

From: [Turman, Ken](#)
To: [Carla Burrmann](#)
Cc: [O'Neal, Ashley](#); [Paswater, Benjamin](#); [Meyer, Sarah](#)
Subject: RE: Hunter's Lake LVI report
Date: Monday, December 22, 2025 12:49:11 PM
Attachments: [image003.png](#)
[image006.png](#)
[image007.png](#)
[SW-DIST-2025-10-29-01.pdf](#)
[SW-DIST-2025-10-29-01-C-0164936.PDF](#)
[SW-DIST-2025-10-29-01-B-0164987.PDF](#)

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Hi Carla,

Apologies for the late response, enjoying a bit of time off. Nonetheless, I have the completed lab results Attached) back and wanted to follow up with a summary and my personal interpretation. Overall, the lab data strongly support what we observed in the field.

Nutrients were low across the board. Total phosphorus (0.013 mg/L), nitrate/nitrite (below detection), and ammonia (0.008 mg/L) all indicate minimal nutrient loading and a low risk of algal blooms. Chlorophyll-a was also low (5.8 µg/L), which aligns with the excellent water clarity observed during sampling and suggests the lake is not experiencing excess phytoplankton growth.

General water quality parameters were solid. Turbidity and total suspended solids were very low, alkalinity and hardness were moderate, and dissolved oxygen and pH were well within healthy ranges for a Florida lake. Metals were either not detected or present at very low, non-concerning concentrations.

A broad pesticide and organic compound screen showed mostly non-detects, with a few trace-level detections typical of urban environments. None were present at levels suggesting ecological concern, and there were no red flags that would indicate active contamination or stressors affecting the lake's biological condition.

Taken together with the LVI score of 54 and strong habitat assessment results, the lab data reinforce that Hunter's Lake is functioning well ecologically. The dominant Illinois pondweed continues to appear to be providing clear benefits by stabilizing sediments, limiting nutrient availability, and supporting overall habitat quality. While it may feel dense from a recreational standpoint, it is likely a key reason the lake is scoring as well as it is.

At this point, any management approach would best focus on light, targeted maintenance rather than restoration, with care taken not to over-remove beneficial native vegetation.

Best,
Ken

Respectfully,



Ken Turman
Florida Department of Environmental Protection
Division of Environmental Assessment
And Restoration
SWROC Team Lead
Ken.Turman@FloridaDEP.gov
Office: 813.470.5776

From: Carla Burrmann <cburrmann@co.hernando.fl.us>

Sent: Wednesday, December 17, 2025 11:35 AM
To: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Cc: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>; Paswater, Benjamin <Benjamin.Paswater@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hi Ken,

Just following up on the below email. Any updates are appreciated.

TY, Carla.



Carla S. Burrmann, M.S.

Manager
Natural Resources Department
Hernando County
Email: cburrmann@hernandocounty.us
Phone: 352-754-4031 | Mobile: 352-238-2918

16161 Flight Path Dr.
Brooksville, FL 34604
Website: [Parks and Recreation](#)

From: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Sent: Wednesday, November 12, 2025 5:07 PM
To: Carla Burrmann <cburrmann@co.hernando.fl.us>
Cc: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>; Paswater, Benjamin <Benjamin.Paswater@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

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Hi Carla,

The lab reports are not available yet, judging by the current progress, I'd estimate another two weeks. I can provide you with the results of the bioassessment, my informal interpretation of the findings, and some anecdotal information.

Physical parameters (DO%, DOmg/l, SpcCond, pH, Salinity) were all well within healthy range.

An LVI Score of 54 sits comfortably in the mid-range of healthy (43-79, Exceptional is 80+, >43 is failing) coupled with a Habitat assessment score of 104, suggests:

- The lake has good vegetative diversity and structure, with moderate species richness
- No strong signs of ecological degradation based on macrophyte communities.
- Management interventions (if any) likely involve maintenance, not restoration.
- Good habitat complexity for fish, inverts, and periphyton.
- littoral zones are still functional
- minor influence from invasives
- some shoreline disturbance

My takeaways: Hunters Lake appeared atypical of the region with great clarity and good macrophyte communities. I'd

expect lab results to indicate minimal nutrient loading. The only noticeable ‘problem’ is that Hunter’s Lake has a lot of Illinois pondweed (*Potamogeton illinoensis*), and while it can definitely make boating or recreating feel crowded, it’s actually doing a tremendous amount of good for the lake. This is a Florida native plant, and its presence is one of the main reasons the lake’s health scores as well as it does.

Pondweed helps the lake by:

- Holding down nutrients that would otherwise fuel algae blooms
- Stabilizing sediments, which keeps the water clearer
- Producing oxygen and supporting fish and wildlife habitat

Because it’s a native species that provides these benefits, a heavy-handed removal approach could unintentionally harm the lake’s overall health. Instead, a lighter, more balanced management strategy makes the most sense. One option is to consider a small, controlled number of grass carp, which FWC can permit specifically to open up lanes for navigation without wiping out the beneficial vegetation.

I’ll follow up again once I’ve got the lab results.

Warm regards,
Ken

Respectfully,



Ken Turman

Florida Department of Environmental Protection
Division of Environmental Assessment
And Restoration
SWROC Team Lead
Ken.Turman@FloridaDEP.gov
Office: 813.470.5776

From: Carla Burrmann <cburmann@co.hernando.fl.us>

Sent: Wednesday, November 12, 2025 1:13 PM

To: Turman, Ken <Ken.Turman@FloridaDEP.gov>

Cc: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>

Subject: RE: Hunter's Lake LVI report

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hi Ken,

I hope you and your team enjoyed Hunter’s Lake. We appreciate you reviewing the lake. Would you please let me know when we can expect the LVI report?

TY, Carla.



Carla S. Burrmann, M.S.

Manager
Natural Resources Department
Hernando County
Email: cburmann@hernandocounty.us

Phone: 352-754-4031 | Mobile: 352-238-2918

16161 Flight Path Dr.
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Website: [Parks and Recreation](#)

From: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Sent: Monday, October 27, 2025 7:48 AM
To: Carla Burrmann <cburrmann@co.hernando.fl.us>
Cc: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

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Hi Carla,

Great to know! We do not have airboat capabilities and would prefer to use an accessible private launch if possible. Otherwise, we do have a push-pole we often use to get through thick areas. If you believe we can push our way through the public launch, into the lake proper, we are content to do that as well.

Ken

Respectfully,



Ken Turman
Florida Department of Environmental Protection
Division of Environmental Assessment
And Restoration
SWROC Team Lead
Ken.Turman@FloridaDEP.gov
Office: 813.470.5776

From: Carla Burrmann <cburrmann@co.hernando.fl.us>
Sent: Friday, October 24, 2025 2:39 PM
To: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>
Cc: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello. Just wanted to follow up on the below email and see if you will need assistance accessing the lake. The county boat ramp channel is currently unpassable unless you have an airboat. Please let me know if you will need to use our private access launch.

TY, Carla.

Carla S. Burrmann, M.S.
Manager
•Aquatic Services and Waterways
•Environmentally Sensitive Lands (ESL)



Hernando County
Email: cburmann@hernandocounty.us
Phone: 352-754-4737 | Mobile: 352-238-2918

16161 Flight Path Dr.
Brooksville, FL 34604
Website: [Parks and Recreation](#)

From: Carla Burrmann
Sent: Monday, October 13, 2025 8:13 AM
To: 'O'Neal, Ashley' <Ashley.ONeal@FloridaDEP.gov>
Cc: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

Good Morning Ashley,

This is great news. I appreciate the assistance.

Hi Ken –

The water level at the boat ramp is a bit low – our airboat was scrapping sediment! There is an alternative boat ramp (grassed) that can be used if you need to launch something other than an airboat.

Just let me know and I can open the gate to the alternate boat ramp for you.

TY, Carla.



Carla S. Burrmann, M.S.

Manager
• Aquatic Services and Waterways
• Environmentally Sensitive Lands (ESL)
Hernando County
Email: cburmann@hernandocounty.us
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16161 Flight Path Dr.
Brooksville, FL 34604
Website: [Parks and Recreation](#)

From: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>
Sent: Monday, October 13, 2025 8:09 AM
To: Carla Burrmann <cburmann@co.hernando.fl.us>
Cc: Turman, Ken <Ken.Turman@FloridaDEP.gov>
Subject: RE: Hunter's Lake LVI report

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Hi Carla,

Ken Turman in our SW ROC office (Tampa) has scheduled a sampling event for October 28th, and his team will do the LVI, water quality sampling, and field (meter) testing. I'm copying him here if either of you have questions for the other.

Thank you,
Ashley

From: Carla Burrmann <cburrmann@co.hernando.fl.us>

Sent: Friday, October 10, 2025 10:23 AM

To: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>

Subject: RE: Hunter's Lake LVI report

EXTERNAL MESSAGE

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Hi Ashley,

That is the correct lake. We have several residents on the lake complaining about the water levels along with the amount of vegetation. I tagged along with an FWC biologist who was assessing Hunter's Lake this past Wednesday and they did not identify any major concerns with the lake. There are a few areas of exotics (bulrush) which are being treated by SWFMWD on a quarterly basis.

It would be great if DEP could conduct an assessment on the lake particularly since one has not been done in the past. This is our largest lake and there is pressure to reduce the vegetation load along with potential dredging. The lake has a large wetland fringe with lobes of shallow water areas. Unfortunately, this is where a lot of those who are complaining live.

If it would be easier to discuss via a call, please let me know.

TY, Carla.



Carla S. Burrmann, M.S.

Manager

- Aquatic Services and Waterways
- Environmentally Sensitive Lands (ESL)

Hernando County

Email: cburrmann@hernandocounty.us

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16161 Flight Path Dr.

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Website: Parks and Recreation

From: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>

Sent: Friday, October 10, 2025 9:11 AM

To: Carla Burrmann <cburrmann@co.hernando.fl.us>

Subject: RE: Hunter's Lake LVI report

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Carla,

Do I have the correct Hunter's Lake below? If so, it doesn't look like we have any existing LVI data. I have not yet looked for water quality or other data. Do you know the specific nature of the concerns about the lake? That could help us identify what type(s) of sampling may be needed (e.g. water quality, algal bloom, change in plant community such as a proliferation of an invasive). I was a little surprised to see we don't have biological data for the lake, but there could be access or water level reasons.

Thank you,
Ashley



From: Carla Burrmann <cburmann@co.hernando.fl.us>
Sent: Thursday, October 9, 2025 1:31 PM
To: O'Neal, Ashley <Ashley.ONeal@FloridaDEP.gov>
Subject: Hunter's Lake LVI report

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hello Ashley,

We have had inquiries regarding the health of Hunter's Lake in Hernando County recently and I am trying to locate any reports that may provide insight into the health of the lake. Has DEP conducted an LVI on Hunter's Lake? If so, would you please forward the report to me. If not, would it be possible to have an LVI conducted on the lake?

I appreciate your assistance.

TY, Carla.



Carla S. Burrmann, M.S.

Manager

- Aquatic Services and Waterways
 - Environmentally Sensitive Lands (ESL)
- Hernando County

Email: cburrmann@hernandocounty.us
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| | |

| Visit ID | Sample Date | | | WIN/STORET Station | Station Nickname | |
|--------------------------|-----------------------------|-------|----------|--------------------|------------------|------------|
| Qualitative/Quantitative | | | | Macphyte ID | Taxon ID | Taxon Name |
| 1 | Rep 2 | Rep 3 | Rep 4 | | | Rep |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 28728 | Acer rubrum | | | P | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 20770 | Alternanthera philoxeroides | | | | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 35681 | Baccharis | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 33039 | Bacopa caroliniana | | | P | C P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 18403 | Ceratophyllum demersum | | | P | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 39878 | Cladium jamaicense | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 39894 | Cyperus odoratus | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 40029 | Eleocharis baldwinii | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 35978 | Eupatorium capillifolium | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 40130 | Fuirena | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 29512 | Hydrocotyle | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 27992 | Ilex cassine | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 19027 | Liquidambar styraciflua | | | P | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 27349 | Ludwigia leptocarpa | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 10007684 | Ludwigia octovalvis | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 27359 | Ludwigia peruviana | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 18070 | Magnolia virginiana | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 27228 | Melaleuca quinquenervia | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 19261 | Myrica cerifera | | | P | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 18371 | Nuphar | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 18384 | Nymphaea odorata | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 29996 | Nymphoides aquatica | | | | P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |
| 10007692 | Panicum repens | | | P | P P | |
| 91835 | 10/28/2025 | | G5SW0206 | HUNTERSLAK | Qualitative | 13157 |

| | | | | | | |
|----------|----------------------------------|----------|------------|---|-------------|-------|
| 42620 | <i>Pontederia cordata</i> | P | | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 39026 | <i>Potamogeton diversifolius</i> | | | | | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 39035 | <i>Potamogeton illinoensis</i> | D | C | D | D | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 29551 | <i>Ptilimnium capillaceum</i> | P | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 27684 | <i>Rhexia</i> | | | P | | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 40146 | <i>Rhynchospora corniculata</i> | | | | | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 10007725 | <i>Rhynchospora nitens</i> | | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 42506 | <i>Sabal palmetto</i> | P | | P | | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 38923 | <i>Sagittaria lancifolia</i> | P | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 22516 | <i>Salix caroliniana</i> | P | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 28397 | <i>Sapium sebiferum</i> | | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 28812 | <i>Schinus terebinthifolius</i> | | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 10015621 | <i>Sphagneticola trilobata</i> | | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 42324 | <i>Typha</i> | P | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 10015465 | <i>Urochloa mutica</i> | | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 34449 | <i>Utricularia floridana</i> | P | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 34450 | <i>Utricularia foliosa</i> | | | | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 34452 | <i>Utricularia gibba</i> | P | P | P | P | |
| 91835 | 10/28/2025 | G5SW0206 | HUNTERSLAK | | Qualitative | 13157 |
| 39096 | <i>Xyris</i> | | | | P | |

Login Checklist

RQ- 2025-10-27-45

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 10/29/2025 @ 9:15

| *Cooler Temperature (°C) | Samples Frozen? | * All Samples in Cooler Preserved with | | Number of Sample Containers in Cooler | Evidence Tape | | | | Waybill Tracking # | |
|--------------------------|-----------------|--|------|---------------------------------------|---------------|----------|----|----------|--------------------|----|
| | | YES | HNO3 | | Formalin | Present? | | *Intact? | | |
| | | | | | | Yes | No | Yes | | No |
| 3.7 | | | | 9 | | | | | 4306 6742 3322 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 °C (above 10.0 °C for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# _____
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# _____

Chain of Custody/Field Sheet(s) available at time of login? Yes No

CONTAINER CHECK

Evidence Tape on Bottles? Yes _____ No _____ NA Evidence Tape intact? Yes _____ No _____
 If Criminal, photographs taken? Yes _____ No _____ Containers intact? Yes No _____
 Caps on tight? Yes No _____
 Sufficient Sample Volume: Yes No _____

If **NO** is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes No _____ Init: BD

Chlorine detected? (One container checked per Field ID) Yes _____ No Init: BD

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

FILTER CHECK? (Samples filtered in field) Yes _____ No _____ NA Init: BD

If samples are not field-filtered, generate an NCR listing affected sample IDs. NCR # _____

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH < 2.0? Yes No _____ NA _____ Init: BD

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes _____ No _____ NA Init: BD

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

Coolers Unpacked/Checked by: BD Date: 10/29/25 Event contains NCRs(Y/N)? N

EventID: LVI - Hunter's Lake
SW-DIST-2025-10-29-01 (SMP)
 Date Received: 29-OCT-2025 09:15

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

| | |
|--------------------------|------------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #4 EOS:10/16/26 |
| pH Test Strips 0 – 6 | Lot# 234722V Exp: 12/1/25 |
| pH Paper 0 – 3 | |
| pH Paper 0 – 13 | Lot# 227124A Exp: 09/15/27 |
| Chlorine Test Strips | Lot# 3264A Exp: 07/26 |

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes _____ Init: _____

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ No _____

If not, were samples shipped on dry ice? Yes _____ No _____

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 10/28/2025 **Collected By:** Ken Turman, Ben Paswater
Customer: SW-DIST **Sampling Agency:** FDEP
RQ: RQ-2025-10-27-45 **Project ID:** SMP

EDD file path: https://floridadep.sharepoint.com/dear/Sample%20Receiving/2025/2025-10-27-45_SW-DIST_COC_EDD_2025_10_28.txt
 PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
 FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB AT
LAB.RECEIVING@FLORIDADEP.GOV

Number of Coolers Shipped: 1 **Delivery Method:** FedEx

FIELD ID (Labels) submitted under this RQ for this collection date.

