From: Juarez, Catherine L
Sent: Wednesday, March 16, 2016 4:14 PM
To: Ryan.Flynn@state.nm.us; Jeff.Kendall@state.nm.us; Kieling, John, NMENV (john.kieling@state.nm.us) <john.kieling@state.nm.us>; siona.briley@state.nm.us; ricardo.maestas@state.nm.us; Gregory.Lauer@state.nm.us; coleman.smith@state.nm.us; butch.tongate@state.nm.us; Cobrain, Dave, NMENV (dave.cobrain@state.nm.us) <dave.cobrain@state.nm.us>; kathryn.roberts@state.nm.us; Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>
Cc: Maggiore, Peter <maggiore@lanl.gov>; DeRoma, Silas <silas.deroma@nnsa.doe.gov>; Cummings, Lisa K <lisa.cummings@nnsa.doe.gov>; Nickless, David J <david.nickless@nnsa.doe.gov>; Pugh, Jody M <jody.pugh@nnsa.doe.gov>; Bishop, Milton L <lee.bishop@em.doe.gov>; Arnswald, Jordan <Jordan.Arnswald@nnsa.doe.gov>; adrienne.nash@nnsa.doe.gov; Armijo, Karen (CONTR <Karen.Armijo@nnsa.doe.gov>; Mairson, William Raymond <wrmairson@lanl.gov>; Torres, Enrique <etorres@lanl.gov>; Woitte, Deborah Kay <dwoitte@lanl.gov>; McMichael, Susan Lynn <smcmichael@lanl.gov>; Brandt, Michael Thomas <mtbrandt@lanl.gov>; Sharp-Geiger, Raeanna Racine <raeanna@lanl.gov>; Grieggs, Tony <grieggst@lanl.gov>; Bacigalupa, Gian A <gian@lanl.gov>; Baumer, Andy <andybaumer@lanl.gov>; Martinez, Saundra <saundra@lanl.gov>; Schreiber, Arleen Thorn <arleen@lanl.gov>; Maestas, Pamela Therese <pamela@lanl.gov>; Hargis, Kenneth Marshall <khargis@lanl.gov>; Cabbil, Cheryl Denise <cabbil@lanl.gov>; Erickson, Randy <rerickson@lanl.gov>; Funk, David John <djf@lanl.gov>; Frederici, Dave <def@lanl.gov>; Robinson, Bruce Alan <robinson@lanl.gov>; McCann, John Phillips <jmccann@lanl.gov>; Tymkowych, John M <jtymkowych@lanl.gov>; Branch, Yvette S <ybranch@lanl.gov>; Guffee, Debi <dguffee@lanl.gov>; Saladen, Michael Thomas <saladen@lanl.gov>; epccat@lanl.gov; Diaz, Tammy <tdiaz@lanl.gov>; Haagenstad, Mark P <mph@lanl.gov>; Martinez, Lydia Emma <lydia@lanl.gov>; Naranjo, Felicia Danielle <felicia@lanl.gov>; Juarez, Catherine L <cjuarez@lanl.gov>; Vigil-Holterman, Luciana R <luciana@lanl.gov>
Subject: Monthly Technical Submittal -February 18, 2016 - March 16, 2016

Linked below is the written monthly technical submittal for February 18, 2016 – March 16, 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 March 16, 2016.pdf

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
Mobile: (505) 699-1733

NMED / LANL Technical Summary

February 18, 2016 – March 16, 2016

Participants:

- New Mexico Environment Department: Neelam Dhawan and Siona Briley.
- LANL – Los Alamos National Security: Mark Haagenstad, Luciana Vigil-Holterman, Felicia Naranjo, Lydia Martinez 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 28 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.
    - February 17, 2016 – March 15, 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 March 15, 2016, LANL has completed HSG sampling for the month on 53 containers.
        - March 1, 2, 3, 8, 9 and 15, 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).
    - March 3, 7, 10 and 14, 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 high winds and wildland fire concerns, a fire break will be created in Cañada De Buey, north of TA-54 Area G, Dome 375. The fire break will be outside of permitted unit boundaries.
- The LANL Nitrate Salt-Bearing Waste Container Isolation Plan Rev. 5 was delivered to the NMED-HWB on March 11, 2016.

Next Call: Wednesday, April 20, 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
02/17/16	156	224	4402	982																
02/18/16	140	204	4317	946	162	350	7148	814	91	202	3892	179	366	465	8191	1321	379	670	12261	1428
02/19/16	150	200	4160	936																
02/20/16	154	232	4500	963																
02/21/16	152	227	4378	998																
02/22/16	135	179	3996	893	156	304	6628	759	119	246	5139	234	357	441	7998	1337	472	789	14586	1719
02/23/16																				
02/24/16	150	213	4173	893																
02/25/16	140	183	3817	903	172	302	6298	733	108	223	4380	220	282	425	7046	1191	474	739	13358	1594
02/26/16	159	211	4441	994																
02/27/16	160	191	4517	1010																
02/28/16	154	200	4132	937																
02/29/16	139	220	4118	954	169	355	6979	807	122	245	5164	250	365	458	8157	1379	503	800	14658	1762
03/01/16	141	208	4101	978																
03/02/16	148	222	4099	926																
03/03/16	140	215	4115	934	140	339	7270	843	118	293	5538	247	345	462	8087	1337	464	806	14414	1696
03/04/16	157	208	4316	1005																
03/05/16	154	226	4340	948																
03/06/16	140	211	3965	877																
03/07/16	143	203	4116	910	160	323	7378	845	122	268	5561	260	354	455	8221	1371	276	643	12969	1528
03/08/16	155	242	4568	1026																
03/09/16	152	216	4141	907																
03/10/16	134	197	4062	927	152	348	7098	801	106	273	4982	244	171	339	7020	1158	120	306	7041	800
03/11/16	154	224	4635	1004																
03/12/16	158	238	4459	1004																
03/13/16	152	201	4143	937																
03/14/16	137	214	4261	934	173	395	8286	929	122	280	5611	264	352	462	8117	1325	450	814	14628	1736
03/15/16	149	218	3916	933																

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
02/17/16					641	508	26269	1320												
02/18/16	784	532	7380	1243	612	515	25963	1336												
02/19/16					643	465	25436	1256												
02/20/16					649	509	25974	1348												
02/21/16					666	532	27278	1409												
02/22/16	773	506	7309	1260	634	513	26383	1336												
02/23/16																				
02/24/16					618	496	25253	1290												
02/25/16	784	488	7002	1263	632	485	24650	1279												
02/26/16					670	499	27411	1415												
02/27/16					661	510	26831	1401												
02/28/16					613	513	25158	1309												
02/29/16	752	508	7415	1314	621	493	25452	1339												
03/01/16					676	539	26700	1405									33	0	558	52
03/02/16					627	498	24124	1278												
03/03/16	753	559	7721	1313	656	543	27189	1419												
03/04/16					645	494	26407	1458												
03/05/16					628	512	26216	1365												
03/06/16					623	507	25406	1361												
03/07/16	746	512	7715	1313	610	483	26045	1389												
03/08/16					666	529	27047	1475												
03/09/16					642	516	25986	1408	217	227	3395	599	96	45	856	34				
03/10/16	763	540	7617	1303	652	515	26585	1460												
03/11/16					643	528	26365	1440												
03/12/16					666	521	26469	1436												
03/13/16					670	504	26685	1451												
03/14/16	765	553	7613	1281	649	547	27021	1475												
03/15/16					640	478	24385	1340												

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**
02/17/16																				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16																	29	0	334	0
03/02/16																				
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16					44	78	982	108												
03/09/16									14	0	336	29	12	0	208	0				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16	26	0	203	43																

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
02/17/16					81	29	224	104												
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16													3	0	-313	0	280	310	4012	417
03/02/16									696	652	8167	1244								
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16	74	57	837	65																
03/09/16																				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16																				

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**
02/17/16									13	0	359	55	218	247	2558	688				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16					58	96	1172	496												
03/02/16																				
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16																				
03/09/16																	105	75	259	214
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16	304	280	4595	1324																

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
02/17/16					295	281	4148	1083												
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16									131	125	1034	170	375	338	3993	783				
03/02/16																	418	566	9115	722
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16																				
03/09/16																				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16	30	0	210	25																

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**
02/17/16																				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16																				
03/02/16													267	292	5202	582				
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16	408	417	5745	730					193	201	2960	185					115	228	2240	518
03/09/16																				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16					95	0	484	161												

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**
02/17/16																				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16									505	506	4283	1419								
03/02/16													33	37	689	83				
03/03/16													72	87	1526	123				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16	496	511	5618	803	119	141	2885	163									248	229	2519	685
03/09/16																				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16																				

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**
02/17/16																				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16																				
03/02/16																				
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16																				
03/09/16													31	37	87	170				
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16	242	304	4414	675	304	265	2933	935	513	608	8135	1848					690	152	530	313

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
02/17/16									416	286	3054	896								
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16																				
03/02/16	112	91	1616	48	972	919	7867	2539					761	417	6448	1039				
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16																				
03/09/16																	253	313	3720	787
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16																				

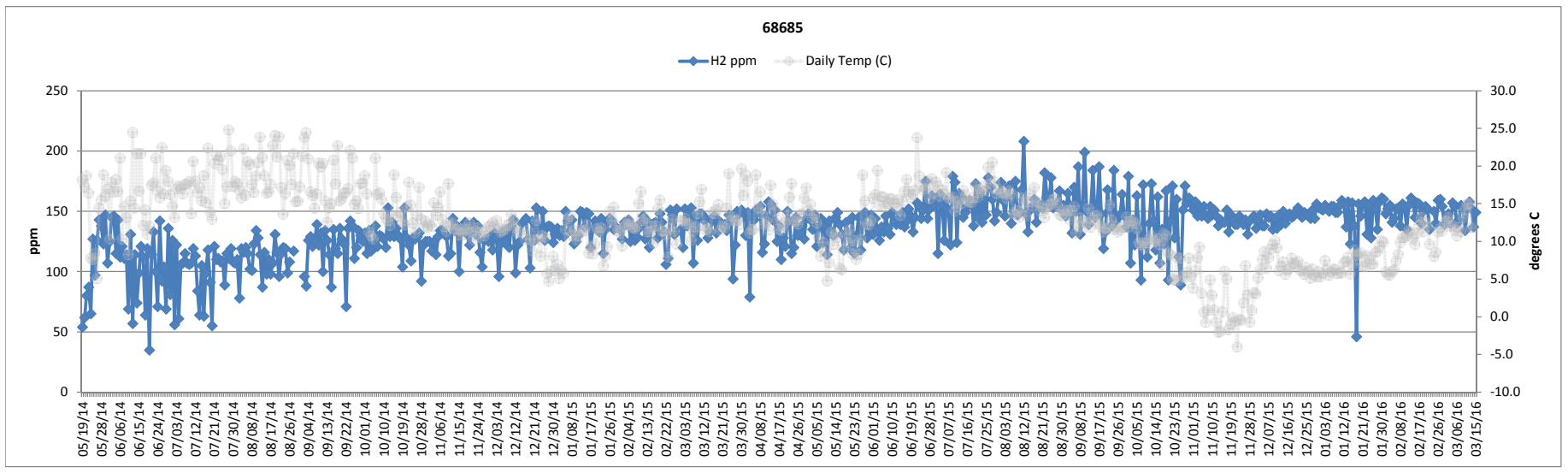
Remediated Nitrate Salt Container Headspace Gas Analysis

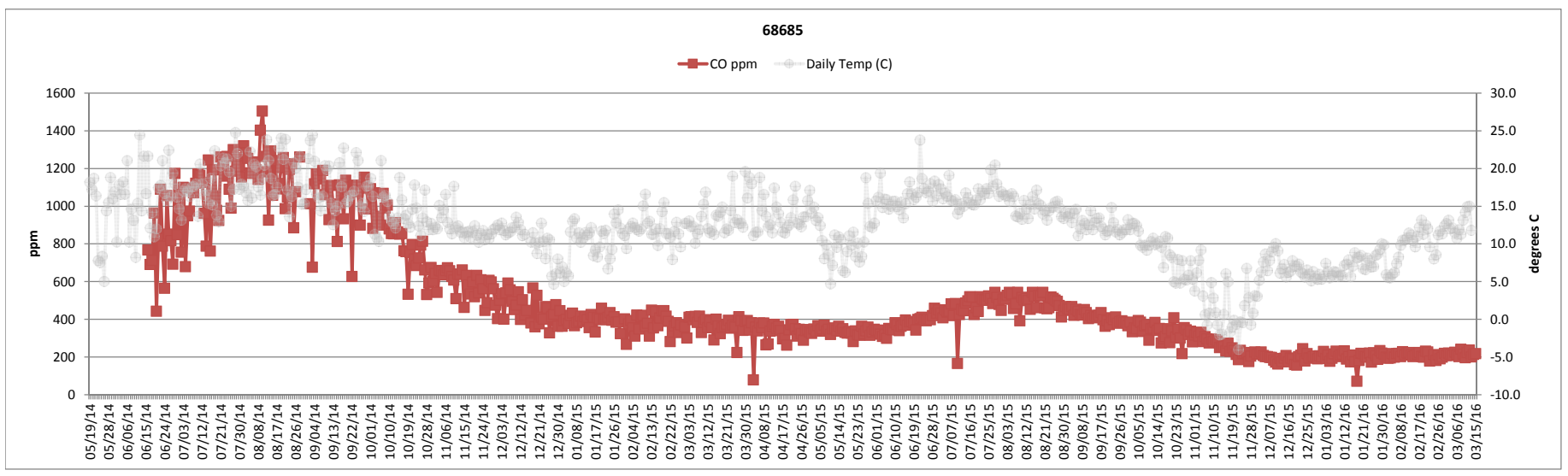
	SB50443				SB50448				SB50451				SB50529				SB50559			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
02/17/16					912	528	5482	920	210	159	1902	209	217	213	1990	297				
02/18/16																				
02/19/16																				
02/20/16																				
02/21/16																				
02/22/16																				
02/23/16																				
02/24/16																				
02/25/16																				
02/26/16																				
02/27/16																				
02/28/16																				
02/29/16																				
03/01/16																				
03/02/16	779	664	7352	1361																
03/03/16																				
03/04/16																				
03/05/16																				
03/06/16																				
03/07/16																				
03/08/16																				
03/09/16																	381	130	2808	110
03/10/16																				
03/11/16																				
03/12/16																				
03/13/16																				
03/14/16																				
03/15/16																				

