/16																				
01/28/16																				
01/29/16																				
01/30/16																				
01/31/16																				
02/01/16																				
02/02/16																				
02/03/16	766	588	6688	1277																
02/04/16																				
02/05/16																				
02/06/16																				
02/07/16																				
02/08/16																				
02/09/16																				
02/10/16																	445	129	2455	107
02/11/16																				
02/12/16																				
02/13/16																				
02/14/16																				
02/15/16																				
02/16/16																				

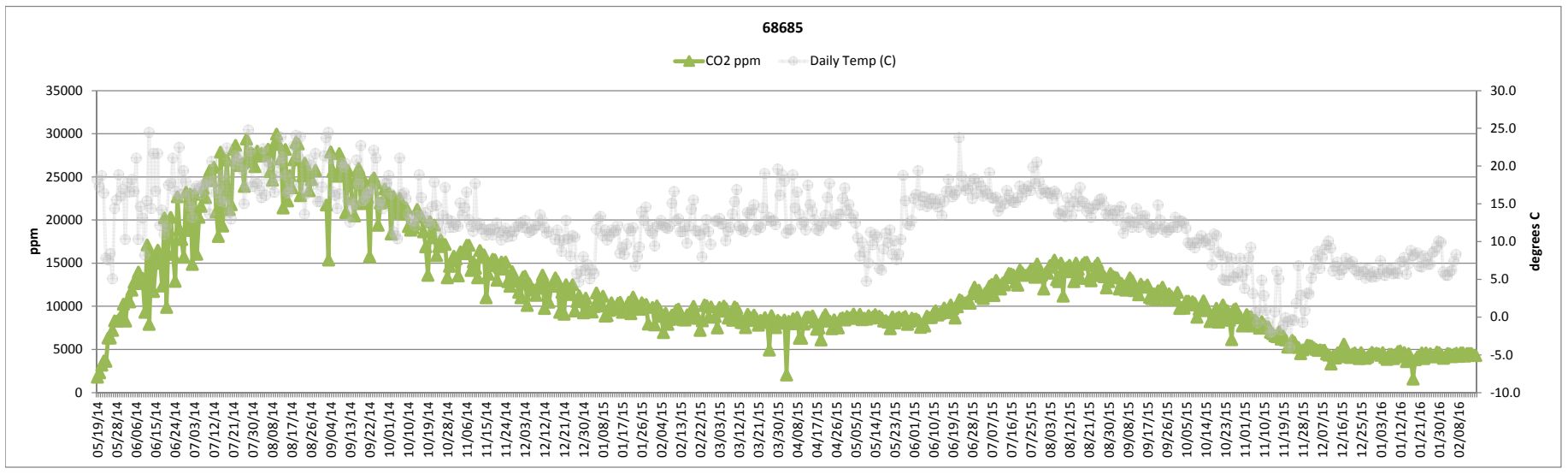
Remediated Nitrate Salt Container Headspace Gas Analysis

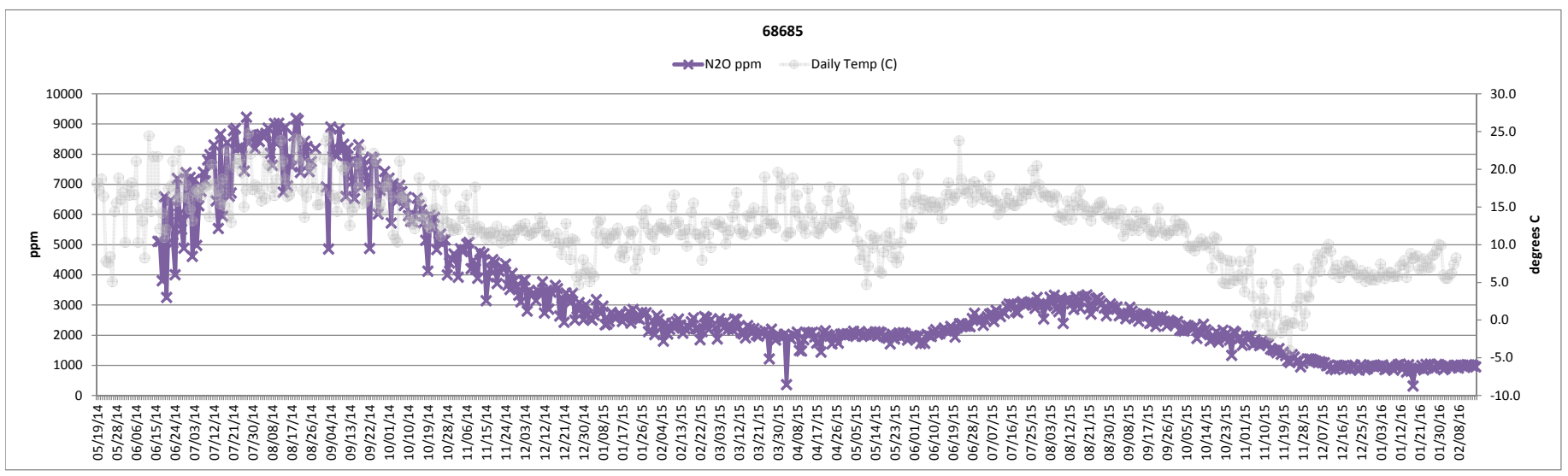
	87823				87825				87826				87827			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
01/21/16																
01/22/16																
01/23/16																
01/24/16																
01/25/16																
01/26/16																
01/27/16																
01/28/16																
01/29/16																
01/30/16																
01/31/16																
02/01/16	171	116	2437	351	164	130	3884	547	206	222	5726	706	45	82	2412	215
02/02/16																
02/03/16																
02/04/16																
02/05/16																
02/06/16																
02/07/16																
02/08/16																
02/09/16																
02/10/16																
02/11/16																
02/12/16																
02/13/16																
02/14/16																
02/15/16																
02/16/16																

