

# Chemical Analysis Report

**SW-DIST-2023-09-20-02**

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

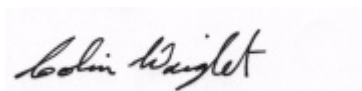
Event Description: **Run 12**  
Request ID: **RQ-2023-06-26-06**  
Customer: **SW-DIST**  
Project ID: **SMP**

Send Reports to:  
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13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926  
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Certified by: Colin Wright, Program Administrator

Date Certified: 12-OCT-2023 15:43

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light pink rectangular background.

## 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 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: ENGLISH CREEK AT S COUNTY LINE

Collection Date/Time: 09/19/2023 10:15

Field ID: G2SW0169

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|--------|------|-------|----------|----------|
| 2438592   | EPA 8321B   | 2,4-D            | 0.0022 | I    | ug/L  | P435330  |          |
|           |             | Acesulfame K     | 0.33   | I    | ug/L  | P435287  |          |
|           |             | 2,4,5-T          | 0.0040 | U    | ug/L  | P435330  |          |
|           |             | AMPA             | 0.31   | I    | ug/L  | P435287  |          |
|           |             | Acetaminophen    | 0.029  | I    | ug/L  | P435330  |          |
|           |             | Acetamiprid      | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Endothall        | 0.25   | U    | ug/L  | P435287  |          |
|           |             | Glufosinate      | 0.10   | U    | ug/L  | P435287  |          |
|           |             | Glyphosate       | 0.32   | I    | ug/L  | P435287  |          |
|           |             | Afidopyropen     | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Sucralose        | 0.85   |      | ug/L  | P435287  |          |
|           |             | Bentazon         | 0.0010 | I    | ug/L  | P435330  | MS       |
|           |             | Benzovindiflupyr | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Carbamazepine    | 0.0070 |      | ug/L  | P435330  |          |
|           |             | Clothianidin     | 0.017  |      | ug/L  | P435330  |          |
|           |             | Dinotefuran      | 0.0024 | I    | ug/L  | P435330  |          |
|           |             | Diuron           | 0.0026 | I    | ug/L  | P435330  |          |
|           |             | Fenuron          | 0.032  | U    | ug/L  | P435330  |          |
|           |             | Fluridone        | 0.0016 | I    | ug/L  | P435330  |          |
|           |             | Imazapyr         | 0.20   |      | ug/L  | P435330  |          |
|           |             | Hydrocodone      | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Ibuprofen        | 0.080  | U    | ug/L  | P435330  | MS       |
|           |             | Imidacloprid     | 0.014  |      | ug/L  | P435330  |          |
|           |             | Linuron          | 0.0040 | U    | ug/L  | P435330  |          |
|           |             | Mandestrobin     | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | MCPP             | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Naproxen         | 0.0080 | U    | ug/L  | P435330  |          |
|           |             | Primidone        | 0.0040 | U    | ug/L  | P435330  |          |
|           |             | Pyraclostrobin   | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Silvex           | 0.0040 | U    | ug/L  | P435330  |          |
|           |             | Thiamethoxam     | 0.014  |      | ug/L  | P435330  |          |
|           |             | Tolfenpyrad      | 0.0020 | U    | ug/L  | P435330  |          |
|           |             | Triclopyr        | 0.0040 | U    | ug/L  | P435330  |          |

Sample Location: HOWELL BRANCH IN BEALSVILLE PARK

Collection Date/Time: 09/19/2023 10:50

Field ID: G2SW0115

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component                                       | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-------------------------------------------------|--------|------|-------|----------|----------|
| 2438596   | EPA 8270E   | Oxybenzone**                                    | 10     | U    | ng/L  | P435385  |          |
|           |             | Acetochlor                                      | 0.20   | U    | ng/L  | P435385  |          |
|           |             | Octinoxate**                                    | 150    | U    | ng/L  | P435385  |          |
|           |             | Alachlor                                        | 0.41   | U    | ng/L  | P435385  |          |
|           |             | Avobenzone**                                    | 100    | U    | ng/L  | P435385  |          |
|           |             | Ametryn                                         | 1.1    | U    | ng/L  | P435385  |          |
|           |             | Atrazine                                        | 0.20   | U    | ng/L  | P435385  |          |
|           |             | PBDE-47**                                       | 4.1    | U    | ng/L  | P435385  |          |
|           |             | Atrazine Desethyl                               | 1.3    | U    | ng/L  | P435385  |          |
|           |             | PBDE-99**                                       | 5.1    | U    | ng/L  | P435385  |          |
|           |             | Azinphos Methyl                                 | 3.1    | U    | ng/L  | P435385  |          |
|           |             | Tri-o-cresyl Phosphate**                        | 6.1    | U    | ng/L  | P435385  |          |
|           |             | Azoxystrobin                                    | 7.2    | J    | ng/L  | P435385  |          |
|           |             | Bromacil                                        | 100    |      | ng/L  | P435385  |          |
|           |             | 2-Ethylhexyl                                    | 12     | U    | ng/L  | P435385  |          |
|           |             | 2,3,4,5-tetrabromobenzoate (EHTBB)**            |        |      |       |          |          |
|           |             | Butylate                                        | 0.20   | U    | ng/L  | P435385  |          |
|           |             | Dechlorane Plus**                               | 31     | U    | ng/L  | P435385  |          |
|           |             | Caffeine**                                      | 7.7    | U    | ng/L  | P435385  |          |
|           |             | Dechlorane 602**                                | 5.1    | U    | ng/L  | P435385  |          |
|           |             | Carbophenothion                                 | 0.51   | U    | ng/L  | P435385  |          |
|           |             | Dechlorane 603**                                | 4.1    | UJ   | ng/L  | P435385  | LCS      |
|           |             | Carfentrazone Ethyl                             | 0.15   | U    | ng/L  | P435385  |          |
|           |             | Hexabromobenzene**                              | 6.1    | U    | ng/L  | P435385  |          |
|           |             | Chlorfenapyr                                    | 0.31   | U    | ng/L  | P435385  |          |
|           |             | PBB-153**                                       | 8.2    | UJ   | ng/L  | P435385  | LCS      |
|           |             | Chlorpyrifos Ethyl                              | 0.31   | UJ   | ng/L  | P435385  | MS       |
|           |             | Pentabromotoluene**                             | 3.1    | U    | ng/L  | P435385  |          |
|           |             | Chlorpyrifos Methyl                             | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Tris(2-chloroethyl) phosphate (TCEP)**          | 72     | U    | ng/L  | P435385  |          |
|           |             | Coumaphos                                       | 1.1    | U    | ng/L  | P435385  |          |
|           |             | Tris(1-chloro-2-propyl) phosphate (TCPP)**      | 15     | U    | ng/L  | P435385  |          |
|           |             | Cyanazine                                       | 5.1    | U    | ng/L  | P435385  |          |
|           |             | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)** | 2.6    | I    | ng/L  | P435385  |          |
|           |             | Cyprodinil                                      | 2.5    |      | ng/L  | P435385  |          |
|           |             | Tetradecachloro-m-terphenyl**                   | 7.7    | U    | ng/L  | P435385  |          |
|           |             | Demeton                                         | 3.6    | U    | ng/L  | P435385  |          |
|           |             | Diazinon                                        | 0.13   | U    | ng/L  | P435385  |          |
|           |             | Difenoconazole                                  | 2.2    | I    | ng/L  | P435385  |          |
|           |             | Dimethenamid                                    | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Dimethomorph                                    | 0.31   | U    | ng/L  | P435385  |          |
|           |             | Disulfoton                                      | 0.61   | U    | ng/L  | P435385  |          |
|           |             | Dithiopyr                                       | 1.0    | U    | ng/L  | P435385  |          |

