

## Chemical Analysis Report

**SO-DIST-2021-07-16-02**

Florida Department of Environmental Protection  
Central Laboratory  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
DOH Accreditation E31780

Event Description: **2021 SMP: Lee Coastal**  
Request ID: **RQ-2021-07-12-49**  
Customer: **SO-DIST**  
Project ID: **SMP**

Send Reports to:  
FL Dept. of Environmental Protection  
FLDEP South District Office  
2295 Victoria Ave. Suite 364  
Fort Myers, FL 33901-3381  
Attn: William Mullen

For additional information please contact  
Colin Wright, Ph.D.  
Liang-Tsair Lin, Ph.D.  
Kerry Tate, Ph.D.  
Dr. rer. nat. Bettina Steinbock  
Thekkekalathil Chandrasekhar, Ph.D, QA Officer  
Phone (850) 245-8085

Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-AUG-2021 11:07

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

**NON-CONFORMANCE REPORT INCLUDED**

## 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: 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  $1.3 \times 10^3$  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: Imperial River near US 41

Collection Date/Time: 07/14/2021 10:15

Field ID: G1SD0057

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result  | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|---------|------|-------|----------|----------|
| 2262638   | EPA 8321B   | 2,4-D            | 0.010   |      | ug/L  | P401065  |          |
|           |             | Acesulfame K     | 0.10    | U    | ug/L  | P400997  |          |
|           |             | 2,4,5-T          | 0.0040  | U    | ug/L  | P401065  |          |
|           |             | AMPA             | 0.18    | I    | ug/L  | P400997  |          |
|           |             | Acetaminophen    | 0.0080  | U    | ug/L  | P401065  |          |
|           |             | Acetamiprid      | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Endothall        | 0.25    | U    | ug/L  | P400997  |          |
|           |             | Glufosinate      | 0.10    | U    | ug/L  | P400997  |          |
|           |             | Glyphosate       | 0.23    | I    | ug/L  | P400997  |          |
|           |             | Afidopyropen     | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Bentazon         | 0.033   |      | ug/L  | P401065  |          |
|           |             | Sucralose        | 0.16    |      | ug/L  | P400997  |          |
|           |             | Benzovindiflupyr | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Carbamazepine    | 8.0E-04 | U    | ug/L  | P401065  |          |
|           |             | Clothianidin     | 0.0021  | I    | ug/L  | P401065  |          |
|           |             | Dinotefuran      | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Diuron           | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Fenuron          | 0.016   | U    | ug/L  | P401065  |          |
|           |             | Fluridone        | 0.028   |      | ug/L  | P401065  |          |
|           |             | Imazapyr         | 0.75    |      | ug/L  | P401065  |          |
|           |             | Hydrocodone      | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Ibuprofen        | 0.020   | U    | ug/L  | P401065  |          |
|           |             | Imidacloprid     | 0.020   |      | ug/L  | P401065  |          |
|           |             | Linuron          | 0.0040  | U    | ug/L  | P401065  |          |
|           |             | Mandestrobin     | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | MCPP             | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Naproxen         | 0.0080  | U    | ug/L  | P401065  |          |
|           |             | Primidone        | 0.0040  | U    | ug/L  | P401065  |          |
|           |             | Pyraclostrobin   | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Thiamethoxam     | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Tolfenpyrad      | 0.0020  | U    | ug/L  | P401065  |          |
|           |             | Triclopyr        | 0.0040  | U    | ug/L  | P401065  |          |

Ref. Method and Comment:

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

**Sample Location: Punta Rassa Cove**

**Collection Date/Time: 07/14/2021 08:50**

**Field ID: G2SD0047**

**Matrix: W-SURF-SLT**

| Sample ID | Ref. Method        | Component         | Result | Code | Units  | Batch ID | QC Codes |
|-----------|--------------------|-------------------|--------|------|--------|----------|----------|
| 2262640   | SM 2540 D-2011     | TSS               | 3      | UA   | mg/L   | P401567  |          |
|           | SM 4500 F-C-2011   | Fluoride          | 0.87   |      | mg F/L | P401352  |          |
| 2262641   | EPA 350.1 Rev. 2.0 | Ammonia-N         | 0.021  |      | mg N/L | P401329  |          |
|           | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 0.48   |      | mg N/L | P402202  | MS       |
|           | EPA 353.2 Rev. 2.0 | NO2NO3-N          | 0.009  | I    | mg N/L | P401293  |          |
|           | EPA 365.1 Rev. 2.0 | Total-P           | 0.049  |      | mg P/L | P401641  |          |
|           | SM 5310 B-2011     | Organic Carbon    | 6.6    |      | mg C/L | P401624  |          |

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: Estero River @ Preserve

Collection Date/Time: 07/14/2021 11:20

Field ID: G1SD0104

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|--------|------|-------|----------|----------|
| 2262639   | EPA 8321B   | 2,4-D            | 0.0081 |      | ug/L  | P401065  |          |
|           |             | Acesulfame K     | 0.10   | U    | ug/L  | P400997  |          |
|           |             | 2,4,5-T          | 0.0040 | U    | ug/L  | P401065  |          |
|           |             | AMPA             | 0.10   | U    | ug/L  | P400997  |          |
|           |             | Acetaminophen    | 0.017  | I    | ug/L  | P401065  |          |
|           |             | Acetamiprid      | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Endothall        | 0.25   | U    | ug/L  | P400997  |          |
|           |             | Glufosinate      | 0.10   | U    | ug/L  | P400997  |          |
|           |             | Glyphosate       | 0.22   | I    | ug/L  | P400997  |          |
|           |             | Afidopyropen     | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Bentazon         | 0.19   |      | ug/L  | P401065  |          |
|           |             | Sucralose        | 0.92   |      | ug/L  | P400997  |          |
|           |             | Benzovindiflupyr | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Carbamazepine    | 0.0016 | I    | ug/L  | P401065  |          |
|           |             | Clothianidin     | 0.0068 | I    | ug/L  | P401065  |          |
|           |             | Dinotefuran      | 0.0021 | I    | ug/L  | P401065  |          |
|           |             | Diuron           | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Fenuron          | 0.016  | U    | ug/L  | P401065  |          |
|           |             | Fluridone        | 0.29   |      | ug/L  | P401065  |          |
|           |             | Imazapyr         | 0.52   |      | ug/L  | P401065  |          |
|           |             | Hydrocodone      | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Ibuprofen        | 0.020  | U    | ug/L  | P401065  |          |
|           |             | Imidacloprid     | 0.018  |      | ug/L  | P401065  |          |
|           |             | Linuron          | 0.0040 | U    | ug/L  | P401065  |          |
|           |             | Mandestrobin     | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | MCPP             | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Naproxen         | 0.0080 | U    | ug/L  | P401065  |          |
|           |             | Primidone        | 0.0072 | I    | ug/L  | P401065  |          |
|           |             | Pyraclostrobin   | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Thiamethoxam     | 0.0027 | I    | ug/L  | P401065  |          |
|           |             | Tolfenpyrad      | 0.0020 | U    | ug/L  | P401065  |          |
|           |             | Triclopyr        | 0.0040 | U    | ug/L  | P401065  |          |

Ref. Method and Comment:

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

## Non-Conformance Report

**NCR ID: 8941**

**Event(s)**

SO-DIST-2021-07-16-02

**Job(s)**

**Sample(s)**

**Test(s)**

**NCR Type: SHIPPING/RECEIVING**

**NCR Category: Samples arrived late**

Observation: Samples arrived late, samples received within the acceptable temperature range.

Resolution: Samples will be qualified as appropriate.

Customer contacted, email correspondence attached to sample submittal forms.

Biology and Chemistry supervisors were notified by email.