Remediated Nitrate Salt Container Headspace Gas and Temperature

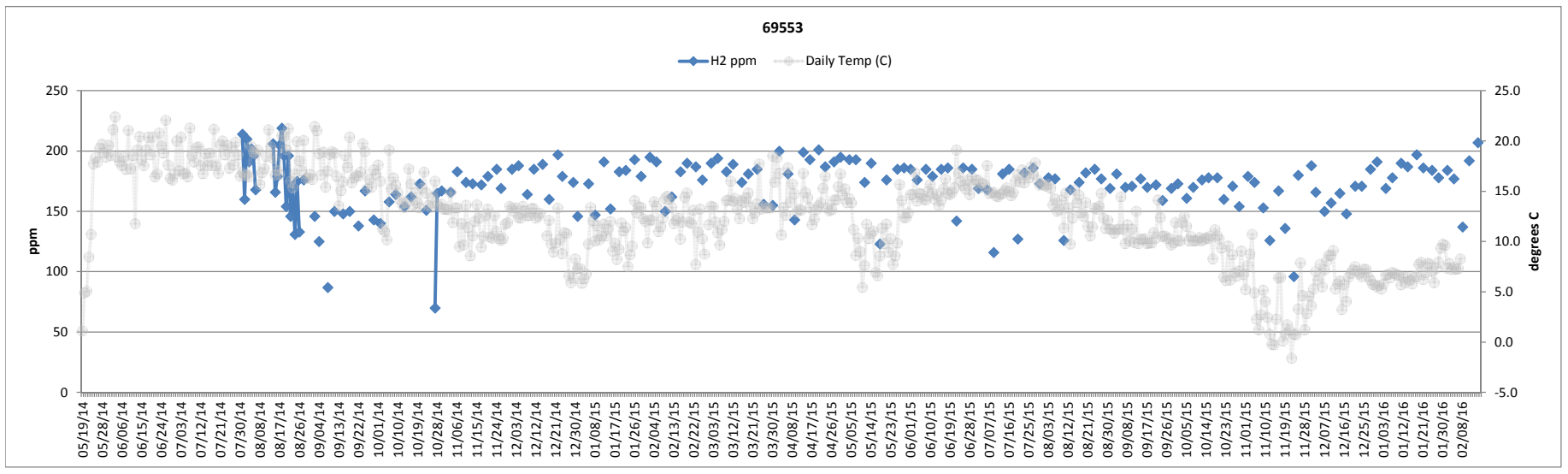


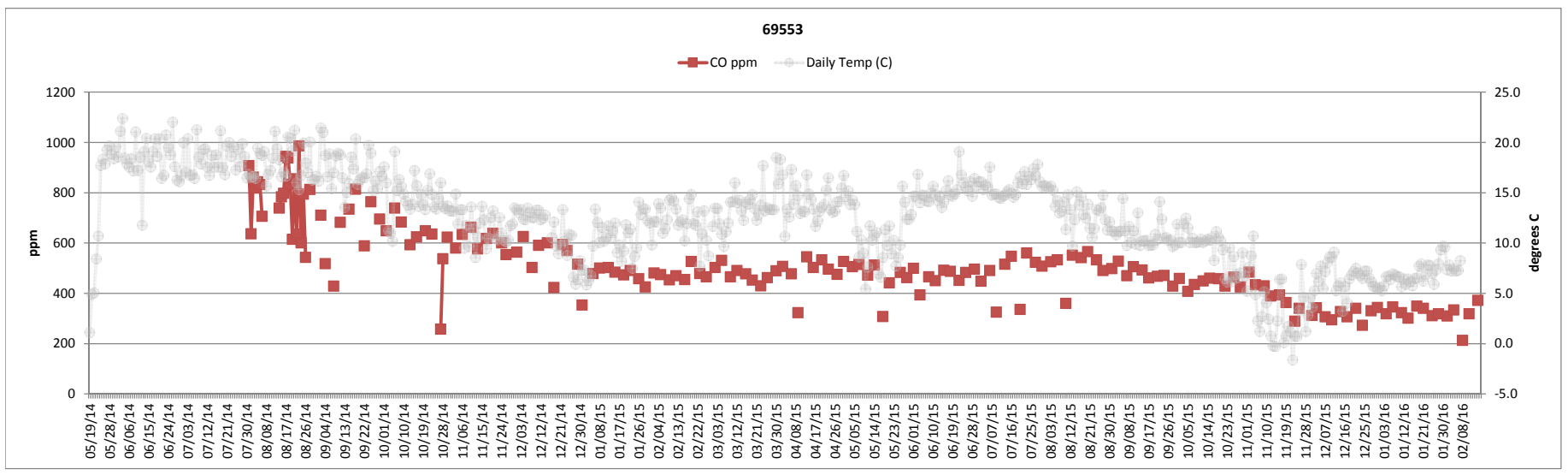


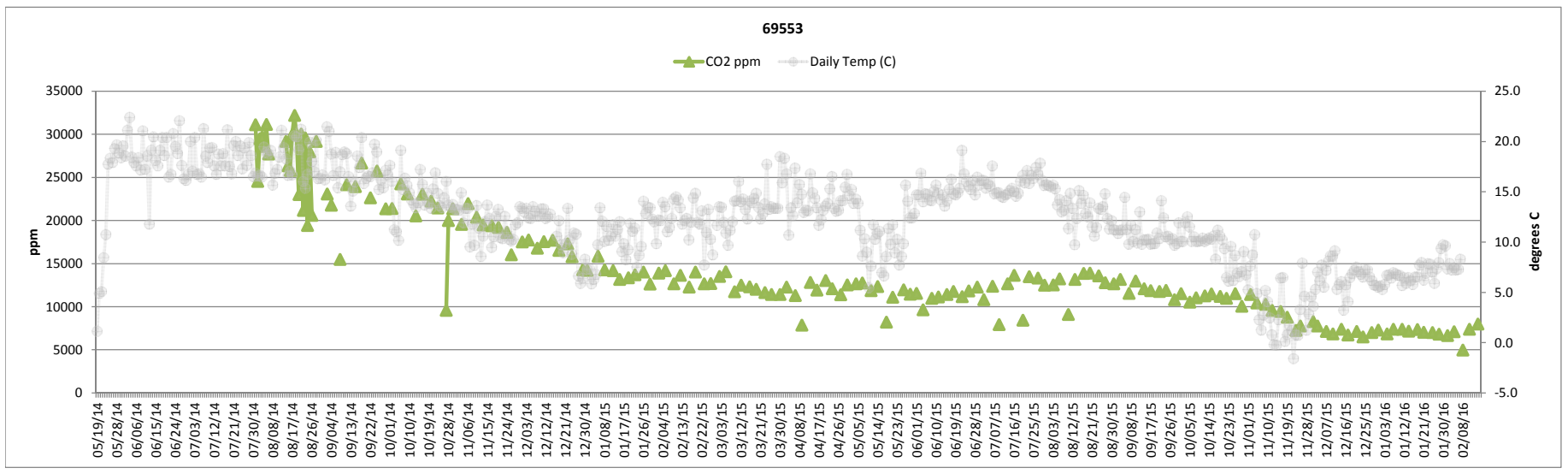


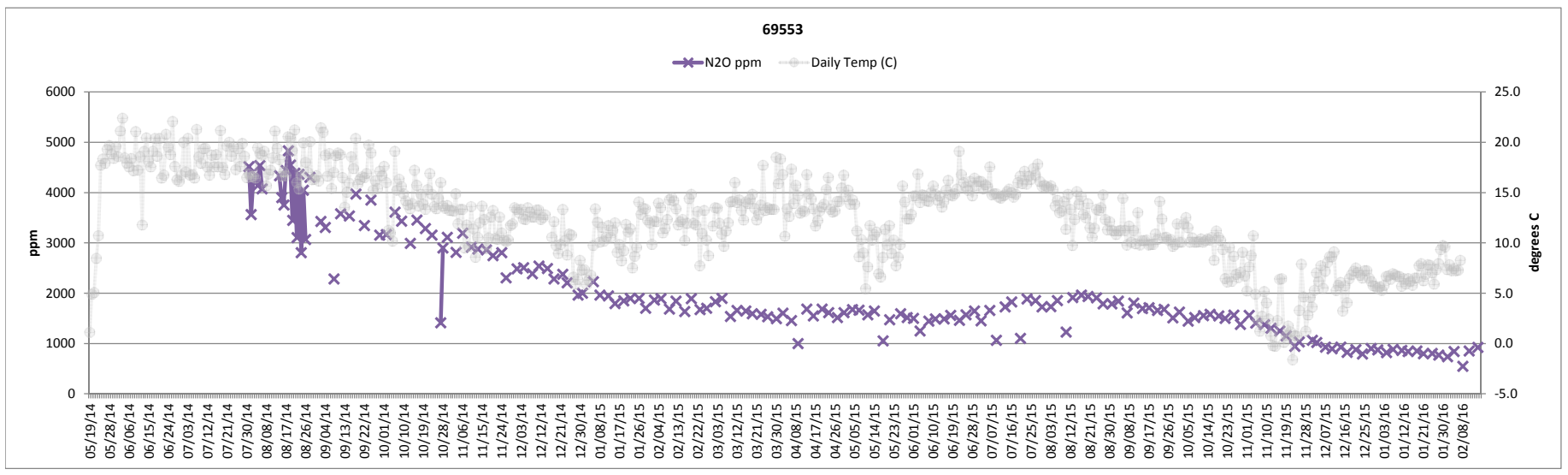


Remediated Nitrate Salt Container Headspace Gas and Temperature

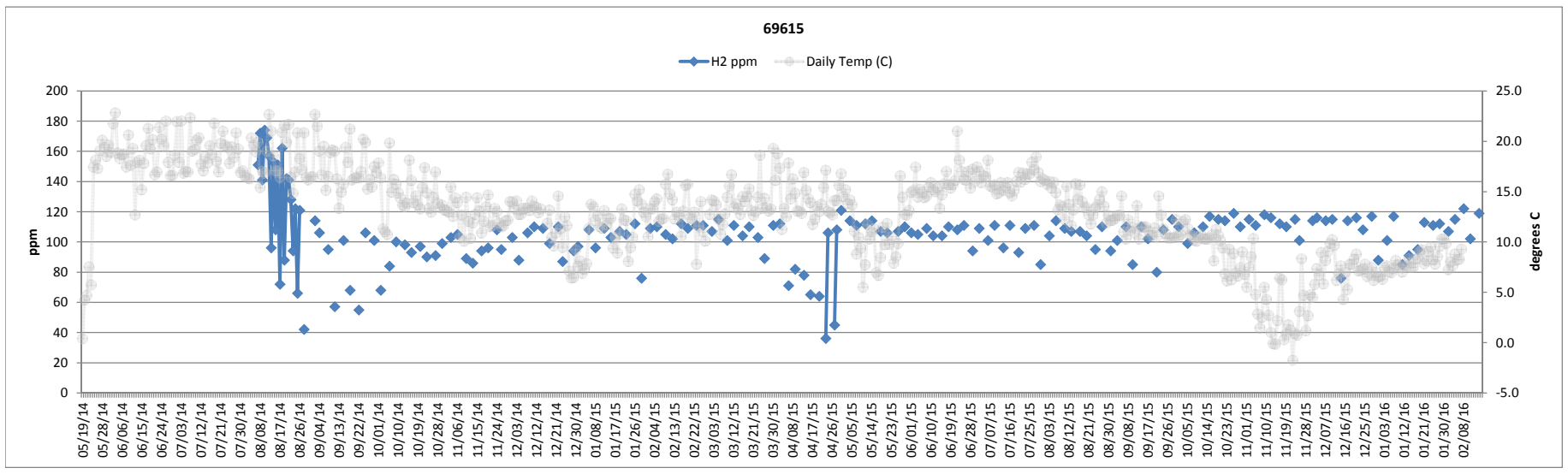


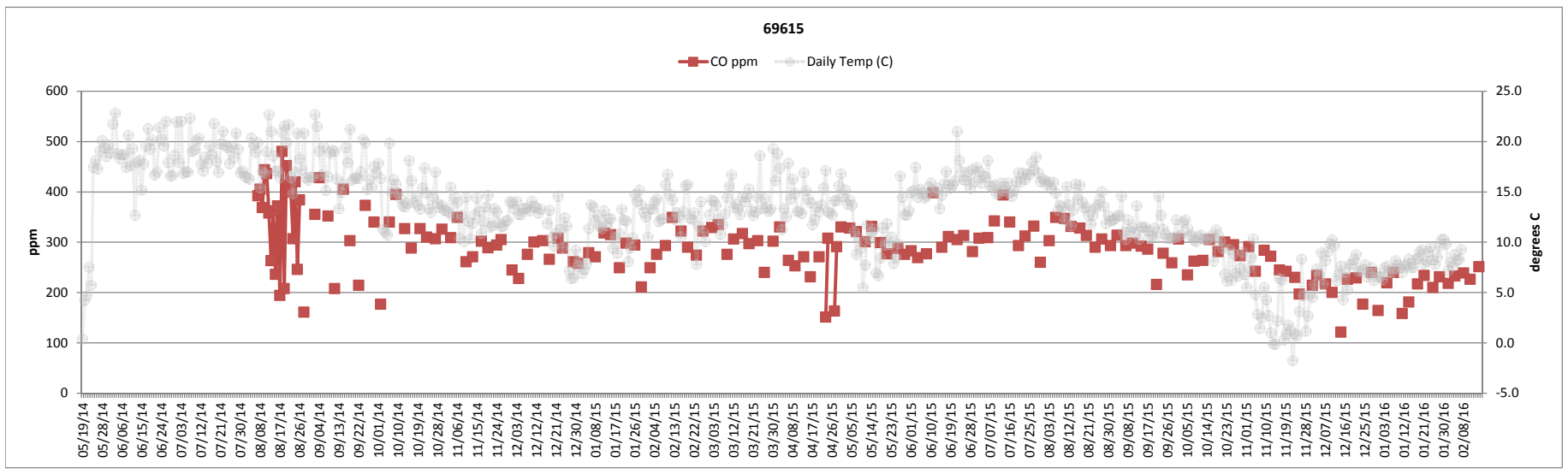


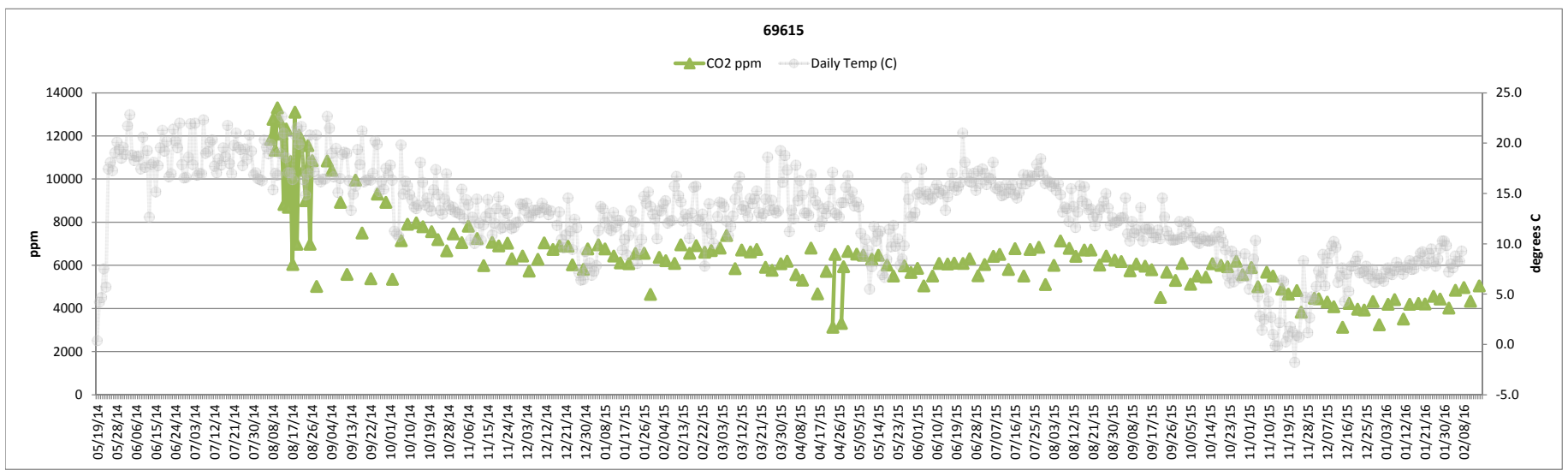


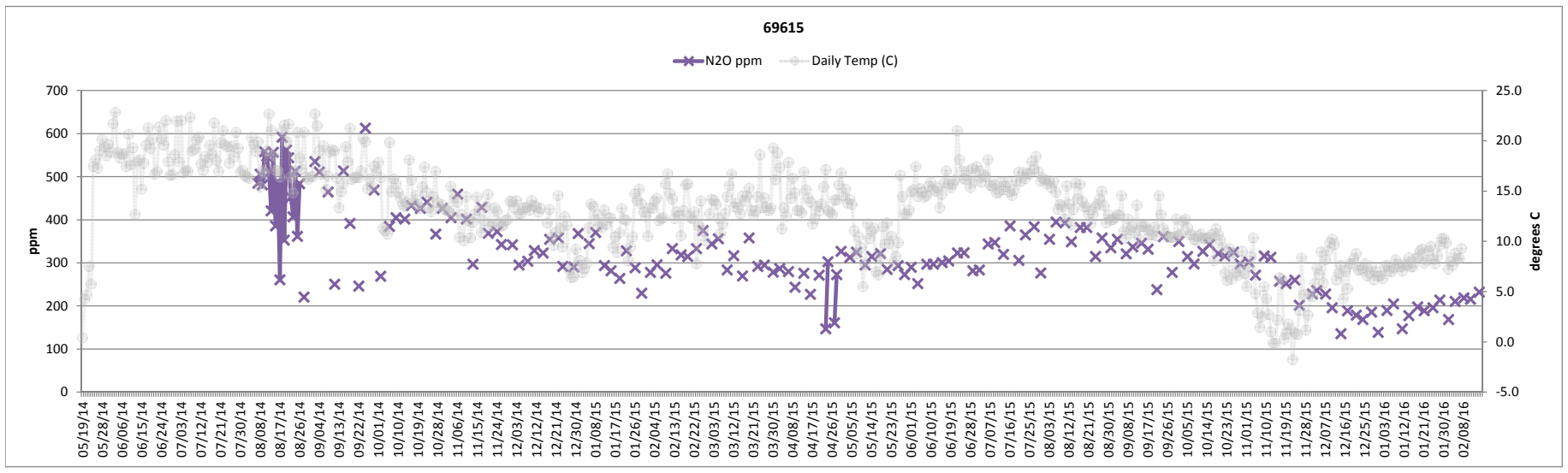


Remediated Nitrate Salt Container Headspace Gas and Temperature

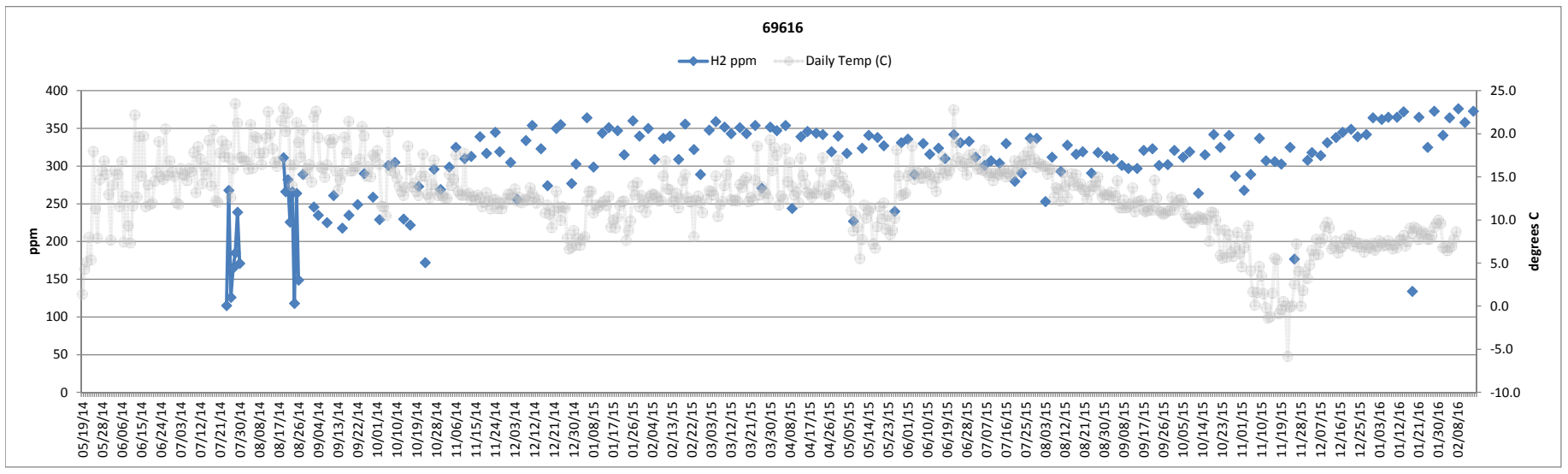


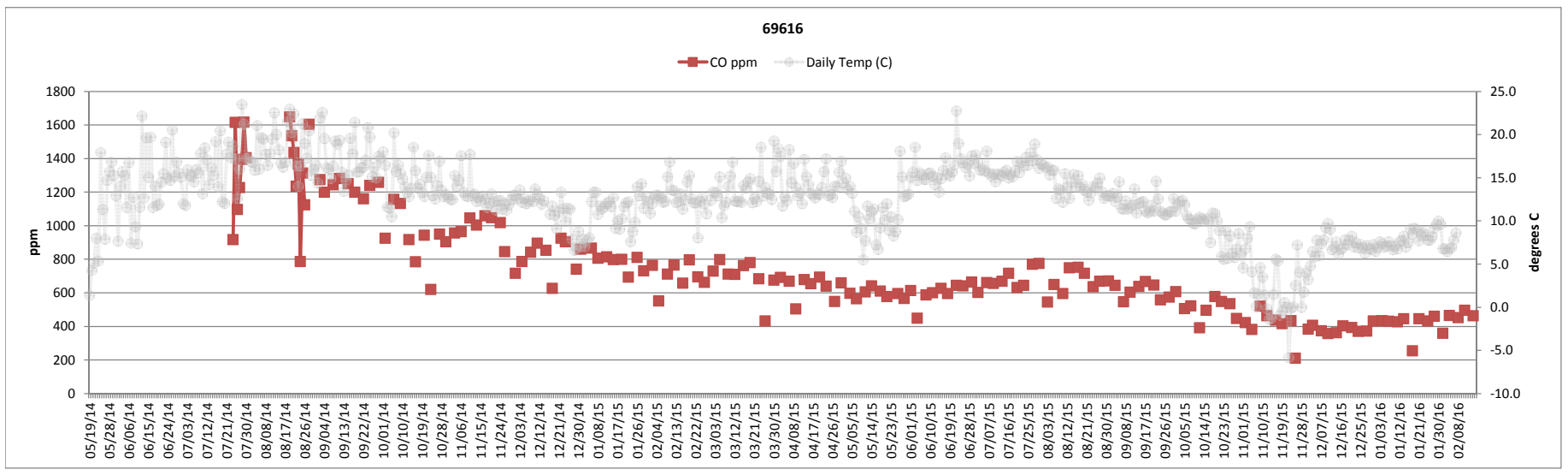


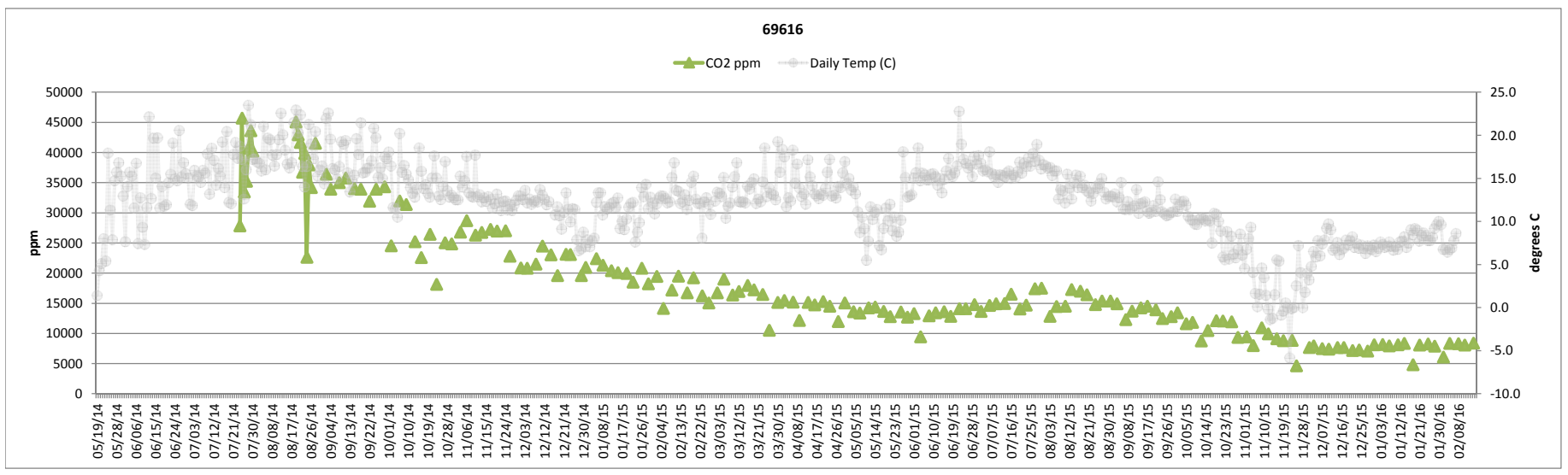


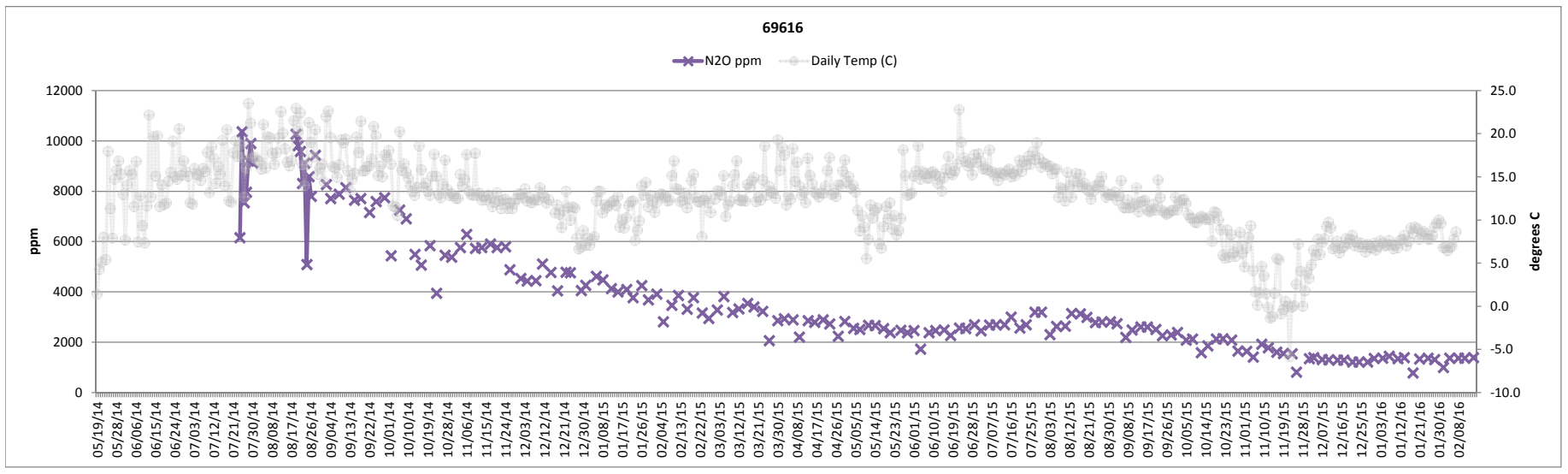


Remediated Nitrate Salt Container Headspace Gas and Temperature

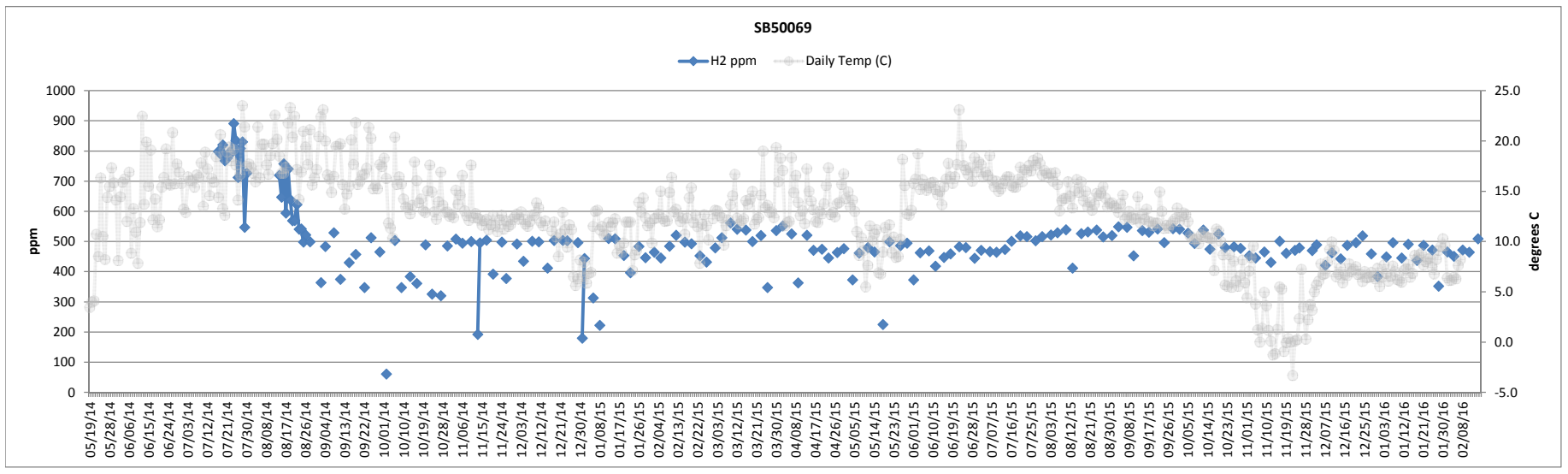


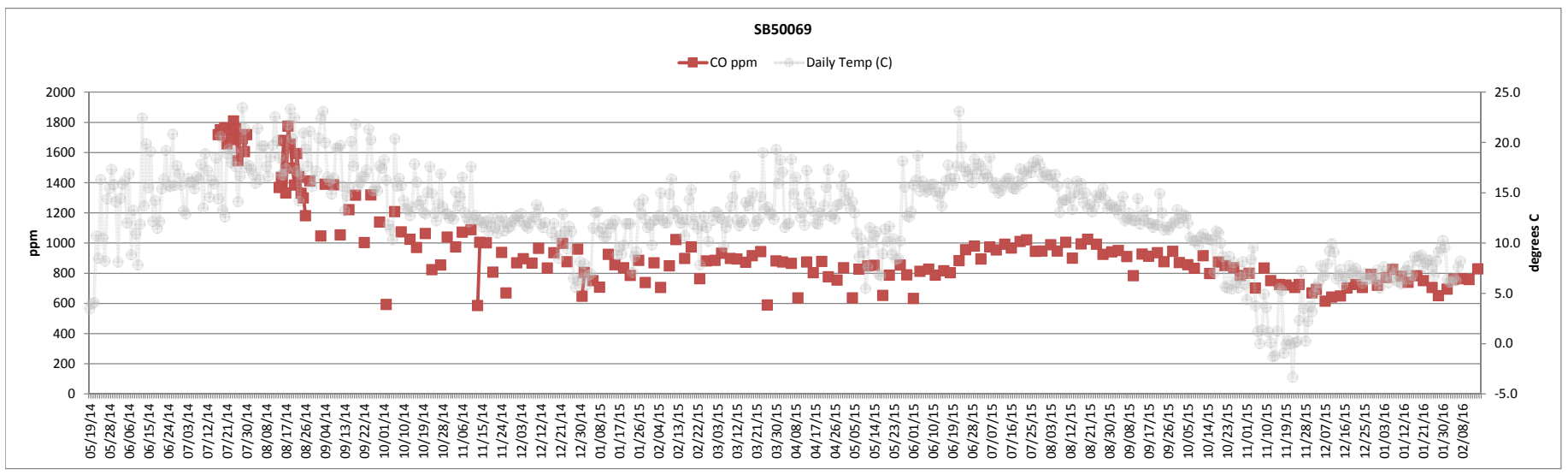


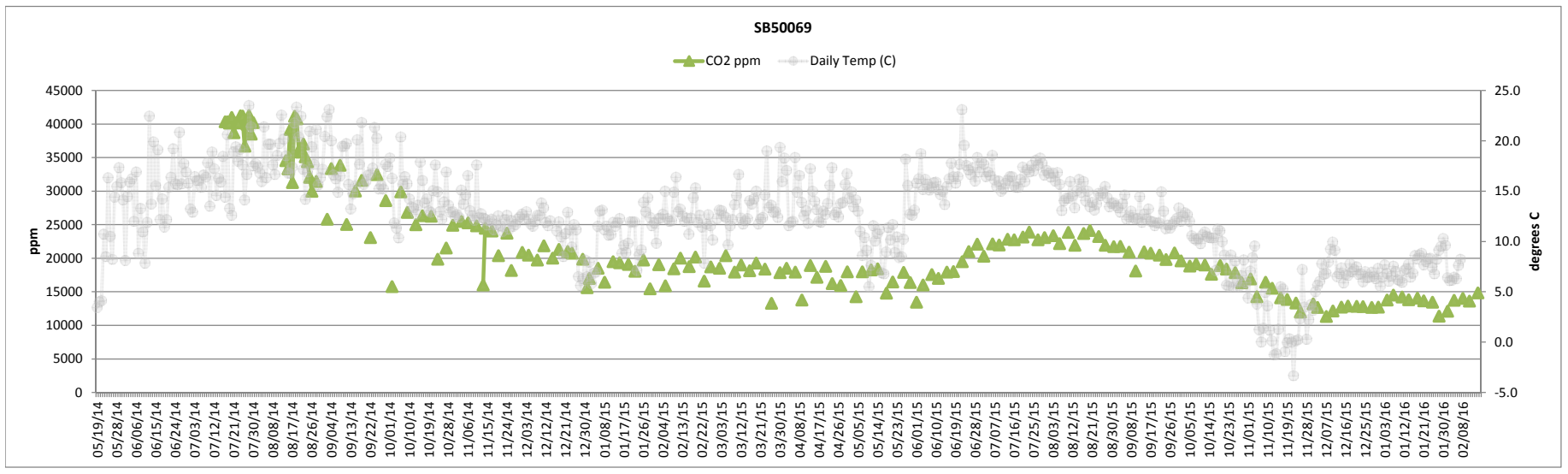


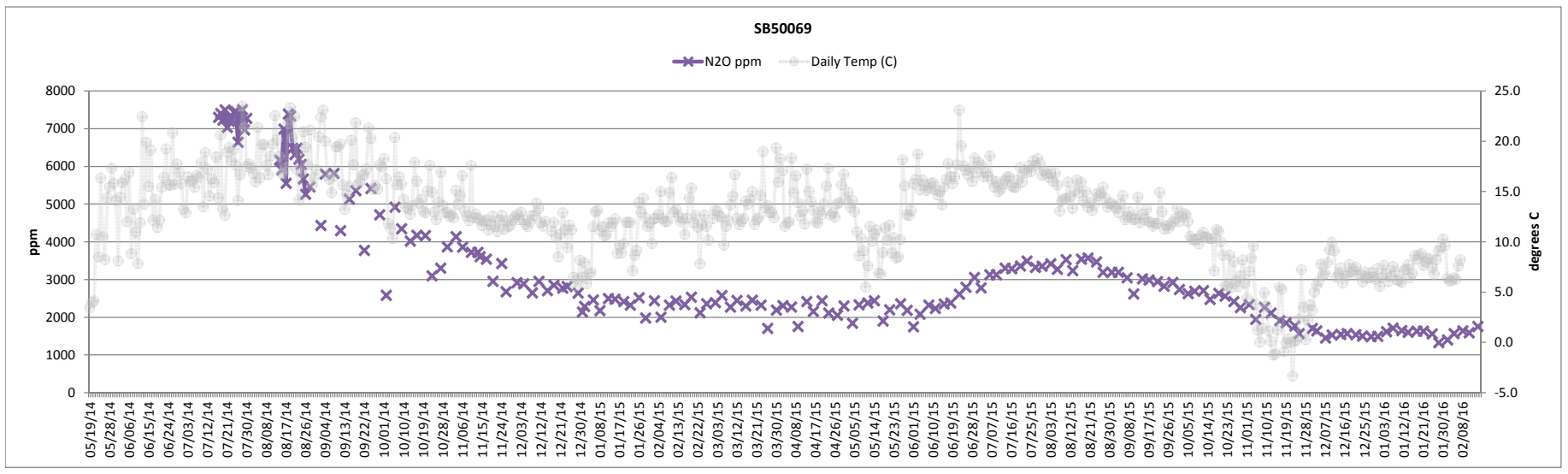


Remediated Nitrate Salt Container Headspace Gas and Temperature

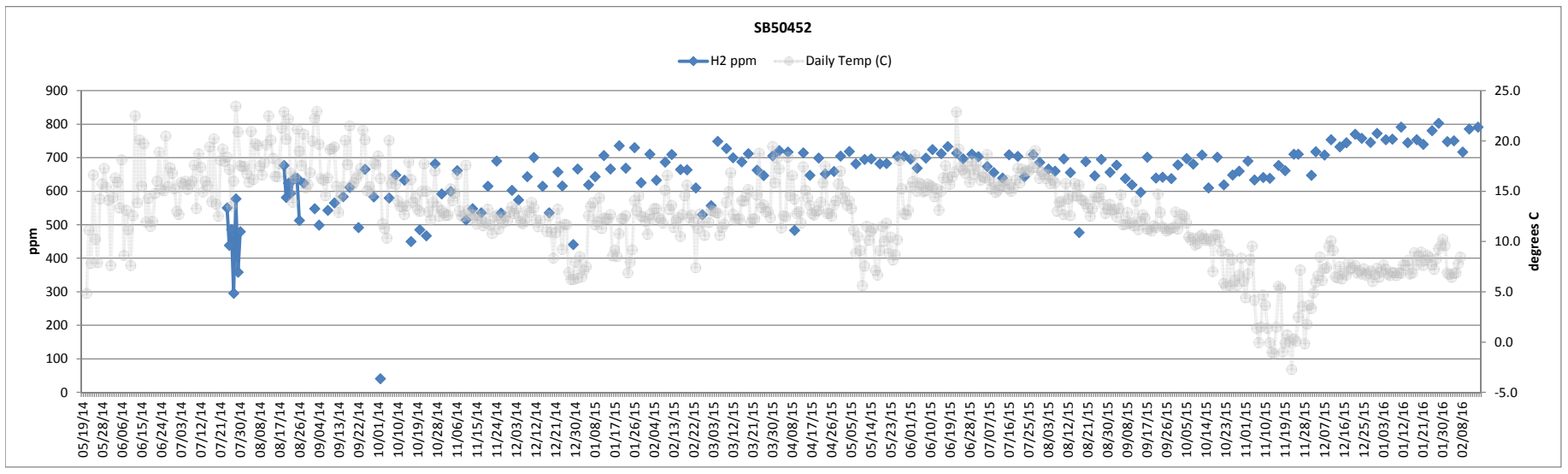


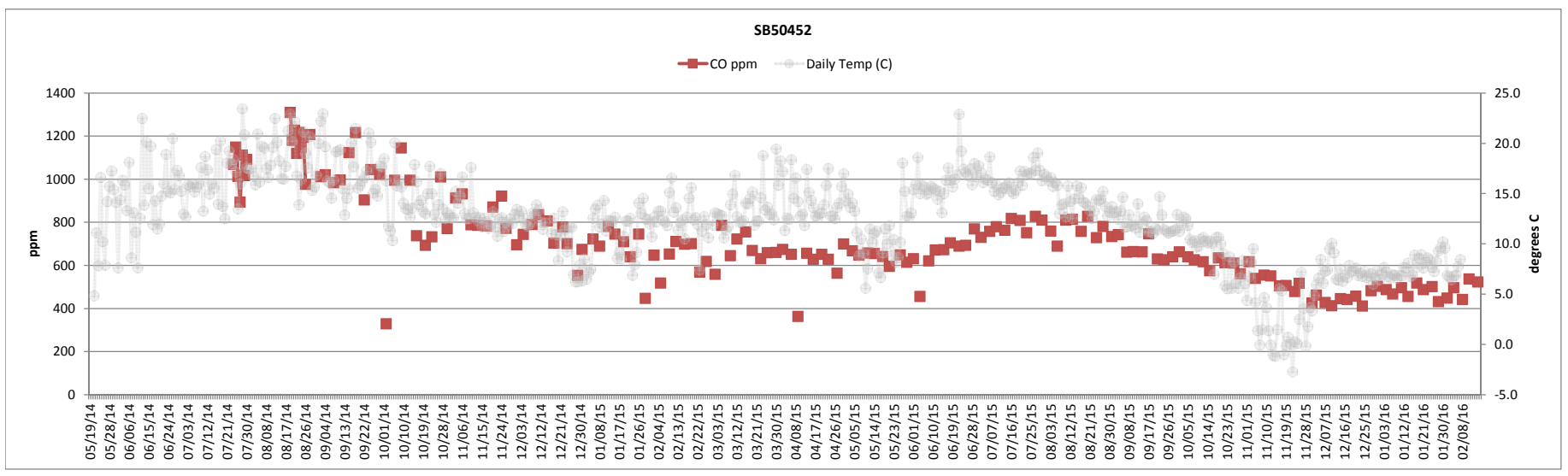


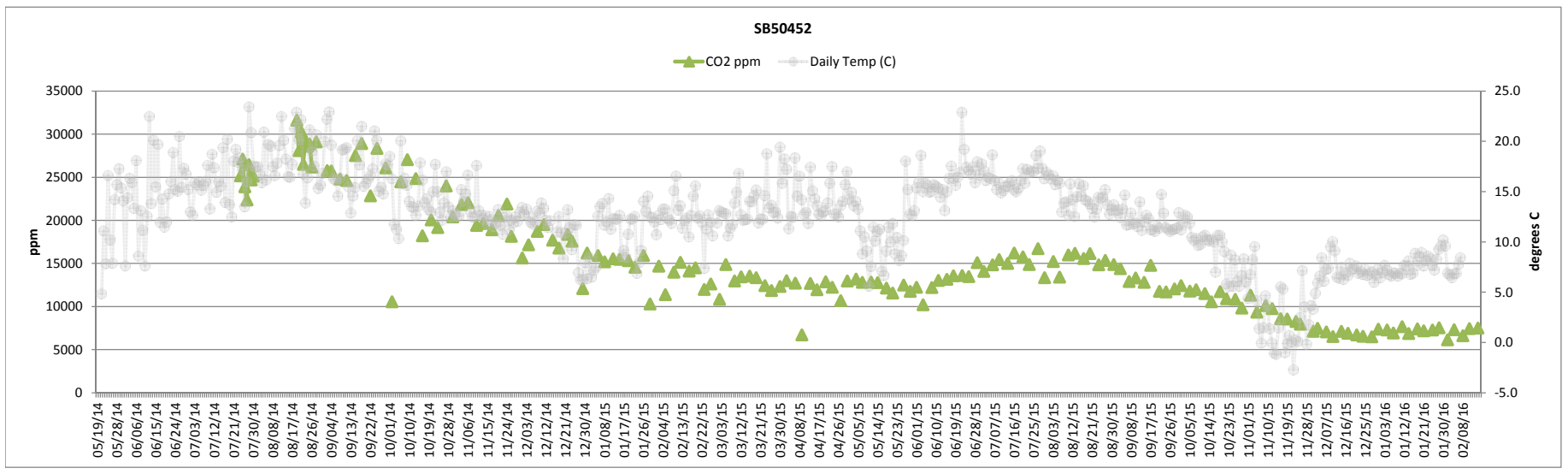


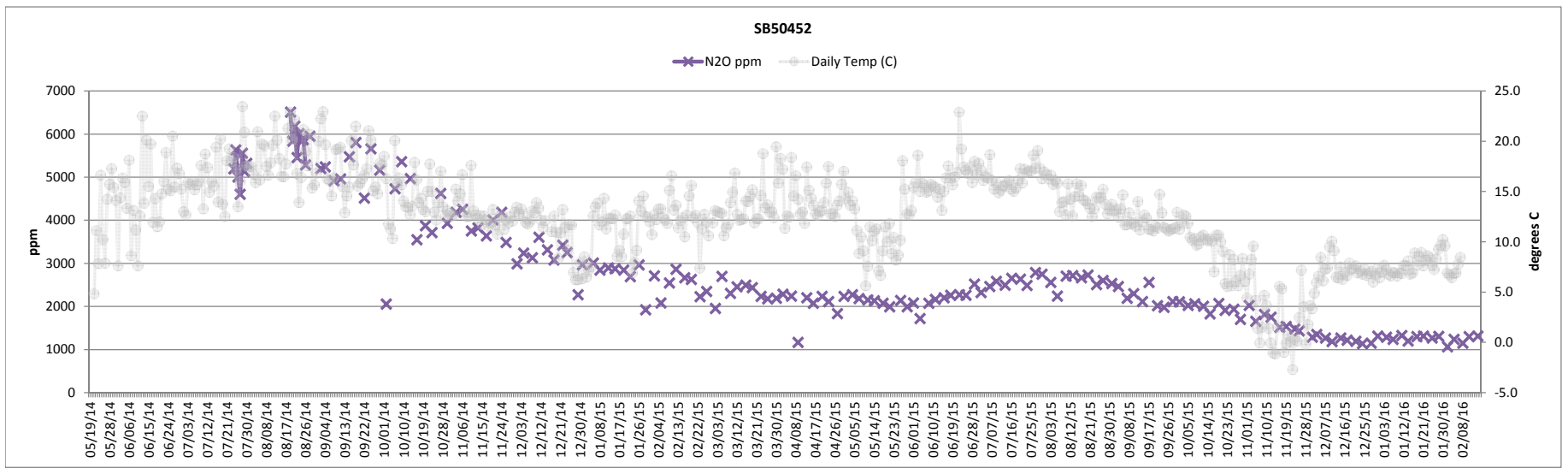


Remediated Nitrate Salt Container Headspace Gas and Temperature

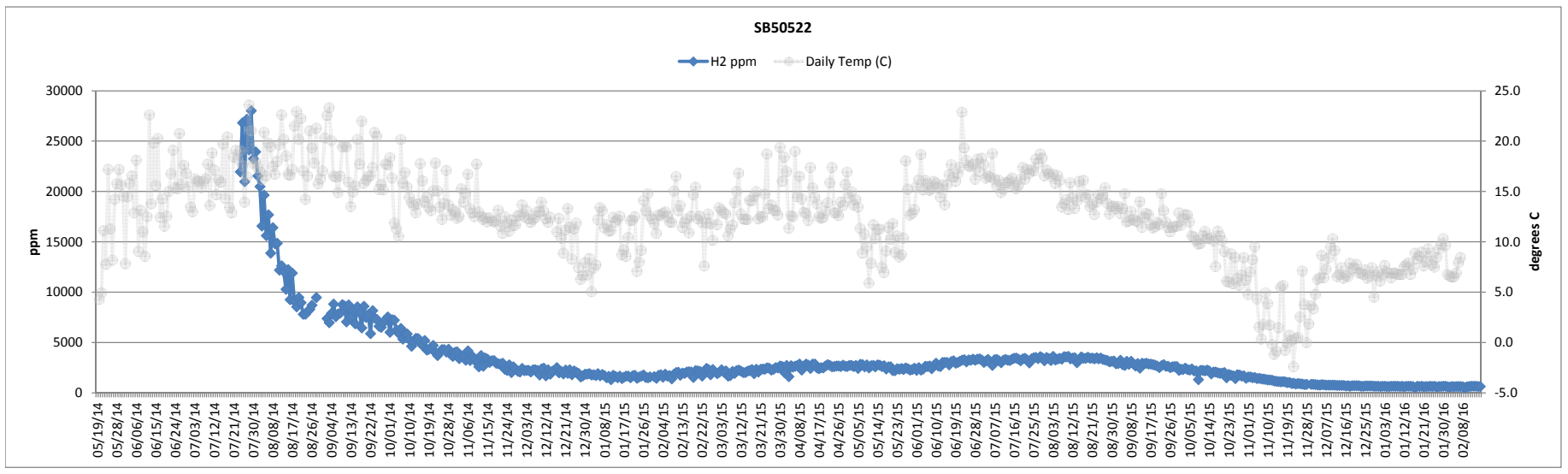


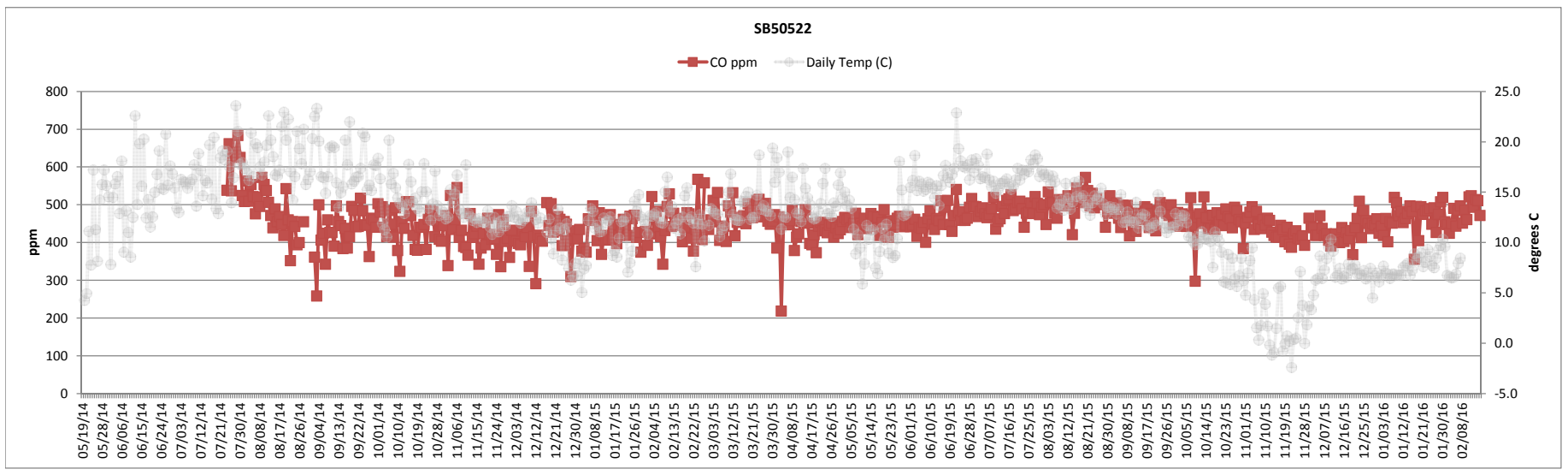


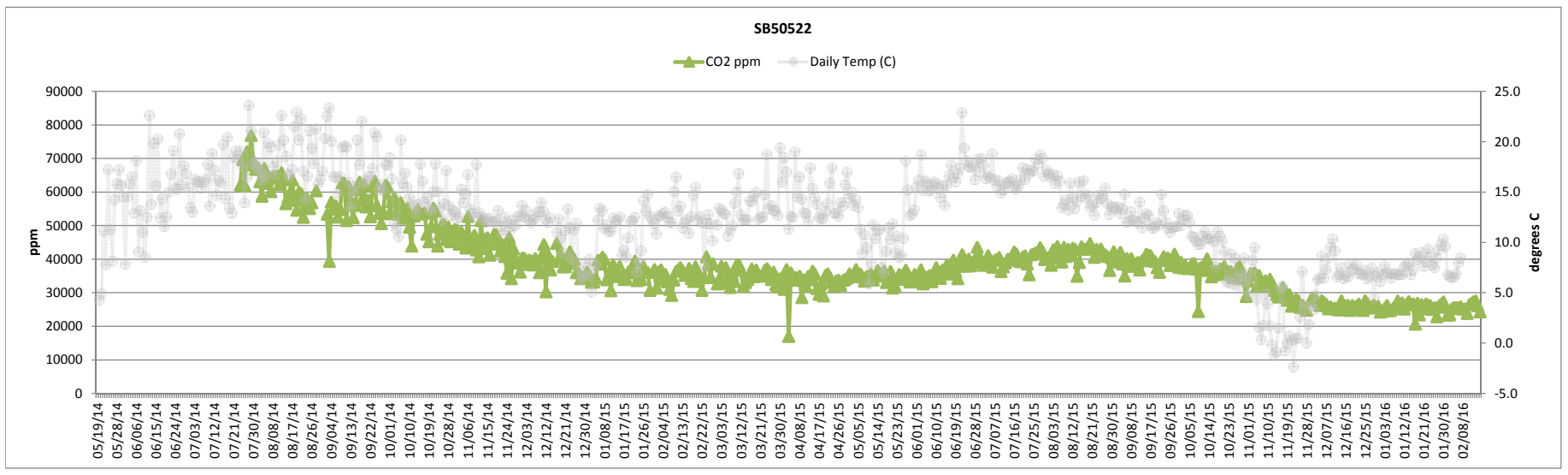


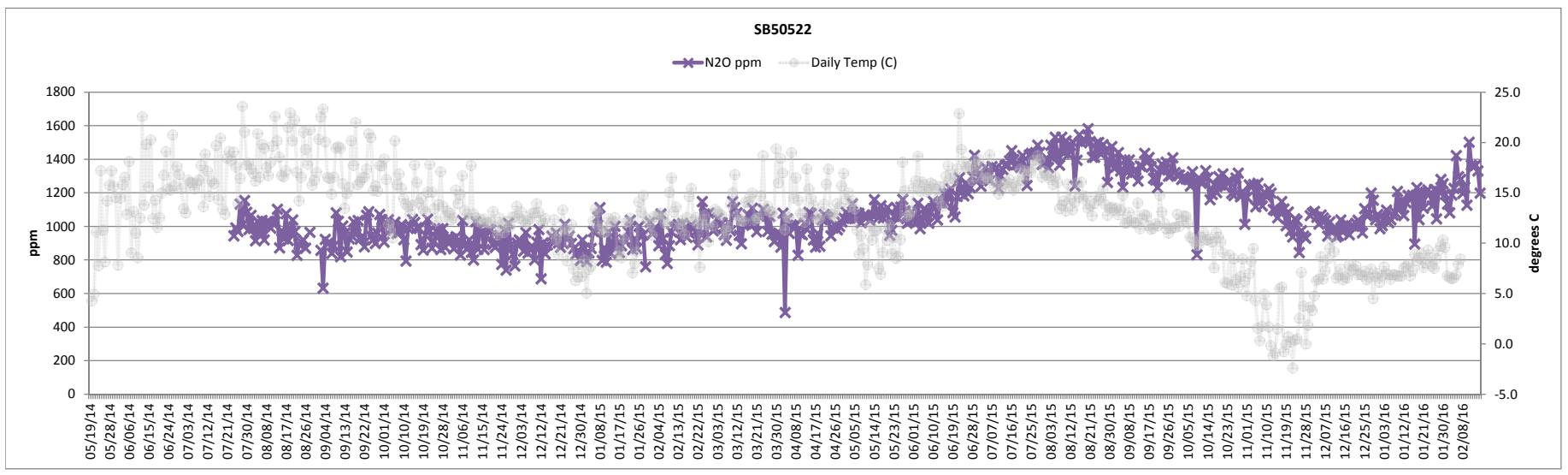


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 3

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

6.[4] Date: From 1-18-16 to 1-24-16

	Monday 6.[4] Start Time: 1315	Tuesday 6.[4] Start Time: 1314	Wednesday 6.[4] Start Time: 1307	Thursday 6.[4] Start Time: 1308	Friday 6.[4] Start Time: 1236	Saturday 6.[4] Start Time: 1313	Sunday 6.[4] Start Time: 1312
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07-05-2016 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number ~~101974~~ 101974 ~~EF 10/27~~ 1-24-16