Field ID: G2SW0115

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component             | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------------------|--------|------|-------|----------|----------|
| 2438596   | EPA 8270E   | EPTC                  | 0.51   | U    | ng/L  | P435385  |          |
|           |             | Ethion                | 0.31   | U    | ng/L  | P435385  |          |
|           |             | Ethoprop              | 0.13   | U    | ng/L  | P435385  |          |
|           |             | Etridiazole           | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Fenamiphos            | 0.46   | U    | ng/L  | P435385  |          |
|           |             | Fenbuconazole         | 0.51   | U    | ng/L  | P435385  |          |
|           |             | Fipronil              | 0.29   | I    | ng/L  | P435385  |          |
|           |             | Fipronil Desulfinyl** | 2.6    |      | ng/L  | P435385  |          |
|           |             | Fipronil Sulfide      | 3.7    |      | ng/L  | P435385  |          |
|           |             | Fipronil Sulfone      | 4.1    |      | ng/L  | P435385  |          |
|           |             | Fluazifop-P-butyl     | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Fludioxonil           | 8.6    |      | ng/L  | P435385  |          |
|           |             | Flumioxazin           | 3.1    | U    | ng/L  | P435385  |          |
|           |             | Flutolanil            | 0.27   | I    | ng/L  | P435385  |          |
|           |             | Fluxapyroxad          | 8.6    | J    | ng/L  | P435385  | LCS      |
|           |             | Fonofos               | 0.15   | U    | ng/L  | P435385  |          |
|           |             | Hexazinone            | 0.51   | U    | ng/L  | P435385  |          |
|           |             | Imazalil              | 0.66   | U    | ng/L  | P435385  |          |
|           |             | Iprodione             | 0.51   | UJ   | ng/L  | P435385  | LCS      |
|           |             | Loratadine**          | 0.31   | U    | ng/L  | P435385  |          |
|           |             | Malathion             | 0.36   | UJ   | ng/L  | P435385  | LCS, MS  |
|           |             | Metalaxyl             | 1.5    | I    | ng/L  | P435385  |          |
|           |             | Metolachlor           | 0.77   | U    | ng/L  | P435385  |          |
|           |             | Metribuzin            | 0.41   | U    | ng/L  | P435385  |          |
|           |             | Mevinphos             | 1.0    | U    | ng/L  | P435385  |          |
|           |             | Molinate              | 0.26   | U    | ng/L  | P435385  |          |
|           |             | Myclobutanil          | 8.4    | J    | ng/L  | P435385  |          |
|           |             | Naled                 | 2.6    | U    | ng/L  | P435385  |          |
|           |             | Napropamide           | 0.72   | U    | ng/L  | P435385  |          |
|           |             | Norflurazon           | 2.8    | I    | ng/L  | P435385  |          |
|           |             | Oxadiazon             | 0.36   | U    | ng/L  | P435385  |          |
|           |             | Oxyfluorfen           | 1.5    |      | ng/L  | P435385  |          |
|           |             | Parathion Ethyl       | 0.15   | U    | ng/L  | P435385  |          |
|           |             | Parathion Methyl      | 0.20   | U    | ng/L  | P435385  |          |
|           |             | Pendimethalin         | 0.77   | U    | ng/L  | P435385  |          |
|           |             | Phenytol**            | 5.4    | U    | ng/L  | P435385  |          |
|           |             | Phorate               | 0.26   | U    | ng/L  | P435385  |          |
|           |             | Prodiamine            | 0.73   | I    | ng/L  | P435385  |          |
|           |             | Prometon              | 3.1    | U    | ng/L  | P435385  |          |
|           |             | Prometryn             | 0.36   | U    | ng/L  | P435385  |          |
|           |             | Pronamide             | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Propanil              | 0.10   | U    | ng/L  | P435385  |          |
|           |             | Propargite            | 0.82   | U    | ng/L  | P435385  |          |
|           |             | Propiconazole         | 1.6    | I    | ng/L  | P435385  |          |
|           |             | Pyraflufen Ethyl      | 0.31   | U    | ng/L  | P435385  |          |

Field ID: G2SW0115

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component      | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|----------------|--------|------|-------|----------|----------|
| 2438596   | EPA 8270E   | Pyridaben      | 1.4    | U    | ng/L  | P435385  | LCS, MS  |
|           |             | Pyriproxyfen   | 0.26   | U    | ng/L  | P435385  |          |
|           |             | Simazine       | 0.26   | U    | ng/L  | P435385  |          |
|           |             | Stirophos      | 0.41   | UJ   | ng/L  | P435385  |          |
|           |             | Sulfentrazone  | 7.4    | J    | ng/L  | P435385  |          |
|           |             | Tebuconazole   | 1.4    | U    | ng/L  | P435385  |          |
|           |             | Terbufos       | 0.20   | U    | ng/L  | P435385  |          |
|           |             | Terbuthylazine | 0.20   | U    | ng/L  | P435385  |          |
|           |             | Thiobencarb    | 0.51   | U    | ng/L  | P435385  |          |
|           |             | Triadimefon    | 0.15   | U    | ng/L  | P435385  |          |

Ref. Method and Comment:  
 EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.  
 EPA 8270E: MS accuracy for bromacil not assessed due to high content of this parameter in the sample spiked. Estimation for sulfentrazone, fluxapyroxad, azoxystrobin and myclobutanil due to internal standard recovery exceeding control limits. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: EAST CANAL AT KNIGHTS GRIFFIN RD