Samples logged in according to SMP Protocol

Authorized by/Date: Joshua Ayres 7/19/2021

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The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.  
Please address questions to:

|           |                |                |
|-----------|----------------|----------------|
| Chemistry | Colin Wright   | (850) 245-8085 |
| Biology   | Cheryl Swanson | (850) 245-8177 |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P401329

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P402202

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P401293

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| NO2NO3-N  | 0.004  | U    | mg N/L |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P401641

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

Reference Method: EPA 8321B  
Batch ID: P400997

| 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: P401065

| 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          | 0.016   | U    | ug/L  |
| Fluridone        | 8.0E-04 | U    | ug/L  |
| Hydrocodone      | 0.0020  | U    | ug/L  |
| Ibuprofen        | 0.020   | U    | ug/L  |
| Imazapyr         | 0.0040  | U    | ug/L  |
| Imidacloprid     | 0.0020  | U    | ug/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B

Batch ID: P401065

| Component      | Result | Code | Units |
|----------------|--------|------|-------|
| Linuron        | 0.0040 | 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  |
| Thiamethoxam   | 0.0020 | U    | ug/L  |
| Tolfenpyrad    | 0.0020 | U    | ug/L  |
| Triclopyr      | 0.0040 | U    | ug/L  |

Reference Method: SM 2540 D-2011

Batch ID: P401567

| Component | Result | Code | Units |
|-----------|--------|------|-------|
| TSS       | 3      | U    | mg/L  |

Reference Method: SM 4500 F-C-2011

Batch ID: P401352

| Component | Result | Code | Units  |
|-----------|--------|------|--------|
| Fluoride  | 0.035  | U    | mg F/L |

Reference Method: SM 5310 B-2011

Batch ID: P401624

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

## Quality Assurance Report

### Laboratory Control Sample Accuracy

**Reference Method:** EPA 350.1 Rev. 2.0  
**Batch ID:** P401329

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

**Reference Method:** EPA 351.2 Rev. 2.0  
**Batch ID:** P402202

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 101     |         | P         | 90 - 110       |

**Reference Method:** EPA 353.2 Rev. 2.0  
**Batch ID:** P401293

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 99.5    |         | P         | 90 - 110       |

**Reference Method:** EPA 365.1 Rev. 2.0  
**Batch ID:** P401641

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Total-P   | 106     |         | P         | 90 - 110       |

**Reference Method:** EPA 8321B  
**Batch ID:** P400997

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 102     |         | P         | 40 - 150       |
| AMPA         | 98.8    |         | P         | 40 - 150       |
| Endothall    | 90.2    |         | P         | 40 - 150       |
| Glufosinate  | 98.8    |         | P         | 40 - 150       |
| Glyphosate   | 102     |         | P         | 40 - 150       |
| Sucralose    | 96.9    |         | P         | 40 - 150       |

**Reference Method:** EPA 8321B  
**Batch ID:** P401065

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| 2,4-D            | 125     |         | P         | 30 - 160       |
| 2,4,5-T          | 117     |         | P         | 30 - 160       |
| Acetaminophen    | 91.8    |         | P         | 30 - 160       |
| Acetamiprid      | 90.4    |         | P         | 30 - 160       |
| Afidopyropen     | 76.1    |         | P         | 30 - 160       |
| Bentazon         | 105     |         | P         | 30 - 160       |
| Benzovindiflupyr | 93.8    |         | P         | 30 - 160       |
| Carbamazepine    | 98.6    |         | P         | 30 - 160       |
| Clothianidin     | 98.7    |         | P         | 30 - 160       |
| Dinotefuran      | 100     |         | P         | 30 - 160       |
| Diuron           | 88.3    |         | P         | 30 - 160       |
| Fenuron          | 102     |         | P         | 30 - 160       |
| Fluridone        | 95.7    |         | P         | 30 - 160       |
| Hydrocodone      | 99.7    |         | P         | 30 - 160       |
| Ibuprofen        | 93.1    |         | P         | 30 - 160       |
| Imazapyr         | 107     |         | P         | 30 - 160       |
| Imidacloprid     | 99.9    |         | P         | 30 - 160       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P401065