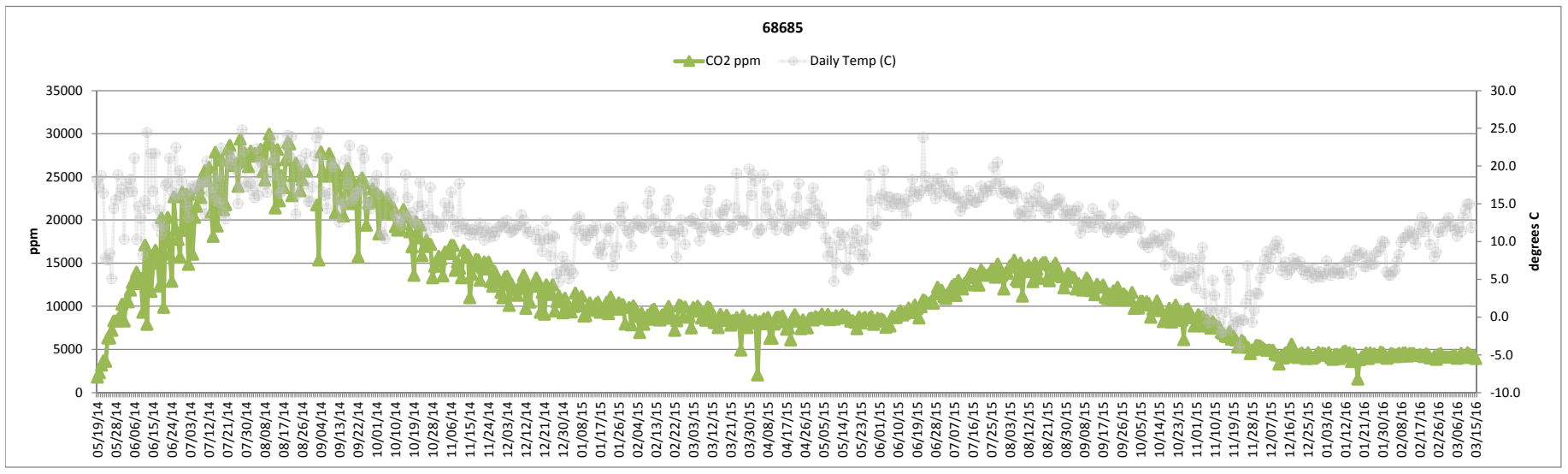
Remediated Nitrate Salt Container Headspace Gas Analysis

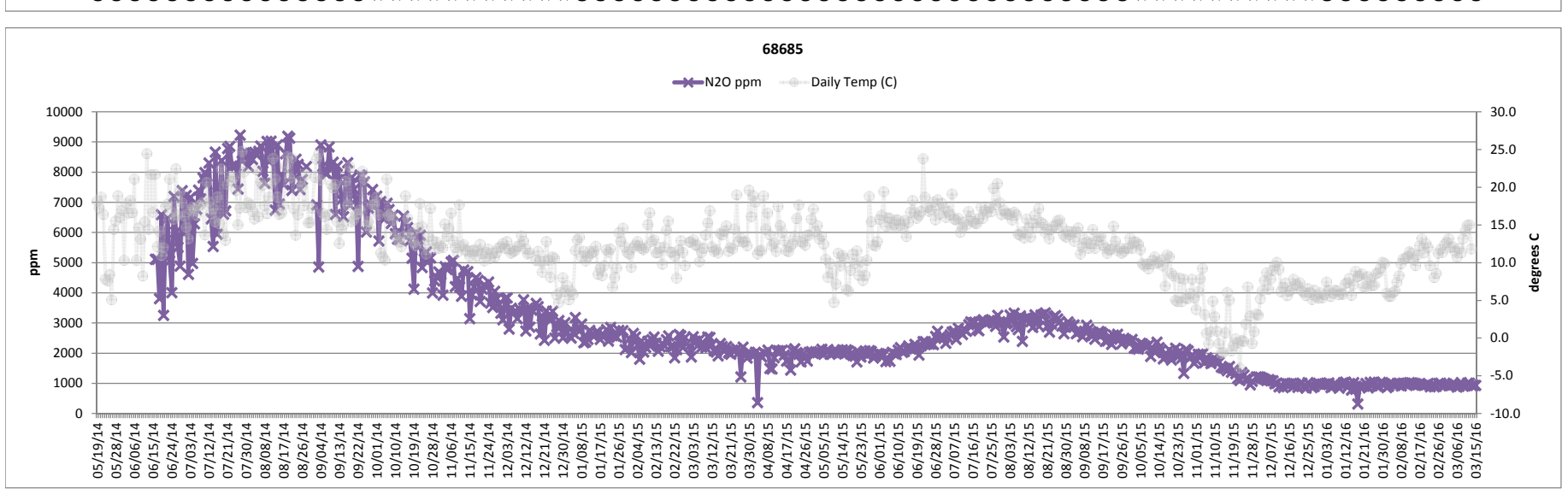
	87823				87825				87826				87827			
Date	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**	**H_2 ppm**	**CO ppm**	**CO_2 ppm**	**N_2O ppm**
02/17/16																
02/18/16																
02/19/16																
02/20/16																
02/21/16																
02/22/16																
02/23/16																
02/24/16																
02/25/16																
02/26/16																
02/27/16																
02/28/16																
02/29/16																
03/01/16																
03/02/16																
03/03/16	168	128	3102	426	159	165	4552	637	195	218	6766	839	46	80	2503	235
03/04/16																
03/05/16																
03/06/16																
03/07/16																
03/08/16																
03/09/16																
03/10/16																
03/11/16																
03/12/16																
03/13/16																
03/14/16																
03/15/16																