| Site Location | Field ID/WIN ID |
|-----------------------|--|
| Hunters Lake - Center |  G5SW0206 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 10/28/2025
1700 EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:



Rec'd/Inspected

Date: 10/29/2025

9:15



| | |
|-------------------------|---|
| RQ-2025-10-27-45 | Collected By: Ken Turman, Ben Paswater |
| Customer: FDEP | Field Report Prepared by: Ken Turman, Ben Paswater |
| Project ID: SMP | Sampling Agency: FDEP |

| | |
|---|------------------|
| WIN ID/Field ID:  | Comments: |
| WIN ID/Field ID: G5SW0206 | |

Location: Hunters Lake - Center

Matrix: Fresh (Check One) Grab Composite

| Date and Time {EST} | DO (mg/L) | DO (%SAT) | Temp. °C | pH | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|-----------------|
| 10/28/2025 1045 | 7.92 | 94.3 | 23.9 | 7.69 | 0.3 | 2.6 | 2.6 | 191.8 | 0.09 |

| Parameter Suite | Parameter Methods | | | | Preservation | pH Check | | # Bottles sent to Lab | Bottle Group | | | | | |
|------------------------------------|-------------------|---|----------------------------------|--|--------------|-------------|-----|-----------------------|--------------|-------|-----|----|---|---|
| Preserved Nutrients (P-500ML) | X | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | | | X | Ice | X | H2SO4* | X | <2 | 1 | A | | |
| | | Lot # | SA5028020 | | Exp: | 02/03/2026 | | | | | | | | |
| Metals (P-500ML) | X | W-ICPMS | X | W-ICP | X | W-HARD | X | Ice | X | HNO3* | X | <2 | 1 | A |
| | | Lot # | NA160319 | | Exp: | 07/01/2026 | | | | | | | | |
| Filtered Nutrients (P125ML) | | W-PO4-F | Field Filtered 0.45 um Filter | | | | Ice | | | | | | | |
| | | Filter Lot # | | Syringe Lot # | | | | | | | | | | |
| BOD (BP-1L) | | OV-80DUNIN | | | | Ice | | | | | | | | |
| Chlorophyll (BP-1L) | X | CHLSUITE-W | | | X | Ice | | | | | 1 | A | | |
| Physical/Aggregate (Fresh) (P-1L) | X | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | | | X | Ice | | | | | 1 | A | | |
| Physical/Aggregate (Marine) (P-1L) | | Alkalinity / W-F / W-TSS / TURBIDITY | | | | Ice | | | | | | | | |
| Macroinvertebrates (PJ-2L) | | MI-FW-QLDC | Formalin Lot # | | | Formalin | | | | | | | | |
| Periphyton (PT-50ML) | | ALGAE-ID | | | | Ice | | | | | | | | |
| Microbiology (Contract Lab Bottle) | | E Coli | | F Coli | | Enterococci | | Ice | | | | | | |
| | | Contract Lab | | | | | | | | | | | | |
| Molecular (QPCR-P-500ML) | | PCR-HF183 | | PCR-BacR | | PCR-DG3 | | PCR-HOF | | Ice | | | | |
| | | PCR-GULL2 | | PCR-GFD | | PCR-COWM2 | | | | | | | | |
| Tracers (BG-500ML) | | W-E8321-DI | | W-E8321-MS | | Ice | | | | | | | | |
| Pesticides (BG-500ML) (BG-1L) | X | W-E8321-DI | X | W-E8321-MS | X | W-PSNP-TQ | | MCAA Exp. | MCAA Lot# | X | Ice | 5 | A | |
| | | W-PCL-TQ-R | | W-CARB-AA (5 ml of MCAA Buffer Solution) | | W-CT-CL-R | | | | | | | | |
| | X | W-TR-SQ-R | | W-PCB-TQ-R | | | | | | | | | | |
| Phytoplankton (BP-1L) | | DTY-QN-C | | PKD-QN-BV | | Ice | | | | | | | | |
| DOC (P-500ML) | | W-DOC | | Field Filtered 0.45 um Filter | | Ice | | H2SO4* | | | | | | |
| | | | Add Preservative Expiration Date | | | | | | | | | | | |
| | | | Add Preservative Lot Number | | | | | | | | | | | |
| PFAS (P-125ML) | | W-PFAS-MS | | | | Ice | | | | | | | | |

Date of Request: 13-OCT-2025
 Created By: TURMAN_K On: 13-OCT-2025
 Modified By: JASROTIA_P On: 14-OCT-2025
 Customer: SW-DIST
 Project: SMP
 Division:
 District: Southwest District
 Event Description: LVI - Hunter's Lake

Send Coolers To:

Phone: 813-632-7600
 FL Dept. of Environmental Protection
 13051 N. Telecom Parkway
 Temple Terrace, FL 33637-0926
 Attn: Ken Turman
 Cooler Ship EMail: ken.turman@floridaDEP.gov

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 13-OCT-2025
 Biology Request Reviewed By: JASROTIA_P On: 14-OCT-2025
 Sampling Kit Required: YES Ship on: 17-OCT-2025
 Sampling Kit Shipped: YES On: 15-OCT-2025
 Sampling Kit Packed By: KING_B
 Preservatives Needed: NO
 Date to Receive Samples: 27-OCT-2025
 Logged In By:

Send Final Report To:

FL Dept. of Environmental Protection
 13051 N. Telecom Parkway
 Temple Terrace, FL 33637-0926
 Attn: Ben Paswater, Devin Mathais
 Report Notification EMail:
 ken.turman@dep.state.fl.us;SWROC@floridadep.gov

Comments:

Bottle Group A (Water) With 1 Samples:

| | | |
|-----------------------|----------------------|--|
| Bottle Type: P-1L | Number of Bottles: 1 | Preserved With: ICE |
| ALKALINITY | Template: DEFAULT | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L |
| TURBIDITY | Template: DEFAULT | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices |
| W-CL-IC | Template: DEFAULT | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices |
| W-COLOR | Template: DEFAULT | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring) |
| Color (true) | | |
| W-F | Template: DEFAULT | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| W-SO4-IC | Template: DEFAULT | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices |
| W-TDS | Template: DEFAULT | (SM 2540 C-2015) Total Dissolved Solids in aqueous matrices |
| W-TSS | Template: DEFAULT | (SM 2540 D-2015) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample |
| Bottle Type: BP-1L | Number of Bottles: 1 | Preserved With: ICE |
| CHLSUITE-W | Template: DEFAULT | (SM 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: BG-500ML | Number of Bottles: 1 | Preserved With: ICE |
| W-E8321-DI | Template: DEFAULT | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS |
| W-E8321-MS | Template: SMP | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3 |
| W-HARD | Template: DEFAULT | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3 |
| Hardness | | |
| W-ICP | Template: SMP-FRESH | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium | | |
| Iron | | |
| Magnesium | | |
| Potassium | | |
| Sodium | | |
| Strontium | | |
| Tin | | |

Bottle Group A (Water) With 1 Samples:

| | | |
|-----------------------|----------------------|--|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3 |
| W-ICP | Template: SMP-FRESH | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Titanium | | |
| Vanadium | | |
| Zinc | | |
| W-ICPMS | Template: DEFAULT | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |
| Aluminum | | |
| Antimony | | |
| Arsenic | | |
| Barium | | |
| Beryllium | | |
| Boron | | |
| Cadmium | | |
| Chromium | | |
| Cobalt | | |
| Copper | | |
| Lead | | |
| Manganese | | |
| Molybdenum | | |
| Nickel | | |
| Selenium | | |
| Silver | | |
| Thallium | | |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4 |
| W-NH3 | Template: DEFAULT | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L |
| W-NO2NO3 | Template: DEFAULT | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L |
| W-S-A-TP | Template: DEFAULT | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L |
| W-TKN | Template: DEFAULT | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices |
| W-TOC | Template: DEFAULT | (SM 5310 B-2014) Nonpurgeable Organic Carbon in aqueous matrices |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE |
| W-PO4-F | Template: DEFAULT | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |
| Bottle Type: BG-500ML | Number of Bottles: 4 | Preserved With: ICE |
| W-PSNP-TQ | Template: DEFAULT | (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS |
| W-TR-SQ-R | Template: DEFAULT | (EPA 8270E) Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM |

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

Biological Analysis Report

SW-DIST-2025-10-29-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **LVI - Hunter's Lake**
Request ID: **RQ-2025-10-27-45**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater, Devin Mathais

For additional information please contact
Cheryl Swanson - Administrator
Carina Tull - Bench Biology & Aquatic Toxicity
Puja Jasrotia, Ph.D. - Molecular Biology & Taxonomy
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8177

Certified by: Puja Jasrotia, Environmental Administrator

Date Certified: 02-DEC-2025 09:46

A handwritten signature in black ink, appearing to be 'Puja Jasrotia', written over a horizontal line.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Chlorophyll/Grain Size/BOD.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Hunters Lake - Center

Collection Date/Time: 10/28/2025 10:45

Field ID: G5SW0206

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|----------------------------|--------|------|-------|----------|----------|
| 2598652 | SM 10150 B | Chlorophyll-a, Corrected | 5.8 | | ug/L | P467289 | |
| | | Phaeophytin-a | 0.63 | U | ug/L | P467289 | |
| | | Chlorophyll-a, Uncorrected | 6.3 | | ug/L | P467289 | |

Ref. Method and Comment:
 SM 10150 B: Precision data is not available for at least one component due to the small amount of analyte in the QC sample. Refer to QA report for available precision data.

Quality Assurance Report Method Blank Results

Reference Method: SM 10150 B
 Batch ID: P467289

| Component | Result | Code | Units |
|----------------------------|--------|------|-------|
| Chlorophyll-a, Corrected | 0.52 | U | ug/L |
| Chlorophyll-a, Uncorrected | 0.31 | U | ug/L |
| Phaeophytin-a | 0.63 | U | ug/L |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 10150 B
 Batch ID: P467289

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------------------|---------|---------|-----------|----------------|
| Chlorophyll-a, Corrected | 94.8 | | P | 75 - 120 |

Quality Assurance Report Precision

Reference Method: SM 10150 B
 Batch ID: P467289

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|----------------------------|-----------|-------------------|-----------|----------------|
| 2598516 | Chlorophyll-a, Uncorrected | 5.76 | Sample | P | 0 - 25 |

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | LCS | Precision SMP | MS |
|-------------|----------------------------|----------------|---------------|-----|---------------|----|
| SM 10150 B | Chlorophyll-a, Corrected | 94.8 | | | | |
| | Chlorophyll-a, Uncorrected | | | | 5.76 | |

Reference Method Descriptions

| Method | Description | Associated Samples |
|--------|-------------|--------------------|
|--------|-------------|--------------------|

Reference Method Descriptions

| Method | Description | <u>Associated Samples</u> |
|---------------|--|----------------------------------|
| SM 10150 B | Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry | 2598652 |

Preparation and Analysis Log

| Ref. Method | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By | Associated Samples |
|--------------------|----------------------|-----------------------|--------------------|---------------------------|--------------------|---------------------------|
| SM 10150 B | 10/29/2025 | 10/29/2025 15:11 | Antonio Pedro | 10/31/2025 10:10 | Peyton A Lunsford | 2598652 |

Chemical Analysis Report

SW-DIST-2025-10-29-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

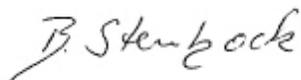
Event Description: **LVI - Hunter's Lake**
Request ID: **RQ-2025-10-27-45**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Attn: Ben Paswater, Devin Mathais

For additional information please contact
Colin Wright, Ph.D.
Chris Bowen, B.S.
Marek Topolski, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 24-NOV-2025 14:20



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

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Precision is reported as relative percent difference unless otherwise noted.

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- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

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- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
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- Z - Colonies were too numerous to count (TNTC).

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Sample Location: Hunters Lake - Center

Collection Date/Time: 10/28/2025 10:45

Field ID: G5SW0206

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes | |
|--------------------|--------------------|--------------------|-------------------|---------|------------|----------|----------|--|
| 2598649 | DEP SOP: NU-094-1 | Color (true) | 38 | A | PCU | P467153 | | |
| | EPA 180.1 Rev. 2.0 | Turbidity | 0.90 | I | NTU | P467157 | | |
| | EPA 300.0 Rev. 2.1 | Chloride | 29 | | mg Cl/L | P467800 | | |
| | | Sulfate | 2.5 | | mg SO4/L | P467804 | | |
| | SM 2320 B-2011 | Total Alkalinity | 42 | | mg CaCO3/L | P467348 | | |
| | SM 2540 C-2015 | TDS | 132 | | mg/L | P467594 | | |
| | SM 2540 D-2015 | TSS | 2 | U | mg/L | P467479 | | |
| | SM 4500-F- C-2011 | Fluoride | 0.057 | I | mg F/L | P467351 | | |
| | 2598650 | EPA 350.1 Rev. 2.0 | Ammonia-N | 0.008 | | mg N/L | P467678 | |
| | | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 0.96 | | mg N/L | P467225 | |
| EPA 353.2 Rev. 2.0 | | NO2NO3-N | 0.003 | U | mg N/L | P467423 | | |
| EPA 365.1 Rev. 2.0 | | Total-P | 0.013 | | mg P/L | P467377 | | |
| SM 5310 B-2014 | | Organic Carbon | 14 | | mg C/L | P467665 | | |
| 2598653 | EPA 8321B | 2,4-D | 0.0020 | U | ug/L | P467158 | | |
| | | Acesulfame K | 0.10 | U | ug/L | P467070 | | |
| | | 2,4,5-T | 0.0040 | U | ug/L | P467158 | | |
| | | AMPA | 0.10 | U | ug/L | P467070 | | |
| | | Acetaminophen | 0.0080 | U | ug/L | P467158 | | |
| | | Endothall | 0.25 | U | ug/L | P467070 | | |
| | | Acetamiprid | 0.0020 | U | ug/L | P467158 | MS, RPD | |
| | | Glufosinate | 0.10 | U | ug/L | P467070 | | |
| | | Glyphosate | 0.10 | U | ug/L | P467070 | | |
| | | Afidopyropen | 0.0020 | U | ug/L | P467158 | MS, RPD | |
| | | Bentazon | 8.0E-04 | U | ug/L | P467158 | | |
| | | Sucralose | 0.12 | | ug/L | P467070 | | |
| | | Benzovindiflupyr | 0.0020 | U | ug/L | P467158 | | |
| | | Carbamazepine | 8.0E-04 | U | ug/L | P467158 | | |
| | | Clothianidin | 0.0020 | U | ug/L | P467158 | | |
| | | Dinotefuran | 0.0020 | U | ug/L | P467158 | | |
| | | Diuron | 0.0020 | U | ug/L | P467158 | | |
| | | Fenuron | 0.032 | U | ug/L | P467158 | | |
| | | Fluridone | 0.0012 | I | ug/L | P467158 | | |
| | | Imazapyr | 0.0053 | I | ug/L | P467158 | | |
| | | Hydrocodone | 0.0040 | U | ug/L | P467158 | | |
| | | Ibuprofen | 0.080 | U | ug/L | P467158 | | |
| | | Imidacloprid | 0.0020 | U | ug/L | P467158 | | |
| | | Linuron | 0.0020 | U | ug/L | P467158 | | |
| | | Mandestrobin | 0.0020 | U | ug/L | P467158 | | |
| | | MCPP | 0.0020 | U | ug/L | P467158 | | |
| | | Naproxen | 0.0080 | U | ug/L | P467158 | | |
| | | Primidone | 0.0040 | U | ug/L | P467158 | | |
| | | Pyraclostrobin | 0.0020 | U | ug/L | P467158 | | |
| | | Silvex | 0.0040 | U | ug/L | P467158 | | |
| Thiamethoxam | 0.0020 | U | ug/L | P467158 | | | | |