Collection Date/Time: 09/19/2023 09:45

Field ID: G2SW0159

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component  | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|------------|--------|------|-------|----------|----------|
| 2438594   | EPA 200.7 Rev. 4.4 | Calcium    | 65.7   |      | mg/L  | P435320  |          |
|           |                    | Iron       | 460    |      | ug/L  | P435320  |          |
|           |                    | Magnesium  | 9.31   |      | mg/L  | P435320  |          |
|           |                    | Potassium  | 18.6   |      | mg/L  | P435320  |          |
|           |                    | Sodium     | 84.0   |      | mg/L  | P435320  |          |
|           |                    | Strontium  | 278    |      | ug/L  | P435320  |          |
|           |                    | Tin        | 3.0    | U    | ug/L  | P435320  |          |
|           |                    | Titanium   | 0.81   | I    | ug/L  | P435320  |          |
|           |                    | Vanadium   | 3.4    | I    | ug/L  | P435320  |          |
|           | EPA 200.8 Rev. 5.4 | Zinc       | 20     |      | ug/L  | P435320  |          |
|           |                    | Aluminum   | 49     |      | ug/L  | P435320  |          |
|           |                    | Antimony   | 0.30   |      | ug/L  | P435320  |          |
|           |                    | Arsenic    | 0.83   |      | ug/L  | P435320  |          |
|           |                    | Barium     | 12.5   |      | ug/L  | P435320  |          |
|           |                    | Beryllium  | 0.010  | U    | ug/L  | P435320  |          |
|           |                    | Boron      | 185    |      | ug/L  | P435320  |          |
|           |                    | Cadmium    | 0.028  | I    | ug/L  | P435320  |          |
|           |                    | Chromium   | 0.99   | I    | ug/L  | P435320  |          |
|           |                    | Cobalt     | 0.429  |      | ug/L  | P435320  |          |
|           |                    | Copper     | 0.67   | I    | ug/L  | P435320  |          |
|           |                    | Lead       | 0.23   | I    | ug/L  | P435320  |          |
|           |                    | Manganese  | 30.4   |      | ug/L  | P435320  |          |
|           |                    | Molybdenum | 17.0   |      | ug/L  | P435320  |          |
|           |                    | Nickel     | 1.1    | I    | ug/L  | P435320  |          |
|           |                    | Selenium   | 0.25   | I    | ug/L  | P435320  |          |
|           |                    | Silver     | 0.010  | U    | ug/L  | P435320  |          |
|           |                    | Thallium   | 0.10   | U    | ug/L  | P435320  |          |
|           | SM 2340 B-2011     | Hardness   | 202    |      | mg/L  | P435320  |          |

Sample Location: FB

Collection Date/Time: 09/19/2023 09:50

Field ID: FB\_09192023

Matrix: W-FIELD-BK

| Sample ID | Ref. Method        | Component  | Result | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|------------|--------|------|-------|----------|----------|
| 2438595   | EPA 200.7 Rev. 4.4 | Calcium    | 0.075  | U    | mg/L  | P435320  |          |
|           |                    | Iron       | 30     | U    | ug/L  | P435320  |          |
|           |                    | Magnesium  | 0.040  | U    | mg/L  | P435320  |          |
|           |                    | Potassium  | 0.30   | U    | mg/L  | P435320  |          |
|           |                    | Sodium     | 0.50   | U    | mg/L  | P435320  |          |
|           |                    | Strontium  | 2.0    | U    | ug/L  | P435320  |          |
|           |                    | Tin        | 3.0    | U    | ug/L  | P435320  |          |
|           |                    | Titanium   | 0.75   | U    | ug/L  | P435320  |          |
|           |                    | Vanadium   | 2.0    | U    | ug/L  | P435320  |          |
|           | EPA 200.8 Rev. 5.4 | Zinc       | 5.0    | U    | ug/L  | P435320  |          |
|           |                    | Aluminum   | 5.0    | U    | ug/L  | P435320  |          |
|           |                    | Antimony   | 0.050  | U    | ug/L  | P435320  |          |
|           |                    | Arsenic    | 0.050  | U    | ug/L  | P435320  |          |
|           |                    | Barium     | 0.20   | U    | ug/L  | P435320  |          |
|           |                    | Beryllium  | 0.010  | U    | ug/L  | P435320  |          |
|           |                    | Boron      | 2.0    | U    | ug/L  | P435320  |          |
|           |                    | Cadmium    | 0.020  | U    | ug/L  | P435320  |          |
|           |                    | Chromium   | 0.40   | U    | ug/L  | P435320  |          |
|           |                    | Cobalt     | 0.020  | U    | ug/L  | P435320  |          |
|           |                    | Copper     | 0.40   | U    | ug/L  | P435320  |          |
|           |                    | Lead       | 0.20   | U    | ug/L  | P435320  |          |
|           |                    | Manganese  | 0.10   | U    | ug/L  | P435320  |          |
|           |                    | Molybdenum | 0.15   | U    | ug/L  | P435320  |          |
|           |                    | Nickel     | 0.50   | U    | ug/L  | P435320  |          |
|           |                    | Selenium   | 0.20   | U    | ug/L  | P435320  |          |
|           |                    | Silver     | 0.010  | U    | ug/L  | P435320  |          |
|           |                    | Thallium   | 0.10   | U    | ug/L  | P435320  |          |
|           | SM 2340 B-2011     | Hardness   | 0.35   | U    | mg/L  | P435320  |          |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435320

| 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: P435320

| 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     | 0.40   | U    | 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 8270E

Batch ID: P435385

| Component                                       | Result | Code | Units |
|-------------------------------------------------|--------|------|-------|
| 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                                         | 1.1    | 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                                        | 0.20   | 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  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

| Component           | Result | Code | Units |
|---------------------|--------|------|-------|
| 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  |
| 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        | 0.30   | U    | ng/L  |
| Disulfoton          | 0.60   | U    | ng/L  |
| Dithiopyr           | 1.0    | 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    | 0.10   | 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  |
| Metalaxyl           | 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  |

## Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P435385

| Component                                     | Result | Code | Units |
|-----------------------------------------------|--------|------|-------|
| PBB-153                                       | 8.0    | U    | ng/L  |
| PBDE-47                                       | 4.0    | U    | ng/L  |
| PBDE-99                                       | 5.0    | U    | ng/L  |
| Pendimethalin                                 | 0.75   | U    | ng/L  |
| Pentabromotoluene                             | 3.0    | U    | ng/L  |
| Phenytoin                                     | 5.3    | U    | ng/L  |
| Phorate                                       | 0.25   | U    | ng/L  |
| Prodiamine                                    | 0.20   | 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  |
| Stirophos                                     | 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)      | 15     | U    | ng/L  |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 2.5    | U    | ng/L  |
| Tris(2-chloroethyl) phosphate (TCEP)          | 70     | U    | ng/L  |

Reference Method: EPA 8321B

Batch ID: P435287

| 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: P435330

| 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  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B

Batch ID: P435330

| Component        | Result  | Code | Units |
|------------------|---------|------|-------|
| 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  |
| Fluridone        | 8.0E-04 | U    | ug/L  |
| Hydrocodone      | 0.0020  | U    | ug/L  |
| Ibuprofen        | 0.080   | U    | ug/L  |
| Imazapyr         | 0.0040  | U    | ug/L  |
| Imidacloprid     | 0.0020  | U    | ug/L  |
| 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  |
| Silvex           | 0.0040  | U    | ug/L  |
| Thiamethoxam     | 0.0020  | U    | ug/L  |
| Tolfenpyrad      | 0.0020  | U    | ug/L  |
| Triclopyr        | 0.0040  | U    | ug/L  |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435320