Ambient Temperature (6.[5])	45.2 °F	46.6 °F	46.4 °F	44.4 °F	43.8 °F	45.9 °F	45.8 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685	46.6	46.9	47.3	44.1	43.9	46.6	46.0
LA00000070503 68540	46.6	47.2	48.5	44.6	46.7	46.7	46.2
LA00000070503 68553	46.4	47.8	47.9	45.2	46.1	47.1	46.8
69445	47.0	47.5	48.4	45.2	46.1	48.3	47.0
69618	46.2	47.6	48.4	45.1	46.2	47.3	46.5
69013	46.4	47.6	48.6	45.6	46.4	47.3	48.5
LASB50522	46.9	47.4	48.2	45.7	46.5	48.8	47.5
LASB50452	45.8	47.4	48.1	45.7	46.7	47.5	47.1
LASB50431	46.6	46.9	48.1	45.8	46.7	47.1	47.0
LASB50069	46.9	47.6	47.9	45.8	46.4	46.9	47.0
LASB50073	45.8	47.9	47.6	45.1 ~~45.1~~ 1-24-16	46.7	47.1	48.9
69636	47.1	48.2	47.9	45.7	47.4	47.8	46.9
69616	47.2	48.5	48.2	45.9	47.1	47.6	47.1
69417	46.8	48.2	48.6	46.0	46.9	47.7	48.6

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6.[4] Date: From 6-18-16 to 6-24-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1 (continued)							
69620	46.4	48.1	47.8	45.8	47.9	47.0	47.3
69520	46.6	47.6	47.9	45.5	46.5	47.5	46.8
69641	46.9	47.5	48.3	45.8	46.6	47.6	47.0
69298	47.0	47.7	48.0	45.7	47.1	47.7	47.1
LASB02203	46.5	47.2	48.0	45.0	46.7	47.5	47.2
End Time (6.[12])	1320	1317	1311	1312	1241	1518	1317
6.[12]	NDO: LDC NDO: DA	NDO: DA NDO: vm	NDO: DA NDO:	NDO: DA NDO:	NDO: EP NDO:	NDO: EP NDO:	NDO: EP NDO:

Comments:

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6.[4] Date: From 1-18-16 to 1-24-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Poralder	[illegible]	1112507	[illegible]	1-18-2016
Tina Aguirre	[illegible]	174977	At	1-18-16
Tina Aguirre	[illegible]	174977	at	1-19-16
Leon montoya	[illegible]	1191526	LM	1-19-16
Tina Aguirre	[illegible]	174977	At	1-20-16
Leon montoya	[illegible]	1191526	[illegible]	1-20-16
Tina Aguirre	[illegible]	174977	At	1/21/16
Leon montoya	[illegible]	1191526	LM	1-21-16
Edward Pacheco	[illegible]	1100497	EP	1-22-16
Juan Garcia	[illegible]	1169840	[illegible]	1-22-16
Edward Pacheco	[illegible]	1100497	EP	1-23-16
Juan Garcia	[illegible]	1169840	[illegible]	1-23-16
Edward Pacheco	[illegible]	1100497	EP	1-24-16