Remediated Nitrate Salt Container Headspace Gas and Temperature

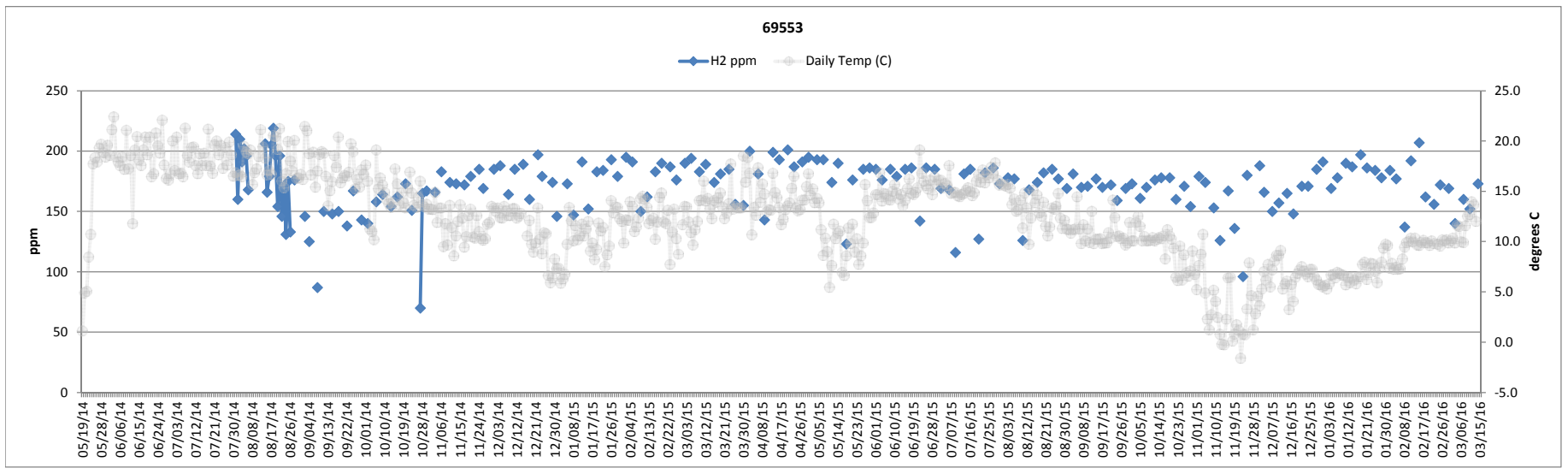


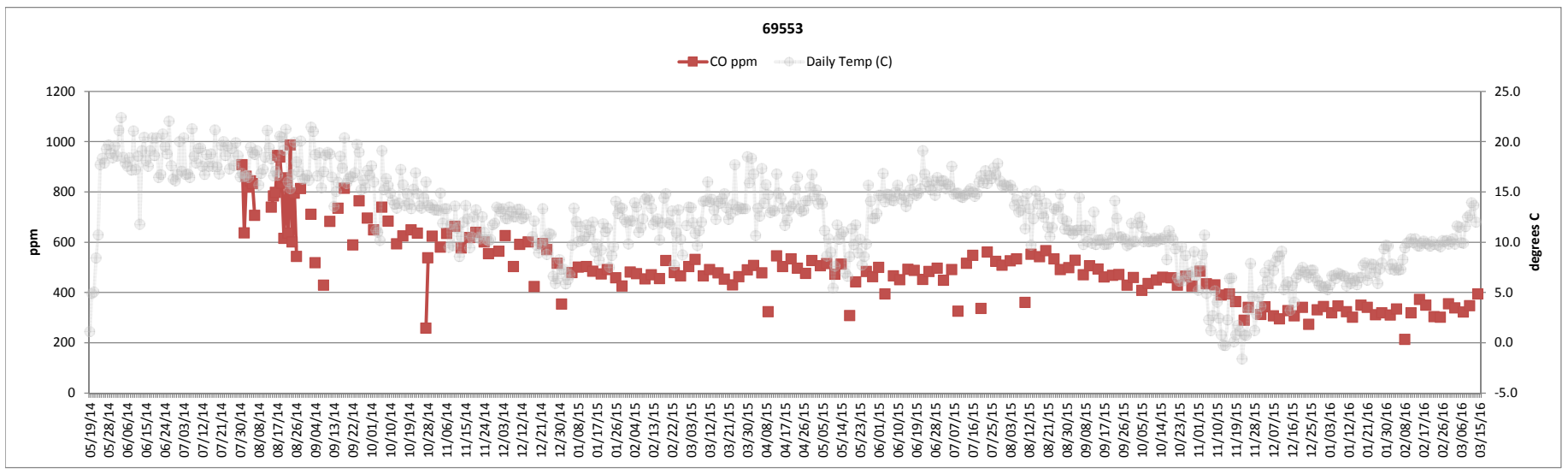


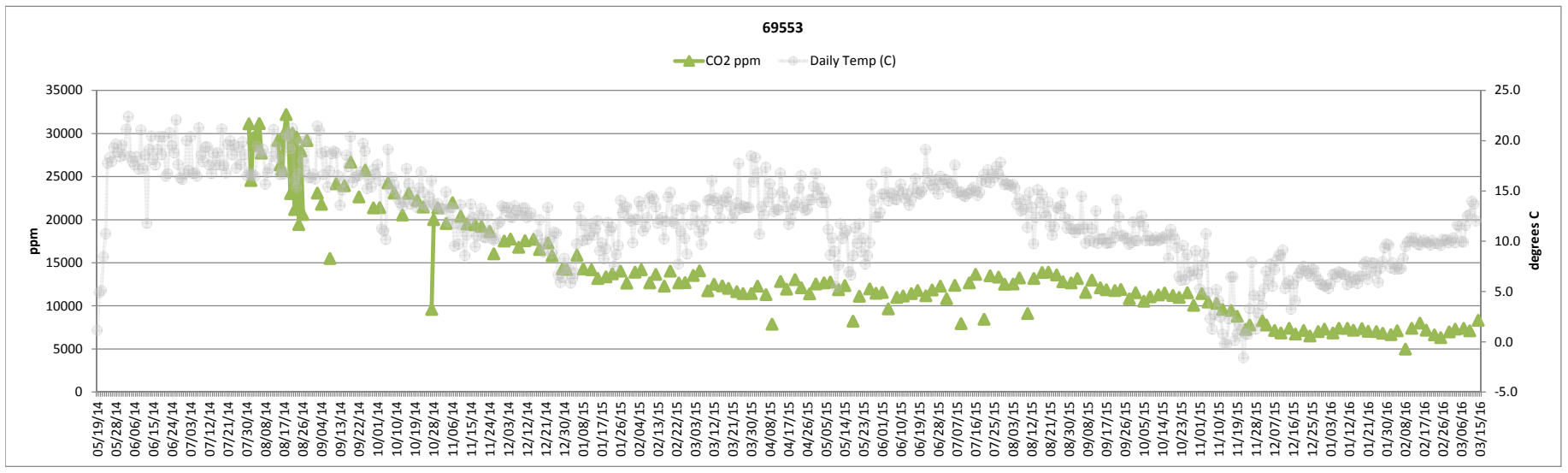


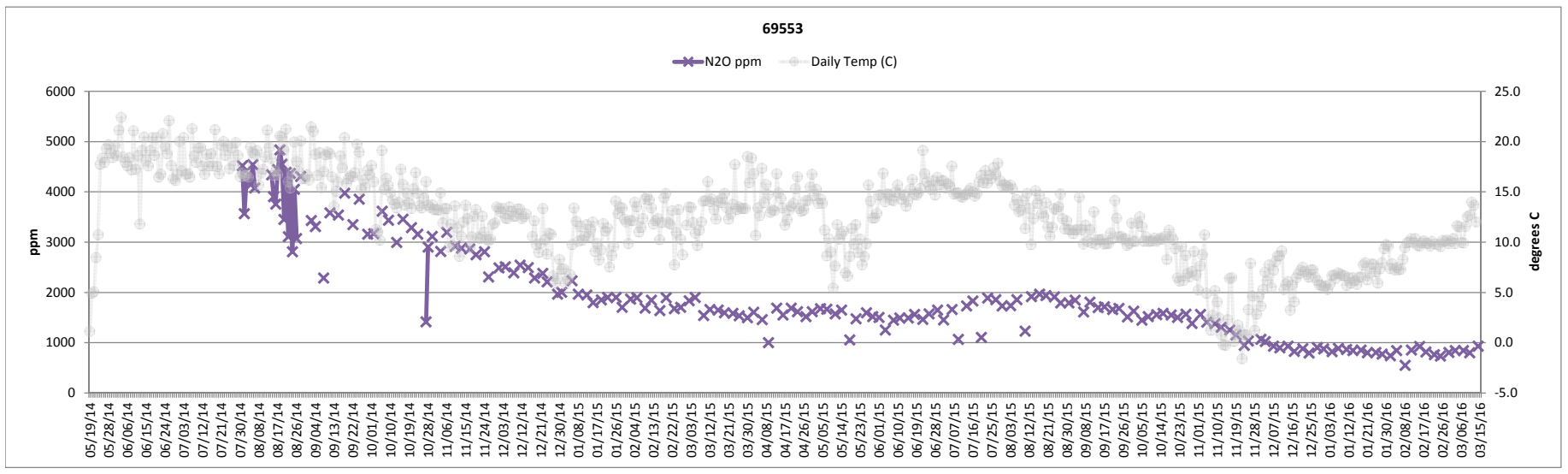


Remediated Nitrate Salt Container Headspace Gas and Temperature

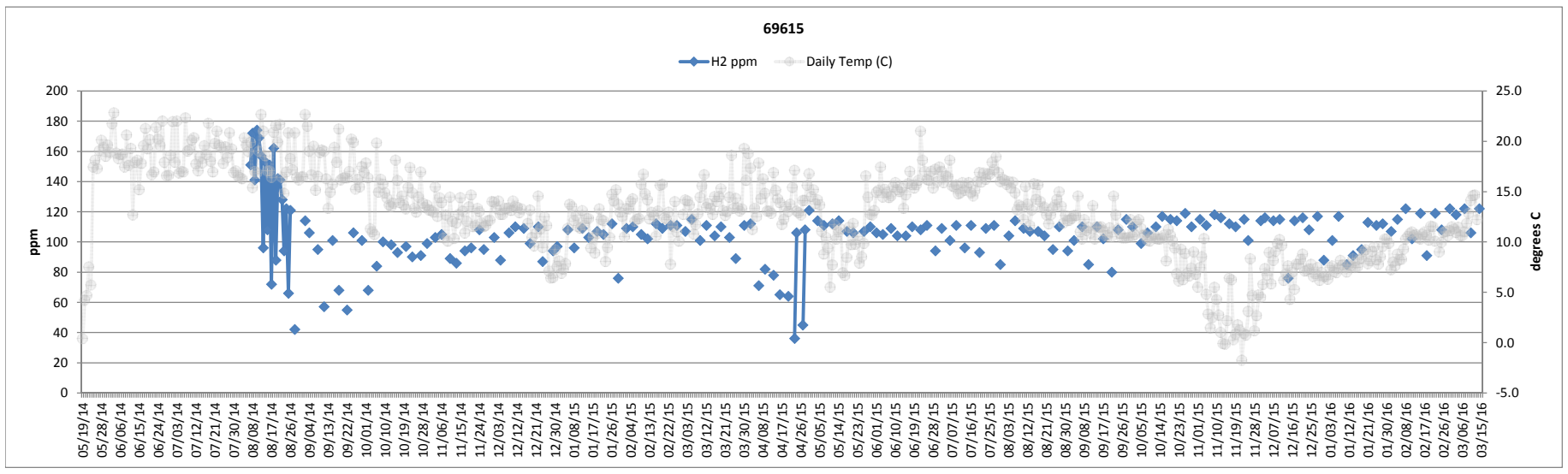


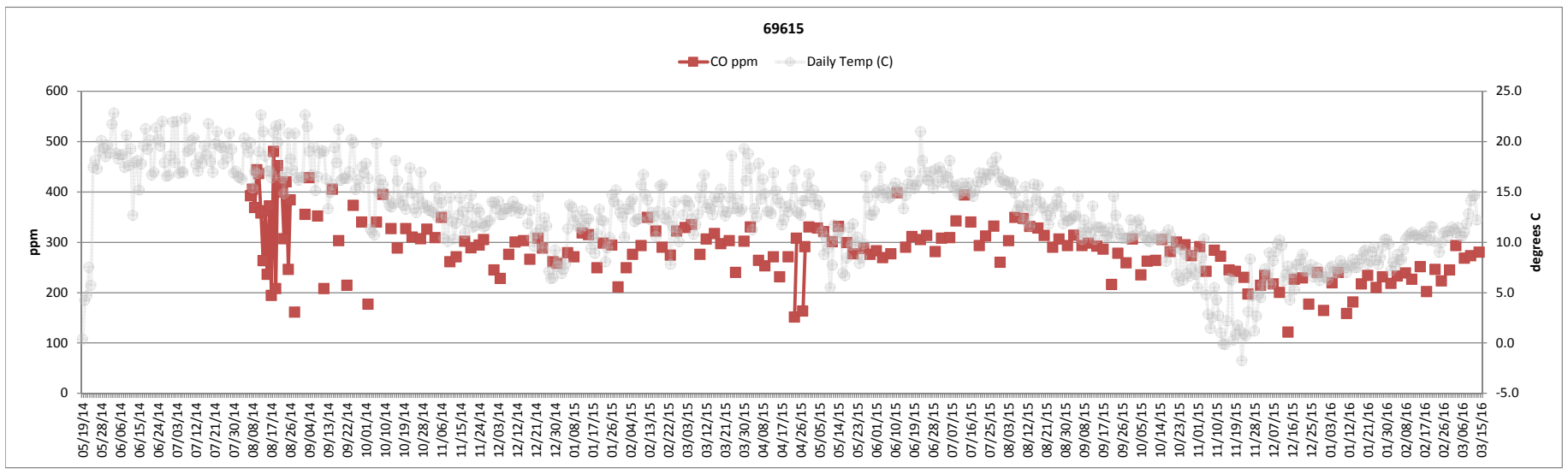


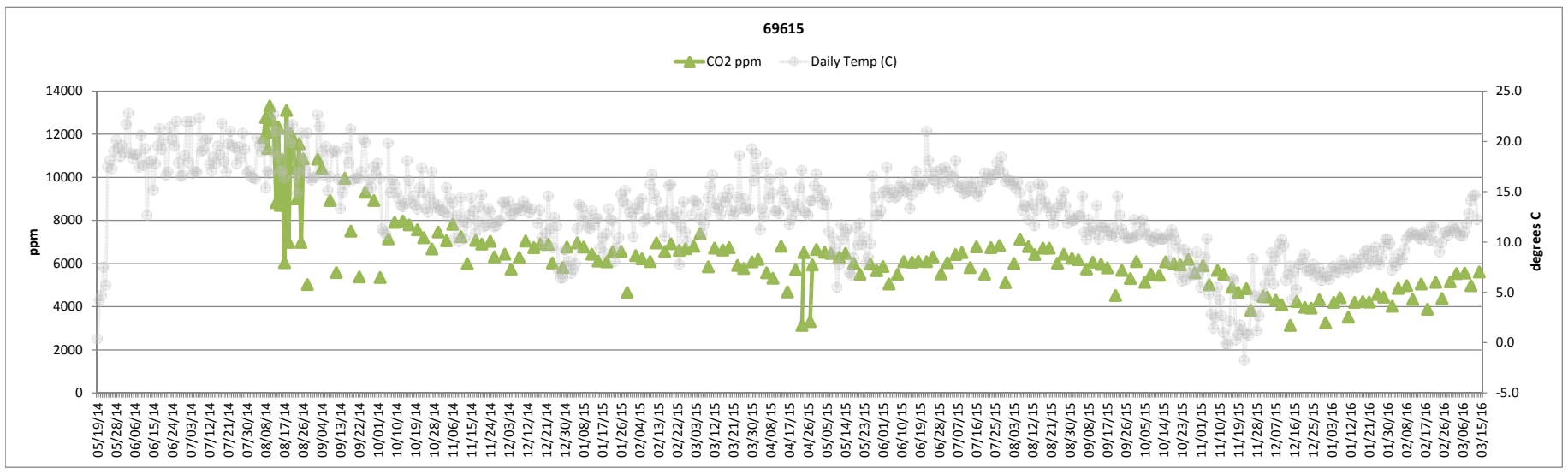


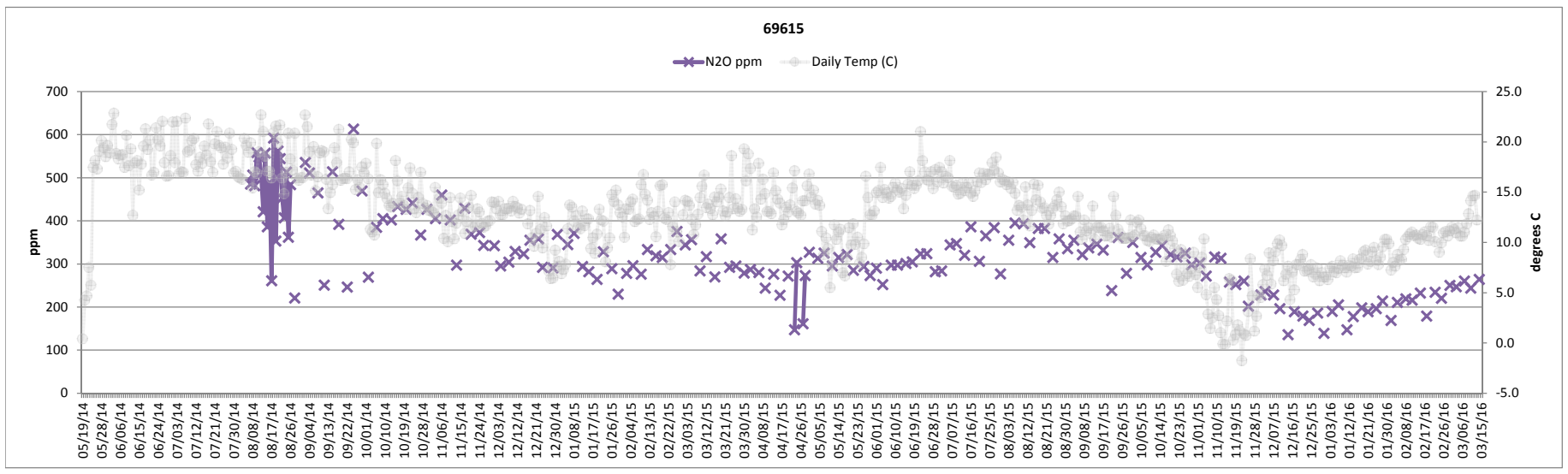


Remediated Nitrate Salt Container Headspace Gas and Temperature

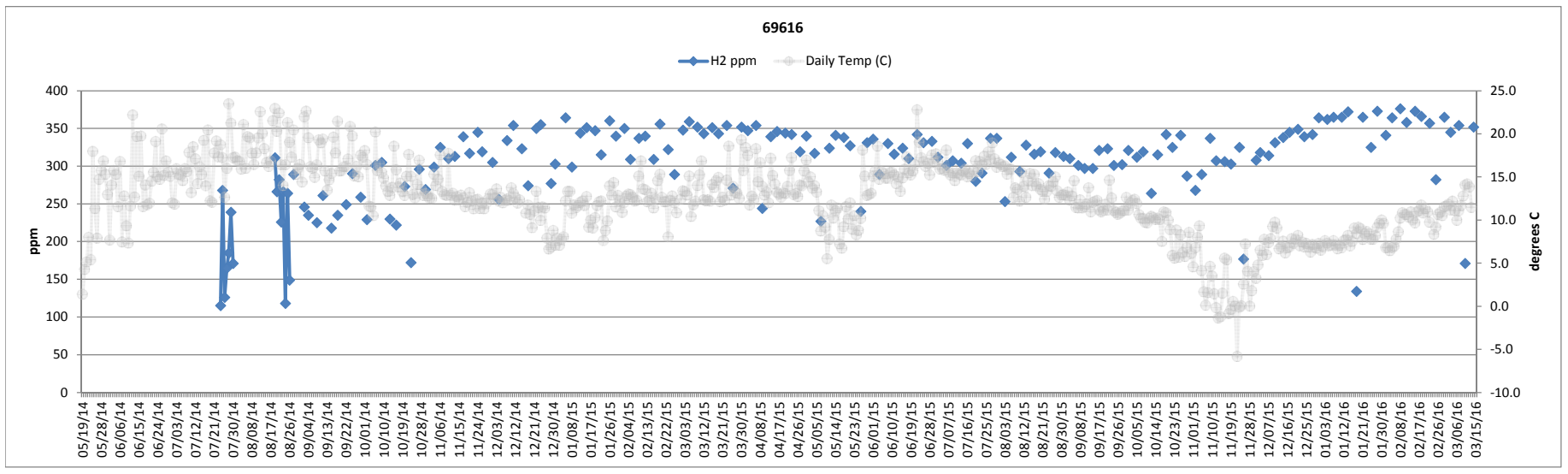


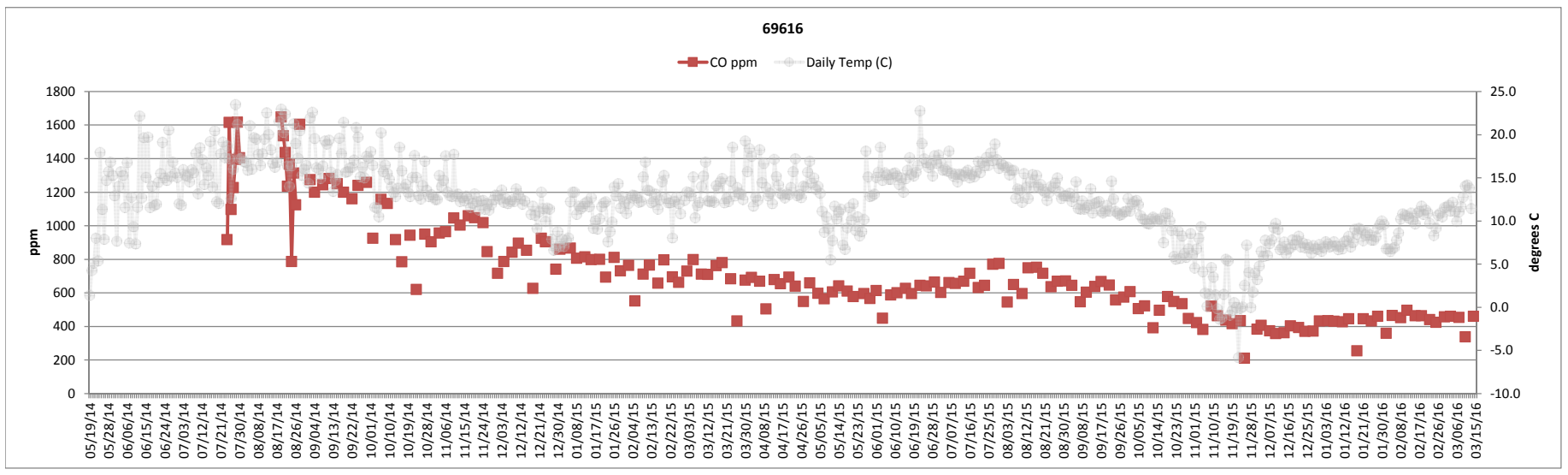


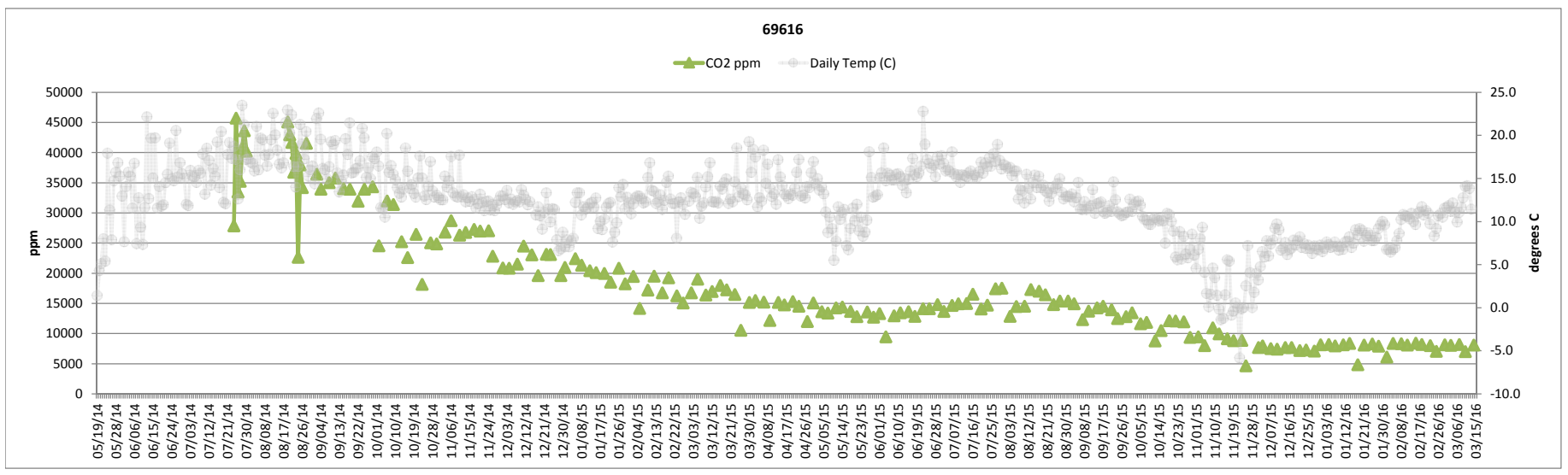


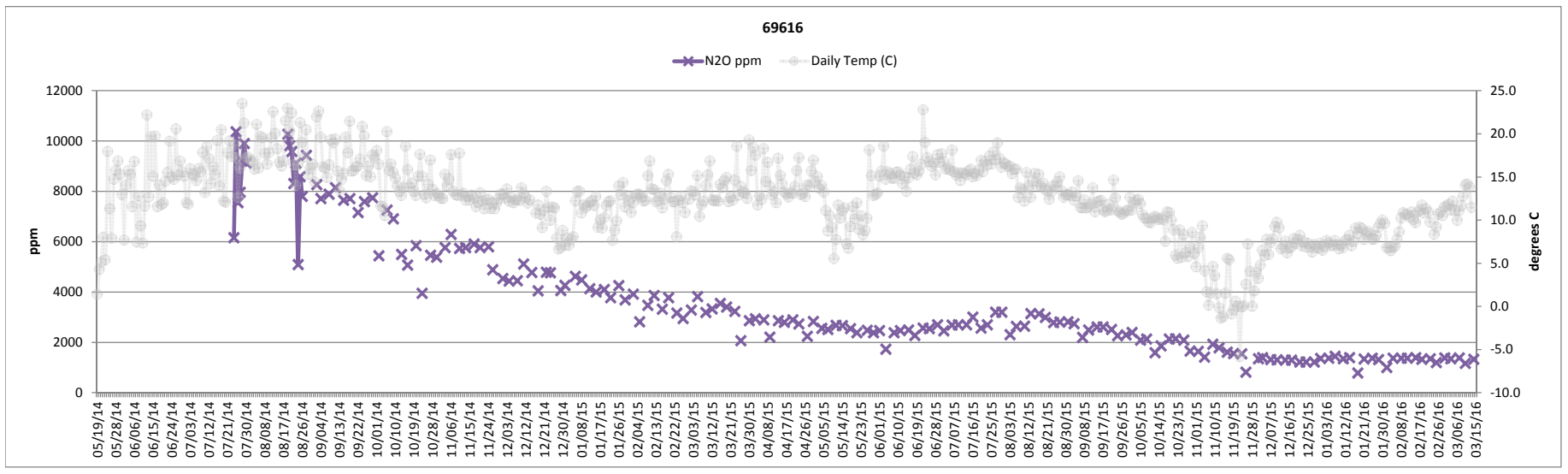


Remediated Nitrate Salt Container Headspace Gas and Temperature

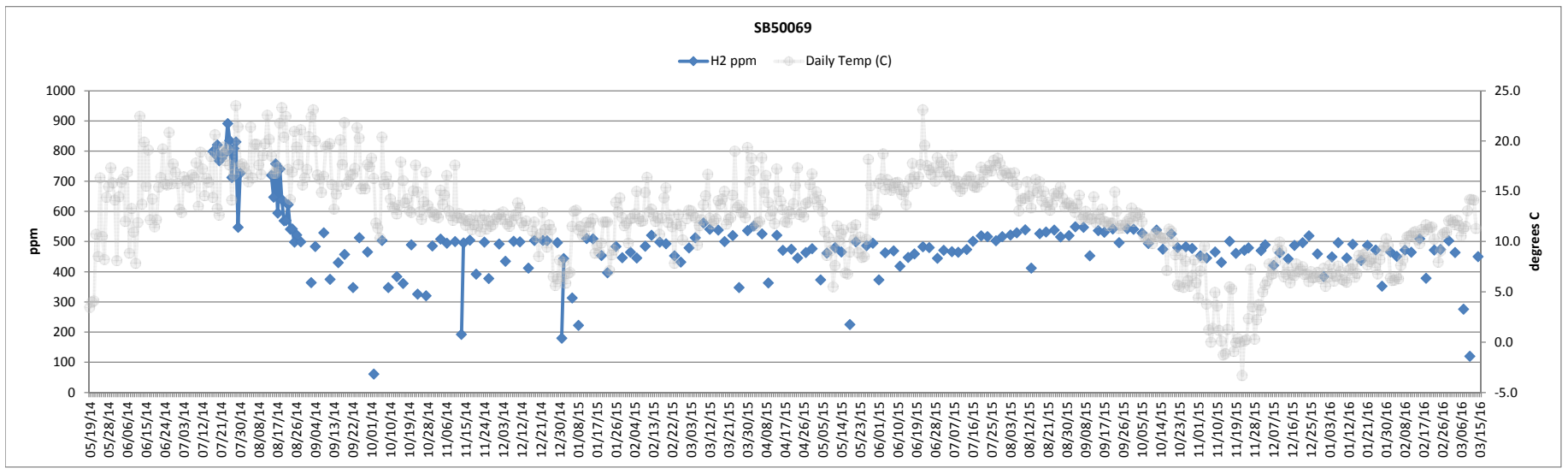


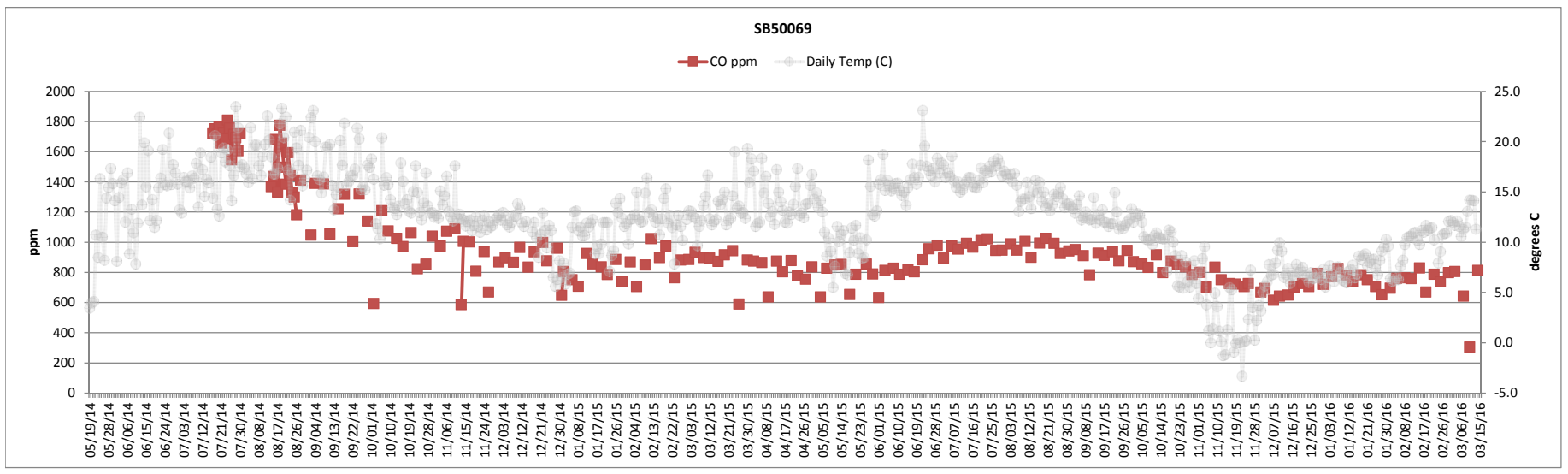


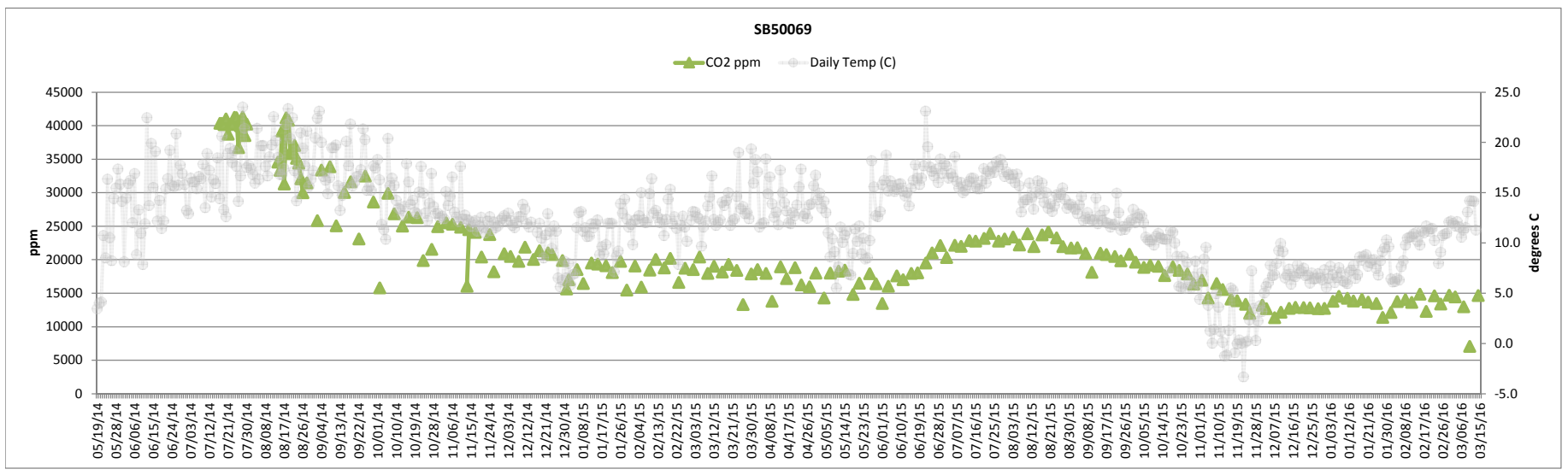