Field ID: G5SW0206

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|--------------------------|--------|------|-------|----------|----------|
| 2598653 | EPA 8321B | Tolfenpyrad | 0.0020 | U | ug/L | P467158 | |
| | | Triclopyr | 0.0040 | U | ug/L | P467158 | |
| 2598654 | EPA 200.7 Rev. 4.4 | Calcium | 20.3 | | mg/L | P467174 | |
| | | Iron | 30 | U | ug/L | P467174 | |
| | | Magnesium | 1.93 | | mg/L | P467174 | |
| | | Potassium | 0.36 | I | mg/L | P467174 | |
| | | Sodium | 16.0 | | mg/L | P467174 | |
| | | Strontium | 55.8 | | ug/L | P467174 | |
| | | Tin | 3.0 | U | ug/L | P467174 | |
| | | Titanium | 0.75 | U | ug/L | P467174 | |
| | | Vanadium | 2.0 | U | ug/L | P467174 | |
| | | Zinc | 5.0 | U | ug/L | P467174 | |
| | EPA 200.8 Rev. 5.4 | Aluminum | 12 | I | ug/L | P467174 | |
| | | Antimony | 0.050 | U | ug/L | P467174 | |
| | | Arsenic | 1.48 | | ug/L | P467174 | |
| | | Barium | 5.03 | | ug/L | P467174 | |
| | | Beryllium | 0.010 | U | ug/L | P467174 | |
| | | Boron | 38.5 | | ug/L | P467174 | |
| | | Cadmium | 0.020 | U | ug/L | P467174 | |
| | | Chromium | 0.40 | U | ug/L | P467174 | |
| | | Cobalt | 0.020 | U | ug/L | P467174 | |
| | | Copper | 0.40 | U | ug/L | P467174 | |
| | | Lead | 0.20 | U | ug/L | P467174 | |
| | | Manganese | 6.25 | | ug/L | P467174 | |
| | | Molybdenum | 0.80 | | ug/L | P467174 | |
| | | Nickel | 0.50 | U | ug/L | P467174 | |
| | | Selenium | 0.20 | U | ug/L | P467174 | |
| | | Silver | 0.010 | U | ug/L | P467174 | |
| | | Thallium | 0.10 | U | ug/L | P467174 | |
| | SM 2340 B-2011 | Hardness | 58.6 | | mg/L | P467174 | |
| 2598655 | EPA 8270E | Oxybenzone** | 11 | U | ng/L | P467088 | |
| | | Acetochlor | 0.21 | U | ng/L | P467088 | |
| | | Octinoxate** | 160 | U | ng/L | P467088 | |
| | | Alachlor | 0.43 | U | ng/L | P467088 | |
| | | Avobenzone** | 110 | U | ng/L | P467088 | |
| | | Ametryn | 2.7 | U | ng/L | P467088 | |
| | | Atrazine | 0.21 | U | ng/L | P467088 | |
| | | PBDE-47** | 4.3 | U | ng/L | P467088 | |
| | | Atrazine Desethyl | 1.4 | U | ng/L | P467088 | |
| | | PBDE-99** | 5.3 | U | ng/L | P467088 | |
| | | Azinphos Methyl | 3.2 | U | ng/L | P467088 | |
| | | Tri-o-cresyl Phosphate** | 6.4 | U | ng/L | P467088 | |
| | | Azoxystrobin | 0.43 | U | ng/L | P467088 | |
| | | Bromacil | 0.64 | U | ng/L | P467088 | |

Field ID: G5SW0206

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|--|--------|------|-------|----------|----------|
| 2598655 | EPA 8270E | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)** | 13 | U | ng/L | P467088 | |
| | | Butylate | 0.48 | U | ng/L | P467088 | |
| | | Dechlorane Plus** | 32 | U | ng/L | P467088 | |
| | | Caffeine** | 8.0 | U | ng/L | P467088 | |
| | | Dechlorane 602** | 5.3 | U | ng/L | P467088 | |
| | | Carbophenothion | 0.53 | U | ng/L | P467088 | |
| | | Dechlorane 603** | 4.3 | U | ng/L | P467088 | |
| | | Carfentrazone Ethyl | 0.16 | U | ng/L | P467088 | |
| | | Hexabromobenzene** | 6.4 | U | ng/L | P467088 | |
| | | Chlorfenapyr | 0.32 | U | ng/L | P467088 | |
| | | PBB-153** | 6.4 | U | ng/L | P467088 | |
| | | Chlorpyrifos Ethyl | 0.32 | U | ng/L | P467088 | |
| | | Pentabromotoluene** | 3.2 | U | ng/L | P467088 | |
| | | Chlorpyrifos Methyl | 0.11 | U | ng/L | P467088 | |
| | | Tris(2-chloroethyl) phosphate (TCEP)** | 59 | U | ng/L | P467088 | |
| | | Coumaphos | 1.1 | U | ng/L | P467088 | |
| | | Tris(1-chloro-2-propyl) phosphate (TCPP)** | 110 | U | ng/L | P467088 | |
| | | Cyanazine | 5.3 | U | ng/L | P467088 | |
| | | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)** | 5.3 | U | ng/L | P467088 | |
| | | Cyprodinil | 0.21 | U | ng/L | P467088 | |
| | | Tetradecachloro-m-terphenyl** | 8.0 | U | ng/L | P467088 | |
| | | Demeton | 3.7 | U | ng/L | P467088 | |
| | | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)** | 64 | U | ng/L | P467088 | |
| | | Diazinon | 0.13 | U | ng/L | P467088 | |
| | | Difenoconazole | 0.64 | U | ng/L | P467088 | |
| | | Dimethenamid | 0.11 | U | ng/L | P467088 | |
| | | Dimethomorph | 3.2 | U | ng/L | P467088 | |
| | | Disulfoton | 0.64 | U | ng/L | P467088 | |
| | | Dithiopyr | 2.1 | U | ng/L | P467088 | |
| | | EPTC | 0.53 | U | ng/L | P467088 | |
| | | Ethion | 0.32 | UJ | ng/L | P467088 | LCS |
| | | Ethoprop | 0.13 | U | ng/L | P467088 | |
| | | Etridiazole | 0.11 | U | ng/L | P467088 | |
| | | Fenamiphos | 0.48 | U | ng/L | P467088 | |
| | | Fenbuconazole | 0.53 | U | ng/L | P467088 | |
| | | Fipronil | 0.21 | U | ng/L | P467088 | |
| | | Fipronil Desulfinyl** | 0.11 | U | ng/L | P467088 | |
| | | Fipronil Sulfide | 0.11 | U | ng/L | P467088 | |
| | | Fipronil Sulfone | 0.27 | U | ng/L | P467088 | |
| | | Fluazifop-P-butyl | 0.11 | U | ng/L | P467088 | |
| | | Fludioxonil | 0.11 | U | ng/L | P467088 | |
| | | Flumioxazin | 3.2 | U | ng/L | P467088 | |
| | | Flutolanil | 0.11 | U | ng/L | P467088 | |

Field ID: G5SW0206

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|--------|------|-------|----------|----------|
| 2598655 | EPA 8270E | Fluxapyroxad | 0.27 | U | ng/L | P467088 | |
| | | Fonofos | 0.16 | U | ng/L | P467088 | |
| | | Hexazinone | 0.53 | U | ng/L | P467088 | |
| | | Imazalil | 0.69 | U | ng/L | P467088 | |
| | | Iprodione | 0.53 | U | ng/L | P467088 | |
| | | Loratadine** | 0.32 | U | ng/L | P467088 | |
| | | Malathion | 0.37 | U | ng/L | P467088 | |
| | | Metalaxyl | 0.53 | U | ng/L | P467088 | |
| | | Metolachlor | 0.80 | U | ng/L | P467088 | |
| | | Metribuzin | 0.43 | U | ng/L | P467088 | |
| | | Mevinphos | 1.1 | U | ng/L | P467088 | |
| | | Molinate | 0.27 | U | ng/L | P467088 | |
| | | Myclobutanil | 0.37 | UJ | ng/L | P467088 | LCS |
| | | Naled | 2.7 | U | ng/L | P467088 | |
| | | Napropamide | 0.74 | UJ | ng/L | P467088 | LCS |
| | | Norflurazon | 1.1 | U | ng/L | P467088 | |
| | | Oxadiazon | 0.37 | U | ng/L | P467088 | |
| | | Oxyfluorfen | 0.21 | U | ng/L | P467088 | |
| | | Parathion Ethyl | 0.16 | U | ng/L | P467088 | |
| | | Parathion Methyl | 0.21 | U | ng/L | P467088 | |
| | | Pendimethalin | 1.8 | U | ng/L | P467088 | |
| | | Phenytoin** | 13 | U | ng/L | P467088 | |
| | | Phorate | 0.27 | U | ng/L | P467088 | |
| | | Prodiamine | 0.53 | U | ng/L | P467088 | |
| | | Prometon | 3.2 | U | ng/L | P467088 | |
| | | Prometryn | 0.37 | U | ng/L | P467088 | |
| | | Pronamide | 0.11 | U | ng/L | P467088 | |
| | | Propanil | 0.11 | U | ng/L | P467088 | |
| | | Propargite | 0.85 | U | ng/L | P467088 | |
| | | Propiconazole | 0.64 | U | ng/L | P467088 | |
| | | Pyraflufen Ethyl | 0.32 | U | ng/L | P467088 | |
| | | Pyridaben | 1.5 | U | ng/L | P467088 | |
| | | Pyriproxyfen | 0.27 | U | ng/L | P467088 | |
| | | Simazine | 0.27 | U | ng/L | P467088 | |
| | | Stirophos | 0.43 | U | ng/L | P467088 | |
| | | Sulfentrazone | 1.5 | UJ | ng/L | P467088 | CCV |
| | | Tebuconazole | 1.5 | U | ng/L | P467088 | |
| | | Terbufos | 0.21 | U | ng/L | P467088 | |
| | | Terbuthylazine | 0.21 | U | ng/L | P467088 | |
| | | Thiobencarb | 0.53 | U | ng/L | P467088 | |
| | | Triadimefon | 0.16 | U | ng/L | P467088 | |

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P467153

| Component | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.0 | U | PCU |

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P467157

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Turbidity | 0.10 | U | NTU |

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P467174

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| Calcium | 0.075 | U | mg/L |
| Iron | 30 | U | ug/L |
| Magnesium | 0.040 | U | mg/L |
| Potassium | 0.30 | U | mg/L |
| Sodium | 0.50 | U | mg/L |
| Strontium | 2.0 | U | ug/L |
| Tin | 3.0 | U | ug/L |
| Titanium | 0.75 | U | ug/L |
| Vanadium | 2.0 | U | ug/L |
| Zinc | 5.0 | U | ug/L |

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P467174

| Component | Result | Code | Units |
|------------|--------|------|-------|
| Aluminum | 5.0 | U | ug/L |
| Antimony | 0.050 | U | ug/L |
| Arsenic | 0.050 | U | ug/L |
| Barium | 0.20 | U | ug/L |
| Beryllium | 0.010 | U | ug/L |
| Boron | 2.0 | U | ug/L |
| Cadmium | 0.020 | U | ug/L |
| Chromium | 0.40 | U | ug/L |
| Cobalt | 0.020 | U | ug/L |
| Copper | 0.44 | I | ug/L |
| Lead | 0.20 | U | ug/L |
| Manganese | 0.10 | U | ug/L |
| Molybdenum | 0.15 | U | ug/L |
| Nickel | 0.50 | U | ug/L |
| Selenium | 0.20 | U | ug/L |
| Silver | 0.010 | U | ug/L |
| Thallium | 0.10 | U | ug/L |

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467800

| Component | Result | Code | Units |
|-----------|--------|------|---------|
| Chloride | 0.20 | U | mg Cl/L |

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467804

| Component | Result | Code | Units |
|-----------|--------|------|----------|
| Sulfate | 0.20 | U | mg SO4/L |

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P467678

| Component | Result | Code | Units |
|-----------|--------|------|--------|
| Ammonia-N | 0.002 | U | mg N/L |

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P467225

| Component | Result | Code | Units |
|-------------------|--------|------|--------|
| Kjeldahl Nitrogen | 0.080 | U | mg N/L |

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P467423

| Component | Result | Code | Units |
|-----------|--------|------|--------|
| NO2NO3-N | 0.003 | U | mg N/L |

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P467377

| Component | Result | Code | Units |
|-----------|--------|------|--------|
| Total-P | 0.002 | U | mg P/L |

Reference Method: EPA 8270E
Batch ID: P467088

| Component | Result | Code | Units |
|--|--------|------|-------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 60 | U | ng/L |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 12 | U | ng/L |
| Acetochlor | 0.20 | U | ng/L |
| Alachlor | 0.40 | U | ng/L |
| Ametryn | 2.5 | U | ng/L |
| Atrazine | 0.20 | U | ng/L |
| Atrazine Desethyl | 1.3 | U | ng/L |
| Avobenzone | 100 | U | ng/L |
| Azinphos Methyl | 3.0 | U | ng/L |
| Azoxystrobin | 0.40 | U | ng/L |
| Bromacil | 0.60 | U | ng/L |
| Butylate | 0.45 | U | ng/L |
| Caffeine | 7.5 | U | ng/L |
| Carbophenothion | 0.50 | U | ng/L |
| Carfentrazone Ethyl | 0.15 | U | ng/L |
| Chlorfenapyr | 0.30 | U | ng/L |
| Chlorpyrifos Ethyl | 0.30 | U | ng/L |
| Chlorpyrifos Methyl | 0.10 | U | ng/L |
| Coumaphos | 1.0 | U | ng/L |
| Cyanazine | 5.0 | U | ng/L |
| Cyprodinil | 0.20 | U | ng/L |
| Dechlorane 602 | 5.0 | U | ng/L |

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P467088

| Component | Result | Code | Units |
|---------------------|--------|------|-------|
| Dechlorane 603 | 4.0 | U | ng/L |
| Dechlorane Plus | 30 | U | ng/L |
| Demeton | 3.5 | U | ng/L |
| Diazinon | 0.12 | U | ng/L |
| Difenoconazole | 0.60 | U | ng/L |
| Dimethenamid | 0.10 | U | ng/L |
| Dimethomorph | 3.0 | U | ng/L |
| Disulfoton | 0.60 | U | ng/L |
| Dithiopyr | 2.0 | U | ng/L |
| EPTC | 0.50 | U | ng/L |
| Ethion | 0.30 | U | ng/L |
| Ethoprop | 0.12 | U | ng/L |
| Etridiazole | 0.10 | U | ng/L |
| Fenamiphos | 0.45 | U | ng/L |
| Fenbuconazole | 0.50 | U | ng/L |
| Fipronil | 0.20 | U | ng/L |
| Fipronil Desulfinyl | 0.10 | U | ng/L |
| Fipronil Sulfide | 0.10 | U | ng/L |
| Fipronil Sulfone | 0.25 | U | ng/L |
| Fluazifop-P-butyl | 0.10 | U | ng/L |
| Fludioxonil | 0.10 | U | ng/L |
| Flumioxazin | 3.0 | U | ng/L |
| Flutolanil | 0.10 | U | ng/L |
| Fluxapyroxad | 0.25 | U | ng/L |
| Fonofos | 0.15 | U | ng/L |
| Hexabromobenzene | 6.0 | U | ng/L |
| Hexazinone | 0.50 | U | ng/L |
| Imazalil | 0.65 | U | ng/L |
| Iprodione | 0.50 | U | ng/L |
| Loratadine | 0.30 | U | ng/L |
| Malathion | 0.35 | U | ng/L |
| Metaxyl | 0.50 | U | ng/L |
| Metolachlor | 0.75 | U | ng/L |
| Metribuzin | 0.40 | U | ng/L |
| Mevinphos | 1.0 | U | ng/L |
| Molinate | 0.25 | U | ng/L |
| Myclobutanil | 0.35 | U | ng/L |
| Naled | 2.5 | U | ng/L |
| Napropamide | 0.70 | U | ng/L |
| Norflurazon | 1.0 | U | ng/L |
| Octinoxate | 150 | U | ng/L |
| Oxadiazon | 0.35 | U | ng/L |
| Oxybenzone | 10 | U | ng/L |
| Oxyfluorfen | 0.20 | U | ng/L |
| Parathion Ethyl | 0.15 | U | ng/L |
| Parathion Methyl | 0.20 | U | ng/L |
| PBB-153 | 6.0 | U | ng/L |
| PBDE-47 | 4.0 | U | ng/L |
| PBDE-99 | 5.0 | U | ng/L |
| Pendimethalin | 1.7 | U | ng/L |
| Pentabromotoluene | 3.0 | U | ng/L |
| Phenytoin | 12 | U | ng/L |

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P467088

| Component | Result | Code | Units |
|---|--------|------|-------|
| Phorate | 0.25 | U | ng/L |
| Prodiamine | 0.50 | U | ng/L |
| Prometon | 3.0 | U | ng/L |
| Prometryn | 0.35 | U | ng/L |
| Pronamide | 0.10 | U | ng/L |
| Propanil | 0.10 | U | ng/L |
| Propargite | 0.80 | U | ng/L |
| Propiconazole | 0.60 | U | ng/L |
| Pyraflufen Ethyl | 0.30 | U | ng/L |
| Pyridaben | 1.4 | U | ng/L |
| Pyriproxyfen | 0.25 | U | ng/L |
| Simazine | 0.25 | U | ng/L |
| Stiropfos | 0.40 | U | ng/L |
| Sulfentrazone | 1.4 | U | ng/L |
| Tebuconazole | 1.4 | U | ng/L |
| Terbufos | 0.20 | U | ng/L |
| Terbutylazine | 0.20 | U | ng/L |
| Tetradecachloro-m-terphenyl | 7.5 | U | ng/L |
| Thiobencarb | 0.50 | U | ng/L |
| Tri-o-cresyl Phosphate | 6.0 | U | ng/L |
| Triadimefon | 0.15 | U | ng/L |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 100 | U | ng/L |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 5.0 | U | ng/L |
| Tris(2-chloroethyl) phosphate (TCEP) | 55 | U | ng/L |