Juan Garcia	[illegible]	1169840	[illegible]	1-24-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 1-18-16 to 1-24-16

	Monday 6.[4] Start Time: 1321	Tuesday 6.[4] Start Time: 1318	Wednesday 6.[4] Start Time: 1312	Thursday 6.[4] Start Time: 1313	Friday 6.[4] Start Time: 1242	Saturday 6.[4] Start Time: 1320	Sunday 6.[4] Start Time: 1319
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07-08-2016 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916
Ambient Temperature (6.[5])	44.2 °F	47.9 °F	47.5 °F	43.9 °F	45.2 °F	48.6 °F	48.6 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198	43.9	47.5	45.9	42.7	44.4	45.0	46.0
68638	45.2	47.3	47.1	44.2	45.0	45.9	47.2
69615	47.1	48.3	48.6	46.1	46.6	48.3	49.1
69635	47.0	48.9	49.0	45.7	46.8	48.0	48.6
69642	48.6	49.7	50.0	47.10	46.8	48.9	49.2
69630	47.4	49.7	49.4	46.3 46.2 1-21-16	46.8	46.3	49.1
69633	45.7	46.9	48.2	44.5	45.7	47.3	47.6
68430	44.5	47.1	47.0	43.9	45.4	44.2	46.6
68631	44.8	47.0	48.0	44.0	43.8	45.1	46.4
69634	43.7	47.1	47.0	42.9	46.0	45.3	45.7
68567	44.0	46.2	46.1	43.3	42.8	45.2	46.4
94227	44.3	46.4	47.1	43.4	45.3	45.9	46.3
LASB50442	44.9	46.4	47.3	43.8	44.2	46.6	46.2
69644	45.0	46.9	47.3	44.0	44.2	47.4	47.0
LASB50443	46.3	47.9	48.0	44.4	48.3	47.5	49.0
69638	46.6	47.9	48.3	44.8	44.4	46.5	47.5

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6.[4] Date: From 4-8-16 to 4-24-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624	44.7	48.4	47.9	44.3	46.1	44.2	46.7
68507	44.1	46.5	46.0	43.0	44.9	45.5	48.6
69568	43.9	46.8	46.5	43.5	44.4	45.2	46.4
69553	43.7	45.9	46.3	43.2	44.4	46.1	46.0
69598	43.8	46.4	45.5	43.5	44.3	45.3	46.9
LASB50559	43.8	45.8	45.9	42.8	44.1	46.6	46.4
69015	45.0	46.8	47.1	43.4	44.8	47.3	47.4
69639	45.3	47.5	47.4	45.0	44.9	47.9	47.7
69637	46.7	48.8	48.0	45.5	44.3	44.4	47.5
End Time (6.[12])	1328	1321	1316	1317	1247	1325	1324
6.[12]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]

Comments:

ATTACHMENT 3
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6.[4] Date: From 1-18-16 to 1-24-16

6.[16] Performed by:

Nitrate Drum Observer (print) / Signature	Z#	Initials	Date
Willie J. Parker / [signature]	1129071	[initials]	1-18-2016
Tina Aguirre / [signature]	1149711	at	1-18-16
Tina Aguirre / [signature]	1149711	at	1-19-16
Leon Montoya / [signature]	1191526	LM	1-19-16
Tina Aguirre / [signature]	1149711	at	1-20-16
Leon Montoya / [signature]	1191526	LM	1-20-16
Tina Aguirre / [signature]	1149711	at	1-21-16
Leon Montoya / [signature]	1191526	LM	1-21-16
Edward Pacheco / [signature]	1100497	EP	1-22-16
Juan Garcia / [signature]	1169840	JG	1-22-16
Edward Pacheco / [signature]	1100497	EP	1-23-16
Juan Garcia / [signature]	1169840	JG	1-23-16
Edward Pacheco / [signature]	1100497	EP	1-24-16
Juan Garcia / [signature]	1169840	JG	1-24-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

LA-UR- 16-20943

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 1-18-16 to 1-24-16

	Monday 6.[4] Start Time: 1308	Tuesday 6.[4] Start Time: 1311	Wednesday 6.[4] Start Time: 1303	Thursday 6.[4] Start Time: 1304	Friday 6.[4] 1230 Start Time: 29.1 EP 1-22-16	Saturday 6.[4] Start Time: 1306	Sunday 6.[4] Start Time: 1306
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07052016 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 102116 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 102116 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912
Ambient Temperature (6.[5])	37.2 °F	41.1 °F	1-20-16 ~~1303~~ °F 43.2	39.2 °F	39.1 °F	41.8 °F	42.9 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519	36.9	41.2	42.8	39.6	40.0	42.0	43.4
69645	37.2	41.9	43.4	39.7	38.9	40.9	43.7
94068	36.9	41.3	43.1	39.4	39.9	41.5	43.8
93605	37.5	42.2	43.4	40.0	39.9	41.4	43.5
69548	37.6	42.0	43.2	38.4	40.3	41.1	43.2
69604	36.5	42.3	43.3	39.4	39.8	42.3	43.3
LASB50529	37.0	40.8	42.7	39.2	38.3	40.4	43.1
LASB50418	36.8	41.4	43.1	39.1	39.9	42.3	43.3
69036	37.6	41.4	43.0	39.9	39.8	40.8	43.1
LASB50451	36.6	42.1	43.4	39.8	40.8	41.6	43.6
69559	37.5	41.5	43.6	39.3	40.6	41.5	43.5
LASB50448	38.8	41.4	43.4	39.3	39.9	41.0	42.5
87827	38.8	43.4	42.2	39.0	41.2	42.5	45.0