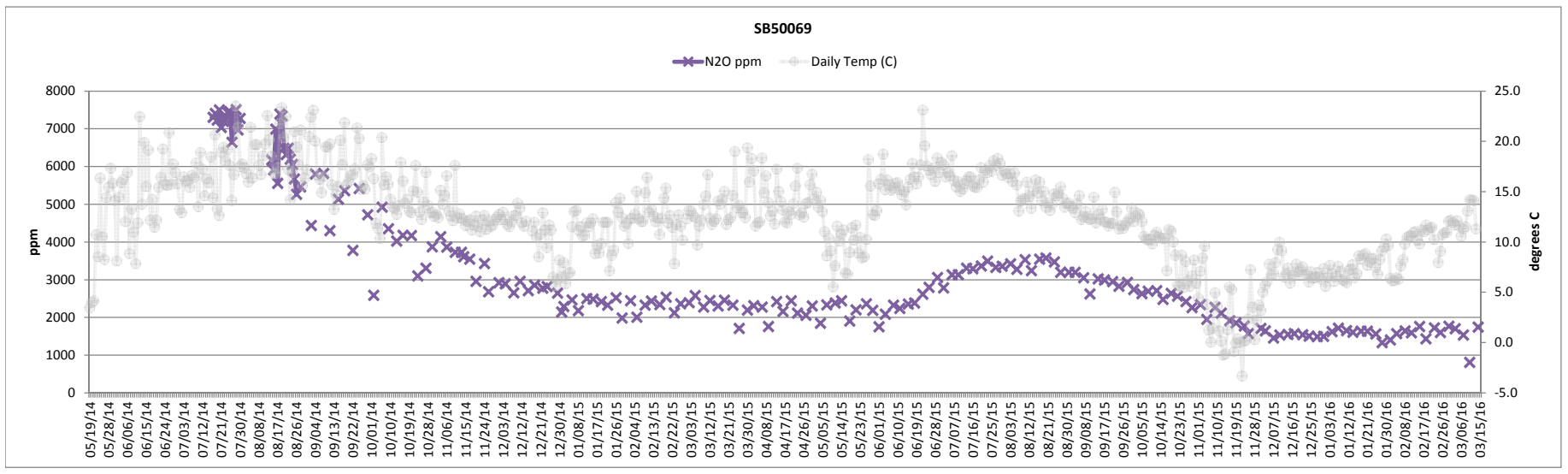


Remediated Nitrate Salt Container Headspace Gas and Temperature

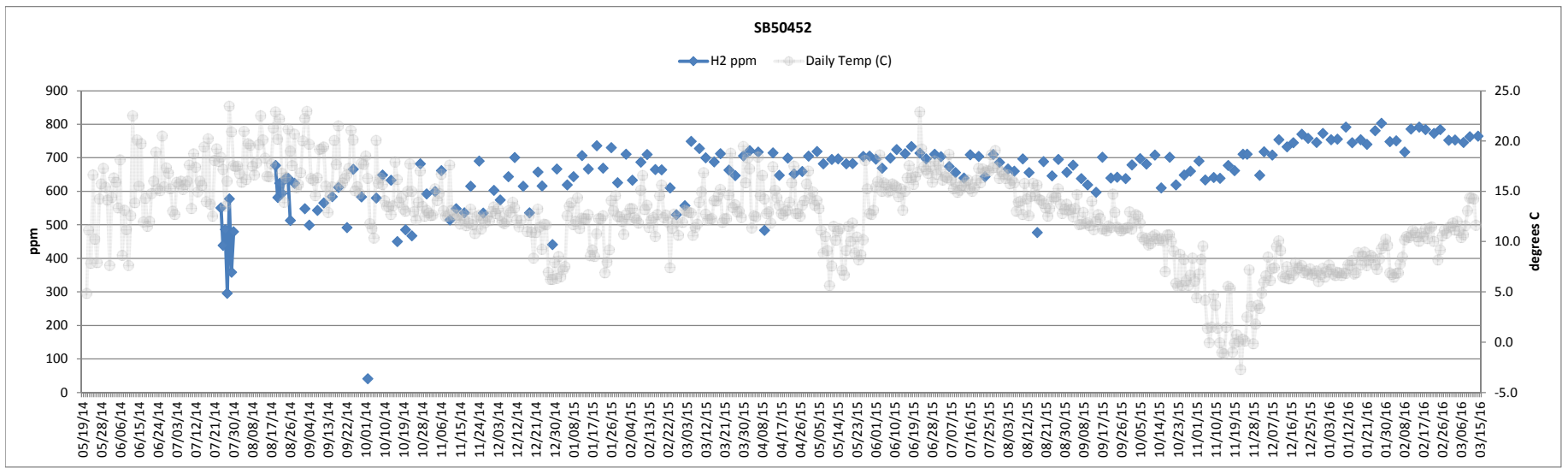


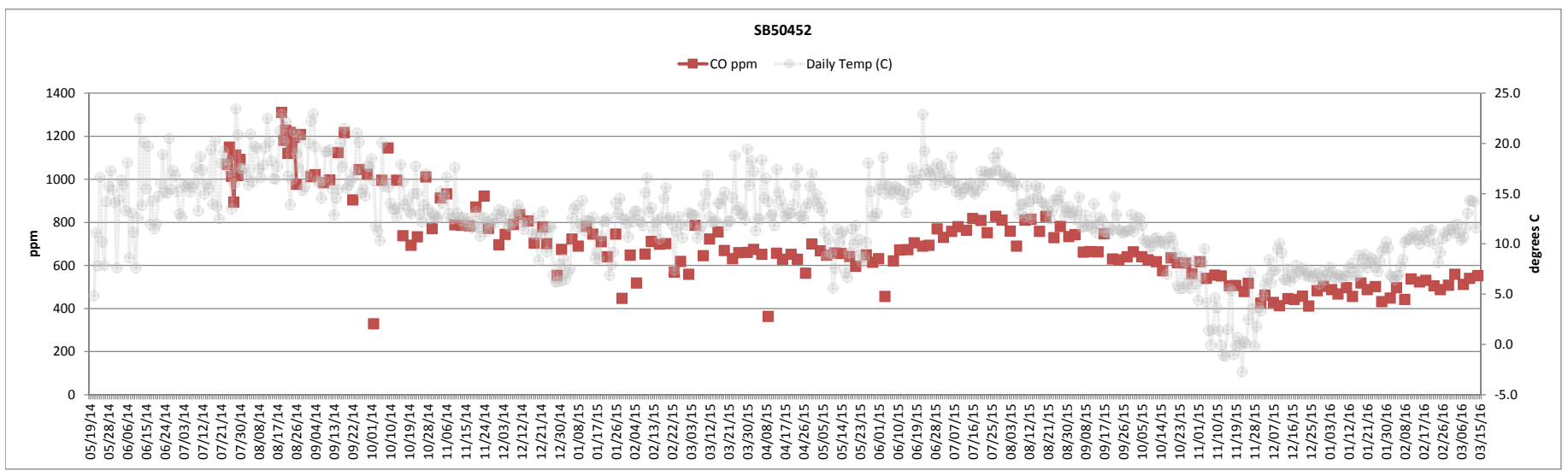


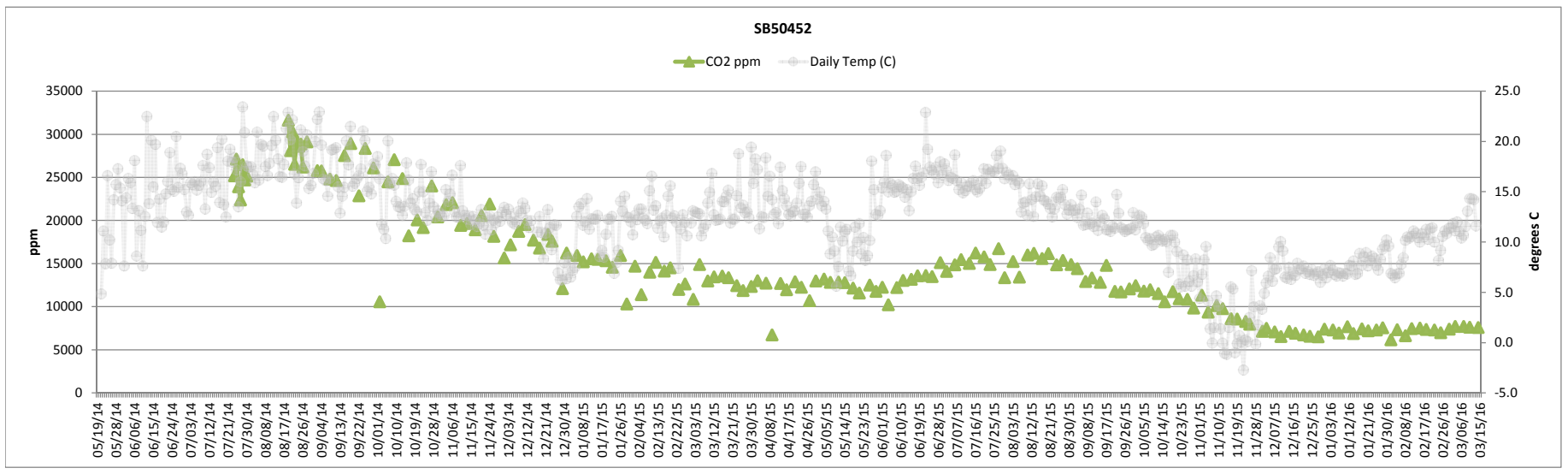


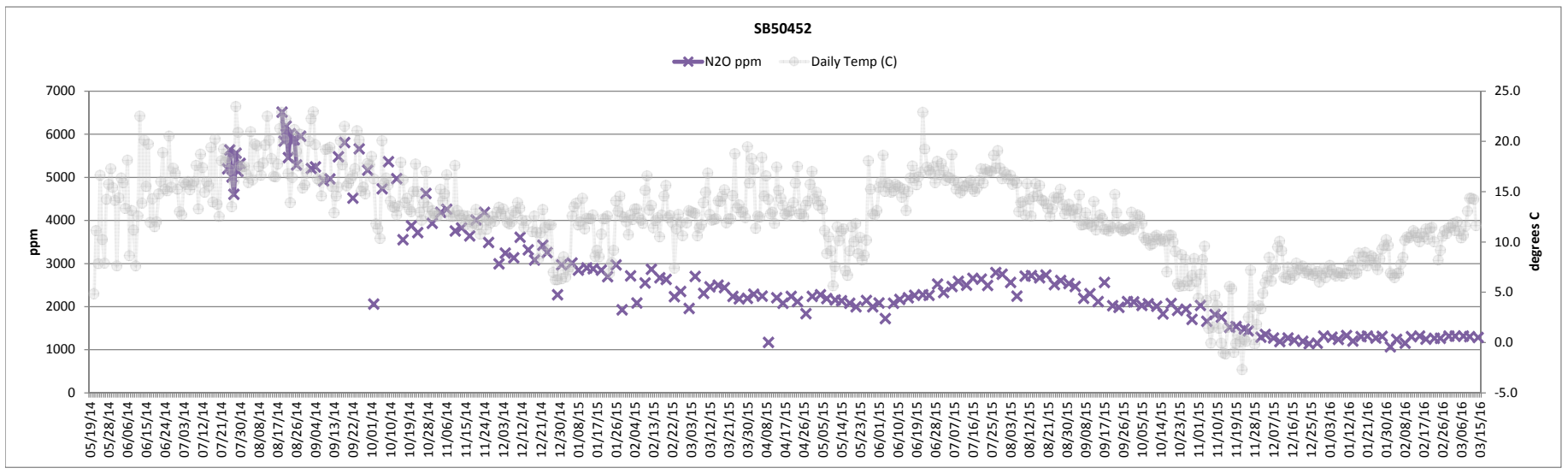


Remediated Nitrate Salt Container Headspace Gas and Temperature

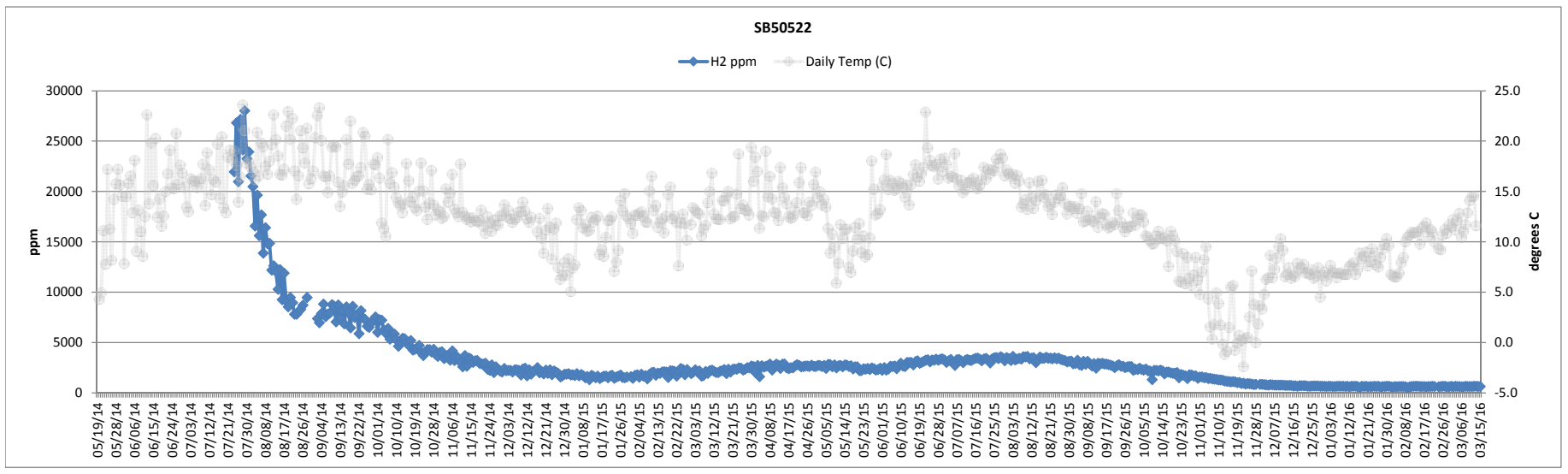


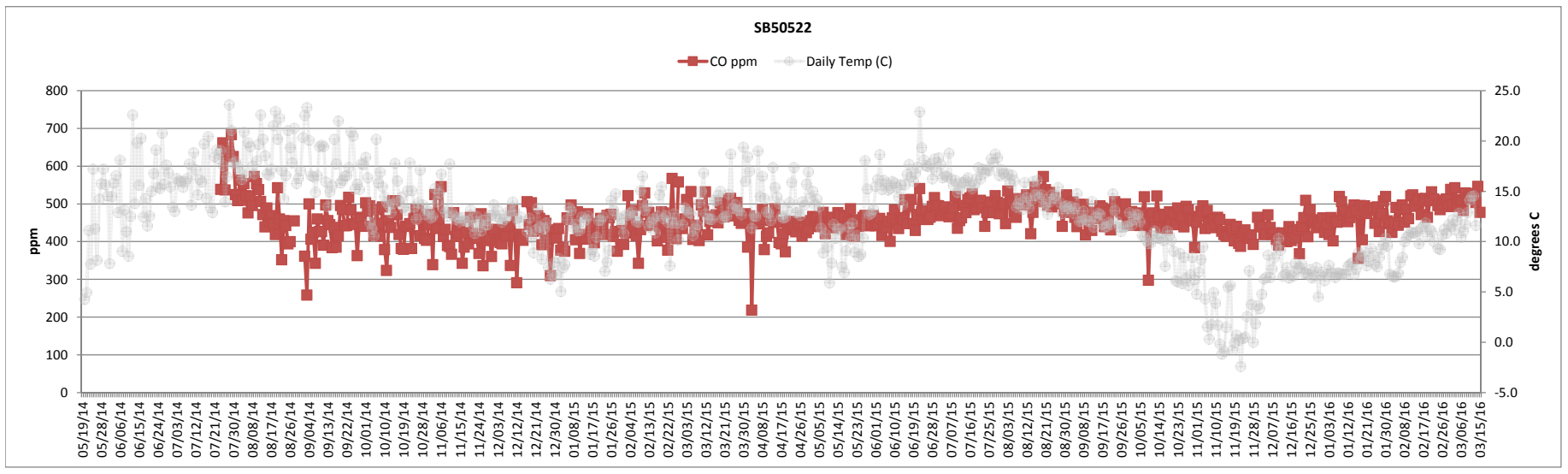


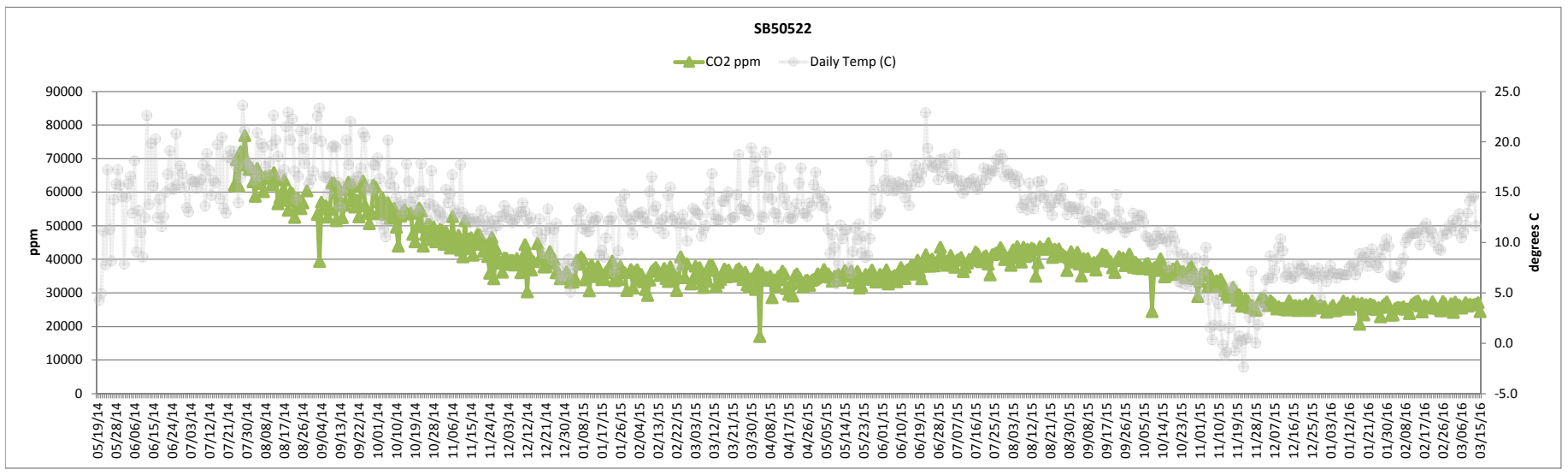


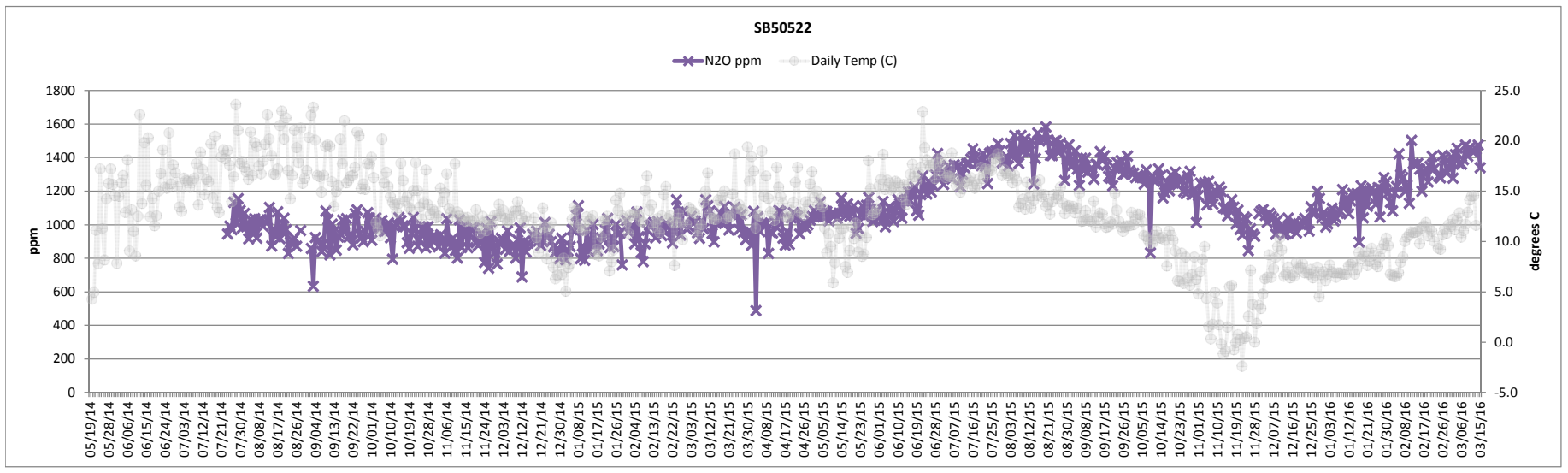


Remediated Nitrate Salt Container Headspace Gas and Temperature









ATTACHMENT 2
Page 1 of 3

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

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

	Monday 6.[4] Start Time: 1309	Tuesday 6.[4] Start Time: 1330	Wednesday 6.[4] Start Time: 1313	Thursday 6.[4] Start Time: 1316	Friday 6.[4] Start Time: 1312	Saturday 6.[4] Start Time: 1319	Sunday 6.[4] Start Time: 1306