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Linuron        | 82.8    |         | P         | 30 - 160       |
| Mandestrobin   | 99.8    |         | P         | 30 - 160       |
| MCPP           | 119     |         | P         | 30 - 160       |
| Naproxen       | 80.9    |         | P         | 30 - 160       |
| Primidone      | 95.3    |         | P         | 30 - 160       |
| Pyraclostrobin | 90.5    |         | P         | 30 - 160       |
| Thiamethoxam   | 102     |         | P         | 30 - 160       |
| Tolfenpyrad    | 52.5    |         | P         | 30 - 160       |
| Triclopyr      | 119     |         | P         | 30 - 160       |

Reference Method: SM 4500 F-C-2011

Batch ID: P401352

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 101     |         | P         | 93 - 104       |

Reference Method: SM 5310 B-2011

Batch ID: P401624

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Organic Carbon | 98.6    |         | P         | 85 - 115       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P401329

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2262641       | Ammonia-N | 103     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P402202

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2262702       | Kjeldahl Nitrogen | 113     | 102     | F/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P401293

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2262641       | NO2NO3-N  | 100     | 99.6    | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P401641

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2263383       | Total-P   | 102     | 99.8    | P/P       | 90 - 110       |

Reference Method: EPA 8321B  
Batch ID: P400997

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2262210       | Acesulfame K | 128     | 131     | P/P       | 40 - 150       |
| 2262210       | AMPA         | 66.7    | 70.9    | P/P       | 40 - 150       |
| 2262210       | Endothall    | 111     | 115     | P/P       | 40 - 150       |
| 2262210       | Glufosinate  | 79.3    | 80.3    | P/P       | 40 - 150       |
| 2262210       | Glyphosate   | 68.4    | 67.3    | P/P       | 40 - 150       |
| 2262210       | Sucralose    | 104     | 100     | P/P       | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P401065

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2262208       | 2,4-D            | 111     | 118     | P/P       | 30 - 160       |
| 2262208       | 2,4,5-T          | 99.6    | 102     | P/P       | 30 - 160       |
| 2262208       | Acetaminophen    | 102     | 107     | P/P       | 30 - 160       |
| 2262208       | Acetamiprid      | 84.0    | 92.5    | P/P       | 30 - 160       |
| 2262208       | Afidopyropen     | 61.9    | 70.1    | P/P       | 30 - 160       |
| 2262208       | Benzovindiflupyr | 84.6    | 85.5    | P/P       | 30 - 160       |
| 2262208       | Carbamazepine    | 89.1    | 83.0    | P/P       | 30 - 160       |
| 2262208       | Clothianidin     | 107     | 112     | P/P       | 30 - 160       |
| 2262208       | Dinotefuran      | 124     | 128     | P/P       | 30 - 160       |
| 2262208       | Diuron           | 72.3    | 70.6    | P/P       | 30 - 160       |
| 2262208       | Fenuron          | 97.2    | 94.3    | P/P       | 30 - 160       |
| 2262208       | Fluridone        | 79.7    | 80.1    | P/P       | 30 - 160       |
| 2262208       | Hydrocodone      | 113     | 112     | P/P       | 30 - 160       |
| 2262208       | Ibuprofen        | 71.6    | 74.8    | P/P       | 30 - 160       |
| 2262208       | Imidacloprid     | 145     | 151     | P/P       | 30 - 160       |
| 2262208       | Linuron          | 68.0    | 68.0    | P/P       | 30 - 160       |
| 2262208       | Mandestrobin     | 88.2    | 87.7    | P/P       | 30 - 160       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P401065

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2262208       | MCP            | 99.5    | 104     | P/P       | 30 - 160       |
| 2262208       | Naproxen       | 71.1    | 75.8    | P/P       | 30 - 160       |
| 2262208       | Primidone      | 104     | 103     | P/P       | 30 - 160       |
| 2262208       | Pyraclostrobin | 85.3    | 87.4    | P/P       | 30 - 160       |
| 2262208       | Thiamethoxam   | 141     | 147     | P/P       | 30 - 160       |
| 2262208       | Tolfenpyrad    | 52.0    | 52.0    | P/P       | 30 - 160       |
| 2262208       | Triclopyr      | 100     | 103     | P/P       | 30 - 160       |