Reference Method: EPA 8321B
Batch ID: P467070

| Component | Result | Code | Units |
|--------------|--------|------|-------|
| Acesulfame K | 0.10 | U | ug/L |
| AMPA | 0.10 | U | ug/L |
| Endothall | 0.25 | U | ug/L |
| Glufosinate | 0.10 | U | ug/L |
| Glyphosate | 0.10 | U | ug/L |
| Sucralose | 0.010 | U | ug/L |

Reference Method: EPA 8321B
Batch ID: P467158

| Component | Result | Code | Units |
|------------------|---------|------|-------|
| 2,4-D | 0.0020 | U | ug/L |
| 2,4,5-T | 0.0040 | U | ug/L |
| Acetaminophen | 0.0080 | U | ug/L |
| Acetamiprid | 0.0020 | U | ug/L |
| Afidopyropen | 0.0020 | U | ug/L |
| Bentazon | 8.0E-04 | U | ug/L |
| Benzovindiflupyr | 0.0020 | U | ug/L |
| Carbamazepine | 8.0E-04 | U | ug/L |
| Clothianidin | 0.0020 | U | ug/L |
| Dinotefuran | 0.0020 | U | ug/L |
| Diuron | 0.0020 | U | ug/L |
| Fenuron | 0.032 | U | ug/L |

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P467158

| Component | Result | Code | Units |
|----------------|---------|------|-------|
| Fluridone | 8.0E-04 | U | ug/L |
| Hydrocodone | 0.0040 | U | ug/L |
| Ibuprofen | 0.080 | U | ug/L |
| Imazapyr | 0.0040 | U | ug/L |
| Imidacloprid | 0.0020 | U | ug/L |
| Linuron | 0.0020 | U | ug/L |
| Mandestrobin | 0.0020 | U | ug/L |
| MCPP | 0.0020 | U | ug/L |
| Naproxen | 0.0080 | U | ug/L |
| Primidone | 0.0040 | U | ug/L |
| Pyraclostrobin | 0.0020 | U | ug/L |
| Silvex | 0.0040 | U | ug/L |
| Thiamethoxam | 0.0020 | U | ug/L |
| Tolfenpyrad | 0.0020 | U | ug/L |
| Triclopyr | 0.0040 | U | ug/L |

Reference Method: SM 2320 B-2011
Batch ID: P467348

| Component | Result | Code | Units |
|------------------|--------|------|------------|
| Total Alkalinity | 0.65 | U | mg CaCO3/L |

Reference Method: SM 2540 C-2015
Batch ID: P467594

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TDS | 15 | U | mg/L |

Reference Method: SM 2540 D-2015
Batch ID: P467479

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS | 2 | U | mg/L |

Reference Method: SM 4500-F- C-2011
Batch ID: P467351

| Component | Result | Code | Units |
|-----------|--------|------|--------|
| Fluoride | 0.025 | U | mg F/L |

Reference Method: SM 5310 B-2014
Batch ID: P467665

| Component | Result | Code | Units |
|----------------|--------|------|--------|
| Organic Carbon | 0.50 | U | mg C/L |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P467153

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Color (true) | 100 | | P | 90 - 110 |

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P467157

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Turbidity | 98.9 | | P | 90 - 110 |

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P467174

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Calcium | 103 | | P | 85 - 115 |
| Iron | 104 | | P | 85 - 115 |
| Magnesium | 108 | | P | 85 - 115 |
| Potassium | 98.0 | | P | 85 - 115 |
| Sodium | 101 | | P | 85 - 115 |
| Strontium | 98.2 | | P | 85 - 115 |
| Tin | 101 | | P | 85 - 115 |
| Titanium | 100 | | P | 85 - 115 |
| Vanadium | 99.1 | | P | 85 - 115 |
| Zinc | 102 | | P | 85 - 115 |

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P467174

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------|---------|---------|-----------|----------------|
| Aluminum | 100 | | P | 85 - 115 |
| Antimony | 97.6 | | P | 85 - 115 |
| Arsenic | 97.5 | | P | 85 - 115 |
| Barium | 101 | | P | 85 - 115 |
| Beryllium | 99.1 | | P | 85 - 115 |
| Boron | 103 | | P | 85 - 115 |
| Cadmium | 97.2 | | P | 85 - 115 |
| Chromium | 97.0 | | P | 85 - 115 |
| Cobalt | 95.0 | | P | 85 - 115 |
| Copper | 94.7 | | P | 85 - 115 |
| Lead | 91.7 | | P | 85 - 115 |
| Manganese | 94.8 | | P | 85 - 115 |
| Molybdenum | 99.3 | | P | 85 - 115 |
| Nickel | 96.3 | | P | 85 - 115 |
| Selenium | 98.3 | | P | 85 - 115 |
| Silver | 98.2 | | P | 85 - 115 |
| Thallium | 96.0 | | P | 85 - 115 |

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467800

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chloride | 99.3 | | P | 90 - 110 |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467804

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Sulfate | 102 | | P | 90 - 110 |

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P467678

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 96.8 | | P | 90 - 110 |

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P467225

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 103 | | P | 90 - 110 |

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P467423

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N | 97.3 | | P | 90 - 110 |

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P467377

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P | 107 | | P | 90 - 110 |

Reference Method: EPA 8270E
Batch ID: P467088

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--|---------|---------|-----------|----------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 56.7 | | P | 36 - 131 |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 96.8 | | P | 17 - 184 |
| Acetochlor | 83.9 | | P | 55 - 119 |
| Alachlor | 61.5 | | P | 51 - 117 |
| Ametryn | 105 | | P | 55 - 146 |
| Atrazine | 74.3 | | P | 61 - 113 |
| Atrazine Desethyl | 81.3 | | P | 39 - 129 |
| Avobenzene | 99.5 | | P | 51 - 223 |
| Azinphos Methyl | 110 | | P | 15 - 224 |
| Azoxystrobin | 91.5 | | P | 48 - 143 |
| Bromacil | 83.9 | | P | 53 - 121 |
| Butylate | 68.2 | | P | 27 - 83.0 |
| Caffeine | 70.5 | | P | 54 - 157 |
| Carbophenothion | 74.4 | | P | 34 - 148 |
| Carfentrazone Ethyl | 77.5 | | P | 51 - 144 |
| Chlorfenapyr | 69.2 | | P | 49 - 123 |
| Chlorpyrifos Ethyl | 69.3 | | P | 52 - 127 |
| Chlorpyrifos Methyl | 85.8 | | P | 55 - 134 |
| Coumaphos | 54.8 | | P | 10 - 202 |
| Cyanazine | 121 | | P | 39 - 221 |
| Cyprodinil | 65.0 | | P | 52 - 143 |
| Dechlorane 602 | 30.4 | | P | 27 - 137 |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P467088

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Dechlorane 603 | 85.2 | | P | 45 - 160 |
| Dechlorane Plus | 93.8 | | P | 41 - 160 |
| Demeton | 73.4 | | P | 30 - 114 |
| Diazinon | 91.8 | | P | 59 - 131 |
| Difenoconazole | 53.9 | | P | 10 - 199 |
| Dimethenamid | 60.6 | | P | 55 - 118 |
| Dimethomorph | 202 | | P | 10 - 250 |
| Disulfoton | 78.9 | | P | 42 - 134 |
| Dithiopyr | 80.0 | | P | 54 - 121 |
| EPTC | 55.6 | | P | 27 - 79.0 |
| Ethion | 20.3 | | F | 24 - 120 |
| Ethoprop | 98.0 | | P | 56 - 114 |
| Etridiazole | 67.7 | | P | 30 - 97.0 |
| Fenamiphos | 57.8 | | P | 39 - 138 |
| Fenbuconazole | 45.4 | | P | 22 - 137 |
| Fipronil | 68.6 | | P | 46 - 128 |
| Fipronil Desulfinyl | 74.8 | | P | 46 - 123 |
| Fipronil Sulfide | 70.2 | | P | 45 - 124 |
| Fipronil Sulfone | 75.5 | | P | 50 - 122 |
| Fluazifop-P-butyl | 78.6 | | P | 46 - 135 |
| Fludioxonil | 77.6 | | P | 55 - 117 |
| Flumioxazin | 74.8 | | P | 10 - 223 |
| Flutolanil | 54.8 | | P | 42 - 135 |
| Fluxapyroxad | 39.3 | | P | 22 - 152 |
| Fonofos | 90.8 | | P | 47 - 123 |
| Hexabromobenzene | 126 | | P | 38 - 152 |
| Hexazinone | 68.5 | | P | 65 - 116 |
| Imazalil | 73.7 | | P | 21 - 141 |
| Iprodione | 58.9 | | P | 22 - 166 |
| Loratadine | 118 | | P | 10 - 250 |
| Malathion | 75.5 | | P | 53 - 145 |
| Metalaxyl | 73.5 | | P | 52 - 112 |
| Metolachlor | 63.6 | | P | 61 - 121 |
| Metribuzin | 108 | | P | 47 - 129 |
| Mevinphos | 98.4 | | P | 47 - 126 |
| Molinate | 50.6 | | P | 34 - 85.0 |
| Myclobutanil | 35.7 | | F | 48 - 123 |
| Naled | 16.6 | | P | 12 - 85.0 |
| Napropamide | 21.6 | | F | 38 - 125 |
| Norflurazon | 45.5 | | P | 43 - 125 |
| Octinoxate | 130 | | P | 48 - 161 |
| Oxadiazon | 65.2 | | P | 53 - 106 |
| Oxybenzone | 128 | | P | 52 - 158 |
| Oxyfluorfen | 78.1 | | P | 54 - 160 |
| Parathion Ethyl | 82.3 | | P | 59 - 118 |
| Parathion Methyl | 84.4 | | P | 44 - 165 |
| PBB-153 | 98.7 | | P | 10 - 249 |
| PBDE-47 | 69.8 | | P | 43 - 152 |
| PBDE-99 | 49.0 | | P | 12 - 175 |
| Pendimethalin | 67.0 | | P | 39 - 178 |
| Pentabromotoluene | 117 | | P | 50 - 136 |
| Phenytoin | 21.5 | | P | 10 - 109 |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P467088

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---------|---------|-----------|----------------|
| Phorate | 88.2 | | P | 30 - 131 |
| Prodiamine | 49.5 | | P | 10 - 173 |
| Prometon | 68.6 | | P | 51 - 136 |
| Prometryn | 89.7 | | P | 53 - 149 |
| Pronamide | 80.9 | | P | 59 - 129 |
| Propanil | 106 | | P | 43 - 156 |
| Propargite | 46.7 | | P | 22 - 130 |
| Propiconazole | 57.6 | | P | 38 - 122 |
| Pyraflufen Ethyl | 72.5 | | P | 38 - 140 |
| Pyridaben | 49.8 | | P | 20 - 174 |
| Pyriproxyfen | 45.0 | | P | 24 - 161 |
| Simazine | 70.4 | | P | 57 - 119 |
| Stirophos | 32.4 | | P | 22 - 142 |
| Sulfentrazone | 66.1 | | P | 10 - 139 |
| Tebuconazole | 20.3 | | P | 11 - 125 |
| Terbufos | 95.1 | | P | 45 - 128 |
| Terbutylazine | 62.0 | | P | 57 - 111 |
| Tetradecachloro-m-terphenyl | 189 | | P | 10 - 230 |
| Thiobencarb | 70.3 | | P | 55 - 124 |
| Tri-o-cresyl Phosphate | 117 | | P | 66 - 163 |
| Triadimefon | 65.2 | | P | 52 - 119 |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 133 | | P | 56 - 174 |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 118 | | P | 57 - 171 |
| Tris(2-chloroethyl) phosphate (TCEP) | 136 | | P | 59 - 200 |

Reference Method: EPA 8321B
Batch ID: P467070

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 101 | | P | 60 - 130 |
| AMPA | 101 | | P | 60 - 130 |
| Endothall | 98.4 | | P | 60 - 130 |
| Glufosinate | 99.6 | | P | 60 - 130 |
| Glyphosate | 98.5 | | P | 60 - 130 |
| Sucralose | 98.5 | | P | 60 - 130 |

Reference Method: EPA 8321B
Batch ID: P467158

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| 2,4-D | 159 | | P | 30 - 160 |
| 2,4,5-T | 139 | | P | 30 - 160 |
| Acetaminophen | 94.6 | | P | 30 - 160 |
| Acetamiprid | 92.9 | | P | 30 - 160 |
| Afidopyropen | 81.9 | | P | 30 - 160 |
| Bentazon | 105 | | P | 30 - 160 |
| Benzovindiflupyr | 77.7 | | P | 30 - 160 |
| Carbamazepine | 88.5 | | P | 30 - 160 |
| Clothianidin | 94.5 | | P | 30 - 160 |
| Dinotefuran | 94.2 | | P | 30 - 160 |
| Diuron | 72.8 | | P | 30 - 160 |
| Fenuron | 94.9 | | P | 30 - 160 |

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P467158

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Fluridone | 86.3 | | P | 30 - 160 |
| Hydrocodone | 93.7 | | P | 30 - 160 |
| Ibuprofen | 100 | | P | 30 - 160 |
| Imazapyr | 110 | | P | 30 - 160 |
| Imidacloprid | 98.3 | | P | 30 - 160 |
| Linuron | 59.2 | | P | 30 - 160 |
| Mandestrobin | 83.2 | | P | 30 - 160 |
| MCPP | 148 | | P | 30 - 160 |
| Naproxen | 96.1 | | P | 30 - 160 |
| Primidone | 89.8 | | P | 30 - 160 |
| Pyraclostrobin | 73.8 | | P | 30 - 160 |
| Silvex | 103 | | P | 30 - 160 |
| Thiamethoxam | 94.3 | | P | 30 - 160 |
| Tolfenpyrad | 50.7 | | P | 30 - 160 |
| Triclopyr | 132 | | P | 30 - 160 |

Reference Method: SM 2320 B-2011
Batch ID: P467348

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 97.7 | | P | 93 - 102 |

Reference Method: SM 2540 C-2015
Batch ID: P467594

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| TDS | 93.2 | | P | 85 - 115 |

Reference Method: SM 2540 D-2015
Batch ID: P467479

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| TSS | 105 | | P | 85 - 115 |

Reference Method: SM 4500-F- C-2011
Batch ID: P467351

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride | 97.8 | | P | 93 - 104 |

Reference Method: SM 5310 B-2014
Batch ID: P467665

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 98.8 | | P | 85 - 115 |

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P467174

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598514 | Calcium | 104 | | P | 80 - 120 |
| 2598514 | Iron | 104 | | P | 80 - 120 |
| 2598514 | Magnesium | 104 | | P | 80 - 120 |
| 2598514 | Potassium | 97.0 | | P | 80 - 120 |
| 2598514 | Sodium | 96.4 | | P | 80 - 120 |
| 2598514 | Strontium | 97.3 | | P | 80 - 120 |
| 2598514 | Tin | 98.4 | | P | 80 - 120 |
| 2598514 | Titanium | 102 | | P | 80 - 120 |
| 2598514 | Vanadium | 98.9 | | P | 80 - 120 |
| 2598514 | Zinc | 106 | | P | 80 - 120 |
| 2598654 | Calcium | 100 | | P | 80 - 120 |
| 2598654 | Iron | 103 | 101 | P/P | 80 - 120 |
| 2598654 | Magnesium | 103 | 103 | P/P | 80 - 120 |
| 2598654 | Potassium | 98.8 | 94.9 | P/P | 80 - 120 |
| 2598654 | Sodium | 98.3 | | P | 80 - 120 |
| 2598654 | Strontium | 96.7 | 93.1 | P/P | 80 - 120 |
| 2598654 | Tin | 96.7 | 98.7 | P/P | 80 - 120 |
| 2598654 | Titanium | 101 | 99.3 | P/P | 80 - 120 |
| 2598654 | Vanadium | 98.7 | 98.7 | P/P | 80 - 120 |
| 2598654 | Zinc | 102 | 102 | P/P | 80 - 120 |