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: 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])	50.6 °F	52.9 °F	54.1 °F	54.6 °F	52.5 °F	53.6 °F	52.6 °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])
68685	49.3	51.9	54.0	55.1	52.3	54.5	53.6
LA00000070503 68540	49.3	52.4	53.0	54.6	53.4	54.6	53.7
LA00000070503 68553	49.7	52.9	53.4	56.4	53.9	54.5	53.5
69445	49.6	53.5	53.0	54.9	53.6	56.3	53.6
69618	49.4	53.1	52.4	54.6	53.1	54.5	53.2
69013	49.9	52.3	52.0	54.3	53.0	53.4	52.0
LASB50522	49.6	52.4	52.8	53.4	51.0	52.2	51.8
LASB50452	50.0	51.5	50.9	52.3	50.5	52.4	52.6
LASB50431	50.0	51.8	52.1	52.8	50.7	52.6	51.5
LASB50069	49.6	52.1	51.8	53.0	52.1	52.5	52.6
LASB50073	48.1	50.5	52.0	52.7	50.8	52.1	51.5
69636	49.2	52.0	51.3	52.7	51.6	52.6	52.2
69616	49.4	51.7	52.0	53.1	51.4	52.3	51.7
69417	48.6	51.9	52.0	53.8	52.2	53.1	52.2