Reference Method: SM 4500 F-C-2011  
Batch ID: P401352

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2262366       | Fluoride  | 102     | 101     | P/P       | 92 - 107       |

Reference Method: SM 5310 B-2011  
Batch ID: P401624

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2263489       | Organic Carbon | 97.3    | 98.0    | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P401329

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2262641                  | Ammonia-N | 0.693     | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P402202

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2262702                  | Kjeldahl Nitrogen | 8.24      | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P401293

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2262641                  | NO2NO3-N  | 0.480     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P401641

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2263383                  | Total-P   | 1.55      | Spike             | P         | 0 - 20         |

Reference Method: EPA 8321B  
Batch ID: P400997

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2262210                  | Acesulfame K | 2.31      | Spike             | P         | 0 - 30         |
| 2262210                  | AMPA         | 2.15      | Spike             | P         | 0 - 30         |
| 2262210                  | Endothall    | 3.85      | Spike             | P         | 0 - 30         |
| 2262210                  | Glufosinate  | 1.28      | Spike             | P         | 0 - 30         |
| 2262210                  | Glyphosate   | 0.513     | Spike             | P         | 0 - 30         |
| 2262210                  | Sucralose    | 3.01      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P401065

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2262208                  | 2,4-D            | 4.85      | Spike             | P         | 0 - 30         |
| 2262208                  | 2,4,5-T          | 2.58      | Spike             | P         | 0 - 30         |
| 2262208                  | Acetaminophen    | 4.50      | Spike             | P         | 0 - 30         |
| 2262208                  | Acetamiprid      | 9.67      | Spike             | P         | 0 - 30         |
| 2262208                  | Afidopyropen     | 12.5      | Spike             | P         | 0 - 30         |
| 2262208                  | Bentazon         | 12.0      | Spike             | P         | 0 - 30         |
| 2262208                  | Benzovindiflupyr | 1.03      | Spike             | P         | 0 - 30         |
| 2262208                  | Carbamazepine    | 7.12      | Spike             | P         | 0 - 30         |
| 2262208                  | Clothianidin     | 4.16      | Spike             | P         | 0 - 30         |
| 2262208                  | Dinotefuran      | 3.03      | Spike             | P         | 0 - 30         |
| 2262208                  | Diuron           | 2.18      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8321B

Batch ID: P401065

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2262208                  | Fenuron        | 3.02      | Spike             | P         | 0 - 30         |
| 2262208                  | Fluridone      | 0.465     | Spike             | P         | 0 - 30         |
| 2262208                  | Hydrocodone    | 1.20      | Spike             | P         | 0 - 30         |
| 2262208                  | Ibuprofen      | 4.39      | Spike             | P         | 0 - 30         |
| 2262208                  | Imazapyr       | 12.7      | Spike             | P         | 0 - 30         |
| 2262208                  | Imidacloprid   | 3.93      | Spike             | P         | 0 - 30         |
| 2262208                  | Linuron        | 0.0942    | Spike             | P         | 0 - 30         |
| 2262208                  | Mandestrobin   | 0.527     | Spike             | P         | 0 - 30         |
| 2262208                  | MCCP           | 4.68      | Spike             | P         | 0 - 30         |
| 2262208                  | Naproxen       | 6.38      | Spike             | P         | 0 - 30         |
| 2262208                  | Primidone      | 1.08      | Spike             | P         | 0 - 30         |
| 2262208                  | Pyraclostrobin | 2.47      | Spike             | P         | 0 - 30         |
| 2262208                  | Thiamethoxam   | 3.93      | Spike             | P         | 0 - 30         |
| 2262208                  | Tolfenpyrad    | 0.112     | Spike             | P         | 0 - 30         |
| 2262208                  | Triclopyr      | 3.12      | Spike             | P         | 0 - 30         |

Reference Method: SM 4500 F-C-2011

Batch ID: P401352

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2262366                  | Fluoride  | 0.499     | Spike             | P         | 0 - 2.1        |

Reference Method: SM 5310 B-2011

Batch ID: P401624

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2263489                  | Organic Carbon | 0.646     | Spike             | P         | 0 - 20         |