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Z# 112907
INITIAL [illegible] DATE 01-18-2016

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6.[4] Date: From 1-18-16 to 1-24-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826	38.7	42.9	43.0	39.4	39.9	41.5	45.6
87823	38.3	42.2	43.3	39.4	41.2	43.5	43.9
87825	38.8	43.0	43.6	39.6	41.2	43.1	43.4
End Time (6.[12])	1514	1313	1306	1307	1235	1311	1311
6.[12]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]

Comments: N/A

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6.[4] Date: From 1-18-16 to 1-24-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Cordova		178607	VJC	01-18-2016
Tina Aguirre		174977	TA	1-18-16
Tina Aguirre		174977	TA	1-19-16
Leon Montoya		191526	LM	1-19-16
Tina Aguirre		174977	TA	1-20-16
Leon Montoya		191526	LM	1-20-16
Tina Aguirre		174977	TA	1-21-16
Leon Montoya		191526	LM	1-21-16
Edward Pacheco		100497	EP	11-22-16
Juan Garcia		169840	JG	11-22-16
Edward Pacheco		100497	EP	11-23-16
Juan Garcia		169840	JG	11-23-16
Edward Pacheco		100497	EP	11-24-16
Juan Garcia		169840	JG	11-24-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
Jackie Romero		187064	JR	11-24-16

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

6.[4] Date: From 1-25-16 to 1-31-16

	Monday 6.[4] Start Time: 1306	Tuesday 6.[4] Start Time: 1340	Wednesday 6.[4] Start Time: 1317	Thursday 6.[4] Start Time: 1316	Friday 6.[4] Start Time: 1316	Saturday 6.[4] Start Time: 1312	Sunday 6.[4] Start Time: 1309
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: FLUKE Model: 561 Cal. Due Date: 7/5/16 File Number 101974	Brand: FLUKE Model: 561 Cal. Due Date: 7/5/16 File Number 101974
Ambient Temperature (6.[5])	44.2 °F	42.4 °F	46.1 °F	47.1 °F	47.9 °F	49.8 °F	48.5 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685	44.5	44.6	47.3	47.6	48.7	50.1	49.8
LA00000070503 68540	45.0	43.3	46.4	48.8	50.3	51.2	49.3
LA00000070503 68553	44.9	44.6	45.9	48.3	49.9	51.2	49.9
69445	45.4	45.0	46.9	49.1	49.5	51.4	49.2
69618	45.0	44.7	46.3	49.1	49.8	51.1	49.2
69013	45.5	45.1	46.5	49.3	49.6	51.1	49.4
LASB50522	45.9	45.5	47.2	48.7	49.5	50.6	49.3
LASB50452	45.8	45.0	46.9	48.7	49.3	50.4	49.3
LASB50431	45.5	45.3	46.7	48.2	49.4	50.9	49.4
LASB50069	45.4	44.2	46.8	48.4	49.1	50.5	49.3
LASB50073	45.9	44.8	46.1	48.1	48.5	49.4	49.4
69636	45.7	45.3	46.5	48.5	49.1	50.2	48.9
69616	46.0	46.0	46.7	48.5	49.3	50.0	49.3
69417	45.6	45.4	46.9	48.5	49.7	50.5	49.8

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INITIAL QA DATE 1-25-16

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6.[4] Date: From 1-25-16 to 1-31-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1(continued)							
69620	45.0	45.6	46.7	48.5	48.4	50.1	48.3
69520	45.6	45.5	46.4	48.2	49.3	50.1	49.2
69641	45.9	46.0	46.9	48.6	49.7	50.6	49.6
69298	46.4	45.8	47.9	48.3	49.3	50.3	49.0
LASB02203	45.0	45.5	47.0	48.6	49.2	50.5	49.1
End Time (6.[12])	1310	1345	1322	1321	1321	1314	1311
6.[12]	NDO: QA NDO: LM	NDO: AM NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: CV NDO: [illegible]	NDO: CV NDO: LM

Comments:

N/C

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6.[4] Date: From 1-25-16 to 1-31-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Dan Aguirre		547927		1-25-16
Leon Montoya		V91526	LM	1-25-16
Juan Garcia		169840	JG	1-26-16
Leon Montoya		V91526	LM	1-26-16
Edward Pacheco	Edward Pacheco	100497	EP	1-27-16
Leon Montoya		V91526	LM	1-27-16
Edward Pacheco	Edward Pacheco	100497	EP	1-28-16
Leon Montoya		V91526	LM	1-28-16
Edward Pacheco	Edward Pacheco	100497	EP	1-29-16
Leon Montoya		V91526	LM	1-29-16
Chris Vigil		163082	CV	1/30/16
Leon Montoya		V91526	LM	1-30-16
Chris Vigil		163082	CV	1/31/16
Leon Montoya		V91526	LM	1-31-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 1-25-16 to 1-31-16

	Monday 6.[4] Start Time: 1311	Tuesday 6.[4] Start Time: 1347	Wednesday 6.[4] Start Time: 1324	Thursday 6.[4] 1323 Start Time: ~~1309~~ 1-28-16	Friday 6.[4] Start Time: 1322	Saturday 6.[4] Start Time: 1315	Sunday 6.[4] Start Time: 1317
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 070816 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 070816 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 0708-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 7/8/16 File Number 101916	Brand: FLUKE Model: 561 Cal. Due Date: 7/8/16 File Number 101916
Ambient Temperature (6.[5])	45.1 °F	44.3 °F	46.2 °F	48.1 °F	49.0 °F	49.4 °F	50.3 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198	43.7	43.5	45.0	46.0	48.2	48.7	49.8
68638	45.8	45.6	46.1	47.5	49.0	50.1	49.2
69615	46.8	46.0	47.3	49.2	50.5	50.5	49.7
69635	47.0	45.8	47.7	49.7	50.9	51.6	49.9
69642	48.2	47.8	49.1	50.7	51.0	52.6	50.5
69630	47.2	46.2	48.3	50.3	50.9	52.3	50.7
69633	46.1	45.7	46.1	47.5	50.2	52.1	49.0
68430	44.5	43.2	46.0	47.7	50.1	~~52.0~~ 52.2	48.8
68631	44.7	44.0	46.1	47.2	49.7	50.0	48.8
69634	44.4	42.8	45.1	47.0	48.7	50.0	49.8
68567	44.3	43.0	EP 1-27-16 ~~45.1~~ 45.0	45.9	48.1	49.9	49.1
94227	44.3	43.9	45.0	46.4	48.9	48.3	48.3
LASB50442	45.7	43.4	46.0	46.6	49.1	50.0	49.4
69644	44.8	43.6	46.0	47.0	49.8	49.4	49.7
LASB50443	45.7	44.9	46.9	48.1	49.9	50.1	49.7
69638	46.3	44.8	46.8	48.7	51.0	50.9	49.9

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INITIAL QA DATE 1-25-16

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6.[4] Date: From 1-25-16 to 1-31-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624	44.9	44.3	46.7	49.3	49.9	50.6	50.0
68507	43.9	43.1	45.7	47.3	49.4	50.3	50.1
69568	44.0	43.0	45.5	47.1	48.6	49.7	50.0
69553	44.6	42.6	45.2	46.3	48.8	49.5	49.3
69598	44.4	43.3	44.8	45.7	47.1	49.5	49.1
LASB50559	44.4	43.6	44.4	46.7	49.0	~~50.3~~ 49.5	49.9
69015	44.0	43.9	45.6	47.0	49.3	~~50.0~~ 50.3	49.4
69639	46.0	44.7	47.4	48.9	50.2	~~50.2~~ 50.0	50.7
69637	46.5	44.4	47.1	49.0	50.3	50.2	50.5
End Time (6.[12])	1315	1352	1329	~~1344~~ 1329	1328	1321	1318
6.[12]	NDO: DH NDO: LM	NDO: DH NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: CV NDO: LM	NDO: CV NDO: LM

Comments:

N/C

ATTACHMENT 3
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6.[4] Date: From 1-25-16 to 1-31-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Juan Aguirre	Juan Aguirre	169771	JA	1-25-16
Leon montoya	Leon montoya	191526	Lm	1-25-16
Juan Garcia	Juan Garcia	169840	JG	1-26-16
Leon montoya	Leon montoya	191526	Lm	1-26-16
Edward Pacheco	Edward Pacheco	100497	EP	1-27-16
Leon montoya	Leon montoya	191526	Lm	1-27-16
Edward Pacheco	Edward Pacheco	100497	EP	1-28-16
Leon montoya	Leon montoya	191526	Lm	1-28-16
Edward Pacheco	Edward Pacheco	100497	EP	11-29-16
Leon montoya	Leon montoya	191526	Lm	1-29-16
Chris Vigil	Chris Vigil	143082	CV	1-30-16
Leon montoya	Leon montoya	191526	Lm	1-30-16
Chris Vigil	Chris Vigil	143082	CV	1/31/16
Leon montoya	Leon montoya	191526	Lm	1-31-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
Page 1 of 3

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

6.[4] Date: From 1-25-16 to 1-31-16

	Monday 6.[4] Start Time: 1303	Tuesday 6.[4] Start Time: 1320	Wednesday 6.[4] Start Time: 1310	Thursday 6.[4] Start Time: 1309	Friday 6.[4] Start Time: 1310	Saturday 6.[4] Start Time: 1307	Sunday 6.[4] Start Time: 1305
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10/21/16 File Number 101912	Brand: FLUKE Model: 561 Cal. Due Date: 10/21/16 File Number 101912
Ambient Temperature (6.[5])	39.4 °F	38.6 °F	41.6 °F	43.2 °F	47.5 °F	49.3 °F	49.5 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519	39.8	39.4	41.7	43.6	48.6	49.6	49.0
69645	39.5	39.1	41.9	43.9	48.8	49.8	49.1
94068	39.2	38.9	41.7	43.1	48.4	49.6	48.8
93605	39.9	39.5	42.2	44.4	49.0	49.9	49.5
69548	39.2	39.0	41.5	44.0	48.7	49.4	49.0
69604	39.1	38.7	41.3	43.4	48.2	49.3	48.5
LASB50529	39.6	38.8	41.1	43.2	47.4	49.4	48.8
LASB50418	39.3	38.6	41.6	43.7	48.7	49.6	49.2
69036	39.2	38.6	41.8	43.6	48.7	49.8	48.8
LASB50451	39.7	38.9	42.2	44.4	49.0	49.9	49.5
69559	39.9	39.0	41.6	43.8	48.5	50.0	50.1
LASB50448	39.7	39.3	41.5	43.7	48.5	49.5	49.3
87827	39.3	39.2	42.2	43.8	48.8	48.4	44.8

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Z# 174927
INITIAL [illegible] DATE 1-25-16

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6.[4] Date: From 1-25-16 to 1-31-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826	39.5	39.2	42.3	43.8	48.5	48.0	48.4
87823	39.6	38.7	41.9	44.8	48.8	49.8	49.6
87825	39.7	38.7	42.3	44.7	48.9	50.1	49.3
End Time (6.[12])	1305	1324	1315	1314	1315	1311	1308
6.[12]	NDO: CH NDO: Lm	NDO: CH NDO: Lm	NDO: EP NDO: Lm	NDO: EP NDO: Lm	NDO: EP NDO: Lm	NDO: CV NDO: Lm	NDO: CV NDO: Lm

Comments:

ATTACHMENT 4

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6.[4] Date: From 1-25-16 to 1-31-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	[signature]	[illegible]	[illegible]	1-25-16
Leon Montoya	[signature]	119526	Lm	1-25-16
Juan Garcia	[signature]	1169840	JG	1-26-16
Leon Montoya	[signature]	119526	Lm	1-26-16
Edward Pacheco	[signature]	1100497	EP	1-27-16
Leon Montoya	[signature]	119526	Lm	1-27-16
Edward Pacheco	[signature]	1100497	EP	1-28-16
Leon Montoya	[signature]	119526	Lm	1-28-16
Edward Pacheco	[signature]	1100497	EP	1-29-16
Leon Montoya	[signature]	119526	Lm	1-29-16
Chris Vigil	[signature]	1163082	CV	1-30-16
Leon Montoya	[signature]	119526	Lm	1-30-16
Chris Vigil	[signature]	1163082	CV	1/31/16
Leon Montoya	[signature]	119526	Lm	1-31-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 02-01-16 to 02-07-16

	Monday 6.[4] Start Time: 1016	Tuesday 6.[4] Start Time: 1318	Wednesday 6.[4] Start Time: 1320	Thursday 6.[4] Start Time: 1323	Friday 6.[4] Start Time: 1307	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	40.6 °F	40.0 °F	40.3 °F	41.0 °F	41.5 °F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685	42.7	42.0	41.9	42.8	43 2		
LA00000070503 68540	42.2	41.7	41.8	43.2	43.1		
LA00000070503 68553	42.5	42.2	41.3	43.5	43.7		
69445	42.9	42 3	42.5	43.3	43.6		
69618	41.0	41.1	41.9	42.7	42.5		
69013	43.0	42.4	43.4	43.8	43.4		
LASB50522	44.2	43.9	43.7	43.8	44.4		
LASB50452	44.4	44.1	43.6	44.3	444		
LASB50431	44.1	43.7	43.8	44.1	444		
LASB50069	43.5	43.0	43.1	43.6	43.3		
LASB50073	44.2	43.6	43.6	43.6	43.6		
69636	44.4	44.0	44.4	44.5	45.9		
69616	44.2	44.2	43.6	44.2	44.5		
69417	44.1	44.0	44.1	44.1	446		

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Z# 191526
INITIAL LM DATE 2-1-16