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Calcium   | 104     |         | P         | 85 - 115       |
| Iron      | 106     |         | P         | 85 - 115       |
| Magnesium | 105     |         | P         | 85 - 115       |
| Potassium | 102     |         | P         | 85 - 115       |
| Sodium    | 101     |         | P         | 85 - 115       |
| Strontium | 99.0    |         | P         | 85 - 115       |
| Tin       | 100     |         | P         | 85 - 115       |
| Titanium  | 99.8    |         | P         | 85 - 115       |
| Vanadium  | 99.3    |         | P         | 85 - 115       |
| Zinc      | 99.2    |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435320

| Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------|---------|---------|-----------|----------------|
| Aluminum   | 97.2    |         | P         | 85 - 115       |
| Antimony   | 98.8    |         | P         | 85 - 115       |
| Arsenic    | 98.6    |         | P         | 85 - 115       |
| Barium     | 103     |         | P         | 85 - 115       |
| Beryllium  | 98.0    |         | P         | 85 - 115       |
| Boron      | 98.2    |         | P         | 85 - 115       |
| Cadmium    | 98.2    |         | P         | 85 - 115       |
| Chromium   | 97.6    |         | P         | 85 - 115       |
| Cobalt     | 96.5    |         | P         | 85 - 115       |
| Copper     | 95.9    |         | P         | 85 - 115       |
| Lead       | 93.8    |         | P         | 85 - 115       |
| Manganese  | 97.4    |         | P         | 85 - 115       |
| Molybdenum | 97.9    |         | P         | 85 - 115       |
| Nickel     | 95.8    |         | P         | 85 - 115       |
| Selenium   | 101     |         | P         | 85 - 115       |
| Silver     | 111     |         | P         | 85 - 115       |
| Thallium   | 100     |         | P         | 85 - 115       |

Reference Method: EPA 8270E

Batch ID: P435385

| Component                                       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------------------------------------|---------|---------|-----------|----------------|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 142     |         | P         | 42 - 162       |
| Acetochlor                                      | 85.2    |         | P         | 69 - 123       |
| Alachlor                                        | 80.3    |         | P         | 65 - 118       |
| Ametryn                                         | 111     |         | P         | 58 - 141       |
| Atrazine                                        | 109     |         | P         | 73 - 118       |
| Atrazine Desethyl                               | 92.3    |         | P         | 32 - 125       |
| Avobenzone                                      | 184     |         | P         | 40 - 203       |
| Azinphos Methyl                                 | 191     |         | P         | 36 - 197       |
| Azoxystrobin                                    | 118     |         | P         | 58 - 226       |
| Bromacil                                        | 94.6    |         | P         | 48 - 120       |
| Butylate                                        | 51.6    |         | P         | 27 - 85.0      |
| Caffeine                                        | 122     |         | P         | 40 - 137       |
| Carbophenothion                                 | 104     |         | P         | 54 - 132       |
| Carfentrazone Ethyl                             | 122     |         | P         | 60 - 142       |
| Chlorfenapyr                                    | 106     |         | P         | 53 - 117       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Chlorpyrifos Ethyl  | 74.3    |         | P         | 59 - 116       |
| Chlorpyrifos Methyl | 108     |         | P         | 66 - 119       |
| Coumaphos           | 172     |         | P         | 11 - 234       |
| Cyanazine           | 141     |         | P         | 61 - 248       |
| Cyprodinil          | 80.9    |         | P         | 50 - 147       |
| Dechlorane 602      | 96.1    |         | P         | 50 - 150       |
| Dechlorane 603      | 159     |         | F         | 50 - 150       |
| Dechlorane Plus     | 170     |         | P         | 47 - 182       |
| Demeton             | 97.4    |         | P         | 30 - 138       |
| Diazinon            | 115     |         | P         | 67 - 126       |
| Difenoconazole      | 179     |         | P         | 38 - 205       |
| Dimethenamid        | 85.8    |         | P         | 57 - 111       |
| Dimethomorph        | 127     |         | P         | 16 - 212       |
| Disulfoton          | 92.7    |         | P         | 46 - 126       |
| Dithiopyr           | 89.4    |         | P         | 62 - 115       |
| EPTC                | 47.0    |         | P         | 28 - 80.0      |
| Ethion              | 73.3    |         | P         | 24 - 122       |
| Ethoprop            | 110     |         | P         | 62 - 113       |
| Etridiazole         | 45.5    |         | P         | 28 - 92.0      |
| Fenamiphos          | 105     |         | P         | 57 - 128       |
| Fenbuconazole       | 96.2    |         | P         | 52 - 155       |
| Fipronil            | 79.6    |         | P         | 63 - 130       |
| Fipronil Desulfinyl | 86.9    |         | P         | 61 - 130       |
| Fipronil Sulfide    | 83.2    |         | P         | 56 - 117       |
| Fipronil Sulfone    | 77.1    |         | P         | 52 - 118       |
| Fluazifop-P-butyl   | 96.6    |         | P         | 61 - 128       |
| Fludioxonil         | 77.6    |         | P         | 59 - 129       |
| Flumioxazin         | 201     |         | P         | 30 - 250       |
| Flutolanil          | 80.4    |         | P         | 53 - 127       |
| Fluxapyroxad        | 187     |         | F         | 42 - 132       |
| Fonofos             | 104     |         | P         | 61 - 110       |
| Hexabromobenzene    | 122     |         | P         | 50 - 150       |
| Hexazinone          | 110     |         | P         | 46 - 139       |
| Imazalil            | 80.7    |         | P         | 40 - 139       |
| Iprodione           | 240     |         | F         | 40 - 146       |
| Loratadine          | 169     |         | P         | 10 - 224       |
| Malathion           | 155     |         | F         | 61 - 135       |
| Metalaxyl           | 88.3    |         | P         | 58 - 121       |
| Metolachlor         | 90.3    |         | P         | 64 - 118       |
| Metribuzin          | 106     |         | P         | 45 - 245       |
| Mevinphos           | 94.3    |         | P         | 49 - 118       |
| Molinate            | 71.0    |         | P         | 42 - 92.0      |
| Myclobutanil        | 79.1    |         | P         | 55 - 127       |
| Naled               | 38.7    |         | P         | 10 - 114       |
| Napropamide         | 79.1    |         | P         | 39 - 121       |
| Norflurazon         | 86.4    |         | P         | 55 - 129       |
| Octinoxate          | 135     |         | P         | 26 - 166       |
| Oxadiazon           | 77.5    |         | P         | 54 - 115       |
| Oxybenzone          | 134     |         | P         | 49 - 135       |
| Oxyfluorfen         | 119     |         | P         | 64 - 139       |
| Parathion Ethyl     | 107     |         | P         | 70 - 111       |
| Parathion Methyl    | 127     |         | P         | 76 - 136       |

## Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

| Component                                     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------------------------------------------|---------|---------|-----------|----------------|
| PBB-153                                       | 152     |         | F         | 50 - 150       |
| PBDE-47                                       | 109     |         | P         | 41 - 148       |
| PBDE-99                                       | 111     |         | P         | 38 - 147       |
| Pendimethalin                                 | 93.2    |         | P         | 52 - 118       |
| Pentabromotoluene                             | 118     |         | P         | 50 - 150       |
| Phenytoin                                     | 76.0    |         | P         | 10 - 162       |
| Phorate                                       | 69.3    |         | P         | 40 - 122       |
| Prodiamine                                    | 39.0    |         | P         | 26 - 141       |
| Prometon                                      | 104     |         | P         | 54 - 122       |
| Prometryn                                     | 80.7    |         | P         | 61 - 128       |
| Pronamide                                     | 106     |         | P         | 72 - 121       |
| Propanil                                      | 87.6    |         | P         | 45 - 144       |
| Propargite                                    | 104     |         | P         | 10 - 199       |
| Propiconazole                                 | 87.5    |         | P         | 56 - 127       |
| Pyraflufen Ethyl                              | 98.2    |         | P         | 56 - 140       |
| Pyridaben                                     | 129     |         | P         | 26 - 211       |
| Pyriproxyfen                                  | 104     |         | P         | 33 - 194       |
| Simazine                                      | 99.7    |         | P         | 67 - 121       |
| Stirophos                                     | 166     |         | F         | 20 - 142       |
| Sulfentrazone                                 | 83.8    |         | P         | 21 - 144       |
| Tebuconazole                                  | 70.1    |         | P         | 10 - 122       |
| Terbufos                                      | 127     |         | P         | 60 - 129       |
| Terbuthylazine                                | 97.3    |         | P         | 69 - 113       |
| Tetradecachloro-m-terphenyl                   | 147     |         | P         | 70 - 200       |
| Thiobencarb                                   | 89.2    |         | P         | 51 - 120       |
| Tri-o-cresyl Phosphate                        | 145     |         | P         | 49 - 150       |
| Triadimefon                                   | 92.3    |         | P         | 56 - 114       |
| Tris(1-chloro-2-propyl) phosphate (TCPP)      | 139     |         | P         | 50 - 150       |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 130     |         | P         | 50 - 150       |
| Tris(2-chloroethyl) phosphate (TCEP)          | 138     |         | P         | 70 - 180       |

Reference Method: EPA 8321B

Batch ID: P435287

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 103     |         | P         | 40 - 160       |
| AMPA         | 116     |         | P         | 40 - 150       |
| Endothall    | 93.4    |         | P         | 40 - 150       |
| Glufosinate  | 105     |         | P         | 40 - 150       |
| Glyphosate   | 77.1    |         | P         | 40 - 150       |
| Sucralose    | 95.2    |         | P         | 40 - 160       |

Reference Method: EPA 8321B

Batch ID: P435330

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| 2,4-D         | 64.1    |         | P         | 40 - 150       |
| 2,4,5-T       | 75.9    |         | P         | 40 - 150       |
| Acetaminophen | 90.8    |         | P         | 30 - 150       |
| Acetamiprid   | 91.5    |         | P         | 40 - 150       |
| Afidopyropen  | 66.3    |         | P         | 30 - 150       |
| Bentazon      | 64.8    |         | P         | 30 - 150       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P435330

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Benzovindiflupyr | 88.5    |         | P         | 40 - 150       |
| Carbamazepine    | 84.0    |         | P         | 40 - 150       |
| Clothianidin     | 88.7    |         | P         | 40 - 150       |
| Dinotefuran      | 96.2    |         | P         | 40 - 150       |
| Diuron           | 88.2    |         | P         | 40 - 150       |
| Fenuron          | 91.8    |         | P         | 40 - 150       |
| Fluridone        | 90.9    |         | P         | 40 - 150       |
| Hydrocodone      | 86.4    |         | P         | 40 - 150       |
| Ibuprofen        | 43.6    |         | P         | 40 - 150       |
| Imazapyr         | 68.4    |         | P         | 40 - 150       |
| Imidacloprid     | 85.6    |         | P         | 40 - 150       |
| Linuron          | 63.3    |         | P         | 40 - 150       |
| Mandestrobin     | 92.1    |         | P         | 40 - 150       |
| MCPP             | 94.7    |         | P         | 40 - 150       |
| Naproxen         | 60.4    |         | P         | 40 - 150       |
| Primidone        | 80.9    |         | P         | 40 - 150       |
| Pyraclostrobin   | 81.5    |         | P         | 40 - 150       |
| Silvex           | 72.2    |         | P         | 40 - 150       |
| Thiamethoxam     | 98.7    |         | P         | 40 - 150       |
| Tolfenpyrad      | 60.4    |         | P         | 30 - 150       |
| Triclopyr        | 83.1    |         | P         | 40 - 150       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435320

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2438495       | Calcium   | 106     |         | P         | 80 - 120       |
| 2438495       | Iron      | 105     | 106     | P/P       | 80 - 120       |
| 2438495       | Magnesium | 101     | 104     | P/P       | 80 - 120       |
| 2438495       | Potassium | 97.5    | 99.5    | P/P       | 80 - 120       |
| 2438495       | Sodium    | 102     |         | P         | 80 - 120       |
| 2438495       | Strontium | 99.2    | 99.4    | P/P       | 80 - 120       |
| 2438495       | Tin       | 100     | 96.5    | P/P       | 80 - 120       |
| 2438495       | Titanium  | 101     | 99.4    | P/P       | 80 - 120       |
| 2438495       | Vanadium  | 101     | 99.5    | P/P       | 80 - 120       |
| 2438495       | Zinc      | 102     | 101     | P/P       | 80 - 120       |
| 2438625       | Calcium   | 106     |         | P         | 80 - 120       |
| 2438625       | Iron      | 105     |         | P         | 80 - 120       |
| 2438625       | Magnesium | 104     |         | P         | 80 - 120       |
| 2438625       | Potassium | 99.9    |         | P         | 80 - 120       |
| 2438625       | Sodium    | 103     |         | P         | 80 - 120       |
| 2438625       | Strontium | 99.4    |         | P         | 80 - 120       |
| 2438625       | Tin       | 99.5    |         | P         | 80 - 120       |
| 2438625       | Titanium  | 99.9    |         | P         | 80 - 120       |
| 2438625       | Vanadium  | 102     |         | P         | 80 - 120       |
| 2438625       | Zinc      | 101     |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435320

