



NADP Operator Virtual Training:

Ammonia Monitoring Network (AMoN)

ALPHA Passive Ammonia Sampling

December 15, 2025



Introduction

- First deployment January 13, 2026
- Ella Osby - Site Support Specialist
 - Ella.Osby@slh.wisc.edu
 - Sample deployment procedures
- Katie Blaydes - Chemist Supervisor
 - Results of co-located study





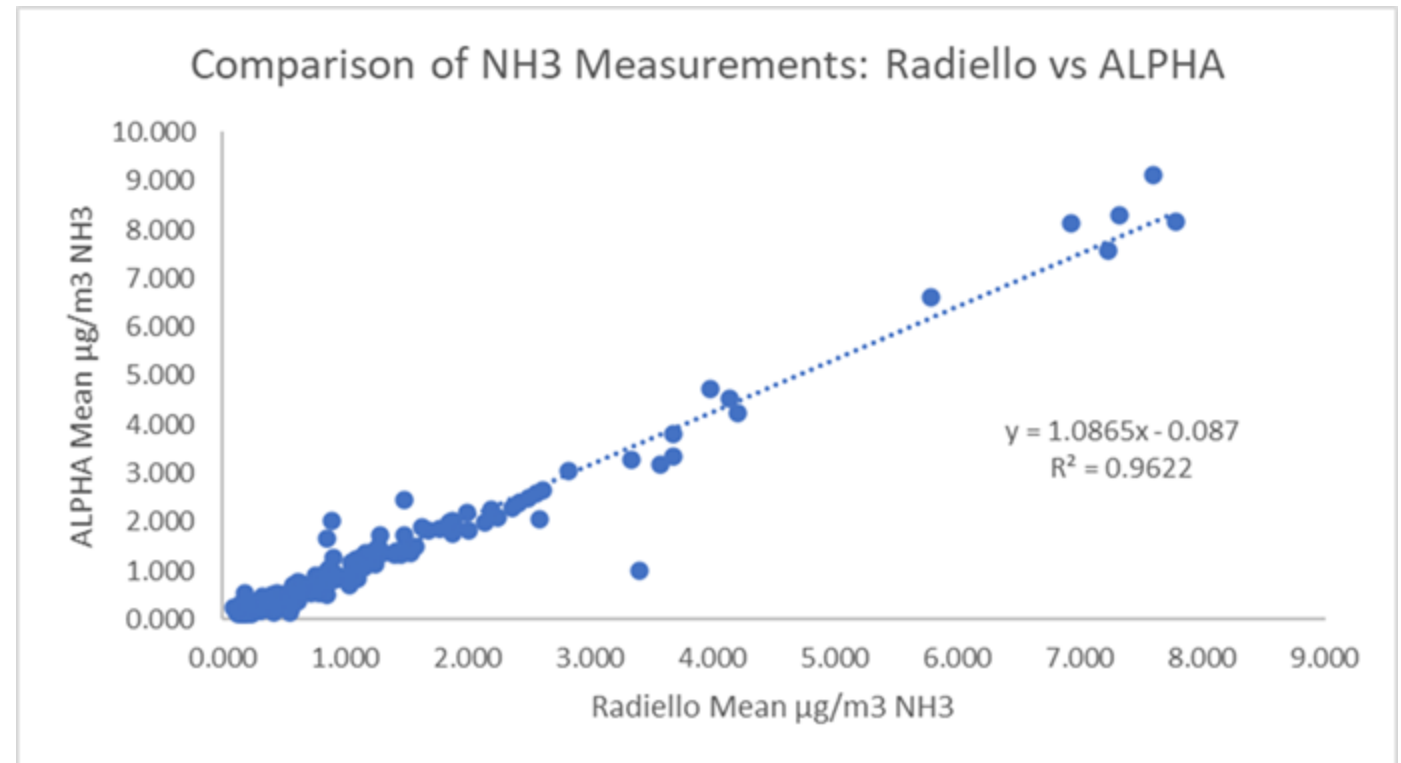
AMoN ALPHA Study

- 9 month co-located study - seasonally
 - 1st deployment - November 19, 2024
 - Last deployment - August 12, 202
- 10 sites - covers different climates
- Each deployment contains duplicate Radiellos, duplicate ALPHAs, and a travel blank for each type





AMoN ALPHA Study





ALPHA Sampling Start

- First ALPHA AMoN sample deployment January 13, 2026.
- SOP and training video will be emailed to operators.
- Deployment schedule will remain the same