WORKING COPY
Z# Z15267
INITIAL MV DATE 2/15/16

ATTACHMENT 2
Page 2 of 3

6.[4] Date: From 2-25-16 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 1 (continued)							
69620	49.1	51.8	52.1	53.5	52.7	53.6	52.8
69520	49.5	51.5	51.9	52.8	51.2	52.5	51.6
69641	50.0	51.6	52.3	52.9	51.3	52.4	51.9
69298	49.3	51.3	51.9	53.0	51.8	52.6	51.6
LASB02203	48.8	51.5	51.8	52.3	51.9	52.6	51.7
End Time (6.[12])	1311	1335	1318	1320	1317	1318	1311
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: [illegible] NDO: LM	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]

Comments:

ATTACHMENT 2
Page 3 of 3

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	1215267	MV	02/15/16
Leon Montoya	Leon Montoya	1195261	LM	2-15-16
Edward Parker	Edward Parker	1004971	EP	2-16-16
Leon Montoya	Leon Montoya	1195261	LM	2-16-16
Edward Parker	Edward Parker	1004971	EP	2-17-16
Leon Montoya	Leon Montoya	1195261	LM	2-17-16
Tina Aguirre	Tina Aguirre	1249771	TA	2-18-16
Leon Montoya	Leon Montoya	1195261	LM	2-18-16
Tina Aguirre	Tina Aguirre	1249771	TA	2-19-16
Willie S. Parker	Willie S. Parker	1129021	WP	2-20-16
Tina Aguirre	Tina Aguirre	1249771	TA	2-20-16
Willie S. Parker	Willie S. Parker	1129021	WP	2-21-16
Tina Aguirre	Tina Aguirre	1249771	TA	2-21-16
Willie S. Parker	Willie S. Parker	1129021	WP	2-21-16

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 2-15-16 to 2-21-16

	Monday 6.[4] Start Time: 1312	Tuesday 6.[4] Start Time: 1336	Wednesday 6.[4] Start Time: 1319	Thursday 6.[4] Start Time: 1321	Friday 6.[4] Start Time: 1318	Saturday 6.[4] Start Time: 1319	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: 7/05/16 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	49.9 °F	50.5 °F	50.0 °F	49.9 °F	49.5 °F	49.1 °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])
LASB02198	49.1	50.0	50.4	49.3	51.1	52.4	50.2
68638	49.8	50.4	50.3	49.3	52.0	51.5	49.6
69615	50.5	51.4	51.8	51.2	50.3	52.8	52.7
69635	51.1	51.7	52.2	51.8	52.3	52.6	51.8
69642	51.4	52.4	52.9	52.2	52.7	53.7	52.4
69630	51.2	52.2	52.1	50.7	52.0	52.0	51.5
69633	51.0	50.8	51.2	50.7	51.8	51.1	50.6
68430	50.6	50.7	50.5	49.6	50.9	50.0	50.5
68631	51.2	49.9	50.7	48.8	50.0	49.7	50.1
69634	49.5	50.1	50.0	48.2	50.1	50.0	50.6
68567	49.2	50.2	50.4	49.3	50.7	50.5	50.9
94227	49.8	50.4	50.2	49.1	52.1	50.8	50.3
LASB50442	50.8	50.7	51.0	49.2	51.7	51.1	49.9
69644	50.5	50.9	51.1	50.3	51.5	51.7	50.7
LASB50443	50.3	51.6	52.0	50.6	51.8	52.0	50.6
69638	50.6	51.4	51.3	51.4	50.9	52.5	51.4

WORKING COPY
Z# 215267
INITIAL MV DATE 2/15/16

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 2-15-16 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 2 (continued)							
68624	50.7	51.0	51.6	51.6	50.9	51.6	51.7
68507	50.4	51.6	50.8	50.9	50.6	51.4	51.4
69568	50.0	50.6	50.7	56.3	49.3	50.7	50.9
69553	49.3	49.8	50.2	49.8	49.7	49.3	50.1
69598	49.7	50.0	50.6	49.4	49.4	50.1	49.8
LASB50559	49.6	50.3	49.9	49.4	49.7	49.9	49.8
69015	50.6	50.7	50.2	50.3	51.2	50.0	50.9
69639	51.2	51.4	50.8	51.2	51.3	51.7	51.7
69637	50.8	51.1	50.9	51.2	51.4	51.5	51.9
End Time (6.[12])	1314	1341	1325	1325	1323	1324	1317
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: QA NDO: LM	NDO: QA NDO: [illegible]	NDO: QA NDO: [illegible]	NDO: QA NDO: [illegible]

Comments:

ATTACHMENT 3

Page 3 of 3

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	[signature]	215267	MV	02/15/16
Leon Montoya	[signature]	191526	LM	2-15-16
Edward Pacheco	[signature]	100497	EP	2-16-16
Leon Montoya	[signature]	191526	LM	2-16-16
Edward Pacheco	[signature]	100497	EP	~~2-18-16~~ 2-17-16 EP 100497 2-17-16
Leon Montoya	[signature]	191526	LM	2-17-16
Tina Aguirre	[signature]	124977	TA	2-18-16
Leon Montoya	[signature]	191526	LM	2-18-16
Tina Aguirre	[signature]	124977	TA	2-19-16
Willie J. [illegible]	[signature]	[illegible]	[illegible]	2-19-16
Tina Aguirre	[signature]	124977	TA	2-20-16
Willie J. [illegible]	[signature]	[illegible]	[illegible]	2-20-16
Tina Aguirre	[signature]	124977	TA	2-21-16
Willie J. [illegible]	[signature]	[illegible]	[illegible]	2-21-16

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 2-15-16 to 2-21-16

	Monday 6.[4] Start Time: 1306	Tuesday 6.[4] 1325 Start Time: ~~1018~~ 2-16-16	Wednesday 6.[4] Start Time: 1307	Thursday 6.[4] Start Time: 1313	Friday 6.[4] Start Time: 1307	Saturday 6.[4] Start Time: 1308	Sunday 6.[4] Start Time: 1300
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: 102116 File Number 101912	Brand: Fluke Model: 561 Cal. Due Date: 102116 File Number 101912
Ambient Temperature (6.[5])	49.1 °F	51.6 °F	50.4 °F	52.2 °F	51.2 °F	52.4 °F	52.0 °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	50.7	51.8	52.5	52.1	51.1
69645	49.3	50.9	50.9	52.1	52.4	51.8	51.6
94068	49.3	51.1	51.2	52.3	52.3	52.2	51.9
93605	49.8	51.5	51.3	53.1	51.3	52.8	52.0
69548	49.3	51.1	51.0	52.8	52.0	52.1	51.3
69604	49.3	50.8	51.0	53.3	51.5	52.5	51.5
LASB50529	49.1	51.2	51.0	51.9	52.0	52.5	52.0
LASB50418	49.1	51.0	51.3	53.0	52.2	52.7	52.1
69036	49.0	51.3	51.8	53.0	52.9	52.6	51.8
LASB50451	49.6	51.6	51.7	54.5	52.5	53.2	52.4
69559	49.4	51.5	50.4	53.7	52.9	52.7	52.7
LASB50448	49.0	51.3	51.6	52.9	53.5	52.8	52.3
87827	49.1	51.2	50.7	53.5	54.0	53.6	52.6

WORKING COPY
Z# Z15267
INITIAL MV DATE 2/15/16

ATTACHMENT 4

Page 2 of 3

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	50.9	53.3	~~52.9~~ 53.5	54.5	52.9
87823	49.3	51.8	51.1	52.5	~~53.5~~ 53.3	53.7	52.5
87825	49.1	52.5	52.3	52.8	~~53.3~~ 54.0	54.6	53.4
End Time (6.[12])	1308	1329	1312	1315	~~54.0~~ 1311	1312	1304
6.[12]	NDO: MV NDO: LM	NDO: EP NDO: LM	NDO: EP NDO: LM	NDO: [illegible] NDO: [illegible]	NDO: ~~1311~~ KDA NDO: UGC	NDO: [illegible] NDO: [illegible]	NDO: [illegible] NDO: [illegible]

100497 2-19-16 2-19-16 100497

ATTACHMENT 4
Page 3 of 3

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
Lisa Montoya		V91526	LM	2-15-16
Edward Pacheco	Edward Pacheco	100497	EP	2-16-16
Lisa Montoya		V91526	LM	2-16-16
Edward Pacheco	Edward Pacheco	100497	EP	2-17-16
Lisa Montoya		V91526	LM	2-17-16
Tina Aguirre	Tina Aguirre	174977	QA	2-18-16
Lisa Montoya		V91526	LM	2-18-16
Tina Aguirre	Tina Aguirre	174977	QA	2-19-16
William J. Cook		112507	WC	2-19-16
Tina Aguirre	Tina Aguirre	174977	QA	2-20-16
William J. Cook		V12907	WC	2-20-16
Tina Aguirre	Tina Aguirre	174977	QA	2-21-16
William J. Cook		112507	WC	2-21-16

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 2-22-16 to 2-28-16

	Monday 6.[4] Start Time: 1319	Tuesday 6.[4] Start Time:	Wednesday 6.[4] Start Time: 1342	Thursday 6.[4] Start Time: 1322	Friday 6.[4] Start Time: 1314	Saturday 6.[4] Start Time: 1312	Sunday 6.[4] Start Time: 1315
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: Model: Cal. Due Date: File Number	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 7-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974
Ambient Temperature (6.[5])	48.4 °F	°F	46.1 °F	47.1 °F	51.2 °F	53.0 °F	53.0 °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	49.2		46.4	47.4	52.2	53.1	52.4
LA00000070503 68540	49.9		47.1	47.8	52.2	53.2	52.2
LA00000070503 68553	50.0		46.0	48.7	52.4	53.5	52.9
69445	50.4		46.2	48.7	52.6	53.7	52.9
69618	50.4		46.9	48.4	52.0	53.4	52.2
69013	50.2		47.2	48.8	51.6	52.8	52.6
LASB50522	50.0		48.8	48.6	51.2	52.2	51.5
LASB50452	50.0		46.7	48.5	51.0	52.0	51.5
LASB50431	50.3		46.4	48.7	50.9	51.9	51.1
LASB50069	50.4		46.3	48.3	51.3	52.6	51.7
LASB50073	49.7		46.5	47.9	50.7	50.7	51.5
69636	49.8		46.7	48.5	50.9	51.7	51.2
69616	49.5		47.0	48.5	51.2	51.6	50.9
69417	49.9		47.3	49.1	51.1	52.1	51.3

WORKING COPY
Z# 174927
INITIAL QA DATE 2-22-16

ATTACHMENT 2
Page 2 of 3

6.[4] Date: From 2-22-16 to 2-28-16

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	50.5		48.6	48.4	51.2	52.4	51.1
69520	49.7		46.9	47.7	50.0	51.7	51.4
69641	49.8		47.2	48.7	51.6	51.9	51.2
69298	49.5		47.2	48.7	51.8	52.0	51.0
LASB02203	49.8		46.7	48.4	50.9	51.8	51.4
End Time (6.[12])	1323		1346	1326	1319	1317	1318
6.[12]	NDO: SA NDO: LM	NDO: NDO:	NDO: SA NDO: SA	NDO: SA NDO: LM	NDO: EP NDO: LDL	NDO: LDL NDO: LM	NDO: LDL NDO: LM

Comments:

Was unable to perform the Daily Temps on 02-23-16 due to bad weather, and the lab was close.

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 2-22-16 to 2-28-16

6.[16] Performed by

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	QA	2-22-16
Leon Montoya		191526	LM	2-22-16
Tina Aguirre	Tina Aguirre	174977	QA	2-24-16
Juan Garcia		169840	JG	2-24-16
Tina Aguirre	Tina Aguirre	174977	QA	2-25-16
Juan Garcia		169840	JG	2-25-16
Leon Montoya		191526	LM	2-25-16
Tina Aguirre	Tina Aguirre	174977	QA	2-26-16
Edward Parker	Edward Parker	100497	EP	2-26-16
Willie J. Parker		112917	WJP	2-26-16
Willie J. Parker		112907	WJP	2-28-16
Leon Montoya		191526	LM	2-27-16
Willie J. Parker		112907	WJP	2-28-16
Leon Montoya		191526	LM	2-28-16

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 2-22-16 to 2-28-16

	Monday 6.[4] Start Time: 1324	Tuesday 6.[4] Start Time:	Wednesday 6.[4] Start Time: 1347	Thursday 6.[4] Start Time: 1327	Friday 6.[4] Start Time: 1321	Saturday 6.[4] Start Time: 1318	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: 7-08-16 File Number 101916	Brand: Model: Cal. Due Date: File Number	Brand: Fluke Model: 561 Cal. Due Date: 07-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 101916
Ambient Temperature (6.[5])	48.6 °F	°F	48.8 °F	49.2 °F	49.0 °F	50.2 °F	50.1 °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])
LASB02198	49.6		48.4	49.4	51.5	50.4	50.0
68638	49.5		48.3	49.5	50.6	52.5	50.1
69615	50.1		48.2	49.9	51.7	51.9	51.1
69635	50.4		49.1	50.5	51.9	52.5	51.4
69642	50.3		49.3	50.5	52.2	52.8	51.8
69630	50.2		49.0	51.0	51.9	52.1	51.6
69633	50.1		49.0	50.1	52.5	52.4	50.3
68430	50.2		48.7	50.0	51.5	52.3	49.3
68631	49.5		48.3	50.1	50.6	50.3	49.5
69634	49.6		47.9	49.2	50.4	50.0	49.7
68567	49.1		48.2	49.3	50.5	50.5	50.2
94227	49.2		48.6	2-24-16 ~~50.0~~ 49.3	51.1	50.6	50.5
LASB50442	49.7		48.6	2-25-16 ~~49.9~~ 50.0	51.6	51.5	50.4
69644	49.9		49.2	2-25-16 ~~50.7~~ 49.9	50.5	51.5	50.3
LASB50443	50.0		48.9	50.2	52.5	52.1	50.5
69638	49.9		49.1	50.3	51.2	52.3	50.7

174497
QA 2-22-16

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 2-22-16 to 2-28-16

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	50.6		49.1	50.6	51.4	~~52.2~~ 52.6	50.7
68507	50.1		48.5	50.0	50.8	51.4	50.3
69568	49.7		48.6	49.0	50.6	51.0	49.9
69553	49.6		49.5	49.2	50.3	50.1	50.3
69598	49.8		47.7	49.7	51.1	51.2	49.3
LASB50559	49.8		47.5	49.9	51.6	50.3	49.8
69015	50.0		49.1	50.3	51.1	51.2	50.4
69639	50.2		48.7	50.6	51.7	51.8	50.2
69637	49.6		48.7	51.1	51.4	50.8	49.1
End Time (6.[12])	1328		1351	1333	1327	1325	1325
6.[12]	NDO: QA NDO: LM	NDO: NDO:	NDO: QA NDO: LM	NDO: JW NDO: LM	NDO: EP NDO:	NDO: LDC NDO: LM	NDO: LDC NDO: LM