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

## Quality Assurance Report Surrogates

Lab Sample ID: 2262638

Field Sample ID: G1SD0057

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 114    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 106    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 90.8   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 70.5   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 109    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 52.8   | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 80.1   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 107    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 138    | P         | 30 - 160       |

Lab Sample ID: 2262639

Field Sample ID: G1SD0104

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 110    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 104    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 97.7   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 75.3   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 108    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 33.5   | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 81.9   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 109    | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 104    | P         | 30 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A106658

Included Lab Sample IDs: 2262638, 2262639

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA        | 103     | 104     | P/P        | 60 - 160       |
| Glufosinate | 101     | 101     | P/P        | 60 - 160       |
| Glyphosate  | 102     | 105     | P/P        | 60 - 160       |

Reference Method: EPA 8321B

Run ID: A106673

Included Lab Sample IDs: 2262638, 2262639

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 108     | 105     | P/P        | 60 - 160       |
| Endothall    | 95.4    | 94.7    | P/P        | 60 - 160       |
| Sucralose    | 95.7    | 126     | P/P        | 60 - 160       |

Reference Method: EPA 8321B

Run ID: A106699

Included Lab Sample IDs: 2262638, 2262639

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| 2,4-D            | 102     | 99.0    | P/P        | 50 - 150       |
| 2,4,5-T          | 108     | 106     | P/P        | 50 - 150       |
| Acetaminophen    | 102     | 103     | P/P        | 60 - 160       |
| Acetamiprid      | 102     | 104     | P/P        | 50 - 150       |
| Afidopyropen     | 109     | 108     | P/P        | 50 - 150       |
| Bentazon         | 115     | 119     | P/P        | 50 - 160       |
| Bentazon         | 119     | 114     | P/P        | 50 - 160       |
| Benzovindiflupyr | 109     | 107     | P/P        | 50 - 160       |
| Carbamazepine    | 106     | 106     | P/P        | 60 - 150       |
| Clothianidin     | 104     | 102     | P/P        | 60 - 150       |
| Dinotefuran      | 106     | 109     | P/P        | 50 - 150       |
| Diuron           | 112     | 114     | P/P        | 60 - 160       |
| Fenuron          | 106     | 109     | P/P        | 60 - 150       |
| Fluridone        | 106     | 106     | P/P        | 60 - 160       |
| Fluridone        | 106     | 106     | P/P        | 60 - 160       |
| Hydrocodone      | 107     | 108     | P/P        | 60 - 150       |
| Ibuprofen        | 111     | 95.1    | P/P        | 50 - 160       |
| Imazapyr         | 103     | 106     | P/P        | 50 - 160       |
| Imazapyr         | 106     | 99.3    | P/P        | 50 - 160       |
| Imidacloprid     | 101     | 102     | P/P        | 60 - 150       |
| Linuron          | 106     | 106     | P/P        | 60 - 150       |
| Mandestrobin     | 110     | 111     | P/P        | 50 - 150       |
| MCPP             | 105     | 106     | P/P        | 50 - 150       |
| Naproxen         | 98.4    | 91.6    | P/P        | 50 - 160       |
| Primidone        | 99.9    | 100     | P/P        | 60 - 150       |
| Pyraclostrobin   | 113     | 112     | P/P        | 60 - 150       |
| Thiamethoxam     | 108     | 104     | P/P        | 50 - 150       |
| Tolfenpyrad      | 104     | 103     | P/P        | 60 - 150       |
| Triclopyr        | 107     | 103     | P/P        | 50 - 150       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A106736

Included Lab Sample IDs: 2262641

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A106749

Included Lab Sample IDs: 2262641

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Ammonia-N | 99.4    | 99.5    | P/P        | 90 - 110       |

Reference Method: SM 4500 F-C-2011

Run ID: A106753

Included Lab Sample IDs: 2262640

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

Reference Method: SM 5310 B-2011

Run ID: A106870

Included Lab Sample IDs: 2262641

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A106942

Included Lab Sample IDs: 2262641

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Total-P   | 100     | 98.8    | P/P        | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A107147