Supply Box Contents

Single Sampler



Deployment date label



Sampler(s) with
Travel Blank



Duplicate Sampler Reminder



Duplicate
reminder



Single vs Duplicate vs Travel Blank

Field Quality Assurance (QA)

Single Sampler



Deploy sampler
for 2 week period

Duplicate Samplers



Deploy both
samplers for 2 week
period

Travel Blank




Do not remove from
bag, store in supply box
for 2 week period

*Leave filter paper in
the bag! Do not handle
or discard.*



AMoN Field Form

 **NADP**

AMMONIA MONITORING NETWORK (AMoN)
Send Completed Form with Each Sample Set to:
NADP Sample Receiving
465 Henry Mall, Madison, WI 53706

1. SITE Name _____		<div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div> ID		2. OBSERVER Print name _____		<div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div> Initials																																					
3. SAMPLE START AND END Date <table border="1" style="display: inline-table;"><tr><th>MO</th><th>DAY</th><th>YR</th></tr><tr><td></td><td></td><td></td></tr></table> Time <table border="1" style="display: inline-table;"><tr><th colspan="2">0001-2400</th></tr><tr><td></td><td></td></tr></table> ON <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> OFF <table border="1" style="display: inline-table;"><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>				MO	DAY	YR				0001-2400																				4. SITE CONDITIONS <i>Please check any and all conditions that apply. Comment on any other site conditions in Block 7.</i> <table border="1" style="display: inline-table;"><tr><th>YES</th><th>NO</th></tr><tr><td>2</td><td>1</td></tr><tr><td>2</td><td>1</td></tr><tr><td>2</td><td>1</td></tr></table> 1. Significant smoke or fire 2. Fertilizer use nearby 3. Farm animal activity nearby				YES	NO	2	1	2	1	2	1	5. Supplies (Circle if needed) Gloves Return shipping label	
MO	DAY	YR																																									
0001-2400																																											
YES	NO																																										
2	1																																										
2	1																																										
2	1																																										
6. REMARKS <i>For example: equipment malfunction, contamination, farming, burning</i> <div style="border: 1px solid black; width: 100px; height: 30px; float: right; margin-top: 20px; padding: 2px;">LAB USE ONLY</div> <div style="clear: both;"></div> <p style="text-align: right; font-size: small;">Questions? Call 1-800-952-7353 or E-mail amon@slh.wisc.edu</p>																																											

White Copy: Return to NAL Blue Copy: Retain for Your Records Rev. 11.2024

- No change to AMoN field form
- Complete all Blocks.
- Travel blanks ~4/yr
- Duplicates ~4/yr