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P467174

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2598514 | Aluminum | 99.6 | | P | 80 - 120 |
| 2598514 | Antimony | 97.6 | | P | 80 - 120 |
| 2598514 | Arsenic | 99.5 | | P | 80 - 120 |
| 2598514 | Barium | 99.5 | | P | 80 - 120 |
| 2598514 | Beryllium | 101 | | P | 80 - 120 |
| 2598514 | Boron | 103 | | P | 80 - 120 |
| 2598514 | Cadmium | 97.7 | | P | 80 - 120 |
| 2598514 | Chromium | 98.4 | | P | 80 - 120 |
| 2598514 | Cobalt | 95.2 | | P | 80 - 120 |
| 2598514 | Copper | 95.9 | | P | 80 - 120 |
| 2598514 | Lead | 92.2 | | P | 80 - 120 |
| 2598514 | Manganese | 93.8 | | P | 80 - 120 |
| 2598514 | Molybdenum | 99.9 | | P | 80 - 120 |
| 2598514 | Nickel | 96.5 | | P | 80 - 120 |
| 2598514 | Selenium | 99.8 | | P | 80 - 120 |
| 2598514 | Silver | 96.4 | | P | 80 - 120 |
| 2598514 | Thallium | 99.9 | | P | 80 - 120 |
| 2598654 | Aluminum | 101 | 101 | P/P | 80 - 120 |
| 2598654 | Antimony | 100 | 100 | P/P | 80 - 120 |
| 2598654 | Arsenic | 100 | 101 | P/P | 80 - 120 |
| 2598654 | Barium | 102 | 103 | P/P | 80 - 120 |
| 2598654 | Beryllium | 102 | 96.6 | P/P | 80 - 120 |
| 2598654 | Boron | 103 | 104 | P/P | 80 - 120 |
| 2598654 | Cadmium | 99.3 | 99.0 | P/P | 80 - 120 |
| 2598654 | Chromium | 98.5 | 98.5 | P/P | 80 - 120 |
| 2598654 | Cobalt | 96.0 | 95.6 | P/P | 80 - 120 |
| 2598654 | Copper | 97.6 | 97.4 | P/P | 80 - 120 |

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P467174

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2598654 | Lead | 93.7 | 94.4 | P/P | 80 - 120 |
| 2598654 | Manganese | 96.0 | 95.9 | P/P | 80 - 120 |
| 2598654 | Molybdenum | 102 | 103 | P/P | 80 - 120 |
| 2598654 | Nickel | 97.2 | 97.1 | P/P | 80 - 120 |
| 2598654 | Selenium | 98.3 | 99.3 | P/P | 80 - 120 |
| 2598654 | Silver | 97.8 | 98.6 | P/P | 80 - 120 |
| 2598654 | Thallium | 99.0 | 102 | P/P | 80 - 120 |

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467800

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598749 | Chloride | 99.8 | | P | 90 - 110 |
| 2598781 | Chloride | 99.8 | | P | 90 - 110 |

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P467804

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598749 | Sulfate | 105 | | P | 90 - 110 |
| 2598781 | Sulfate | 101 | | P | 90 - 110 |

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P467678

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598650 | Ammonia-N | 93.6 | 95.0 | P/P | 90 - 110 |

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P467225

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2598704 | Kjeldahl Nitrogen | 95.6 | 95.1 | P/P | 90 - 110 |

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P467423

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2597650 | NO2NO3-N | 98.6 | 98.6 | P/P | 90 - 110 |

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P467377

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598598 | Total-P | 108 | 107 | P/P | 90 - 110 |

Reference Method: EPA 8270E
Batch ID: P467088

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--|---------|---------|-----------|----------------|
| 2598655 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 62.0 | 68.8 | P/P | 27 - 123 |
| 2598655 | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 102 | 110 | P/P | 14 - 181 |

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P467088

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------------|---------|---------|-----------|----------------|
| 2598655 | Acetochlor | 80.3 | 86.4 | P/P | 55 - 116 |
| 2598655 | Alachlor | 47.6 | 56.0 | P/P | 40 - 121 |
| 2598655 | Ametryn | 76.8 | 69.6 | P/P | 49 - 151 |
| 2598655 | Atrazine | 81.0 | 93.1 | P/P | 53 - 121 |
| 2598655 | Atrazine Desethyl | 75.3 | 81.2 | P/P | 36 - 133 |
| 2598655 | Avobenzene | 98.5 | 107 | P/P | 37 - 226 |
| 2598655 | Azinphos Methyl | 127 | 107 | P/P | 10 - 256 |
| 2598655 | Azoxystrobin | 99.3 | 110 | P/P | 49 - 144 |
| 2598655 | Bromacil | 73.1 | 83.5 | P/P | 50 - 125 |
| 2598655 | Butylate | 68.5 | 68.7 | P/P | 20 - 82.0 |
| 2598655 | Caffeine | 76.0 | 81.7 | P/P | 17 - 217 |
| 2598655 | Carbophenothion | 72.0 | 79.3 | P/P | 22 - 154 |
| 2598655 | Carfentrazone Ethyl | 70.3 | 75.3 | P/P | 38 - 146 |
| 2598655 | Chlorfenapyr | 72.6 | 70.7 | P/P | 42 - 120 |
| 2598655 | Chlorpyrifos Ethyl | 55.6 | 52.8 | P/P | 43 - 131 |
| 2598655 | Chlorpyrifos Methyl | 84.1 | 87.8 | P/P | 50 - 138 |
| 2598655 | Coumaphos | 69.3 | 71.3 | P/P | 10 - 192 |
| 2598655 | Cyanazine | 139 | 142 | P/P | 42 - 216 |
| 2598655 | Cyprodinil | 71.1 | 69.0 | P/P | 46 - 142 |
| 2598655 | Dechlorane 602 | 37.9 | 42.5 | P/P | 17 - 121 |
| 2598655 | Dechlorane 603 | 78.7 | 83.1 | P/P | 36 - 141 |
| 2598655 | Dechlorane Plus | 73.2 | 76.0 | P/P | 30 - 132 |
| 2598655 | Demeton | 73.3 | 80.9 | P/P | 10 - 150 |
| 2598655 | Diazinon | 79.5 | 101 | P/P | 55 - 140 |
| 2598655 | Difenoconazole | 89.4 | 86.0 | P/P | 10 - 207 |
| 2598655 | Dimethenamid | 77.6 | 81.4 | P/P | 47 - 125 |
| 2598655 | Dimethomorph | 155 | 173 | P/P | 10 - 299 |
| 2598655 | Disulfoton | 81.4 | 93.4 | P/P | 43 - 147 |
| 2598655 | Dithiopyr | 81.8 | 83.4 | P/P | 41 - 128 |
| 2598655 | EPTC | 55.1 | 59.9 | P/P | 22 - 75.0 |
| 2598655 | Ethion | 36.8 | 43.8 | P/P | 10 - 122 |
| 2598655 | Ethoprop | 86.6 | 97.0 | P/P | 57 - 119 |
| 2598655 | Etridiazole | 65.4 | 60.5 | P/P | 24 - 96.0 |
| 2598655 | Fenamiphos | 82.0 | 86.7 | P/P | 24 - 152 |
| 2598655 | Fenbuconazole | 70.7 | 77.7 | P/P | 13 - 139 |
| 2598655 | Fipronil | 63.2 | 62.3 | P/P | 37 - 132 |
| 2598655 | Fipronil Desulfinyl | 75.8 | 78.9 | P/P | 33 - 130 |
| 2598655 | Fipronil Sulfide | 65.0 | 63.0 | P/P | 38 - 124 |
| 2598655 | Fipronil Sulfone | 69.1 | 70.0 | P/P | 33 - 133 |
| 2598655 | Fluazifop-P-butyl | 69.4 | 63.8 | P/P | 32 - 139 |
| 2598655 | Fludioxonil | 73.9 | 73.9 | P/P | 44 - 118 |
| 2598655 | Flumioxazin | 91.6 | 111 | P/P | 10 - 238 |
| 2598655 | Flutolanil | 57.2 | 52.5 | P/P | 30 - 139 |
| 2598655 | Fluxapyroxad | 60.3 | 52.9 | P/P | 10 - 205 |
| 2598655 | Fonofos | 81.5 | 90.8 | P/P | 43 - 132 |
| 2598655 | Hexabromobenzene | 117 | 132 | P/P | 31 - 164 |
| 2598655 | Hexazinone | 74.2 | 68.6 | P/P | 57 - 126 |
| 2598655 | Imazalil | 60.8 | 55.5 | P/P | 24 - 143 |
| 2598655 | Iprodione | 56.6 | 61.5 | P/P | 12 - 170 |
| 2598655 | Loratadine | 125 | 127 | P/P | 10 - 266 |
| 2598655 | Malathion | 82.3 | 69.4 | P/P | 48 - 146 |
| 2598655 | Metalaxyl | 82.6 | 81.1 | P/P | 45 - 120 |

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P467088

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---|---------|---------|-----------|----------------|
| 2598655 | Metolachlor | 64.8 | 63.6 | P/P | 49 - 125 |
| 2598655 | Metribuzin | 106 | 93.3 | P/P | 48 - 128 |
| 2598655 | Mevinphos | 93.5 | 107 | P/P | 46 - 134 |
| 2598655 | Molinate | 53.2 | 57.8 | P/P | 31 - 87.0 |
| 2598655 | Myclobutanil | 63.9 | 62.8 | P/P | 37 - 128 |
| 2598655 | Naled | 17.8 | 23.7 | P/P | 10 - 88.0 |
| 2598655 | Napropamide | 61.2 | 58.7 | P/P | 30 - 117 |
| 2598655 | Norflurazon | 56.0 | 62.2 | P/P | 37 - 121 |
| 2598655 | Octinoxate | 115 | 131 | P/P | 34 - 167 |
| 2598655 | Oxadiazon | 73.9 | 80.3 | P/P | 42 - 110 |
| 2598655 | Oxybenzone | 110 | 130 | P/P | 47 - 163 |
| 2598655 | Oxyfluorfen | 105 | 114 | P/P | 39 - 180 |
| 2598655 | Parathion Ethyl | 80.6 | 91.8 | P/P | 58 - 117 |
| 2598655 | Parathion Methyl | 77.5 | 85.5 | P/P | 39 - 181 |
| 2598655 | PBB-153 | 107 | 116 | P/P | 10 - 204 |
| 2598655 | PBDE-47 | 88.9 | 98.9 | P/P | 32 - 153 |
| 2598655 | PBDE-99 | 67.9 | 74.0 | P/P | 10 - 174 |
| 2598655 | Pendimethalin | 75.2 | 74.8 | P/P | 30 - 199 |
| 2598655 | Pentabromotoluene | 111 | 126 | P/P | 39 - 143 |
| 2598655 | Phenytoln | 20.9 | 25.5 | P/P | 10 - 118 |
| 2598655 | Phorate | 87.0 | 85.7 | P/P | 28 - 148 |
| 2598655 | Prodiamine | 56.4 | 54.0 | P/P | 10 - 192 |
| 2598655 | Prometon | 66.4 | 59.5 | P/P | 37 - 155 |
| 2598655 | Prometryn | 84.4 | 116 | P/P | 52 - 154 |
| 2598655 | Pronamide | 79.3 | 82.5 | P/P | 59 - 128 |
| 2598655 | Propanil | 96.3 | 115 | P/P | 33 - 160 |
| 2598655 | Propargite | 34.5 | 36.0 | P/P | 10 - 122 |
| 2598655 | Propiconazole | 60.3 | 58.6 | P/P | 15 - 153 |
| 2598655 | Pyraflufen Ethyl | 66.5 | 59.0 | P/P | 28 - 137 |
| 2598655 | Pyridaben | 165 | 157 | P/P | 10 - 212 |
| 2598655 | Pyriproxyfen | 62.2 | 63.5 | P/P | 10 - 196 |
| 2598655 | Simazine | 70.5 | 71.7 | P/P | 53 - 123 |
| 2598655 | Stiropfos | 53.4 | 45.0 | P/P | 10 - 130 |
| 2598655 | Sulfentrazone | 65.4 | 74.1 | P/P | 10 - 175 |
| 2598655 | Tebuconazole | 31.4 | 31.1 | P/P | 10 - 124 |
| 2598655 | Terbufos | 89.1 | 90.1 | P/P | 44 - 137 |
| 2598655 | Terbutylazine | 60.4 | 70.3 | P/P | 51 - 112 |
| 2598655 | Tetradecachloro-m-terphenyl | 114 | 123 | P/P | 10 - 231 |
| 2598655 | Thiobencarb | 74.5 | 71.6 | P/P | 49 - 119 |
| 2598655 | Tri-o-cresyl Phosphate | 98.7 | 110 | P/P | 56 - 160 |
| 2598655 | Triadimefon | 70.8 | 77.3 | P/P | 45 - 113 |
| 2598655 | Tris(1-chloro-2-propyl) phosphate (TCPP) | 115 | 131 | P/P | 45 - 170 |
| 2598655 | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 104 | 119 | P/P | 51 - 166 |
| 2598655 | Tris(2-chloroethyl) phosphate (TCEP) | 121 | 143 | P/P | 48 - 206 |

Reference Method: EPA 8321B
 Batch ID: P467070

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2598426 | Acesulfame K | 105 | 107 | P/P | 60 - 130 |
| 2598426 | AMPA | 108 | 104 | P/P | 60 - 130 |
| 2598426 | Endothall | 111 | 107 | P/P | 60 - 130 |

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P467070

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------|---------|---------|-----------|----------------|
| 2598426 | Glufosinate | 103 | 97.7 | P/P | 60 - 130 |
| 2598426 | Glyphosate | 108 | 105 | P/P | 60 - 130 |
| 2598426 | Sucralose | 103 | 94.6 | P/P | 60 - 130 |

Reference Method: EPA 8321B
Batch ID: P467158

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2598451 | 2,4,5-T | 116 | 126 | P/P | 30 - 160 |
| 2598451 | Acetaminophen | 83.4 | 86.5 | P/P | 30 - 160 |
| 2598451 | Acetamidiprid | 29.1 | 62.2 | F/P | 30 - 160 |
| 2598451 | Afidopyropen | 25.3 | 69.9 | F/P | 30 - 160 |
| 2598451 | Bentazon | 53.3 | 73.1 | P/P | 30 - 160 |
| 2598451 | Benzovindiflupyr | 67.1 | 71.8 | P/P | 30 - 160 |
| 2598451 | Carbamazepine | 61.3 | 66.5 | P/P | 30 - 160 |
| 2598451 | Clothianidin | 91.6 | 94.0 | P/P | 30 - 160 |
| 2598451 | Dinotefuran | 88.2 | 95.7 | P/P | 30 - 160 |
| 2598451 | Diuron | 48.1 | 49.9 | P/P | 30 - 160 |
| 2598451 | Fenuron | 71.5 | 76.0 | P/P | 30 - 160 |
| 2598451 | Fluridone | 68.1 | 77.0 | P/P | 30 - 160 |
| 2598451 | Hydrocodone | 79.5 | 89.0 | P/P | 30 - 160 |
| 2598451 | Ibuprofen | 81.0 | 84.9 | P/P | 30 - 160 |
| 2598451 | Imidacloprid | 126 | 138 | P/P | 30 - 160 |
| 2598451 | Linuron | 48.1 | 49.8 | P/P | 30 - 160 |
| 2598451 | Mandestrobin | 60.3 | 74.6 | P/P | 30 - 160 |
| 2598451 | MCPPP | 124 | 142 | P/P | 30 - 160 |
| 2598451 | Naproxen | 97.2 | 90.9 | P/P | 30 - 160 |
| 2598451 | Primidone | 99.1 | 105 | P/P | 30 - 160 |
| 2598451 | Pyraclostrobin | 64.3 | 71.7 | P/P | 30 - 160 |
| 2598451 | Silvex | 92.1 | 99.3 | P/P | 30 - 160 |
| 2598451 | Thiamethoxam | 99.0 | 106 | P/P | 30 - 160 |
| 2598451 | Tolfenpyrad | 50.9 | 53.3 | P/P | 30 - 160 |
| 2598451 | Triclopyr | 106 | 123 | P/P | 30 - 160 |

Reference Method: SM 4500-F- C-2011
Batch ID: P467351

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2598818 | Fluoride | 97.1 | 97.1 | P/P | 91 - 106 |

Reference Method: SM 5310 B-2014
Batch ID: P467665

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2598632 | Organic Carbon | 99.8 | 98.9 | P/P | 85 - 115 |

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
 Batch ID: P467153

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|--------------|-----------|-------------------|-----------|----------------|
| 2598649 | Color (true) | 0.810 | Sample | P | 0 - 20 |

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P467157

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598595 | Turbidity | 0.767 | Sample | P | 0 - 20 |