Included Lab Sample IDs: 2262641

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 97.2    | 98.9    | P/P        | 90 - 110       |

\* 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 |      | LCS | Precision | MS     |
|--------------------|------------------------------------|----------------|---------------|------|-----|-----------|--------|
|                    |                                    |                |               |      |     | SMP       |        |
| EPA 350.1 Rev. 2.0 | Ammonia-N                          | 102            | 103           | 102  |     |           | 0.693  |
| EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen                  | 101            | 113           | 102  |     |           | 8.24   |
| EPA 353.2 Rev. 2.0 | NO <sub>2</sub> NO <sub>3</sub> -N | 99.5           | 100           | 99.6 |     |           | 0.480  |
| EPA 365.1 Rev. 2.0 | Total-P                            | 106            | 102           | 99.8 |     |           | 1.55   |
| EPA 8321B          | 2,4-D                              | 125            | 111           | 118  |     |           | 4.85   |
|                    | 2,4,5-T                            | 117            | 99.6          | 102  |     |           | 2.58   |
|                    | Acesulfame K                       | 102            | 128           | 131  |     |           | 2.31   |
|                    | Acetaminophen                      | 91.8           | 102           | 107  |     |           | 4.50   |
|                    | Acetamiprid                        | 90.4           | 84.0          | 92.5 |     |           | 9.67   |
|                    | Afidopyropen                       | 76.1           | 61.9          | 70.1 |     |           | 12.5   |
|                    | AMPA                               | 98.8           | 66.7          | 70.9 |     |           | 2.15   |
|                    | Bentazon                           | 105            |               |      |     |           | 12.0   |
|                    | Benzovindiflupyr                   | 93.8           | 84.6          | 85.5 |     |           | 1.03   |
|                    | Carbamazepine                      | 98.6           | 89.1          | 83.0 |     |           | 7.12   |
|                    | Clothianidin                       | 98.7           | 107           | 112  |     |           | 4.16   |
|                    | Dinotefuran                        | 100            | 124           | 128  |     |           | 3.03   |
|                    | Diuron                             | 88.3           | 72.3          | 70.6 |     |           | 2.18   |
|                    | Endothall                          | 90.2           | 111           | 115  |     |           | 3.85   |
|                    | Fenuron                            | 102            | 97.2          | 94.3 |     |           | 3.02   |
|                    | Fluridone                          | 95.7           | 79.7          | 80.1 |     |           | 0.465  |
|                    | Glufosinate                        | 98.8           | 79.3          | 80.3 |     |           | 1.28   |
|                    | Glyphosate                         | 102            | 68.4          | 67.3 |     |           | 0.513  |
|                    | Hydrocodone                        | 99.7           | 113           | 112  |     |           | 1.20   |
|                    | Ibuprofen                          | 93.1           | 71.6          | 74.8 |     |           | 4.39   |
|                    | Imazapyr                           | 107            |               |      |     |           | 12.7   |
|                    | Imidacloprid                       | 99.9           | 145           | 151  |     |           | 3.93   |
|                    | Linuron                            | 82.8           | 68.0          | 68.0 |     |           | 0.0942 |
|                    | Mandestrobin                       | 99.8           | 88.2          | 87.7 |     |           | 0.527  |
|                    | MCPP                               | 119            | 99.5          | 104  |     |           | 4.68   |
|                    | Naproxen                           | 80.9           | 71.1          | 75.8 |     |           | 6.38   |
|                    | Primidone                          | 95.3           | 104           | 103  |     |           | 1.08   |
|                    | Pyraclostrobin                     | 90.5           | 85.3          | 87.4 |     |           | 2.47   |
|                    | Sucralose                          | 96.9           | 104           | 100  |     |           | 3.01   |
|                    | Thiamethoxam                       | 102            | 141           | 147  |     |           | 3.93   |
|                    | Tolfenpyrad                        | 52.5           | 52.0          | 52.0 |     |           | 0.112  |
|                    | Triclopyr                          | 119            | 100           | 103  |     |           | 3.12   |
| SM 4500 F-C-2011   | Fluoride                           | 101            | 102           | 101  |     |           | 0.499  |
| SM 5310 B-2011     | Organic Carbon                     | 98.6           | 97.3          | 98.0 |     |           | 0.646  |