4. SITE CONDITIONS

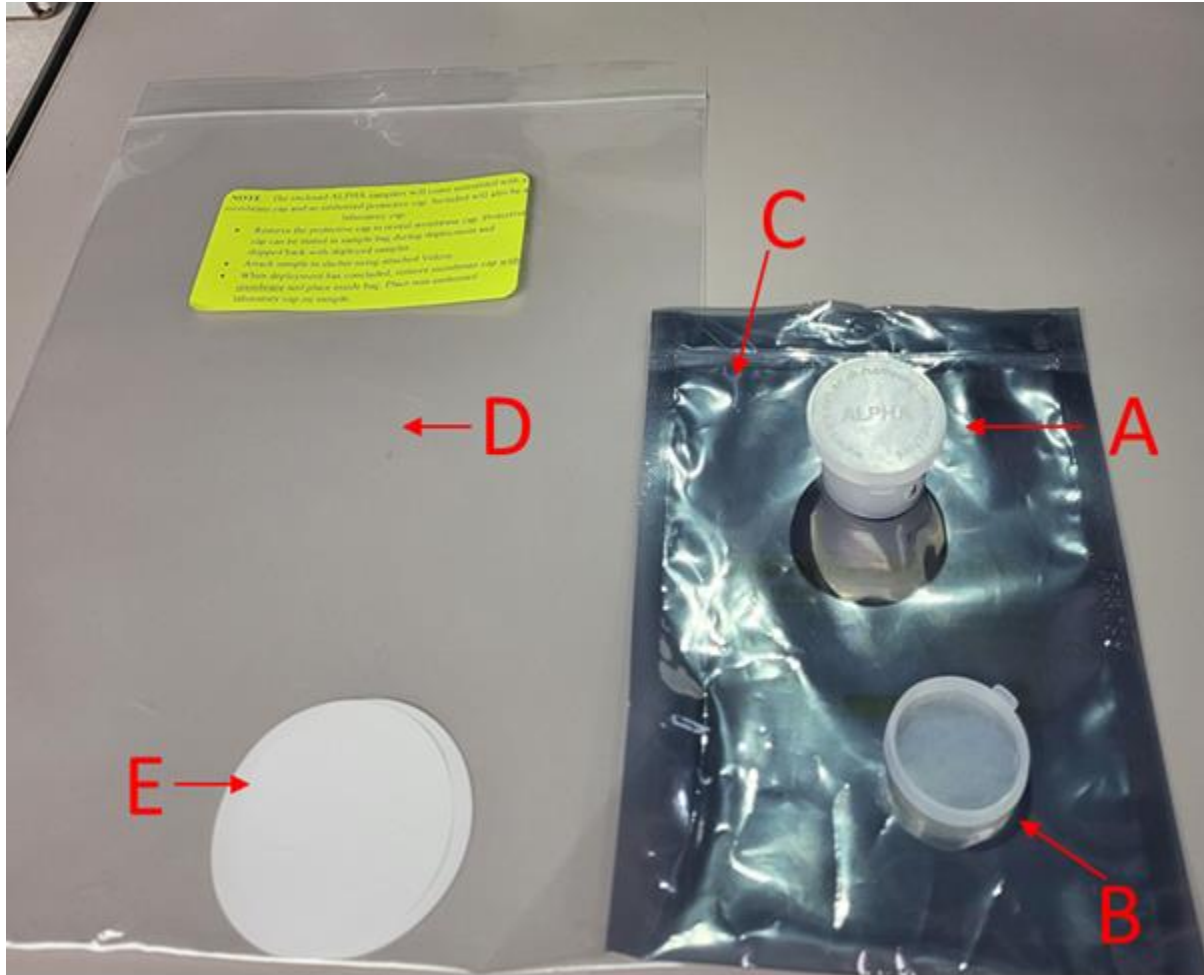
*Please check any and all conditions that apply.
Comment on any other site conditions in Block 7.*

YES	NO
2	1
2	1
2	1

1. Significant smoke or fire
2. Fertilizer use nearby
3. Farm animal activity nearby



Contents of Sampler Bag



- ALPHA sampler (A) and laboratory caps (B) are inside an anti-static bag (C)
- Anti-static bag is inside of clear Ziploc bag (D) with citric acid filter (E)



Installation

- Weld nuts and installation SOP will be sent out in first deployment box
 - Weld nuts thread on to the existing bolts in shelter.
- Inspect shelter for cracks, etc. and request replacement if





Deployment Steps

- Wearing AMoN gloves provided, remove the ALPHA sampler from the bag.
- Remove the top protective cap (embossed with writing) to expose the PTFE membrane and place back in the bag **Do not touch the PTFE membrane**
- Holding the body, attach sampler to Velcro weld nut. Firmly press upwards to secure.
- Repeat for any duplicate ALPHA samplers.
- Record Start Date/Time on field form Block 3.

PTFE Membrane

Protective cap





Collection/Retrieval Steps

- Wearing gloves, pull the ALPHA sampler off the Velcro weld nut. Place the protective cap (embossed cap) back on the ALPHA body.
- Fill out block 3 on the field form with the “OFF” date/time, block 4 with the site conditions, and the Remarks block with any relevant observations.

Protective cap on
ALPHA body





Collection/Retrieval Steps

- Complete the next steps in a dry location
 - Place samplers in anti static bag if transported to dry location.
- Wearing gloves, remove protective cap (embossed with writing), and the membrane cap (cap with hole for PTFE membrane).
- **Do not touch the inner filter paper. This is the collection filter that contains ammonia and will be extracted back at the lab.**



ALPHA body with
inner filter exposed



Membrane cap
(cap with hole and
PTFE membrane)





Preparing shipment back to NAL

- Ensure everything is back in the anti-static bag.
- Place the anti-static bag in the sealable plastic bag.
- Return all items to the supply box.
- Return shipping labels will be provided to send to:

Receiving

NADP Sample

465 Henry Mall

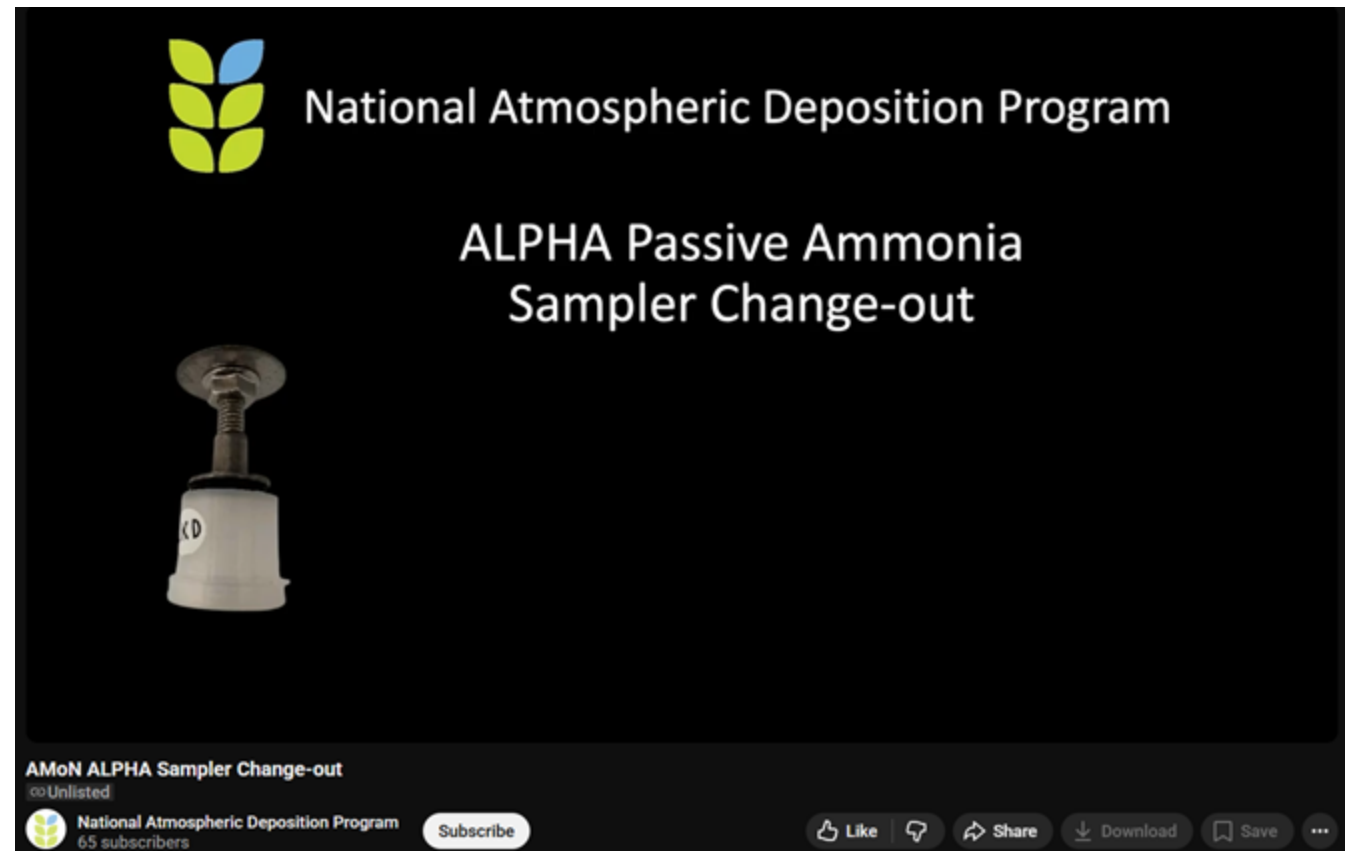
Madison, WI 53706





ALPHA Training Video

- New SOP will be emailed to all operators soon, along with link to this recording
- ALPHA AMoN training video will be posted on the website <https://youtu.be/Gtn1scBrRt0>
- First deployment Jan 13, 2026





Site Support

- Toll-free number 1-800-952-7353
- Network email
 - amon@slh.wisc.edu
- Website: <http://nadp.slh.wisc.edu/siteops/#amon>

▼ AMON – AMMONIA MONITORING NETWORK

MANUALS AND SOPS

[AMoN Site Operations Manual](#)

[AMoN Field Hold Times](#)

Sample Change

[AMoN Sample Change](#)

[Field form](#)