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P467174

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598654 | Calcium | 0.490 | Spike | P | 0 - 20 |
| 2598654 | Iron | 1.48 | Spike | P | 0 - 20 |
| 2598654 | Magnesium | 0.238 | Spike | P | 0 - 20 |
| 2598654 | Potassium | 3.68 | Spike | P | 0 - 20 |
| 2598654 | Sodium | 1.52 | Spike | P | 0 - 20 |
| 2598654 | Strontium | 3.74 | Spike | P | 0 - 20 |
| 2598654 | Tin | 2.03 | Spike | P | 0 - 20 |
| 2598654 | Titanium | 1.69 | Spike | P | 0 - 20 |
| 2598654 | Vanadium | 0.000935 | Spike | P | 0 - 20 |
| 2598654 | Zinc | 0.231 | Spike | P | 0 - 20 |

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P467174

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|------------|-----------|-------------------|-----------|----------------|
| 2598654 | Aluminum | 0.227 | Spike | P | 0 - 20 |
| 2598654 | Antimony | 0.106 | Spike | P | 0 - 20 |
| 2598654 | Arsenic | 0.844 | Spike | P | 0 - 20 |
| 2598654 | Barium | 0.604 | Spike | P | 0 - 20 |
| 2598654 | Beryllium | 5.06 | Spike | P | 0 - 20 |
| 2598654 | Boron | 0.942 | Spike | P | 0 - 20 |
| 2598654 | Cadmium | 0.268 | Spike | P | 0 - 20 |
| 2598654 | Chromium | 0.00854 | Spike | P | 0 - 20 |
| 2598654 | Cobalt | 0.387 | Spike | P | 0 - 20 |
| 2598654 | Copper | 0.240 | Spike | P | 0 - 20 |
| 2598654 | Lead | 0.756 | Spike | P | 0 - 20 |
| 2598654 | Manganese | 0.0642 | Spike | P | 0 - 20 |
| 2598654 | Molybdenum | 0.681 | Spike | P | 0 - 20 |
| 2598654 | Nickel | 0.0220 | Spike | P | 0 - 20 |
| 2598654 | Selenium | 1.01 | Spike | P | 0 - 20 |
| 2598654 | Silver | 0.888 | Spike | P | 0 - 20 |
| 2598654 | Thallium | 2.79 | Spike | P | 0 - 20 |

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P467800

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598749 | Chloride | 1.03 | Sample | P | 0 - 20 |

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P467804

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598749 | Sulfate | 0.375 | Sample | P | 0 - 20 |

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P467678

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598650 | Ammonia-N | 1.26 | Spike | P | 0 - 20 |

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P467225

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2598704 | Kjeldahl Nitrogen | 0.259 | Spike | P | 0 - 20 |

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P467423

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2597650 | NO2NO3-N | 0.0257 | Spike | P | 0 - 20 |

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P467377

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598598 | Total-P | 0.232 | Spike | P | 0 - 20 |

Reference Method: EPA 8270E
 Batch ID: P467088

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|--|-----------|-------------------|-----------|----------------|
| 2598655 | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 10.4 | Spike | P | 0 - 63 |
| 2598655 | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 8.40 | Spike | P | 0 - 66 |
| 2598655 | Acetochlor | 7.23 | Spike | P | 0 - 30 |
| 2598655 | Alachlor | 16.2 | Spike | P | 0 - 32 |
| 2598655 | Ametryn | 9.86 | Spike | P | 0 - 36 |
| 2598655 | Atrazine | 13.9 | Spike | P | 0 - 29 |
| 2598655 | Atrazine Desethyl | 7.57 | Spike | P | 0 - 31 |
| 2598655 | Avobenzone | 8.29 | Spike | P | 0 - 49 |
| 2598655 | Azinphos Methyl | 17.0 | Spike | P | 0 - 79 |

Quality Assurance Report Precision

Reference Method: EPA 8270E
 Batch ID: P467088

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2598655 | Azoxystrobin | 9.82 | Spike | P | 0 - 39 |
| 2598655 | Bromacil | 13.3 | Spike | P | 0 - 31 |
| 2598655 | Butylate | 0.266 | Spike | P | 0 - 52 |
| 2598655 | Caffeine | 7.27 | Spike | P | 0 - 91 |
| 2598655 | Carbophenothion | 9.63 | Spike | P | 0 - 55 |
| 2598655 | Carfentrazone Ethyl | 6.92 | Spike | P | 0 - 36 |
| 2598655 | Chlorfenapyr | 2.62 | Spike | P | 0 - 26 |
| 2598655 | Chlorpyrifos Ethyl | 5.27 | Spike | P | 0 - 33 |
| 2598655 | Chlorpyrifos Methyl | 4.37 | Spike | P | 0 - 35 |
| 2598655 | Coumaphos | 2.79 | Spike | P | 0 - 62 |
| 2598655 | Cyanazine | 2.02 | Spike | P | 0 - 38 |
| 2598655 | Cyprodinil | 3.03 | Spike | P | 0 - 30 |
| 2598655 | Dechlorane 602 | 11.6 | Spike | P | 0 - 77 |
| 2598655 | Dechlorane 603 | 5.40 | Spike | P | 0 - 57 |
| 2598655 | Dechlorane Plus | 3.71 | Spike | P | 0 - 47 |
| 2598655 | Demeton | 9.89 | Spike | P | 0 - 31 |
| 2598655 | Diazinon | 23.9 | Spike | P | 0 - 37 |
| 2598655 | Difenoconazole | 3.82 | Spike | P | 0 - 84 |
| 2598655 | Dimethenamid | 4.74 | Spike | P | 0 - 41 |
| 2598655 | Dimethomorph | 11.2 | Spike | P | 0 - 62 |
| 2598655 | Disulfoton | 13.7 | Spike | P | 0 - 29 |
| 2598655 | Dithiopyr | 1.97 | Spike | P | 0 - 40 |
| 2598655 | EPTC | 8.43 | Spike | P | 0 - 58 |
| 2598655 | Ethion | 17.4 | Spike | P | 0 - 96 |
| 2598655 | Ethoprop | 11.3 | Spike | P | 0 - 29 |
| 2598655 | Etridiazole | 7.82 | Spike | P | 0 - 41 |
| 2598655 | Fenamiphos | 5.63 | Spike | P | 0 - 37 |
| 2598655 | Fenbuconazole | 9.49 | Spike | P | 0 - 87 |
| 2598655 | Fipronil | 1.47 | Spike | P | 0 - 50 |
| 2598655 | Fipronil Desulfinyl | 4.05 | Spike | P | 0 - 41 |
| 2598655 | Fipronil Sulfide | 3.12 | Spike | P | 0 - 42 |
| 2598655 | Fipronil Sulfone | 1.25 | Spike | P | 0 - 55 |
| 2598655 | Fluazifop-P-butyl | 8.41 | Spike | P | 0 - 43 |
| 2598655 | Fludioxonil | 0.00846 | Spike | P | 0 - 31 |
| 2598655 | Flumioxazin | 18.7 | Spike | P | 0 - 83 |
| 2598655 | Flutolanil | 8.41 | Spike | P | 0 - 37 |
| 2598655 | Fluxapyroxad | 13.0 | Spike | P | 0 - 80 |
| 2598655 | Fonofos | 10.7 | Spike | P | 0 - 36 |
| 2598655 | Hexabromobenzene | 11.7 | Spike | P | 0 - 45 |
| 2598655 | Hexazinone | 7.91 | Spike | P | 0 - 26 |
| 2598655 | Imazalil | 9.16 | Spike | P | 0 - 52 |
| 2598655 | Iprodione | 8.24 | Spike | P | 0 - 67 |
| 2598655 | Loratadine | 2.03 | Spike | P | 0 - 85 |
| 2598655 | Malathion | 17.1 | Spike | P | 0 - 98 |
| 2598655 | Metalaxyl | 1.83 | Spike | P | 0 - 35 |
| 2598655 | Metolachlor | 1.89 | Spike | P | 0 - 31 |
| 2598655 | Metribuzin | 12.3 | Spike | P | 0 - 50 |
| 2598655 | Mevinphos | 13.3 | Spike | P | 0 - 31 |
| 2598655 | Molinate | 8.37 | Spike | P | 0 - 35 |
| 2598655 | Myclobutanil | 1.63 | Spike | P | 0 - 40 |
| 2598655 | Naled | 28.3 | Spike | P | 0 - 37 |

Quality Assurance Report Precision

Reference Method: EPA 8270E
 Batch ID: P467088

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|---|-----------|-------------------|-----------|----------------|
| 2598655 | Napropamide | 4.09 | Spike | P | 0 - 100 |
| 2598655 | Norflurazon | 10.5 | Spike | P | 0 - 44 |
| 2598655 | Octinoxate | 12.7 | Spike | P | 0 - 41 |
| 2598655 | Oxadiazon | 8.30 | Spike | P | 0 - 39 |
| 2598655 | Oxybenzone | 16.9 | Spike | P | 0 - 44 |
| 2598655 | Oxyfluorfen | 8.45 | Spike | P | 0 - 36 |
| 2598655 | Parathion Ethyl | 13.0 | Spike | P | 0 - 31 |
| 2598655 | Parathion Methyl | 9.79 | Spike | P | 0 - 41 |
| 2598655 | PBB-153 | 8.06 | Spike | P | 0 - 90 |
| 2598655 | PBDE-47 | 10.6 | Spike | P | 0 - 59 |
| 2598655 | PBDE-99 | 8.62 | Spike | P | 0 - 72 |
| 2598655 | Pendimethalin | 0.551 | Spike | P | 0 - 36 |
| 2598655 | Pentabromotoluene | 13.0 | Spike | P | 0 - 48 |
| 2598655 | Phenytoin | 19.9 | Spike | P | 0 - 100 |
| 2598655 | Phorate | 1.58 | Spike | P | 0 - 38 |
| 2598655 | Prodiamine | 4.20 | Spike | P | 0 - 72 |
| 2598655 | Prometon | 10.9 | Spike | P | 0 - 34 |
| 2598655 | Prometryn | 31.7 | Spike | P | 0 - 34 |
| 2598655 | Pronamide | 3.97 | Spike | P | 0 - 24 |
| 2598655 | Propanil | 17.7 | Spike | P | 0 - 28 |
| 2598655 | Propargite | 4.06 | Spike | P | 0 - 67 |
| 2598655 | Propiconazole | 2.74 | Spike | P | 0 - 60 |
| 2598655 | Pyraflufen Ethyl | 11.8 | Spike | P | 0 - 64 |
| 2598655 | Pyridaben | 5.28 | Spike | P | 0 - 43 |
| 2598655 | Pyriproxyfen | 2.11 | Spike | P | 0 - 90 |
| 2598655 | Simazine | 1.70 | Spike | P | 0 - 26 |
| 2598655 | Stirophos | 17.1 | Spike | P | 0 - 83 |
| 2598655 | Sulfentrazone | 12.5 | Spike | P | 0 - 84 |
| 2598655 | Tebuconazole | 0.832 | Spike | P | 0 - 74 |
| 2598655 | Terbufos | 1.08 | Spike | P | 0 - 39 |
| 2598655 | Terbutylazine | 15.1 | Spike | P | 0 - 27 |
| 2598655 | Tetradecachloro-m-terphenyl | 7.49 | Spike | P | 0 - 100 |
| 2598655 | Thiobencarb | 3.96 | Spike | P | 0 - 67 |
| 2598655 | Tri-o-cresyl Phosphate | 10.6 | Spike | P | 0 - 39 |
| 2598655 | Triadimefon | 8.76 | Spike | P | 0 - 36 |
| 2598655 | Tris(1-chloro-2-propyl) phosphate (TCPP) | 12.5 | Spike | P | 0 - 46 |
| 2598655 | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 13.3 | Spike | P | 0 - 42 |
| 2598655 | Tris(2-chloroethyl) phosphate (TCEP) | 16.3 | Spike | P | 0 - 47 |

Reference Method: EPA 8321B
 Batch ID: P467070

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|--------------|-----------|-------------------|-----------|----------------|
| 2598426 | Acesulfame K | 1.59 | Spike | P | 0 - 30 |
| 2598426 | AMPA | 2.70 | Spike | P | 0 - 30 |
| 2598426 | Endothall | 3.47 | Spike | P | 0 - 30 |
| 2598426 | Glufosinate | 4.82 | Spike | P | 0 - 30 |
| 2598426 | Glyphosate | 1.62 | Spike | P | 0 - 30 |
| 2598426 | Sucralose | 6.82 | Spike | P | 0 - 30 |

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P467158

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|------------------|-----------|-------------------|-----------|----------------|
| 2598451 | 2,4-D | 2.47 | Spike | P | 0 - 30 |
| 2598451 | 2,4,5-T | 8.17 | Spike | P | 0 - 30 |
| 2598451 | Acetaminophen | 3.59 | Spike | P | 0 - 30 |
| 2598451 | Acetamiprid | 72.5 | Spike | F | 0 - 30 |
| 2598451 | Afidopyropen | 93.7 | Spike | F | 0 - 30 |
| 2598451 | Bentazon | 13.2 | Spike | P | 0 - 30 |
| 2598451 | Benzovindiflupyr | 6.84 | Spike | P | 0 - 30 |
| 2598451 | Carbamazepine | 8.16 | Spike | P | 0 - 30 |
| 2598451 | Clothianidin | 2.61 | Spike | P | 0 - 30 |
| 2598451 | Dinotefuran | 8.13 | Spike | P | 0 - 30 |
| 2598451 | Diuron | 3.63 | Spike | P | 0 - 30 |
| 2598451 | Fenuron | 6.05 | Spike | P | 0 - 30 |
| 2598451 | Fluridone | 8.53 | Spike | P | 0 - 30 |
| 2598451 | Hydrocodone | 11.3 | Spike | P | 0 - 30 |
| 2598451 | Ibuprofen | 4.69 | Spike | P | 0 - 30 |
| 2598451 | Imazapyr | 8.99 | Spike | P | 0 - 30 |
| 2598451 | Imidacloprid | 8.79 | Spike | P | 0 - 30 |
| 2598451 | Linuron | 3.41 | Spike | P | 0 - 30 |
| 2598451 | Mandestrobin | 21.2 | Spike | P | 0 - 30 |
| 2598451 | MCPP | 14.0 | Spike | P | 0 - 30 |
| 2598451 | Naproxen | 6.74 | Spike | P | 0 - 30 |
| 2598451 | Primidone | 5.81 | Spike | P | 0 - 30 |
| 2598451 | Pyraclostrobin | 10.8 | Spike | P | 0 - 30 |
| 2598451 | Silvex | 7.53 | Spike | P | 0 - 30 |
| 2598451 | Thiamethoxam | 6.99 | Spike | P | 0 - 30 |
| 2598451 | Tolfenpyrad | 4.48 | Spike | P | 0 - 30 |
| 2598451 | Triclopyr | 14.3 | Spike | P | 0 - 30 |

Reference Method: SM 2320 B-2011
Batch ID: P467348

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|------------------|-----------|-------------------|-----------|----------------|
| 2598818 | Total Alkalinity | 2.46 | Sample | P | 0 - 3.6 |

Reference Method: SM 2540 C-2015
Batch ID: P467594

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598552 | TDS | 7.96 | Sample | P | 0 - 10 |

Reference Method: SM 2540 D-2015
Batch ID: P467479

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|-----------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598552 | TSS | 4.26 | Sample | P | 0 - 10 |

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P467351

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2598818 | Fluoride | 0.0 | Spike | P | 0 - 2.4 |

Reference Method: SM 5310 B-2014
Batch ID: P467665

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2598632 | Organic Carbon | 0.628 | Spike | P | 0 - 15 |

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2598653
Field Sample ID: G5SW0206

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B | 2,4-D-d3 | 129 | P | 30 - 160 |
| EPA 8321B | Acetaminophen-d4 | 64.5 | P | 30 - 160 |
| EPA 8321B | Carbamazepine-d10 | 56.9 | P | 30 - 160 |
| EPA 8321B | Diuron-d6 | 42.8 | P | 30 - 160 |
| EPA 8321B | Endothall-d6 | 139 | P | 30 - 160 |
| EPA 8321B | Glyphosate 13C 15N | 96.2 | P | 30 - 160 |
| EPA 8321B | Ibuprofen-d3 | 67.1 | P | 30 - 160 |
| EPA 8321B | Primidone-d5 | 82.9 | P | 30 - 160 |
| EPA 8321B | Sucralose-d6 | 100 | P | 30 - 160 |

Lab Sample ID: 2598655
Field Sample ID: G5SW0206

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|------------------|---------------|--------|-----------|----------------|
| EPA 8270E | Caffeine-d9 | 71.4 | P | 20 - 200 |
| EPA 8270E | Simazine-d10 | 59.4 | P | 53 - 128 |
| EPA 8270E | Terbufos-d10 | 72.7 | P | 42 - 125 |
| EPA 8270E | Terphenyl-d14 | 100 | P | 52 - 167 |

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1
 Run ID: A134668
 Included Lab Sample IDs: 2598649