## Reference Method Descriptions

| Method             | Description                                                                         | Associated Samples |
|--------------------|-------------------------------------------------------------------------------------|--------------------|
| EPA 350.1 Rev. 2.0 | Ammonia in aqueous matrices as mg N/L                                               | 2262641            |
| EPA 351.2 Rev. 2.0 | Total Kjeldahl Nitrogen in aqueous matrices                                         | 2262641            |
| EPA 353.2 Rev. 2.0 | Nitrite/Nitrate in aqueous matrices as mg N/L                                       | 2262641            |
| EPA 365.1 Rev. 2.0 | Total Phosphorus in aqueous matrices as mg P/L                                      | 2262641            |
| EPA 8321B          | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS         | 2262638, 2262639   |
| SM 2540 D-2011     | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample      | 2262640            |
| SM 4500 F-C-2011   | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2262640            |
| SM 5310 B-2011     | Nonpurgeable Organic Carbon in aqueous matrices                                     | 2262641            |

## Preparation and Analysis Log

| Ref. Method        | Received Date | Prep Date/Time   | Prepared By          | Analysis Date/Time | Analyzed By        | Associated Samples |
|--------------------|---------------|------------------|----------------------|--------------------|--------------------|--------------------|
| EPA 350.1 Rev. 2.0 | 07/16/2021    |                  |                      | 07/21/2021 15:52   | Ping Hua           | 2262641            |
| EPA 351.2 Rev. 2.0 | 07/16/2021    | 08/09/2021 13:43 | Benjamin T. Nordmann | 08/10/2021 11:59   | Virginia P. Brown  | 2262641            |
| EPA 353.2 Rev. 2.0 | 07/16/2021    |                  |                      | 07/21/2021 12:07   | Beverly Y. Sanders | 2262641            |
| EPA 365.1 Rev. 2.0 | 07/16/2021    | 07/29/2021 12:32 | Simonne.V. Calhoun   | 07/30/2021 12:07   | Shengyu Ding       | 2262641            |
| EPA 8321B          | 07/16/2021    | 07/16/2021 12:30 | Pramila Ghimire      | 07/16/2021 12:45   | Juyoung Kim        | 2262638            |
|                    | 07/16/2021    | 07/16/2021 12:30 | Pramila Ghimire      | 07/16/2021 12:56   | Juyoung Kim        | 2262639            |
|                    | 07/16/2021    | 07/16/2021 12:30 | Pramila Ghimire      | 07/17/2021 02:24   | Pramila Ghimire    | 2262638            |
|                    | 07/16/2021    | 07/16/2021 12:30 | Pramila Ghimire      | 07/17/2021 02:38   | Pramila Ghimire    | 2262639            |
|                    | 07/16/2021    | 07/19/2021 09:00 | Hoor Shaik           | 07/20/2021 12:55   | Juyoung Kim        | 2262638            |
|                    | 07/16/2021    | 07/19/2021 09:00 | Hoor Shaik           | 07/20/2021 13:30   | Juyoung Kim        | 2262639            |
|                    | 07/16/2021    | 07/19/2021 09:00 | Hoor Shaik           | 07/20/2021 18:42   | Juyoung Kim        | 2262638            |
|                    | 07/16/2021    | 07/19/2021 09:00 | Hoor Shaik           | 07/20/2021 19:17   | Juyoung Kim        | 2262639            |
| SM 2540 D-2011     | 07/16/2021    |                  |                      | 07/20/2021 14:56   | Yijie Li           | 2262640            |
| SM 4500 F-C-2011   | 07/16/2021    |                  |                      | 07/21/2021 05:27   | Dale L. Simmons    | 2262640            |
| SM 5310 B-2011     | 07/16/2021    |                  |                      | 07/27/2021 15:04   | Touraj Touran      | 2262641            |