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2438495       | Aluminum   | 98.5    | 99.3    | P/P       | 80 - 120       |
| 2438495       | Antimony   | 101     | 101     | P/P       | 80 - 120       |
| 2438495       | Arsenic    | 99.1    | 99.4    | P/P       | 80 - 120       |
| 2438495       | Barium     | 103     | 103     | P/P       | 80 - 120       |
| 2438495       | Beryllium  | 98.8    | 96.5    | P/P       | 80 - 120       |
| 2438495       | Boron      | 101     | 103     | P/P       | 80 - 120       |
| 2438495       | Cadmium    | 103     | 101     | P/P       | 80 - 120       |
| 2438495       | Chromium   | 98.4    | 99.6    | P/P       | 80 - 120       |
| 2438495       | Cobalt     | 96.1    | 96.7    | P/P       | 80 - 120       |
| 2438495       | Copper     | 95.9    | 96.1    | P/P       | 80 - 120       |
| 2438495       | Lead       | 95.7    | 95.4    | P/P       | 80 - 120       |
| 2438495       | Manganese  | 95.7    | 101     | P/P       | 80 - 120       |
| 2438495       | Molybdenum | 98.5    | 98.1    | P/P       | 80 - 120       |
| 2438495       | Nickel     | 95.1    | 95.2    | P/P       | 80 - 120       |
| 2438495       | Selenium   | 103     | 99.8    | P/P       | 80 - 120       |
| 2438495       | Silver     | 109     | 109     | P/P       | 80 - 120       |
| 2438495       | Thallium   | 103     | 103     | P/P       | 80 - 120       |
| 2438625       | Aluminum   | 94.5    |         | P         | 80 - 120       |
| 2438625       | Antimony   | 98.3    |         | P         | 80 - 120       |
| 2438625       | Arsenic    | 97.7    |         | P         | 80 - 120       |
| 2438625       | Barium     | 102     |         | P         | 80 - 120       |
| 2438625       | Beryllium  | 98.5    |         | P         | 80 - 120       |
| 2438625       | Boron      | 95.9    |         | P         | 80 - 120       |
| 2438625       | Cadmium    | 101     |         | P         | 80 - 120       |
| 2438625       | Chromium   | 96.5    |         | P         | 80 - 120       |
| 2438625       | Cobalt     | 94.9    |         | P         | 80 - 120       |
| 2438625       | Copper     | 94.1    |         | P         | 80 - 120       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435320

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2438625       | Lead       | 95.0    |         | P         | 80 - 120       |
| 2438625       | Manganese  | 97.5    |         | P         | 80 - 120       |
| 2438625       | Molybdenum | 98.0    |         | P         | 80 - 120       |
| 2438625       | Nickel     | 94.0    |         | P         | 80 - 120       |
| 2438625       | Selenium   | 99.2    |         | P         | 80 - 120       |
| 2438625       | Silver     | 108     |         | P         | 80 - 120       |
| 2438625       | Thallium   | 101     |         | P         | 80 - 120       |

Reference Method: EPA 8270E

Batch ID: P435385

| Spiked Sample | Component                                       | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------------------------------------|---------|---------|-----------|----------------|
| 2438596       | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 131     | 120     | P/P       | 26 - 165       |
| 2438596       | Acetochlor                                      | 93.9    | 83.0    | P/P       | 67 - 124       |
| 2438596       | Alachlor                                        | 75.9    | 70.9    | P/P       | 60 - 120       |
| 2438596       | Ametryn                                         | 116     | 134     | P/P       | 54 - 216       |
| 2438596       | Atrazine                                        | 106     | 104     | P/P       | 66 - 128       |
| 2438596       | Atrazine Desethyl                               | 97.3    | 100     | P/P       | 15 - 122       |
| 2438596       | Avobenzene                                      | 156     | 170     | P/P       | 37 - 178       |
| 2438596       | Azinphos Methyl                                 | 220     | 200     | P/P       | 40 - 292       |
| 2438596       | Azoxystrobin                                    | 151     | 120     | P/P       | 35 - 220       |
| 2438596       | Butylate                                        | 54.5    | 65.3    | P/P       | 20 - 83.0      |
| 2438596       | Caffeine                                        | 139     | 136     | P/P       | 10 - 194       |
| 2438596       | Carbophenothion                                 | 122     | 95.5    | P/P       | 57 - 127       |
| 2438596       | Carfentrazone Ethyl                             | 140     | 112     | P/P       | 51 - 141       |
| 2438596       | Chlorfenapyr                                    | 106     | 91.0    | P/P       | 46 - 111       |
| 2438596       | Chlorpyrifos Ethyl                              | 123     | 110     | F/P       | 52 - 120       |
| 2438596       | Chlorpyrifos Methyl                             | 118     | 96.8    | P/P       | 63 - 119       |
| 2438596       | Coumaphos                                       | 178     | 202     | P/P       | 10 - 228       |
| 2438596       | Cyanazine                                       | 159     | 126     | P/P       | 59 - 241       |
| 2438596       | Cyprodinil                                      | 114     | 73.3    | P/P       | 47 - 146       |
| 2438596       | Dechlorane 602                                  | 75.0    | 63.1    | P/P       | 50 - 150       |
| 2438596       | Dechlorane 603                                  | 149     | 139     | P/P       | 50 - 150       |
| 2438596       | Dechlorane Plus                                 | 146     | 148     | P/P       | 50 - 150       |
| 2438596       | Demeton                                         | 84.0    | 91.6    | P/P       | 40 - 136       |
| 2438596       | Diazinon                                        | 108     | 110     | P/P       | 69 - 132       |
| 2438596       | Difenoconazole                                  | 170     | 171     | P/P       | 57 - 258       |
| 2438596       | Dimethenamid                                    | 94.8    | 82.3    | P/P       | 54 - 110       |
| 2438596       | Dimethomorph                                    | 189     | 146     | P/P       | 28 - 210       |
| 2438596       | Disulfoton                                      | 102     | 77.7    | P/P       | 43 - 133       |
| 2438596       | Dithiopyr                                       | 96.7    | 90.6    | P/P       | 39 - 116       |
| 2438596       | EPTC                                            | 50.3    | 65.0    | P/P       | 20 - 78.0      |
| 2438596       | Ethion                                          | 55.8    | 62.0    | P/P       | 17 - 119       |
| 2438596       | Ethoprop                                        | 116     | 119     | P/P       | 66 - 120       |
| 2438596       | Etridiazole                                     | 62.8    | 55.0    | P/P       | 28 - 96.0      |
| 2438596       | Fenamiphos                                      | 85.4    | 87.0    | P/P       | 41 - 126       |
| 2438596       | Fenbuconazole                                   | 96.1    | 80.8    | P/P       | 42 - 169       |
| 2438596       | Fipronil                                        | 100     | 81.3    | P/P       | 61 - 132       |
| 2438596       | Fipronil Desulfinyl                             | 124     | 73.0    | P/P       | 56 - 132       |
| 2438596       | Fipronil Sulfide                                | 110     | 65.6    | P/P       | 48 - 119       |
| 2438596       | Fipronil Sulfone                                | 120     | 62.6    | P/P       | 42 - 131       |
| 2438596       | Fluazifop-P-butyl                               | 106     | 88.3    | P/P       | 53 - 131       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