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Page 2 of 3

6.[4] Date: From 02-01-16 to 02-07-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1 (continued)							
69620	44.0	43.6	43.4	44.5	44.1		
69520	44.3	44.4	44.3	44.3	44.4		
69641	44.5	44.2	44.5	44.3	44.7		
69298	44.8	44.3	44.5	46.5	44.7		
LASB02203	44.1	44.2	44.5	45.0	44.5		
End Time (6.[12])	1021	1321	1324	1327	1312		
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 02-01-16 to 02-07-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Edward Padilla	Edward Padilla	100497	EP	2-1-16
Juan Garcia	Juan Garcia	169840	JG	2-1-16
Tina Aguirre	Tina Aguirre	174977	TA	2-2-16
Leon Montoya	Leon Montoya	191526	LM	2-2-16
Tina Aguirre	Tina Aguirre	174977	TA	2-3-16
Leon Montoya	Leon Montoya	191526	LM	2-3-16
Tina Aguirre	Tina Aguirre	174977	TA	2-4-16
JUAN GARCIA	Juan Garcia	169840	JG	2-4-16
Carlos Trujillo	Carlos Trujillo	112807	CT	2-5-16
Tina Aguirre	Tina Aguirre	174977	TA	12-5-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 02-01-16 to 02-07-16

	Monday 6.[4] Start Time: 1023	Tuesday 6.[4] Start Time: 1330	Wednesday 6.[4] Start Time: ~~1327~~ 1326	Thursday 6.[4] Start Time: 1328	Friday 6.[4] Start Time: ~~1330~~ 1313	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	44.6 °F	46.6 °F	44.4 °F	44.3 °F	45.5 °F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198	44.9	46.2	43.8	44.4	45.0		
68638	45.1	45.8	45.3	45.1	45.9		
69615	45.0	46.4	45.7	47.8	46.8		
69635	46.0	46.8	46.3	47.0	47.1		
69642	45.5	45.9	45.9	46.5	47.1		
69630	45.5	45.8	45.7	46.9	47.1		
69633	46.0	46.3	46.1	46.6	46.7		
68430	45.4	46.0	45.3	46.5	46.4		
68631	45.0	45.9	45.7	45.4	46.2		
69634	45.2	45.6	45.1	44.9	45.4		
68567	45.0	45.5	44.5	45.0	44.9		
94227	45.2	46.0	45.6	45.6	46.0		
LASB50442	45.9	46.6	46.0	46.1	46.7		
69644	45.4	46.4	45.9	46.3	46.7		
LASB50443	45.2	46.2	46.16	47.1	45.8		
69638	46.4	46.8	45.4	46.3	47.0		

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 02-01-16 to 02-07-16

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624	45.6	46.6	45.8	48.7	46.6		
68507	46.8	46.4	46.0	45.7	46.7		
69568	45.3	46.1	46.0	45.4	45.6		
69553	45.2	46.1	45.0	45.4	45.0		
69598	44.8	45.6	44.2	44.6	44.9		
LASB50559	45.9	46.3	44.5	45.6	45.8		
69015	46.1	47.0	46.7	49.2	47.6		
69639	46.3	47.5	46.9	47.3	47.6		
69637	46.5	47.1	47.0	47.2	47.7		
End Time (6.[12])	1630	1334	1329	1332	1321		
6.[12]	NDO: TP NDO:	NDO: QA NDO: Lm	NDO: QA NDO: Lm	NDO: QA NDO:	NDO: MR NDO: QA	NDO: NDO:	NDO: NDO:

Comments:

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6.[4] Date: From 02-01-16 to 02-07-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Edward Pacheco	Edward Pacheco	100497	EP 100497 2-1-16	2-1-16
Juan Garcia	Juan Garcia	169840	JG	2-1-16
Tina Aguirre	Tina Aguirre	172977	TA	2-2-16
Leon Montoya	Leon Montoya	191526	LM	2-2-16
Tina Aguirre	Tina Aguirre	172977	TA	2-3-16
Leon Montoya	Leon Montoya	191526	LM	2-3-16
Tina Aguirre	Tina Aguirre	172977	TA	2-4-16
JUAN GARCIA	Juan Garcia	169840	JG	2-4-16
William J Candelaria	William J Candelaria	172977	WC	2-5-16
Tina Aguirre	Tina Aguirre	172977	TA	2-5-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 02-01-16 to 02-07-16

	Monday 6.[4] Start Time: 1005	Tuesday 6.[4] Start Time: 1311	Wednesday 6.[4] Start Time: 1317 (1348)	Thursday 6.[4] Start Time: 1319	Friday 6.[4] Start Time: 1301	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 10-21-16 Cal. Due Date: ~~07-27-~~ 10-27-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	43.2 °F	42.7 °F	42.9 °F	43.5 °F	43.0 °F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519	43.8	43.8	44.1	44.1	44.3		
69645	44.1	44.0	44.1	44.0	44.4		
94068	45.3	44.0	44.1	43.8	44.0		
93605	43.9	43.7	43.9	44.3	42.8		
69548	43.5	43.5	44.2	43.7	43.6		
69604	43.8	43.2	43.6	43.7	43.6		
LASB50529	43.6	43.9	43.7	43.4	43.9		
LASB50418	43.7	44.1	43.6	43.4	43.6		
69036	43.6	43.1	43.5	43.5	43.4		
LASB50451	42.4	42.7	43.7	43.4	43.7		
69559	43.2	43.5	43.9	43.0	43.6		
LASB50448	43.0	42.9	43.3	43.2 (42)	43.3		
87827	43.6	42.7	43.3	44.8	42.8		

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Z# 191526

INITIAL vm DATE 2-1-16

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6.[4] Date: From 02-01-16 to 02-07-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826	43.2	43.2	42.8	43.7	43.8		
87823	44.7	42.7	42.5	42.8	42.7		
87825	43.0	42.9	43.4	43.1	43.0		
End Time (6.[12])	1010	1114	1319	1322	1306		
6.[12]	NDO: EP NDO:	NDO: QA NDO: Lm	NDO: QA NDO: Lm	NDO: QA NDO:	NDO: LMS NDO: QA	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 3

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6.[4] Date: From 02-01-16 to 02-07-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Edward Pacheco	[signature]	100497	EP	2-1-16
Juan Garcia	[signature]	169840	JG	2-1-16
Tina Aguirre	[signature]	124977	TA	2-2-16
Leon Montoya	[signature]	119526	LM	2-2-16
Tina Aguirre	[signature]	124977	TA	2-3-16
Leon Montoya	[signature]	119526	LM	2-3-16
Tina Aguirre	[signature]	124977	TA	2-4-16
JUAN GARCIA	[signature]	169840	JG	2-4-16
Willie J[illegible]	[signature]	[illegible]	[illegible]	2-5-16
Tina Aguirre	[signature]	124977	TA	2-5-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
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TA-54-0375 CELL 1 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 2-6-16 to 2-7-16

	Monday 6.[4] Start Time:	Tuesday 6.[4] Start Time:	Wednesday 6.[4] Start Time:	Thursday 6.[4] Start Time:	Friday 6.[4] Start Time:	Saturday 6.[4] Start Time: 1307	Sunday 6.[4] Start Time: 1307
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: Fluke Model: 561 Cal. Due Date: 7-5-2016 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-2016 File Number 101974
Ambient Temperature (6.[5])	____ °F	____ °F	____ °F	____ °F	____ °F	44.5 °F	45.9 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685						45.3	46.9
LA00000070503 68540						45.2	47.0
LA00000070503 68553						45.0	47.6
69445						45.8	47.5
69618						44.9	46.5
69013						45.1	47.0
LASB50522						46.3	47.2
LASB50452						46.0	47.2
LASB50431						46.1	46.9
LASB50069						45.7	46.8
LASB50073						45.4	46.5
69636						45.3	47.6
69616						46.0	47.5
69417						45.8	47.3

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Z# 112907
INITIAL [illegible] DATE 2.6.16

ATTACHMENT 2
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6.[4] Date: From 2-6-16 to 2-7-16

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1 (continued)							
69620						46.1	46.9
69520						46.0	47.2
69641						46.0	47.3
69298						46.2	47.4
LASB02203						46.2	46.8
End Time (6.[12])						1312	1310
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]

Comments: New forms used due to original forms locked in gov vehicle and keys are in OPS Center and no entry due to work in building

ATTACHMENT 2
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6.[4] Date: From 2-6-16 to 2-7-16

6.[16] Performed by:

Nitrate Drum Observer (print) Signature	Z#	Initials	Date
Willie J. Cole	112507	WJC	2-6-16

Nitrate Drum Observer (print) Signature	Z#	Initials	Date
Willie J. Cole	112507	WJC	2-6-16
Tina Aguirre	174977A	TA	2-6-16
Willie J. Cole	112507	WJC	2-7-16
Tina Aguirre	174977A	TA	2-7-16

10.1[2] Reviewed by:

SOM or designee (print) Signature	Z#	Initials	Date

ATTACHMENT 3
Page 1 of 3

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

6.[4] Date: From 2-6-16 to 2-7-16

	Monday 6.[4] Start Time: _____	Tuesday 6.[4] Start Time: _____	Wednesday 6.[4] Start Time: _____	Thursday 6.[4] Start Time: _____	Friday 6.[4] Start Time: _____	Saturday 6.[4] Start Time: 1313	Sunday 6.[4] Start Time: 1311
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____	Brand: _____ Model: _____ Cal. Due Date: _____ File Number _____	Brand: Fluke Model: 561 Cal. Due Date: 7-8-2016 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-2016 File Number 101916
Ambient Temperature (6.[5])	_____ °F	_____ °F	_____ °F	_____ °F	_____ °F	44.9 °F	47.5 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198						44.8	46.5
68638						45.9	47.7
69615						46.9	48.7
69635						47.2	45.1
69642						48.0	49.3
69630						47.5	49.0
69633						46.5	48.4
68430						46.5	48.0
68631						45.7	48.1
69634						44.9	47.2
68567						44.1	46.1
94227						46.0	47.5
LASB50442						46.7	48.8
69644						46.5	48.5
LASB50443						45.8	48.6
69638						47.7	49.2

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Z# 112907
INITIAL [illegible] DATE 2-6-16

LA-UR- 16-20943

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 2-6-16 to 2-8-16 (7-2-16)

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624						47.3	48.7
68507						46.9	48.8
69568						46.7	47.7
69553						45.1	46.9
69598						45.7	46.8
LASB50559						46.1	47.9
69015						47.7	49.3
69639						47.9	49.3
69637						48.5	49.8
End Time (6.[12])						1319	1318
6.[12]	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: LDC NDO: CK	NDO: LDC NDO: CK

Comments: New forms used due to ~~storage~~ forms in locked vehicle and keys in Ops Center, There was no entry to Ops Center due to work being done.

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 2-6-16 to 2-7-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Poole	[signature]	112507	WJP	2-6-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Poole	[signature]	112507	WJP	2-6-16
Tina Aguirre	[signature]	124977	TA	2-6-16
Willie J. Poole	[signature]	112507	WJP	2-7-16
Tina Aguirre	[signature]	124977	TA	2-7-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 2-6-16 to 2-7-16

	Monday 6.[4] Start Time:	Tuesday 6.[4] Start Time:	Wednesday 6.[4] Start Time:	Thursday 6.[4] Start Time:	Friday 6.[4] Start Time:	Saturday 6.[4] Start Time: 1301	Sunday 6.[4] Start Time: 1302
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: ____ Model: ____ Cal. Due Date: ____ File Number ____	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number ~~101912~~ 101911
Ambient Temperature (6.[5])	____ °F	____ °F	____ °F	____ °F	____ °F	44.1 °F	46.1 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519						45.2	47.0
69645						45.0	47.0
94068						44.9	46.6
93605						44.1	47.3
69548						44.3	46.1
69604						44.3	46.3
LASB50529						45.1	46.4
LASB50418						44.6	46.7
69036						44.8	46.8
LASB50451						44.7	46.1
69559						44.8	46.2
LASB50448						44.1	45.9
87827						44.1	47.0

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Z# 172907
INITIAL LA DATE 2-6-16

ATTACHMENT 4
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6.[4] Date: From 2-6-16 to 2-7-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826						44.7	47.1
87823						45.9	46.8
87825						44.5	47.3
End Time (6.[12])						1306	1306
6.[12]	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: _____ NDO: _____	NDO: LOL NDO: LA	NDO: LOL NDO: LA

Comments: New forms used due to paperwork in Official Vehicle & keys in Ops Center
no Entry allowed due to work inside Ops Center.