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 102 | 103 | P/P | 90 - 110 |

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A134671
 Included Lab Sample IDs: 2598649

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 99.5 | 99.5 | P/P | 95 - 105 |

Reference Method: EPA 8321B
 Run ID: A134711
 Included Lab Sample IDs: 2598653

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 101 | 98.7 | P/P | 60 - 160 |
| Sucralose | 101 | 104 | P/P | 60 - 160 |

Reference Method: EPA 8321B
 Run ID: A134712
 Included Lab Sample IDs: 2598653

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA | 96.3 | 100 | P/P | 60 - 160 |
| Endothall | 104 | 105 | P/P | 60 - 160 |
| Glufosinate | 105 | 106 | P/P | 60 - 160 |
| Glyphosate | 104 | 101 | P/P | 60 - 160 |

Reference Method: EPA 200.8 Rev. 5.4
 Run ID: A134715
 Included Lab Sample IDs: 2598654

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------|---------|---------|------------|----------------|
| Aluminum | 102 | 101 | P/P | 90 - 110 |
| Antimony | 98.5 | 96.9 | P/P | 90 - 110 |
| Arsenic | 99.4 | 98.3 | P/P | 90 - 110 |
| Barium | 100 | 98.8 | P/P | 90 - 110 |
| Beryllium | 101 | 98.3 | P/P | 90 - 110 |
| Boron | 102 | 100 | P/P | 90 - 110 |
| Cadmium | 97.4 | 96.0 | P/P | 90 - 110 |
| Chromium | 99.9 | 98.6 | P/P | 90 - 110 |
| Cobalt | 98.9 | 97.9 | P/P | 90 - 110 |
| Copper | 97.0 | 95.9 | P/P | 90 - 110 |
| Lead | 102 | 99.8 | P/P | 90 - 110 |
| Manganese | 96.3 | 95.2 | P/P | 90 - 110 |
| Molybdenum | 102 | 100 | P/P | 90 - 110 |
| Nickel | 100 | 98.6 | P/P | 90 - 110 |
| Selenium | 99.1 | 97.9 | P/P | 90 - 110 |
| Silver | 98.8 | 97.5 | P/P | 90 - 110 |
| Thallium | 101 | 99.3 | P/P | 90 - 110 |

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A134716

Included Lab Sample IDs: 2598654

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Calcium | 105 | 106 | P/P | 90 - 110 |
| Iron | 105 | 106 | P/P | 90 - 110 |
| Magnesium | 105 | 107 | P/P | 90 - 110 |
| Potassium | 100 | 100 | P/P | 90 - 110 |
| Sodium | 104 | 103 | P/P | 90 - 110 |
| Strontium | 105 | 101 | P/P | 90 - 110 |
| Tin | 104 | 106 | P/P | 90 - 110 |
| Titanium | 100 | 102 | P/P | 90 - 110 |
| Vanadium | 99.5 | 102 | P/P | 90 - 110 |
| Zinc | 103 | 107 | P/P | 90 - 110 |

Reference Method: EPA 8321B

Run ID: A134723

Included Lab Sample IDs: 2598653

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| 2,4-D | 109 | 109 | P/P | 50 - 150 |
| 2,4,5-T | 132 | 131 | P/P | 50 - 150 |
| Acetaminophen | 107 | 109 | P/P | 60 - 160 |
| Acetamiprid | 113 | 112 | P/P | 50 - 150 |
| Afidopyropen | 106 | 109 | P/P | 50 - 150 |
| Bentazon | 109 | 115 | P/P | 50 - 160 |
| Benzovindiflupyr | 104 | 101 | P/P | 50 - 160 |
| Carbamazepine | 111 | 111 | P/P | 60 - 150 |
| Clothianidin | 106 | 107 | P/P | 60 - 150 |
| Dinotefuran | 107 | 104 | P/P | 50 - 150 |
| Diuron | 122 | 117 | P/P | 60 - 160 |
| Fenuron | 110 | 111 | P/P | 60 - 150 |
| Fluridone | 114 | 112 | P/P | 60 - 160 |
| Hydrocodone | 107 | 109 | P/P | 60 - 150 |
| Ibuprofen | 98.4 | 98.3 | P/P | 50 - 160 |
| Imazapyr | 136 | 129 | P/P | 50 - 150 |
| Imidacloprid | 105 | 106 | P/P | 60 - 150 |
| Linuron | 94.0 | 90.4 | P/P | 60 - 150 |
| Mandestrobin | 107 | 102 | P/P | 50 - 150 |
| MCPPP | 117 | 133 | P/P | 50 - 150 |
| Naproxen | 97.4 | 122 | P/P | 50 - 160 |
| Primidone | 103 | 94.3 | P/P | 60 - 150 |
| Pyraclostrobin | 109 | 102 | P/P | 60 - 150 |
| Silvex | 113 | 109 | P/P | 50 - 150 |
| Thiamethoxam | 109 | 110 | P/P | 50 - 150 |
| Tolfenpyrad | 106 | 101 | P/P | 60 - 150 |
| Triclopyr | 122 | 122 | P/P | 50 - 150 |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A134728

Included Lab Sample IDs: 2598650

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 103 | 98.5 | P/P | 90 - 110 |

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A134752
Included Lab Sample IDs: 2598649

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 98.9 | 97.9 | P/P | 90 - 110 |

Reference Method: SM 4500-F- C-2011
Run ID: A134752
Included Lab Sample IDs: 2598649

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Fluoride | 99.1 | 101 | P/P | 90 - 110 |

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A134773
Included Lab Sample IDs: 2598650

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N | 101 | 99.2 | P/P | 90 - 110 |

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A134792
Included Lab Sample IDs: 2598650

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P | 100 | 101 | P/P | 90 - 110 |

Reference Method: EPA 8270E
Run ID: A134853
Included Lab Sample IDs: 2598655

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--|---------|---------|------------|----------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 107 | | P | 80 - 120 |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 106 | | P | 80 - 120 |
| Avobenzone | 100 | | P | 80 - 120 |
| Dechlorane 602 | 111 | | P | 80 - 120 |
| Dechlorane 603 | 109 | | P | 80 - 120 |
| Dechlorane Plus | 103 | | P | 80 - 120 |
| Hexabromobenzene | 110 | | P | 80 - 120 |
| Octinoxate | 98.4 | | P | 80 - 120 |
| Oxybenzone | 95.0 | | P | 80 - 120 |
| PBB-153 | 111 | | P | 80 - 120 |
| PBDE-47 | 103 | | P | 80 - 120 |
| PBDE-99 | 106 | | P | 80 - 120 |
| Pentabromotoluene | 107 | | P | 80 - 120 |
| Tetradecachloro-m-terphenyl | 106 | | P | 80 - 120 |
| Tri-o-cresyl Phosphate | 99.3 | | P | 80 - 120 |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 94.1 | | P | 80 - 120 |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 98.0 | | P | 80 - 120 |
| Tris(2-chloroethyl) phosphate (TCEP) | 91.4 | | P | 80 - 120 |

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2014
Run ID: A134880
Included Lab Sample IDs: 2598650

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 98.8 | 98.3 | P/P | 85 - 115 |

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A134886
Included Lab Sample IDs: 2598650

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 97.3 | 97.5 | P/P | 90 - 110 |

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A134938
Included Lab Sample IDs: 2598649

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chloride | 99.7 | 103 | P/P | 90 - 110 |
| Sulfate | 99.2 | 103 | P/P | 90 - 110 |

Reference Method: EPA 8270E
Run ID: A135018
Included Lab Sample IDs: 2598655

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor | 91.9 | | P | 80 - 120 |
| Alachlor | 87.6 | | P | 80 - 120 |
| Ametryn | 98.0 | | P | 80 - 120 |
| Atrazine | 89.8 | | P | 80 - 120 |
| Atrazine Desethyl | 104 | | P | 80 - 120 |
| Azinphos Methyl | 91.7 | | P | 80 - 120 |
| Azoxystrobin | 100 | | P | 80 - 120 |
| Bromacil | 104 | | P | 80 - 120 |
| Butylate | 110 | | P | 80 - 120 |
| Caffeine | 94.8 | | P | 80 - 120 |
| Carbophenothion | 90.2 | | P | 80 - 120 |
| Carfentrazone Ethyl | 100 | | P | 80 - 120 |
| Chlorfenapyr | 89.2 | | P | 80 - 120 |
| Chlorpyrifos Ethyl | 87.2 | | P | 80 - 120 |
| Chlorpyrifos Methyl | 105 | | P | 80 - 120 |
| Coumaphos | 103 | | P | 80 - 120 |
| Cyanazine | 105 | | P | 80 - 120 |
| Cyprodinil | 98.4 | | P | 80 - 120 |
| Demeton | 108 | | P | 80 - 120 |
| Diazinon | 104 | | P | 80 - 120 |
| Difenoconazole | 106 | | P | 80 - 120 |
| Dimethenamid | 102 | | P | 80 - 120 |
| Dimethomorph | 84.9 | | P | 80 - 120 |
| Disulfoton | 109 | | P | 80 - 120 |
| Dithiopyr | 97.7 | | P | 80 - 120 |
| EPTC | 103 | | P | 80 - 120 |
| Ethion | 91.8 | | P | 80 - 120 |
| Ethoprop | 113 | | P | 80 - 120 |
| Etridiazole | 96.6 | | P | 80 - 120 |

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A135018
 Included Lab Sample IDs: 2598655

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Fenamiphos | 92.9 | | P | 80 - 120 |
| Fenbuconazole | 82.9 | | P | 80 - 120 |
| Fipronil | 84.6 | | P | 80 - 120 |
| Fipronil Desulfinyl | 101 | | P | 80 - 120 |
| Fipronil Sulfide | 103 | | P | 80 - 120 |
| Fipronil Sulfone | 96.9 | | P | 80 - 120 |
| Fluazifop-P-butyl | 96.5 | | P | 80 - 120 |
| Fludioxonil | 103 | | P | 80 - 120 |
| Flumioxazin | 98.8 | | P | 80 - 120 |
| Flutolanil | 107 | | P | 80 - 120 |
| Fluxapyroxad | 99.1 | | P | 80 - 120 |
| Fonofos | 101 | | P | 80 - 120 |
| Hexazinone | 103 | | P | 80 - 120 |
| Imazalil | 108 | | P | 80 - 120 |
| Iprodione | 82.5 | | P | 80 - 120 |
| Loratadine | 89.7 | | P | 80 - 120 |
| Malathion | 83.2 | | P | 80 - 120 |
| Metalaxyl | 86.1 | | P | 80 - 120 |
| Metolachlor | 103 | | P | 80 - 120 |
| Metribuzin | 110 | | P | 80 - 120 |
| Mevinphos | 112 | | P | 80 - 120 |
| Molinate | 86.5 | | P | 80 - 120 |
| Myclobutanil | 92.4 | | P | 80 - 120 |
| Naled | 102 | | P | 80 - 120 |
| Napropamide | 99.8 | | P | 80 - 120 |
| Norflurazon | 99.9 | | P | 80 - 120 |
| Oxadiazon | 101 | | P | 80 - 120 |
| Oxyfluorfen | 100 | | P | 80 - 120 |
| Parathion Ethyl | 104 | | P | 80 - 120 |
| Parathion Methyl | 97.1 | | P | 80 - 120 |
| Pendimethalin | 102 | | P | 80 - 120 |
| Phenytoin | 102 | | P | 80 - 120 |
| Phorate | 107 | | P | 80 - 120 |
| Prodiamine | 94.3 | | P | 80 - 120 |
| Prometon | 99.0 | | P | 80 - 120 |
| Prometryn | 111 | | P | 80 - 120 |
| Pronamide | 103 | | P | 80 - 120 |
| Propanil | 105 | | P | 80 - 120 |
| Propargite | 98.2 | | P | 80 - 120 |
| Propiconazole | 84.8 | | P | 80 - 120 |
| Pyraflufen Ethyl | 103 | | P | 80 - 120 |
| Pyridaben | 101 | | P | 80 - 120 |
| Pyriproxyfen | 104 | | P | 80 - 120 |
| Simazine | 94.3 | | P | 80 - 120 |
| Stirophos | 83.2 | | P | 80 - 120 |
| Sulfentrazone | 69.7* | | F | 80 - 120 |
| Tebuconazole | 102 | | P | 80 - 120 |
| Terbufos | 103 | | P | 80 - 120 |
| Terbuthylazine | 85.4 | | P | 80 - 120 |
| Thiobencarb | 103 | | P | 80 - 120 |
| Triadimefon | 98.0 | | P | 80 - 120 |

Quality Assurance Report Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | | Precision | | |
|--------------------|--|----------------|---------------|------|------|-----------|-------|--------|
| | | | | | | LCS | SMP | MS |
| DEP SOP: NU-094-1 | Color (true) | 100 | | | | | 0.810 | |
| EPA 180.1 Rev. 2.0 | Turbidity | 98.9 | | | | | 0.767 | |
| EPA 200.7 Rev. 4.4 | Calcium | 103 | 104 | 100 | | | | 0.490 |
| | Iron | 104 | 104 | 103 | 101 | | | 1.48 |
| | Magnesium | 108 | 104 | 103 | 103 | | | 0.238 |
| | Potassium | 98.0 | 97.0 | 98.8 | 94.9 | | | 3.68 |
| | Sodium | 101 | 96.4 | 98.3 | | | | 1.52 |
| | Strontium | 98.2 | 97.3 | 96.7 | 93.1 | | | 3.74 |
| | Tin | 101 | 98.4 | 96.7 | 98.7 | | | 2.03 |
| | Titanium | 100 | 102 | 101 | 99.3 | | | 1.69 |
| | Vanadium | 99.1 | 98.9 | 98.7 | 98.7 | | | 0.0009 |
| | Zinc | 102 | 106 | 102 | 102 | | | 0.231 |
| EPA 200.8 Rev. 5.4 | Aluminum | 100 | 101 | 101 | 99.6 | | | 0.227 |
| | Antimony | 97.6 | 100 | 100 | 97.6 | | | 0.106 |
| | Arsenic | 97.5 | 100 | 101 | 99.5 | | | 0.844 |
| | Barium | 101 | 102 | 103 | 99.5 | | | 0.604 |
| | Beryllium | 99.1 | 102 | 96.6 | 101 | | | 5.06 |
| | Boron | 103 | 103 | 104 | 103 | | | 0.942 |
| | Cadmium | 97.2 | 99.3 | 99.0 | 97.7 | | | 0.268 |
| | Chromium | 97.0 | 98.5 | 98.5 | 98.4 | | | 0.0085 |
| | Cobalt | 95.0 | 96.0 | 95.6 | 95.2 | | | 0.387 |
| | Copper | 94.7 | 97.6 | 97.4 | 95.9 | | | 0.240 |
| | Lead | 91.7 | 93.7 | 94.4 | 92.2 | | | 0.756 |
| | Manganese | 94.8 | 96.0 | 95.9 | 93.8 | | | 0.0642 |
| | Molybdenum | 99.3 | 102 | 103 | 99.9 | | | 0.681 |
| | Nickel | 96.3 | 97.2 | 97.1 | 96.5 | | | 0.0220 |
| | Selenium | 98.3 | 98.3 | 99.3 | 99.8 | | | 1.01 |
| | Silver | 98.2 | 97.8 | 98.6 | 96.4 | | | 0.888 |
| | Thallium | 96.0 | 99.0 | 102 | 99.9 | | | 2.79 |
| EPA 300.0 Rev. 2.1 | Chloride | 99.3 | 99.8 | 99.8 | | | 1.03 | |
| | Sulfate | 102 | 105 | 101 | | | 0.375 | |
| EPA 350.1 Rev. 2.0 | Ammonia-N | 96.8 | 93.6 | 95.0 | | | | 1.26 |
| EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 103 | 95.6 | 95.1 | | | | 0.259 |
| EPA 353.2 Rev. 2.0 | NO2NO3-N | 97.3 | 98.6 | 98.6 | | | | 0.0257 |
| EPA 365.1 Rev. 2.0 | Total-P | 107 | 108 | 107 | | | | 0.232 |
| EPA 8270E | 2-(2H-benzotriazol-2-yl)-4,6-ditertpe ntylphenol (UV-328) | 56.7 | 62.0 | 68.8 | | | | 10.4 |
| | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 96.8 | 102 | 110 | | | | 8.40 |
| | Acetochlor | 83.9 | 80.3 | 86.4 | | | | 7.23 |
| | Alachlor | 61.5 | 47.6 | 56.0 | | | | 16.2 |
| | Ametryn | 105 | 76.8 | 69.6 | | | | 9.86 |
| | Atrazine | 74.3 | 81.0 | 93.1 | | | | 13.9 |
| | Atrazine Desethyl | 81.3 | 75.3 | 81.2 | | | | 7.57 |
| | Avobenzone | 99.5 | 98.5 | 107 | | | | 8.29 |
| | Azinphos Methyl | 110 | 127 | 107 | | | | 17.0 |
| | Azoxystrobin | 91.5 | 99.3 | 110 | | | | 9.82 |
| | Bromacil | 83.9 | 73.1 | 83.5 | | | | 13.3 |
| | Butylate | 68.2 | 68.5 | 68.7 | | | | 0.266 |
| | Caffeine | 70.5 | 76.0 | 81.7 | | | | 7.27 |
| | Carbophenothion | 74.4 | 72.0 | 79.3 | | | | 9.63 |
| | Carfentrazone Ethyl | 77.5 | 70.3 | 75.3 | | | | 6.92 |
| | Chlorfenapyr | 69.2 | 72.6 | 70.7 | | | | 2.62 |