| Spiked Sample | Component                   | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------------------|---------|---------|-----------|----------------|
| 2438596       | Fludioxonil                 | 118     | 93.5    | P/P       | 56 - 127       |
| 2438596       | Flumioxazin                 | 199     | 174     | P/P       | 19 - 300       |
| 2438596       | Flutolanil                  | 65.7    | 60.3    | P/P       | 41 - 127       |
| 2438596       | Fluxapyroxad                | 155     | 148     | P/P       | 42 - 172       |
| 2438596       | Fonofos                     | 106     | 96.8    | P/P       | 59 - 113       |
| 2438596       | Hexabromobenzene            | 122     | 118     | P/P       | 50 - 150       |
| 2438596       | Hexazinone                  | 106     | 109     | P/P       | 66 - 122       |
| 2438596       | Imazalil                    | 78.7    | 74.7    | P/P       | 21 - 283       |
| 2438596       | Iprodione                   | 92.2    | 90.1    | P/P       | 43 - 150       |
| 2438596       | Loratadine                  | 193     | 183     | P/P       | 23 - 201       |
| 2438596       | Malathion                   | 167     | 144     | F/F       | 58 - 136       |
| 2438596       | Metaxyl                     | 93.6    | 80.4    | P/P       | 55 - 120       |
| 2438596       | Metolachlor                 | 99.8    | 90.0    | P/P       | 57 - 121       |
| 2438596       | Metribuzin                  | 111     | 101     | P/P       | 58 - 294       |
| 2438596       | Mevinphos                   | 118     | 100     | P/P       | 50 - 126       |
| 2438596       | Molinate                    | 61.9    | 70.6    | P/P       | 42 - 93.0      |
| 2438596       | Myclobutanil                | 95.0    | 73.8    | P/P       | 55 - 125       |
| 2438596       | Naled                       | 53.3    | 51.4    | P/P       | 18 - 200       |
| 2438596       | Napropamide                 | 81.3    | 76.6    | P/P       | 39 - 110       |
| 2438596       | Norflurazon                 | 105     | 77.6    | P/P       | 48 - 128       |
| 2438596       | Octinoxate                  | 129     | 127     | P/P       | 21 - 159       |
| 2438596       | Oxadiazon                   | 90.5    | 79.1    | P/P       | 43 - 112       |
| 2438596       | Oxybenzone                  | 133     | 126     | P/P       | 41 - 142       |
| 2438596       | Oxyfluorfen                 | 134     | 101     | P/P       | 64 - 153       |
| 2438596       | Parathion Ethyl             | 106     | 102     | P/P       | 69 - 114       |
| 2438596       | Parathion Methyl            | 137     | 119     | P/P       | 79 - 139       |
| 2438596       | PBB-153                     | 143     | 125     | P/P       | 50 - 150       |
| 2438596       | PBDE-47                     | 95.1    | 89.2    | P/P       | 27 - 144       |
| 2438596       | PBDE-99                     | 95.2    | 84.1    | P/P       | 18 - 150       |
| 2438596       | Pendimethalin               | 109     | 95.9    | P/P       | 50 - 139       |
| 2438596       | Pentabromotoluene           | 111     | 114     | P/P       | 50 - 150       |
| 2438596       | Phenytoin                   | 56.6    | 65.2    | P/P       | 10 - 146       |
| 2438596       | Phorate                     | 70.4    | 75.6    | P/P       | 54 - 161       |
| 2438596       | Prodiamine                  | 55.0    | 58.7    | P/P       | 30 - 161       |
| 2438596       | Prometon                    | 74.1    | 93.3    | P/P       | 45 - 134       |
| 2438596       | Prometryn                   | 90.2    | 84.2    | P/P       | 45 - 137       |
| 2438596       | Pronamide                   | 108     | 102     | P/P       | 65 - 133       |
| 2438596       | Propanil                    | 107     | 81.3    | P/P       | 49 - 142       |
| 2438596       | Propargite                  | 82.5    | 78.4    | P/P       | 10 - 203       |
| 2438596       | Propiconazole               | 93.3    | 73.7    | P/P       | 38 - 146       |
| 2438596       | Pyraflufen Ethyl            | 117     | 98.5    | P/P       | 34 - 153       |
| 2438596       | Pyridaben                   | 159     | 129     | P/P       | 12 - 192       |
| 2438596       | Pyriproxyfen                | 99.4    | 85.9    | P/P       | 33 - 180       |
| 2438596       | Simazine                    | 102     | 101     | P/P       | 51 - 157       |
| 2438596       | Stirophos                   | 147     | 140     | F/F       | 10 - 128       |
| 2438596       | Sulfentrazone               | 55.6    | 92.4    | P/P       | 53 - 186       |
| 2438596       | Tebuconazole                | 54.1    | 55.4    | P/P       | 10 - 133       |
| 2438596       | Terbufos                    | 129     | 115     | P/P       | 65 - 139       |
| 2438596       | Terbutylazine               | 91.8    | 91.3    | P/P       | 66 - 117       |
| 2438596       | Tetradecachloro-m-terphenyl | 121     | 154     | P/P       | 70 - 200       |
| 2438596       | Thiobencarb                 | 94.3    | 88.6    | P/P       | 51 - 119       |
| 2438596       | Tri-o-cresyl Phosphate      | 139     | 129     | P/P       | 31 - 144       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P435385

| Spiked Sample | Component                                     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------------------------------------|---------|---------|-----------|----------------|
| 2438596       | Triadimefon                                   | 87.5    | 76.5    | P/P       | 48 - 119       |
| 2438596       | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 139     | 134     | P/P       | 50 - 150       |
| 2438596       | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 125     | 123     | P/P       | 50 - 150       |
| 2438596       | Tris(2-chloroethyl) phosphate (TCEP)          | 127     | 121     | P/P       | 70 - 180       |

Reference Method: EPA 8321B

Batch ID: P435287

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2438447       | Acesulfame K | 108     | 110     | P/P       | 40 - 160       |
| 2438447       | AMPA         | 93.3    | 89.2    | P/P       | 40 - 150       |
| 2438447       | Endothall    | 103     | 105     | P/P       | 40 - 150       |
| 2438447       | Glufosinate  | 80.4    | 81.2    | P/P       | 40 - 150       |
| 2438447       | Glyphosate   | 68.5    | 66.1    | P/P       | 40 - 150       |
| 2438447       | Sucralose    | 102     | 94.4    | P/P       | 40 - 160       |