ATTACHMENT 4
Page 3 of 3

6.[4] Date: From 2-6-16 to 2-8-16 2-7-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Robb	Willie J. Robb	112507	WJR	2-6-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Willie J. Robb	Willie J. Robb	112507	WJR	2-6-16
Tina Aguirre	Tina Aguirre	174990A		2-6-16
Willie J. Robb	Willie J. Robb	112507	WJR	2-7-16
Tina Aguirre	Tina Aguirre	174990A		2-7-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 2
Page 1 of 3

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

6.[4] Date: From 2-8-16 to 2-14-16

	Monday 6.[4] Start Time: 1328	Tuesday 6.[4] Start Time: 1319	Wednesday 6.[4] Start Time: ~~1307~~ 1311 (2-10-16)	Thursday 6.[4] Start Time: 1310	Friday 6.[4] Start Time: 1319	Saturday 6.[4] Start Time: 1312	Sunday 6.[4] Start Time: 1309
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/5/16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7/5/16 File Number 101974
Ambient Temperature (6.[5])	50.1 °F	50.1 °F	50.8 °F	51.2 °F	52.4 °F	51.2 °F	50.3 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685	49.7	50.9	50.9	51.4	52.6	52.2	50.7
LA00000070503 68540	52.9	50.9	51.5	51.9	53.2	52.6	51.1
LA00000070503 68553	51.1	51.2	51.7	51.9	53.2	52.5	51.0
69445	50.7	51.4	52.1	52.1	53.3	52.5	51.0
69618	50.9	51.8	51.8	51.9	53.3	53.0	51.0
69013	53.1	51.1	52.0	51.8	52.3	51.0	51.6
LASB50522	50.0	~~50.9~~ 50.8 (2-11)	51.2	51.7	51.6	51.6	51.8
LASB50452	50.3	50.9	50.7	51.0	52.0	51.6	50.8
LASB50431	50.1	51.6	50.9	51.4	51.6	51.7	50.1
LASB50069	49.6	50.8	51.0	51.1	51.6	51.8	50.3
LASB50073	53.1	49.9	50.2	50.6	51.3	50.3	49.7
69636	49.8	50.8	50.6	50.9	51.8	51.6	50.1
69616	50.4	51.5	51.2	51.1	50.6	51.7	50.0
69417	50.5	50.8	51.5	51.1	51.9	51.9	50.4

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Z# 174977
INITIAL QA DATE 2-9-16

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6.[4] Date: From 2-8-16 to 2-14-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1 (continued)							
69620	51.3	50.7	50.5	51.0	51.9	51.4	50.5
69520	51.2	50.7	50.4	50.9	51.5	50.0	50.7
69641	50.5	50.6	51.1	51.2	51.9	51.5	50.0
69298	50.0	51.2	51.0	51.4	51.5	51.2	50.5
LASB02203	49.8	50.3	50.6	51.4	51.9	51.7	50.0
End Time (6.[12])	1331	1323	1315	1314	1325	1316	1311
6.[12]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]

Comments:

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 2-8-16 to 2-14-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	TA	12-8-16
JUAN GARCIA	Juan Garcia	169840	JG	12-8-16
Tina Aguirre	Tina Aguirre	174977	TA	12-9-16
Juan Garcia	Juan Garcia	169840	JG	12-9-16
Tina Aguirre	Tina Aguirre	174977	TA	12-10-16
Leon Montoya		191526	LM	12-10-16
Tina Aguirre	Tina Aguirre	174977	TA	12-11-16
Leon Montoya		191526	LM	12-7-16
Edward Pacheco	Edward Pacheco	100497	EP	12-12-16
Leon Montoya		191526	LM	12-13-16
Michael Vigil	Michael Vigil	215267	MV	12/13/16
Leon Montoya		191526	LM	12-13-16
Michael Vigil	Michael Vigil	215267	MV	12/14/16
Leon Montoya		191526	LM	12-14-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 3
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TA-54-0375 CELL 2 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 2-8-16 to 2-14-16

	Monday 6.[4] Start Time: 1332	Tuesday 6.[4] Start Time: 1324	Wednesday 6.[4] Start Time: 1316	Thursday 6.[4] Start Time: 1315	Friday 6.[4] Start Time: 1326	Saturday 6.[4] Start Time: 1318	Sunday 6.[4] Start Time: 1312
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7/8/16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7/8/16 File Number 101916
Ambient Temperature (6.[5])	50.5 °F	49.5 °F	51.0 °F	51.2 °F	50.3 °F	50.9 °F	50.5 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198	48.7	49.2	50.0	49.8	49.2	49.8	49.5
68638	49.7	49.9	50.5	50.6	49.9	50.5	49.7
69615	50.5	51.0	51.5	51.8	51.2	51.3	50.7
69635	52.7	51.5	51.9	52.2	51.6	51.9	51.5
69642	51.3	51.3	52.3	52.5	52.4	52.5	51.8
69630	50.0	51.4	53.1	52.4	52.0	52.3	51.7
69633	49.7	51.4	51.4	52.0	51.6	51.5	50.9
68430	50.1	50.8	51.1	51.6	50.8	50.8	50.8
68631	49.7	50.7	50.6	51.8	50.1	51.1	50.4
69634	50.4	49.6 49.1	50.8	51.5	50.0	50.1	50.0
68567	48.0	49.2	50.0	50.6	49.7	50.2	50.0
94227	50.9	50.3	50.4	50.7	50.1	50.6	50.6
LASB50442	49.5	50.2	51.3	51.4	50.7	50.7	51.6
69644	50.7	50.2	51.1	51.2	50.8	50.7	50.6
LASB50443	50.5	51.4	51.2	51.6	51.3	51.4	51.1
69638	51.1	51.0	52.3	52.1	51.5	51.9	51.5

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Z# 174927
INITIAL QA DATE 2-8-16

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6.[4] Date: From 2-8-16 to 2-14-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624	50.0	50.6	51.2	51.3	51.3	51.3	51.8
68507	50.2	50.5	50.9	50.8	50.7	50.6	50.3
69568	50.3	51.4	50.0	50.9	50.5	50.6	49.8
69553	49.4	49.8	50.0	50.6	49.9	50.6	49.4
69598	47.9	49.7	50.3	50.8	49.3	49.6	50.0
LASB50559	49.0	50.2	50.8	50.2	49.9	50.0	50.4
69015	51.0	51.0	51.1	51.1	51.2	50.8	51.1
69639	50.4	50.9	51.4	51.5	50.8	51.0	50.6
69637	50.6	51.7	51.0	51.1	50.3	50.7	51.7
End Time (6.[12])	1337	1334	1320	1319	1333	1327	1314
6.[12]	NDO: QA NDO: [signature]	NDO: QA NDO: [signature]	NDO: QA NDO: [signature]	NDO: QA NDO: [signature]	NDO: RP NDO: [signature]	NDO: MV NDO: [signature]	NDO: MV NDO: [signature]

Comments:

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 2-8-16 to 2-14-16

6.[16] Performed by:

Nitrate Drum Observer (print) Signature	Z#	Initials	Date
Tina Aguirre	174977	TA	12-8-16
JUAN GARCIA	169840		12-8-16
Tina Aguirre	174977	TA	12-9-16
Juan Garcia	169840		12-9-16
Tina Aguirre	174977	TA	12-10-16
Leon Montoya	191526	LM	12-10-16
Tina Aguirre	174977	TA	12-11-16
Leon Montoya	191526	LM	12-11-16
Edward Pacheco	160048	EP	12-12-16
Leon Montoya	191526	LM	12-12-16
Michael Vigil	215267	MV	12/13/16
Leon Montoya	191526	LM	12-13-16
Michael Vigil	215267	MV	12/14/16
Leon Montoya	191526	LM	12-14-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

ATTACHMENT 4
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TA-54-0375 CELL 3 RNS WASTE CONTAINER DAILY TEMPERATURE DATA SHEET

6.[4] Date: From 2-8-16 to 2-14-16

	Monday 6.[4] Start Time: 1324	Tuesday 6.[4] Start Time: 1316	Wednesday 6.[4] Start Time: 1307	Thursday 6.[4] Start Time: 1307	Friday 6.[4] Start Time: 1307	Saturday 6.[4] Start Time: 1307	Sunday 6.[4] Start Time: 1306
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10/21/16 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 10/21/16 File Number 101912
Ambient Temperature (6.[5])	49.3 °F	49.8 °F	50.0 °F	50.5 °F	51.3 °F	51.1 °F	52.2 °F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519	49.5	49.6	49.7	49.8	50.6	50.2	49.7
69645	49.6	50.5	50.2	50.3	51.0	50.8	50.1
94068	49.3	49.5	50.5	50.6	51.2	50.9	49.9
93605	49.9	50.2	50.7	50.8	51.6	51.2	50.2
69548	49.7	48.3	50.1	50.5	51.2	50.9	50.1
69604	49.0	49.5	50.0	50.7	51.2	50.8	50.0
LASB50529	50.1	49.5	50.1	51.5	50.3	51.2	50.0
LASB50418	49.2	49.6	50.4	51.3	51.2	51.0	50.2
69036	50.8	49.4	50.5	50.7	51.6	51.5	50.0
LASB50451	49.5	50.3	50.7	51.0	51.4	51.9	50.5
69559	49.6	50.2	50.3	50.4	51.6	51.1	50.2
LASB50448	49.2	49.6	52.7	50.5	51.6	51.7	49.6
87827	50.6	50.0	49.8	49.7	50.0	50.8	49.5

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Z# 174927
INITIAL Ork DATE 2-8-16

ATTACHMENT 4
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6.[4] Date: From 2-8-16 to 2-14-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826	50.3	50.3	50.4	50.1	50.7	50.7	49.6
87823	49.3	50.4	50.2	50.6	52.0	51.2	50.5
87825	48.9	50.3	50.4	50.6	52.0	51.4	50.1
End Time (6.[12])	1327	1318	1310	1309	1313	1310	1308
6.[12]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: [signature] NDO: [signature]	NDO: EP NDO: [signature]	NDO: MV NDO: [signature]	NDO: MV NDO: [signature]

Comments:

ATTACHMENT 4
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6.[4] Date: From 2-8-16 to 2-14-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	TA	2-8-16
JUAN GARCIA	Juan Garcia	168840	JG	2-8-16
Tina Aguirre	Tina Aguirre	174977	TA	2-9-16
Juan Garcia	Juan Garcia	168840	JG	2-9-16
Tina Aguirre	Tina Aguirre	174977	TA	2-10-16
Leon montoya	Leon Montoya	191526	LM	2-10-16
Tina Aguirre	Tina Aguirre	174977	TA	2-11-16
Leon montoya	Leon Montoya	191526	LM	2-11-16
Edward Padilla	Edward Padilla	100497	EP	2-12-16
Leon montoya	Leon Montoya	191526	LM	2-12-16
Michael Vigil	Michael Vigil	215267	MV	2/13/16
Leon montoya	Leon Montoya	191526	LM	2/13/16
Michael Vigil	Michael Vigil	215267	MV	2/14/16
Leon montoya	Leon Montoya	191526	LM	2-14-16

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 2-15-16 to 2-21-16

	Monday 6.[4] Start Time: 1309	Tuesday 6.[4] Start Time: 1330	Wednesday 6.[4] Start Time:	Thursday 6.[4] Start Time:	Friday 6.[4] Start Time:	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 1							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 07/05/16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 101974	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	50.6 °F	52.9 °F	°F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
68685	49.3	51.9					
LA00000070503 68540	49.3	52.4					
LA00000070503 68553	49.7	52.9					
69445	49.6	53.5					
69618	49.4	53.1					
69013	49.9	52.3					
LASB50522	49.6	52.4					
LASB50452	50.0	51.5					
LASB50431	50.0	51.8					
LASB50069	49.6	52.1					
LASB50073	48.1	50.5					
69636	49.2	52.0					
69616	49.4	51.7					
69417	48.6	51.9					

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6.[4] Date: From 2-25-16 to 2-21-16

Container ID #	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 1 (continued)							
69620	49.1	51.8					
69520	49.5	51.5					
69641	50.0	51.6					
69298	49.3	51.3					
LASB02203	48.8	51.5					
End Time (6.[12])	1311	1335					
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

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6.[4] Date: From 2-15-16 to 2-21-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Michael Vigil	Michael Vigil	215267	MV	02/15/16
Leon Montoya	Leon Montoya	191526	LM	2-15-16
Edward Pardon	Edward Pardon	100497	EP	2-16-16
Leon Montoya	Leon Montoya	191526	LM	2-16-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 2-15-16 to 2-21-16

	Monday 6.[4] Start Time: 1312	Tuesday 6.[4] Start Time: 1336	Wednesday 6.[4] Start Time:	Thursday 6.[4] Start Time:	Friday 6.[4] Start Time:	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: Fluke Model: 561 Cal. Due Date 07/08/16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	50.5 °F	49.9 °F	°F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
LASB02198	49.1	50.0					
68638	49.8	50.4					
69615	50.5	51.4					
69635	51.1	51.7					
69642	51.4	52.4					
69630	51.2	52.2					
69633	51.0	50.8					
68430	50.6	50.7					
68631	51.2	49.9					
69634	49.5	50.1					
68567	49.2	50.2					
94227	49.8	50.4					
LASB50442	50.8	50.7					
69644	50.5	50.9					
LASB50443	50.3	51.6					
69638	50.6	51.4					

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6.[4] Date: From 2-15-16 to 2-21-16

Container ID #	Monday Temp (°F) (6.[6]/6.[7])	Tuesday Temp (°F) (6.[6]/6.[7])	Wednesday Temp (°F) (6.[6]/6.[7])	Thursday Temp (°F) (6.[6]/6.[7])	Friday Temp (°F) (6.[6]/6.[7])	Saturday Temp (°F) (6.[6]/6.[7])	Sunday Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 2 (continued)							
68624	50.7	51.0					
68507	50.4	51.6					
69568	50.0	50.6					
69553	49.3	49.8					
69598	49.7	50.0					
LASB50559	49.6	50.3					
69015	50.6	50.7					
69639	51.2	51.4					
69637	50.8	51.1					
End Time (6.[12])	1314	1341					
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

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6.[4] Date: From 2-15-16 to 2-21-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Michael Vigil	Michael Vigil	215267	MV	02/15/16
Leon Montoya		191526	LM	2-15-16
Edward Pacheco	Edward Pacheco	100497	EP	2-16-16
Leon Montoya		191526	LM	2-16-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date

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

6.[4] Date: From 2-15-16 to 2-21-16

	Monday 6.[4] Start Time: 1306	Tuesday 6.[4] Start Time: ~~1018~~ 1325 2-16-16	Wednesday 6.[4] Start Time:	Thursday 6.[4] Start Time:	Friday 6.[4] Start Time:	Saturday 6.[4] Start Time:	Sunday 6.[4] Start Time:
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 Cal. Due Date: 10/21/16 File Number 10912	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 10912	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	49.1 °F	51.6 °F	°F	°F	°F	°F	°F
Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
69519	49.0	50.6					
69645	49.3	50.9					
94068	49.3	51.1					
93605	49.8	51.5					
69548	49.3	51.1					
69604	49.3	50.8					
LASB50529	49.1	51.2					
LASB50418	49.1	51.0					
69036	49.0	51.3					
LASB50451	49.6	51.6					
69559	49.4	51.5					
LASB50448	49.0	51.3					
87827	49.1	51.2					

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6.[4] Date: From 2-15-16 to 2-21-16

Container ID #	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])	Temp (°F) (6.[6]/6.[7])
TA-54-0375 Cell 3 (continued)							
87826	49.2	50.9					
87823	49.3	51.8					
87825	49.1	52.5					
End Time (6.[12])	1308	1329					
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

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6.[4] Date: From 2-15-16 to 2-21-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Michael Vigil	Michael Vigil	215267	MV	02/15/16
Evan Montoya		191526	EM	2-15-16
Edward Pacheco	Edward Pacheco	100497	EP	2-16-16
Evan Montoya		191526	EM	2-16-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date