Quality Assurance Report Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | |
|-------------|---------------------|----------------|---------------|------|-----------|--------|
| | | | LCS | MS | SMP | MS |
| EPA 8270E | Chlorpyrifos Ethyl | 69.3 | 55.6 | 52.8 | | 5.27 |
| | Chlorpyrifos Methyl | 85.8 | 84.1 | 87.8 | | 4.37 |
| | Coumaphos | 54.8 | 69.3 | 71.3 | | 2.79 |
| | Cyanazine | 121 | 139 | 142 | | 2.02 |
| | Cyprodinil | 65.0 | 71.1 | 69.0 | | 3.03 |
| | Dechlorane 602 | 30.4 | 37.9 | 42.5 | | 11.6 |
| | Dechlorane 603 | 85.2 | 78.7 | 83.1 | | 5.40 |
| | Dechlorane Plus | 93.8 | 73.2 | 76.0 | | 3.71 |
| | Demeton | 73.4 | 73.3 | 80.9 | | 9.89 |
| | Diazinon | 91.8 | 79.5 | 101 | | 23.9 |
| | Difenoconazole | 53.9 | 89.4 | 86.0 | | 3.82 |
| | Dimethenamid | 60.6 | 77.6 | 81.4 | | 4.74 |
| | Dimethomorph | 202 | 155 | 173 | | 11.2 |
| | Disulfoton | 78.9 | 81.4 | 93.4 | | 13.7 |
| | Dithiopyr | 80.0 | 81.8 | 83.4 | | 1.97 |
| | EPTC | 55.6 | 55.1 | 59.9 | | 8.43 |
| | Ethion | 20.3 | 36.8 | 43.8 | | 17.4 |
| | Ethoprop | 98.0 | 86.6 | 97.0 | | 11.3 |
| | Etridiazole | 67.7 | 65.4 | 60.5 | | 7.82 |
| | Fenamiphos | 57.8 | 82.0 | 86.7 | | 5.63 |
| | Fenbuconazole | 45.4 | 70.7 | 77.7 | | 9.49 |
| | Fipronil | 68.6 | 63.2 | 62.3 | | 1.47 |
| | Fipronil Desulfinyl | 74.8 | 75.8 | 78.9 | | 4.05 |
| | Fipronil Sulfide | 70.2 | 65.0 | 63.0 | | 3.12 |
| | Fipronil Sulfone | 75.5 | 69.1 | 70.0 | | 1.25 |
| | Fluazifop-P-butyl | 78.6 | 69.4 | 63.8 | | 8.41 |
| | Fludioxonil | 77.6 | 73.9 | 73.9 | | 0.0084 |
| | Flumioxazin | 74.8 | 91.6 | 111 | | 18.7 |
| | Flutolanil | 54.8 | 57.2 | 52.5 | | 8.41 |
| | Fluxapyroxad | 39.3 | 60.3 | 52.9 | | 13.0 |
| | Fonofos | 90.8 | 81.5 | 90.8 | | 10.7 |
| | Hexabromobenzene | 126 | 117 | 132 | | 11.7 |
| | Hexazinone | 68.5 | 74.2 | 68.6 | | 7.91 |
| | Imazalil | 73.7 | 60.8 | 55.5 | | 9.16 |
| | Iprodione | 58.9 | 56.6 | 61.5 | | 8.24 |
| | Loratadine | 118 | 125 | 127 | | 2.03 |
| | Malathion | 75.5 | 82.3 | 69.4 | | 17.1 |
| | Metalaxyl | 73.5 | 82.6 | 81.1 | | 1.83 |
| | Metolachlor | 63.6 | 64.8 | 63.6 | | 1.89 |
| | Metribuzin | 108 | 106 | 93.3 | | 12.3 |
| | Mevinphos | 98.4 | 93.5 | 107 | | 13.3 |
| | Molinate | 50.6 | 53.2 | 57.8 | | 8.37 |
| | Myclobutanil | 35.7 | 63.9 | 62.8 | | 1.63 |
| | Naled | 16.6 | 17.8 | 23.7 | | 28.3 |
| | Napropamide | 21.6 | 61.2 | 58.7 | | 4.09 |
| | Norflurazon | 45.5 | 56.0 | 62.2 | | 10.5 |
| | Octinoxate | 130 | 115 | 131 | | 12.7 |
| | Oxadiazon | 65.2 | 73.9 | 80.3 | | 8.30 |
| | Oxybenzone | 128 | 110 | 130 | | 16.9 |
| | Oxyfluorfen | 78.1 | 105 | 114 | | 8.45 |
| | Parathion Ethyl | 82.3 | 80.6 | 91.8 | | 13.0 |
| | Parathion Methyl | 84.4 | 77.5 | 85.5 | | 9.79 |
| | PBB-153 | 98.7 | 107 | 116 | | 8.06 |
| | PBDE-47 | 69.8 | 88.9 | 98.9 | | 10.6 |

Quality Assurance Report Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|------------------|---|----------------|---------------|------|-----------|-------|------|
| | | | LCS | SMP | SMP | MS | |
| EPA 8270E | PBDE-99 | 49.0 | 67.9 | 74.0 | | 8.62 | |
| | Pendimethalin | 67.0 | 75.2 | 74.8 | | 0.551 | |
| | Pentabromotoluene | 117 | 111 | 126 | | 13.0 | |
| | Phenytol | 21.5 | 20.9 | 25.5 | | 19.9 | |
| | Phorate | 88.2 | 87.0 | 85.7 | | 1.58 | |
| | Prodiamine | 49.5 | 56.4 | 54.0 | | 4.20 | |
| | Prometon | 68.6 | 66.4 | 59.5 | | 10.9 | |
| | Prometryn | 89.7 | 84.4 | 116 | | 31.7 | |
| | Pronamide | 80.9 | 79.3 | 82.5 | | 3.97 | |
| | Propanil | 106 | 96.3 | 115 | | 17.7 | |
| | Propargite | 46.7 | 34.5 | 36.0 | | 4.06 | |
| | Propiconazole | 57.6 | 60.3 | 58.6 | | 2.74 | |
| | Pyraflufen Ethyl | 72.5 | 66.5 | 59.0 | | 11.8 | |
| | Pyridaben | 49.8 | 165 | 157 | | 5.28 | |
| | Pyriproxyfen | 45.0 | 62.2 | 63.5 | | 2.11 | |
| | Simazine | 70.4 | 70.5 | 71.7 | | 1.70 | |
| | Stirophos | 32.4 | 53.4 | 45.0 | | 17.1 | |
| | Sulfentrazone | 66.1 | 65.4 | 74.1 | | 12.5 | |
| | Tebuconazole | 20.3 | 31.4 | 31.1 | | 0.832 | |
| | Terbufos | 95.1 | 89.1 | 90.1 | | 1.08 | |
| | Terbutylazine | 62.0 | 60.4 | 70.3 | | 15.1 | |
| | Tetradecachloro-m-terphenyl | 189 | 114 | 123 | | 7.49 | |
| | Thiobencarb | 70.3 | 74.5 | 71.6 | | 3.96 | |
| | Tri-o-cresyl Phosphate | 117 | 98.7 | 110 | | 10.6 | |
| | Triadimefon | 65.2 | 70.8 | 77.3 | | 8.76 | |
| | Tris(1-chloro-2-propyl) phosphate (TCPP) | 133 | 115 | 131 | | 12.5 | |
| | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 118 | 104 | 119 | | 13.3 | |
| | Tris(2-chloroethyl) phosphate (TCEP) | 136 | 121 | 143 | | 16.3 | |
| | EPA 8321B | 2,4-D | 159 | | | | 2.47 |
| | | 2,4,5-T | 139 | 116 | 126 | | 8.17 |
| | | Acesulfame K | 101 | 105 | 107 | | 1.59 |
| Acetaminophen | | 94.6 | 83.4 | 86.5 | | 3.59 | |
| Acetamiprid | | 92.9 | 29.1 | 62.2 | | 72.5 | |
| Afidopyropen | | 81.9 | 25.3 | 69.9 | | 93.7 | |
| AMPA | | 101 | 108 | 104 | | 2.70 | |
| Bentazon | | 105 | 53.3 | 73.1 | | 13.2 | |
| Benzovindiflupyr | | 77.7 | 67.1 | 71.8 | | 6.84 | |
| Carbamazepine | | 88.5 | 61.3 | 66.5 | | 8.16 | |
| Clothianidin | | 94.5 | 91.6 | 94.0 | | 2.61 | |
| Dinotefuran | | 94.2 | 88.2 | 95.7 | | 8.13 | |
| Diuron | | 72.8 | 48.1 | 49.9 | | 3.63 | |
| Endothall | | 98.4 | 111 | 107 | | 3.47 | |
| Fenuron | | 94.9 | 71.5 | 76.0 | | 6.05 | |
| Fluridone | | 86.3 | 68.1 | 77.0 | | 8.53 | |
| Glufosinate | | 99.6 | 103 | 97.7 | | 4.82 | |
| Glyphosate | | 98.5 | 108 | 105 | | 1.62 | |
| Hydrocodone | | 93.7 | 79.5 | 89.0 | | 11.3 | |
| Ibuprofen | | 100 | 81.0 | 84.9 | | 4.69 | |
| Imazapyr | | 110 | | | | 8.99 | |
| Imidacloprid | | 98.3 | 126 | 138 | | 8.79 | |
| Linuron | | 59.2 | 48.1 | 49.8 | | 3.41 | |

Quality Assurance Report Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | MS |
|-------------------|------------------|----------------|---------------|------|-----------|------|-------|
| | | | | | LCS | SMP | |
| EPA 8321B | Mandestrobin | 83.2 | 60.3 | 74.6 | | | 21.2 |
| | MCCP | 148 | 124 | 142 | | | 14.0 |
| | Naproxen | 96.1 | 97.2 | 90.9 | | | 6.74 |
| | Primidone | 89.8 | 99.1 | 105 | | | 5.81 |
| | Pyraclostrobin | 73.8 | 64.3 | 71.7 | | | 10.8 |
| | Silvex | 103 | 92.1 | 99.3 | | | 7.53 |
| | Sucralose | 98.5 | 103 | 94.6 | | | 6.82 |
| | Thiamethoxam | 94.3 | 99.0 | 106 | | | 6.99 |
| | Tolfenpyrad | 50.7 | 50.9 | 53.3 | | | 4.48 |
| | Triclopyr | 132 | 106 | 123 | | | 14.3 |
| SM 2320 B-2011 | Total Alkalinity | 97.7 | | | | 2.46 | |
| SM 2540 C-2015 | TDS | 93.2 | | | | 7.96 | |
| SM 2540 D-2015 | TSS | 105 | | | | 4.26 | |
| SM 4500-F- C-2011 | Fluoride | 97.8 | 97.1 | 97.1 | | | 0.0 |
| SM 5310 B-2014 | Organic Carbon | 98.8 | 99.8 | 98.9 | | | 0.628 |

Reference Method Descriptions

| Method | Description | Associated Samples |
|--------------------|---|--------------------|
| DEP SOP: NU-094-1 | True Color measured at 450 nm (not valid for NPDES monitoring) | 2598649 |
| EPA 180.1 Rev. 2.0 | Turbidity in aqueous matrices | 2598649 |
| EPA 200.7 Rev. 4.4 | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2598654 |
| EPA 200.8 Rev. 5.4 | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects | 2598654 |
| EPA 300.0 Rev. 2.1 | Chloride in aqueous matrices | 2598649 |
| EPA 300.0 Rev. 2.1 | Sulfate in aqueous matrices | 2598649 |
| EPA 350.1 Rev. 2.0 | Ammonia in aqueous matrices as mg N/L | 2598650 |
| EPA 351.2 Rev. 2.0 | Total Kjeldahl Nitrogen in aqueous matrices | 2598650 |
| EPA 353.2 Rev. 2.0 | Nitrite/Nitrate in aqueous matrices as mg N/L | 2598650 |
| EPA 365.1 Rev. 2.0 | Total Phosphorus in aqueous matrices as mg P/L | 2598650 |
| EPA 8270E | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM | 2598655 |
| EPA 8270E | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS | 2598655 |
| EPA 8321B | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS | 2598653 |
| SM 2320 B-2011 | Alkalinity in aqueous matrices as mg CaCO ₃ /L | 2598649 |
| SM 2340 B-2011 | Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃ | 2598654 |
| SM 2540 C-2015 | Total Dissolved Solids in aqueous matrices | 2598649 |
| SM 2540 D-2015 | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample | 2598649 |
| SM 4500-F- C-2011 | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2598649 |
| SM 5310 B-2014 | Nonpurgeable Organic Carbon in aqueous matrices | 2598650 |

Preparation and Analysis Log

| Ref. Method | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By | Associated Samples |
|--------------------|---------------|------------------|------------------|--------------------|----------------------------|--------------------|
| DEP SOP: NU-094-1 | 10/29/2025 | | | 10/29/2025 13:20 | Meghan Dawn Lynch | 2598649 |
| EPA 180.1 Rev. 2.0 | 10/29/2025 | | | 10/29/2025 13:36 | Ping Hua | 2598649 |
| EPA 200.7 Rev. 4.4 | 10/29/2025 | 10/30/2025 11:10 | Robert Burke | 10/31/2025 18:30 | McKinley C Carter | 2598654 |
| EPA 200.8 Rev. 5.4 | 10/29/2025 | 10/30/2025 11:10 | Robert Burke | 10/31/2025 19:59 | Harley Beach | 2598654 |
| EPA 300.0 Rev. 2.1 | 10/29/2025 | | | 11/13/2025 01:01 | James L Waggerby | 2598649 |
| EPA 350.1 Rev. 2.0 | 10/29/2025 | | | 11/12/2025 12:13 | Kelley L Breeden | 2598650 |
| EPA 351.2 Rev. 2.0 | 10/29/2025 | 10/31/2025 12:19 | Fadila Guebre | 11/03/2025 14:34 | Simonne.V. Calhoun | 2598650 |
| EPA 353.2 Rev. 2.0 | 10/29/2025 | | | 11/05/2025 12:46 | Yeshiemebet E Asebe Petros | 2598650 |
| EPA 365.1 Rev. 2.0 | 10/29/2025 | 11/05/2025 12:39 | James L Waggerby | 11/06/2025 11:52 | Jessica K Wilks | 2598650 |
| EPA 8270E | 10/29/2025 | 10/30/2025 11:00 | Fe-Val Siddell | 11/06/2025 21:12 | Arthur Maknenko | 2598655 |
| | 10/29/2025 | 10/30/2025 11:00 | Fe-Val Siddell | 11/07/2025 21:25 | Vandana T. Nagar | 2598655 |
| EPA 8321B | 10/29/2025 | 10/30/2025 13:00 | Hoor Shaik | 10/31/2025 20:42 | Juyoung Kim | 2598653 |
| | 10/29/2025 | 10/30/2025 14:00 | Hana Lee | 10/31/2025 02:03 | Hana Lee | 2598653 |
| | 10/29/2025 | 10/30/2025 14:00 | Hana Lee | 10/31/2025 11:53 | Hana Lee | 2598653 |
| SM 2320 B-2011 | 10/29/2025 | | | 11/04/2025 07:08 | Meghan Dawn Lynch | 2598649 |
| SM 2340 B-2011 | 10/29/2025 | | | 10/31/2025 18:30 | McKinley C Carter | 2598654 |
| SM 2540 C-2015 | 10/29/2025 | | | 10/31/2025 13:36 | Yijie Li | 2598649 |
| SM 2540 D-2015 | 10/29/2025 | | | 10/31/2025 13:36 | Yijie Li | 2598649 |
| SM 4500-F- C-2011 | 10/29/2025 | | | 11/04/2025 07:08 | Meghan Dawn Lynch | 2598649 |
| SM 5310 B-2014 | 10/29/2025 | | | 11/11/2025 02:12 | Julia Sheridan | 2598650 |