Comments:

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 2-22-16 to 2-28-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	QA	2-22-16
Leon Montoya		191526	LM	2-22-16
Tina Aguirre	Tina Aguirre	174977	QA	2-24-16
Juan Garcia		169840	JG	2-24-16
Tina Aguirre	Tina Aguirre	174977	QA	2-25-16
Juan Garcia		169840	JG	2-25-16
Leon Montoya		191526	LM	2-25-16
Tina Aguirre	Tina Aguirre	174977	QA	2-26-16
Edward Parker		100497	EP	2-26-16
Willie J. Cook		112907	WJC	2-26-16
Willie J. Cook		112907	WJC	12-27-16
Leon Montoya		191526	LM	12-27-16
Willie J. Cook		112907	WJC	12-28-16
Leon Montoya		191526	LM	12/29/16

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 2-22-16 to 2-28-16

	Monday 6.[4] Start Time: 1315	Tuesday 6.[4] Start Time:	Wednesday 6.[4] Start Time: 1338	Thursday 6.[4] Start Time: 1317	Friday 6.[4] Start Time: 1307	Saturday 6.[4] Start Time: 1306	Sunday 6.[4] Start Time: 1307
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: 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	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])	49.9 °F	°F	46.4 °F	48.4 °F	50.2 °F	51.3 °F	51.60 °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	50.1		47.6	48.4	50.8	51.0	50.7
69645	50.4		48.1	49.0	51.2	51.3	50.9
94068	50.4		47.6	48.8	51.3	51.3	51.4
93605	50.6		48.9	49.4	51.2	52.1	51.3
69548	50.6		46.9	48.9	51.4	51.5	51.4
69604	50.6		48.2	48.6	51.0	51.5	51.3
LASB50529	50.4		47.2	48.5	50.7	50.1	50.7
LASB50418	50.4		47.3	48.7	51.4	52.3	51.4
69036	50.3		47.3	48.6	50.7	51.9	51.6
LASB50451	50.4		47.5	48.6	51.3	52.3	51.9
69559	50.4		47.5	48.7	50.7	52.2	51.4
LASB50448	50.3		47.2	48.8	50.9	51.0	51.7
87827	49.8		47.1	49.3	51.4	51.3	50.8

mwm
QA 2-22-16

ATTACHMENT 4
Page 2 of 3

6.[4] Date: From 2-22-16 to 2-28-16

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	49.5		47.2	48.8	51.2	51.5	51.0
87823	49.9		48.6	48.6	51.3	51.6	51.7
87825	49.7		46.3	48.4	51.2	52.0	51.9
End Time (6.[12])	1318		1341	1321	1312	1311	1310
6.[12]	NDO: QA NDO: LM	NDO: NDO:	NDO: QA NDO:	NDO: QA NDO: LM	NDO: EP NDO: LOX	NDO: LOX NDO: LM	NDO: LOX NDO: LM

Comments:

ATTACHMENT 4
Page 3 of 3

6.[4] Date: From 2-22-16 to 2-28-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	N49977	TA	2-22-16
Leon montoya		V91526	Lm	2-22-16
Tina Aguirre	Tina Aguirre	N49977	TA	2-24-16
Juan Garcia		169840	JG	2-24-16
Tina Aguirre	Tina Aguirre	N49977	TA	2-25-16
Juan Garcia		169840	JG	2-25-16
Leon montoya		V91526	Lm	2-25-16
Tina Aguirre	Tina Aguirre	N49977	TA	2-26-16
Edward Pardo	Edward Pardo	104497	EP	2-26-16
Willie J. Conto		112907	CON	2-26-16
Willie J. Conto		112907	CON	2-27-16
Leon montoya		V91526	Lm	2-27-16
Willie J. Conto		112907	CON	2-28-16
Leon montoya		V91526	Lm	2-28-16

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 2-29-16 to 3-06-16

	Monday 6.[4] Start Time: 1322	Tuesday 6.[4] Start Time: 1326	Wednesday 6.[4] Start Time: 1320	Thursday 6.[4] Start Time: 1314	Friday 6.[4] Start Time: 1310	Saturday 6.[4] Start Time: 1306	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: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 07-05-16 File Number 101974	Brand: Fluke Model: 561 Cal. Due Date: 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])	54.1 °F	54.1 °F	54.6 °F	53.0 °F	54.5 °F	54.0 °F	52.0 °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	54.3	54.9	55.7	53.6	53.8	52.7	51.3
LA00000070503 68540	54.1	54.1	55.8	53.6	55.5	53.4	51.4
LA00000070503 68553	55.0	54.8	56.2	54.3	55.2	55.0	52.7
69445	54.2	55.3	55.7	54.2	56.7	55.6	53.4
69618	~~53.9~~ 53.1	54.6	55.8	53.8	53.6	53.0	51.9
69013	~~53.0~~ 53.7	53.7	55.0	52.7	54.2	53.5	51.1
LASB50522	~~52.5~~ 53.0	52.7	54.0	52.1	53.9	55.1	50.8
LASB50452	~~54.9~~ 52.5	52.6	53.3	52.0	53.6	51.9	50.7
LASB50431	~~53.1~~ 51.9	52.1	52.8	51.4	51.9	51.7	50.1
LASB50069	~~52.6~~ 53.1	53.9	53.5	53.0	53.8	52.8	51.0
LASB50073	52.6	52.8	53.8	52.2	~~53.3~~ 53.3	52.7	51.3
69636	~~52.8~~ 52.6	52.8	53.3	51.0	53.1	53.1	51.0
69616	52.8	52.9	53.3	52.1	53.9	52.0	49.9
69417	53.9	53.4	55.2	52.7	54.7	53.5	50.8

WORKING COPY
Z# 124977
INITIAL QA DATE 2-29-16

ATTACHMENT 2
Page 2 of 3

6.[4] Date: From 2-29-16 to 3-06-16

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	53.4	52.6	54.2	51.3	54.2	51.7	50.5
69520	51.3	52.9	52.9	50.9	53.5	52.4	50.7
69641	52.7	52.7	53.6	52.5	53.0	52.5	51.0
69298	53.0	52.7	53.2	52.3	53.2	52.7	50.9
LASB02203	52.8	52.4	53.5	52.0	53.2	52.6	51.1
End Time (6.[12])	1326	1330	1324	1320	1313	1310	1312
6.[12]	NDO: QA NDO:	NDO: QA NDO: LM	NDO: QA NDO: LM	NDO: EP NDO: LM	NDO: MV NDO:	NDO: LM NDO:	NDO: MV NDO:

Comments:

NC

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 2-29-16 to 3-06-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	TA	2-29-16
Leon Montoya		191526	Lm	2-29-16
Tina Aguirre	Tina Aguirre	174977	TA	3-01-16
Leon Montoya		191526	Lm	3-1-16
Tina Aguirre	Tina Aguirre	174977	TA	3-02-16
Leon Montoya		191526	Lm	3-2-16
Edward Archuleta		100467	EP	3-3-16
Leon Montoya		191526	Lm	3-3-16
Michael Vigil		215267	MV	3/4/16
Juan Garcia		169840	JG	3-4-16
Leon Montoya		191526	Lm	3-5-16
Juan Garcia		169840	JG	3-5-16
Michael Vigil		215267	MV	3/6/16
Juan Garcia		169840	JG	3-6-16

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 2-29-16 to 3-06-16

	Monday 6.[4] Start Time: 1331	Tuesday 6.[4] Start Time: 1336	Wednesday 6.[4] Start Time: 1325	Thursday 6.[4] Start Time: 1322	Friday 6.[4] Start Time: 1314	Saturday 6.[4] Start Time: 1311	Sunday 6.[4] Start Time: 1313
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: 7-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-08-16 File Number 101916	Brand: Fluke Model: 561 Cal. Due Date: 7-08-16 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])	49.6 °F	49.1 °F	49.5 °F	49.9 °F	50.6 °F	51.4 °F	51.0 °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	50.7	51.0	49.9	50.3	52.2	50.2	50.5
68638	50.1	50.2	50.3	49.8	51.0	50.1	49.6
69615	52.0	52.7	52.3	51.7	52.6	51.1	51.1
69635	52.0	52.3	52.8	52.4	55.3	51.4	54.1
69642	53.1	53.0	53.4	53.5	53.4	51.8	51.5
69630	52.0	52.1	52.9	52.5	53.0	52.3	50.9
69633	51.4	51.6	51.2	51.1	52.4	51.7	51.4
68430	49.8	50.8	51.9	50.7	51.6	50.9	50.8
68631	49.9	50.0	50.0	49.8	3-4-16 49.9	49.0	49.8
69634	49.2	3-2-16 ~~49.3~~ 49.3	49.6	EP 3-3-16 ~~50.5~~ 50.5	50.4	50.6	52.8
68567	49.8	50.6	50.8	51.2	51.8	49.8	50.4
94227	50.6	50.2	50.8	51.3	51.1	50.6	49.9
LASB50442	51.8	51.5	52.0	51.2	51.8	50.1	51.8
69644	51.9	DA 3-1-16 ~~53.0~~ 51.5	52.5	52.3	51.2	50.7	50.1
LASB50443	52.6	DA 3-1-16 ~~51.9~~ 53.0	52.6	52.0	53.5	53.2	51.0
69638	52.1	51.9	52.5	51.9	52.5	52.1	51.3

WORKING COPY
Z# 174927
INITIAL DA DATE 2-26-16

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 2-29-16 to 3-06-16

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	51.8	52.1	51.8	52.3	51.4	51.9	50.9
68507	50.2	51.5	51.2	51.2	51.1	51.3	49.7
69568	49.9	50.7	50.1	51.4	50.9	49.8	49.8
69553	49.7	50.1	50.6	49.7	52.9	52.7	49.9
69598	49.7	50.3	50.4	50.0	51.7	51.0	50.2
LASB50559	50.3	49.8	50.4	52.2	503	50.0	49.7
69015	50.7	51.5	51.7	50.6	51.9	51.3	51.0
69639	51.5	51.3	51.6	52.5	51.5	51.2	49.9
69637	50.0	52.1	50.8	50.1	51.2	51.4	50.4
End Time (6.[12])	1335	1340	1329	1328	1320	1316	1316
6.[12]	NDO: QA NDO:	NDO: QA NDO: Lm	NDO: QA NDO: Lm	NDO: EP NDO: Lm	NDO: MY NDO:	NDO: Lm NDO:	NDO: MY NDO:

Comments:

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 2-29-16 to 3-06-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	TA	2-29-16
Leon montoya		191526	LM	2-29-16
Tina Aguirre	Tina Aguirre	174977	TA	3-01-16
Leon montoya		191526	LM	3-1-16
Tina Aguirre	Tina Aguirre	174977	TA	3-02-16
Leon montoya		191526	LM	3-2-16
Edward Pacheco	Edward Pacheco	100487	EP	3-3-16
Leon montoya		191526	LM	3-3-16
Michael Vigil	Michael Vigil	215267	MV	3/4/16
Juan Garcia	Juan Garcia	169890	JG	3-4-16
Leon montoya		191526	LM	3-5-16
Juan Garcia	Juan Garcia	169890	JG	3-5-16
Michael Vigil	Michael Vigil	215267	MV	3/6/16
Juan Garcia	Juan Garcia	169890	JG	3-6-16

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 2-29-16 to 3-06-16

	Monday 6.[4] Start Time: 1317	Tuesday 6.[4] Start Time: 1322	Wednesday 6.[4] Start Time: 1316	Thursday 6.[4] Start Time: 1307	Friday 6.[4] Start Time: 1306	Saturday 6.[4] Start Time: 1301	Sunday 6.[4] Start Time: 1306
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: Fluke Model: 561 10-21-16 Cal. Due Date: ~~07-07-16~~ 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])	52.6 °F	52.7 ~~52.1 °F~~ 8-3-16 Lm	53.3 °F	52.5 °F	53.1 °F	52.1 °F	53.2 °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	52.0	52.2	52.3	51.6	52.7	52.3	53.7
69645	51.9	51.8	52.1	51.8	52.1	51.5	51.3
94068	51.6	52.0	52.5	51.9	51.6	54.1	51.7
93605	52.7	52.9	53.2	52.8	53.1	52.0	51.5
69548	52.5	52.5	53.1	52.4	53.3	51.9	52.7
69604	52.6	52.5	53.3	52.4	54.0	53.1	52.0
LASB50529	52.2	52.8	53.4	52.6	51.9	52.5	51.5
LASB50418	52.2	52.6	53.2	52.5	53.0	52.6	51.8
69036	52.6	52.5	54.0	52.6	53.3	53.0	51.9
LASB50451	53.4	53.1	54.0	53.4	54.2	53.3	52.0
69559	53.1	52.7	53.6	52.8	53.6	52.1	52.1
LASB50448	52.4	53.0	54.2	52.8	53.2	52.6	53.0
87827	52.1	53.3	52.2	52.1	53.4	53.4	52.3

WORKING COPY
Z# 174927
INITIAL QA DATE 2-29-16

ATTACHMENT 4
Page 2 of 3

6.[4] Date: From 2-29-16 to 3-06-16

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	51.6	53.4	52.8	52.0	54.5	53.4 53.1	52.6
87823	52.2	53.5	53.2	53.5	55.5	53.8	53.6
87825	53.6	53.9	55.4	53.7	56.1	55.3	53.3
End Time (6.[12])	1321	1325	1319	1312	1309	1304	1308
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

C
N

ATTACHMENT 4
Page 3 of 3

6.[4] Date: From 2-29-16 to 3-06-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	174977	TA	2-29-16
Leon Montoya	Leon Montoya	191526	LM	2-29-16
Tina Aguirre	Tina Aguirre	174977	TA	3-01-16
Leon Montoya	Leon Montoya	191526	LM	3-1-16
Tina Aguirre	Tina Aguirre	174977	TA	3-02-16
Leon Montoya	Leon Montoya	191526	LM	3-2-16
Edward Pacheco	Edward Pacheco	1004971	EP	3-3-16
Leon Montoya	Leon Montoya	191526	LM	3-3-16
Michael Vigil	Michael Vigil	215267	MV	3/4/16
Juan Garcia	Juan Garcia	169840	JG	3-4-16
Leon Montoya	Leon Montoya	191526	LM	3-5-16
Juan Garcia	Juan Garcia	169840	JG	3-5-16
Michael Vigil	Michael Vigil	215267	MV	3/6/16
Juan Garcia	Juan Garcia	169840	JG	3-6-16

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 3/7/16 to 3/13/16

		Monday 6.[4] Start Time: 1350	Tuesday 6.[4] Start Time: 1415	Wednesday 6.[4] Start Time: 1325	Thursday 6.[4] Start Time: 1319	Friday 6.[4] Start Time: 1320	Saturday 6.[4] Start Time: ~~1280~~ 1320 (EP 3-12-16 100497)	Sunday 6.[4] Start Time: 1318
TA-54-0375 Cell 1								
Calibrated infrared thermometer (4.2[1][B])		Brand: FLUKE Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	Brand: fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571
Ambient Temperature (6.[5])		53.2 °F	51.5 °F	55.8 °F	57.3 °F	58.6 °F	59.5 °F	53.4 °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		53.4	52.3	55.7	57.5	58.9	59.0	53.3
LA00000070503	68540	53.4	52.9	55.7	58.3	58.7	58.7	53.0
LA00000070503	68553	53.7	52.6	56.4	59.5	59.7	58.7	53.6
69445		54.3	53.1	56.1	59.9	59.7	58.8	53.7
69618		53.6	53.0	55.7	56.0	59.4	58.4	53.2
69013		53.3	53.2	55.6	57.8	57.8	57.7	53.1
LASB50522		51.9	53.1	55.2	57.4	58.1	58.2	52.9
LASB50452		51.2	52.8	55.5	57.8	57.8	57.6	52.9
LASB50431		53.1	52.9	55.0	57.8	57.7	57.7	EP 3-13-16 100497 ~~52.8~~ 52.4
LASB50069		52.3	52.7	55.5	57.5	57.5	57.4	EP 3-13-16 100497 ~~52.0~~ 52.3
LASB50073		52.3	52.4	54.2	56.6	56.7	56.9	52.0
69636		52.3	52.8	54.6	57.0	57.2	57.1	52.0
69616		51.9	53.0	55.0	57.3	57.5	56.9	52.6
69417		53.0	53.0	54.8	57.7	57.8	58.1	52.8

WORKING COPY
Z# 100497
INITIAL EP DATE 3/7/16

ATTACHMENT 2
Page 2 of 3

6.[4] Date: From 3/7/16 to 3/13/16

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	53.1	53.0	54.1	57.5	58.2	57.6	52.4
69520	52.2	53.3	54.7	57.5	57.3	57.7	52.8
69641	52.3	53.0	55.3	57.5	57.4	57.7	52.8
69298	52.4	53.2	55.3	57.4	57.9	57.8	52.6
LASB02203	52.2	53.2	54.7	57.5	57.2	57.0	52.4
End Time (6.[12])	1359	1419	1329	1323	1325	3-12-16 EP ~~1240~~ 1325	1322
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: EP NDO:	NDO: EP NDO:	NDO: EP NDO:

Comments:

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 3/7/16 to 3/13/16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	169840	JG	3-7-16
Leon montoya		179526	LM	3-7-16
Tina Aguirre	Tina Aguirre	174977	TA	3-8-16
Leon montoya		179526	LM	3-8-16
Tina Aguirre	Tina Aguirre	174977	TA	3-9-16
Leon montoya		179526	LM	3-9-16
Tina Aguirre	Tina Aguirre	174977	TA	3-10-16
JUAN GARCIA	Juan Garcia	169840	JG	3-10-16
Edward Parker	Edward Parker	100497	EP	3-11-16
Tina Aguirre	Tina Aguirre	174977	TA	3-11-16
Edward Parker	Edward Parker	100497	EP	3-12-16
Tina Aguirre	Tina Aguirre	174977	TA	3-12-16
Edward Parker	Edward Parker	100497	EP	3-13-16
Tina Aguirre	Tina Aguirre	174977	TA	3-13-16

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 3/7/16 to 3/13/16

	Monday 6.[4] Start Time: 1400	Tuesday 6.[4] Start Time: 1420	Wednesday 6.[4] Start Time: 1330	Thursday 6.[4] Start Time: 1324	Friday 6.[4] Start Time: 1327	Saturday 6.[4] Start Time: 1375 EP 100497 3-12-16	Sunday 6.[4] Start Time: 1324
TA-54-0375 Cell 2							
Calibrated infrared thermometer (4.2[1][B])	Brand: FLUKE Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571
Ambient Temperature (6.[5])	49.2 °F	52.5 °F	55.3 °F	58.3 °F	56.8 °F	57.7 °F	53.9 °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])
LASB02198	49.7	52.3	53.5	56.4	56.7	56.7	52.7
68638	49.8	53.1	54.6	57.2	57.5	57.9	53.6
69615	51.8	53.3	55.1	57.4	58.3	58.4	54.0
69635	52.1	53.8	55.9	58.4	58.6	58.7	54.7
69642	52.3	53.8	56.6	58.2	59.1	59.2	55.6
69630	51.7	53.7	56.8	56.2	59.8	60.0	56.0
69633	51.4	53.1	55.4	57.5	57.7	57.9	54.5
68430	49.7	53.7	55.8	57.6	58.5	58.6	55.1
68631	49.3	53.3	55.2	57.3	57.9	58.3	54.0
69634	49.9	52.5	54.2	56.2	57.0	57.0	53.8
68567	50.1	52.3	53.3	56.1	56.9	56.8	53.2
94227	51.1	53.0	54.4	56.7	57.1	57.9	53.5
LASB50442	51.7	53.3	55.1	57.2	58.0	58.0	54.7
69644	52.2	53.2	56.0	57.4	57.6	57.9	54.2
LASB50443	51.5	53.5	55.1	57.7	58.4	58.5	55.1
69638	51.5	53.5	55.6	57.8	58.2	58.5	55.3

WORKING COPY
Z# 100497
INITIAL EP DATE 3/7/16

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 3/7/16 to 3/13/16

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	51.7	53.6	56.1	57.5	57.9	58.4	54.3
68507	51.0	53.1	56.0	56.6	57.8	58.6	54.7
69568	~~50.0~~ 3-7-16 50.2	52.8	55.4	56.6	57.8	57.3	53.9
69553	49.8	52.8	54.5	54.8	57.1	56.6	53.6
69598	49.9	51.9	54.6	55.8	57.2	57.1	53.8
LASB50559	49.9	53.3	55.4	57.1	58.3	58.0	54.5
69015	50.8	53.6	55.7	57.8	58.1	58.4	54.5
69639	50.9	53.4	55.8	57.4	58.1	57.9	54.8
69637	51.1	53.0	55.9	57.7	59.5	59.2	55.4
End Time (6.[12])	1414	1424	1335	1328	1333	2-12-16 ~~1247~~ 1330	1329
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 3/7/16 to 3/13/16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	1169840	JG	13-7-16
Leon montoya		1915261	LM	13-7-16
Tina Aguirre	Tina Aguirre	1749770	TA	13-8-16
Leon montoya		1915261	LM	13-8-16
Tina Aguirre	Tina Aguirre	1749770	TA	13-9-16
Leon montoya		1915261	LM	13-9-16
Tina Aguirre	Tina Aguirre	1749770	TA	13-10-16
Juan Garcia	Juan Garcia	1169840	JG	13-10-16
Edward Pacheco	Edward Pacheco	1004971	EP	13-11-16
Tina Aguirre	Tina Aguirre	1749770	TA	13-11-16
Edward Pacheco	Edward Pacheco	1004971	EP	13-12-16
Tina Aguirre	Tina Aguirre	1749770	TA	13-12-16
Edward Pacheco	Edward Pacheco	1004971	EP	13/13/16
Tina Aguirre	Tina Aguirre	1749770	TA	13-13-16

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 3/7/16 to 3/13/16

	Monday 6.[4] Start Time: 1343	Tuesday 6.[4] Start Time: 1411	Wednesday 6.[4] Start Time: 1323	Thursday 6.[4] Start Time: 1316	Friday 6.[4] Start Time: 1300	Saturday 6.[4] 1315 Start Time: ~~1238~~ 3-12-16	Sunday 6.[4] Start Time: 1300
TA-54-0375 Cell 3							
Calibrated infrared thermometer (4.2.[1][B])	Brand: FLUKE Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571
Ambient Temperature (6.[5])	53.1 °F	52.1 °F	54.6 °F	57.6 °F	57.5 °F	57.4 °F	52.3 °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])
69519	52.1	53.7	54.6	58.0	57.0	57.8	52.2
69645	52.1	54.2	55.0	57.7	57.2	67.9	52.1
94068	53.0	53.9	54.5	57.7	57.3	58.6	52.0
93605	52.7	54.3	55.4	58.0	58.1	58.2	52.7
69548	53.1	54.8	55.0	57.8	57.4	58.0	52.0
69604	52.9	53.6	54.2	57.6	57.1	57.6	51.8
LASB50529	52.1	53.8	54.4	55.5	57.1	57.7	51.6
LASB50418	52.7	53.9	54.9	57.1	57.3	57.7	52.4
69036	53.2	53.6	54.3	57.9	57.8	58.0	52.5
LASB50451	53.0	53.7	55.1	57.9	57.8	58.2	52.9
69559	53.0	54.1	54.0	57.2	57.2	57.5	52.4
LASB50448	52.9	54.4	56.1	58.1	57.9	57.7	52.1
87827	53.3	52.7	55.5	58.2	59.1	58.8	53.1

WORKING COPY
Z# 100497
INITIAL EP DATE 3/7/16

ATTACHMENT 4
Page 2 of 3

6.[4] Date: From 3-7-16 to 3-13-16

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)							
				~~58.2~~ 3-10-16	EP 3-11-16 ~~58.0~~ 59.1		
87826	53.2	53.4	55.8	59.2	EP 3-11-16 ~~58.7~~ 58.0	58.8	53.6
87823	53.2	53.3	56.0	58.3	EP 3-11-16 ~~59.7~~ 58.7	59.0	53.5
87825	54.3	53.2	56.2	58.9	59.7 ~~58.7~~	59.1	53.9
End Time (6.[12])	1349	1414	1325	1318	1318 EP 3-11-16	~~1315~~ EP 3-12-16 1318	1317
6.[12]	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: EP NDO:	NDO: EP NDO:	NDO: EP NDO:

Comments:

ATTACHMENT 4
Page 3 of 3

6.[4] Date: From 3/7/16 to 3/13/16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Juan Garcia	Juan Garcia	169840	JG	3-7-16
[illegible]	[illegible]	[illegible]	[illegible]	3-7-16
Tina Aguirre	Tina Aguirre	174977	TA	3-8-16
[illegible]	[illegible]	191526	LM	3-8-16
Tina Aguirre	Tina Aguirre	174977	TA	3-9-16
[illegible]	[illegible]	191526	[illegible]	3-9-16
Tina Aguirre	Tina Aguirre	174977	TA	3-10-16
Juan Garcia	Juan Garcia	169840	JG	3-10-16
Edmund Parker	Edmund Parker	100497	EP	3-11-16
Tina Aguirre	Tina Aguirre	174977	TA	3-11-16
Edmund Parker	Edmund Parker	100497	EP	3-12-16
Tina Aguirre	Tina Aguirre	174977	TA	3-12-16
Edmund Parker	Edmund Parker	100497	EP	3-13-16
Tina Aguirre	Tina Aguirre	174977	TA	3-13-16

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 3-14-16 to 3-20-16

	Monday 6.[4] Start Time: 1329	Tuesday 6.[4] Start Time: 1322	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: 7-5-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-5-16 File Number 109571	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])	61.3 °F	55.3 °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	57.5	55.5					
LA00000070503 68540	61.4	55.2					
LA00000070503 68553	57.6	55.7					
69445	59.8	55.6					
69618	59.0	54.7					
69013	60.9	55.0					
LASB50522	58.2	54.9					
LASB50452	59.4	55.2					
LASB50431	56.9	54.8					
LASB50069	57.2	54.9					
LASB50073	59.0	54.4					
69636	56.9	54.7					
69616	57.6	54.8					
69417	58.7	55.2					

WORKING COPY
Z# 124927
INITIAL QA DATE 3-14-16

ATTACHMENT 2
Page 2 of 3

6.[4] Date: From 3-14-16 to 3-20-16

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	58.1	54.8					
69520	57.9	55.1					
69641	57.7	54.8					
69298	58.0	54.6					
LASB02203	56.8	54.4					
End Time (6.[12])	1334	1327					
6.[12]	NDO: [signature] NDO:	NDO: [signature] NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 2
Page 3 of 3

6.[4] Date: From 3-14-16 to 3-20-16

6.[16] Performed by

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	617497	TA	3-14-16
Juan Garcia		169810		3-14-16
Juan Garcia		169810		3-15-16
Tina Aguirre	Tina Aguirre	617497	TA	3-15-16
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

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 3-14-16 to 3-20-16

	Monday 6.[4] Start Time: 1335	Tuesday 6.[4] Start Time: 1328	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: 7-8-16 File Number 109571	Brand: Fluke Model: 561 Cal. Due Date: 7-8-16 File Number 109571	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number	Brand: Model: Cal. Due Date: File Number
Ambient Temperature (6.[5])	56.3 °F	55.2 °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	56.8	54.8					
68638	56.9	55.3					
69615	61.3	55.9					
69635	58.9	56.5					
69642	59.2	57.0					
69630	59.1	57.5					
69633	58.1	56.2					
68430	58.9	57.1					
68631	55.1	56.1					
69634	55.3	55.3					
68567	56.9	55.0					
94227	57.3	55.6					
LASB50442	58.1	56.5					
69644	57.9	56.0					
LASB50443	57.0	56.6					
69638	57.9	56.4					

WORKING COPY
Z# 174977
INITIAL QA DATE 3-14-16

ATTACHMENT 3
Page 2 of 3

6.[4] Date: From 3-14-16 to 3-20-16

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	57.8	56.3					
68507	56.0	56.8					
69568	57.4	55.8					
69553	57.3	54.9					
69598	56.7	55.3					
LASB50559	57.8	55.9					
69015	58.5	56.3					
69639	57.2	55.9					
69637	58.2	57.0					
End Time (6.[12])	1340	1333					
6.[12]	NDO: ~~1~~ NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 3
Page 3 of 3

6.[4] Date: From 3-14-16 to 3-20-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Lina Aguirre	Lina Aguirre	174977	LA	3-14-16
Ivan Garcia	Ivan Garcia	169840	IG	3-14-16
Ivan Garcia	Ivan Garcia	169840	IG	3-14-16
Lina Aguirre	Lina Aguirre	174977	LA	3-15-16

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date

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 3-14-16 to 3-20-16

	Monday 6.[4] Start Time: 1324	Tuesday 6.[4] Start Time: 1316	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 109571	Brand: Fluke Model: 561 Cal. Due Date: 10-21-16 File Number 109571	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])	58.6 °F	54.6 °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	58.2	54.4					
69645	57.1	54.8					
94068	57.2	54.6					
93605	58.2	55.2					
69548	57.7	55.2					
69604	57.5	54.3					
LASB50529	57.0	54.5					
LASB50418	57.7	54.7					
69036	59.2	54.7					
LASB50451	57.2	54.9					
69559	57.1	54.5					
LASB50448	57.1	54.3					
87827	59.9	55.5					

WORKING COPY
Z# 174977
INITIAL QA DATE 3-14-16

ATTACHMENT 4
Page 2 of 3

6.[4] Date: From 3-14-16 to 3-20-16

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	59.3	55.6 3-15-16					
87823	58.7	~~57.0~~ 55.7					
87825	59.2	55.8					
End Time (6.[12])	1328	1321					
6.[12]	NDO: ~~1328~~ 3-14-16 NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:	NDO: NDO:

Comments:

ATTACHMENT 4
Page 3 of 3

6.[4] Date: From 3-14-16 to 3-20-16

6.[16] Performed by:

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
Tina Aguirre	Tina Aguirre	[illegible]	[illegible]	3-14-16
Juan Garcia	Juan Garcia	169840	[illegible]	3-14-16
Juan Garcia	Juan Garcia	169840	[illegible]	3-15-16
Tina Aguirre	Tina Aguirre	[illegible]	[illegible]	3-15-16
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

Nitrate Drum Observer (print)	Signature	Z#	Initials	Date
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

10.1[2] Reviewed by:

SOM or designee (print)	Signature	Z#	Initials	Date
	/	/	/	/