Reference Method: EPA 8321B

Batch ID: P435330

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2438478       | 2,4-D            | 72.9    | 86.7    | P/P       | 40 - 150       |
| 2438478       | 2,4,5-T          | 69.7    | 83.0    | P/P       | 40 - 150       |
| 2438478       | Acetaminophen    | 80.2    | 83.0    | P/P       | 30 - 150       |
| 2438478       | Acetamiprid      | 57.0    | 62.3    | P/P       | 40 - 150       |
| 2438478       | Afidopyropen     | 61.4    | 73.5    | P/P       | 30 - 150       |
| 2438478       | Bentazon         | 16.7    | 21.1    | F/F       | 30 - 150       |
| 2438478       | Benzovindiflupyr | 89.2    | 90.5    | P/P       | 40 - 150       |
| 2438478       | Carbamazepine    | 59.7    | 58.9    | P/P       | 40 - 150       |
| 2438478       | Clothianidin     | 63.9    | 65.4    | P/P       | 40 - 150       |
| 2438478       | Dinotefuran      | 68.6    | 70.4    | P/P       | 40 - 150       |
| 2438478       | Diuron           | 53.5    | 51.6    | P/P       | 40 - 150       |
| 2438478       | Fenuron          | 44.0    | 45.5    | P/P       | 40 - 150       |
| 2438478       | Fluridone        | 64.0    | 67.6    | P/P       | 40 - 150       |
| 2438478       | Hydrocodone      | 52.6    | 53.6    | P/P       | 40 - 150       |
| 2438478       | Ibuprofen        | 38.6    | 38.2    | F/F       | 40 - 150       |
| 2438478       | Imazapyr         | 62.6    | 62.5    | P/P       | 40 - 150       |
| 2438478       | Imidacloprid     | 108     | 113     | P/P       | 40 - 150       |
| 2438478       | Linuron          | 60.5    | 56.2    | P/P       | 40 - 150       |
| 2438478       | Mandestrobin     | 83.9    | 86.7    | P/P       | 40 - 150       |
| 2438478       | MCPP             | 79.6    | 89.3    | P/P       | 40 - 150       |
| 2438478       | Naproxen         | 77.8    | 73.0    | P/P       | 40 - 150       |
| 2438478       | Primidone        | 60.3    | 63.0    | P/P       | 40 - 150       |
| 2438478       | Pyraclostrobin   | 83.0    | 84.9    | P/P       | 40 - 150       |
| 2438478       | Silvex           | 60.8    | 70.1    | P/P       | 40 - 150       |
| 2438478       | Thiamethoxam     | 68.6    | 70.5    | P/P       | 40 - 150       |
| 2438478       | Tolfenpyrad      | 48.0    | 59.0    | P/P       | 30 - 150       |
| 2438478       | Triclopyr        | 72.5    | 84.9    | P/P       | 40 - 150       |

## Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P435320

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2438495                  | Calcium   | 0.737     | Spike             | P         | 0 - 20         |
| 2438495                  | Iron      | 1.05      | Spike             | P         | 0 - 20         |
| 2438495                  | Magnesium | 1.34      | Spike             | P         | 0 - 20         |
| 2438495                  | Potassium | 1.19      | Spike             | P         | 0 - 20         |
| 2438495                  | Sodium    | 0.431     | Spike             | P         | 0 - 20         |
| 2438495                  | Strontium | 0.248     | Spike             | P         | 0 - 20         |
| 2438495                  | Tin       | 3.83      | Spike             | P         | 0 - 20         |
| 2438495                  | Titanium  | 1.58      | Spike             | P         | 0 - 20         |
| 2438495                  | Vanadium  | 1.44      | Spike             | P         | 0 - 20         |
| 2438495                  | Zinc      | 1.16      | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P435320

| Replicated<br>Lab Sample | Component  | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------|-----------|-------------------|-----------|----------------|
| 2438495                  | Aluminum   | 0.762     | Spike             | P         | 0 - 20         |
| 2438495                  | Antimony   | 0.593     | Spike             | P         | 0 - 20         |
| 2438495                  | Arsenic    | 0.342     | Spike             | P         | 0 - 20         |
| 2438495                  | Barium     | 0.272     | Spike             | P         | 0 - 20         |
| 2438495                  | Beryllium  | 2.37      | Spike             | P         | 0 - 20         |
| 2438495                  | Boron      | 1.81      | Spike             | P         | 0 - 20         |
| 2438495                  | Cadmium    | 2.05      | Spike             | P         | 0 - 20         |
| 2438495                  | Chromium   | 1.20      | Spike             | P         | 0 - 20         |
| 2438495                  | Cobalt     | 0.554     | Spike             | P         | 0 - 20         |
| 2438495                  | Copper     | 0.172     | Spike             | P         | 0 - 20         |
| 2438495                  | Lead       | 0.372     | Spike             | P         | 0 - 20         |
| 2438495                  | Manganese  | 1.93      | Spike             | P         | 0 - 20         |
| 2438495                  | Molybdenum | 0.387     | Spike             | P         | 0 - 20         |
| 2438495                  | Nickel     | 0.170     | Spike             | P         | 0 - 20         |
| 2438495                  | Selenium   | 3.07      | Spike             | P         | 0 - 20         |
| 2438495                  | Silver     | 0.361     | Spike             | P         | 0 - 20         |
| 2438495                  | Thallium   | 0.661     | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270E

Batch ID: P435385

| Replicated<br>Lab Sample | Component                                       | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------------------------------------|-----------|-------------------|-----------|----------------|
| 2438596                  | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 8.81      | Spike             | P         | 0 - 37         |
| 2438596                  | Acetochlor                                      | 12.4      | Spike             | P         | 0 - 28         |
| 2438596                  | Alachlor                                        | 6.82      | Spike             | P         | 0 - 30         |
| 2438596                  | Ametryn                                         | 14.6      | Spike             | P         | 0 - 32         |
| 2438596                  | Atrazine                                        | 1.42      | Spike             | P         | 0 - 41         |
| 2438596                  | Atrazine Desethyl                               | 3.12      | Spike             | P         | 0 - 36         |
| 2438596                  | Avobenzone                                      | 8.03      | Spike             | P         | 0 - 36         |
| 2438596                  | Azinphos Methyl                                 | 9.16      | Spike             | P         | 0 - 75         |
| 2438596                  | Azoxystrobin                                    | 16.2      | Spike             | P         | 0 - 39         |
| 2438596                  | Bromacil                                        | 32.5      | Spike             | P         | 0 - 33         |
| 2438596                  | Butylate                                        | 18.0      | Spike             | P         | 0 - 44         |
| 2438596                  | Caffeine                                        | 2.00      | Spike             | P         | 0 - 74         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E  
Batch ID: P435385

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2438596                  | Carbophenothion     | 24.0      | Spike             | P         | 0 - 25         |
| 2438596                  | Carfentrazone Ethyl | 22.5      | Spike             | P         | 0 - 27         |
| 2438596                  | Chlorfenapyr        | 15.0      | Spike             | P         | 0 - 24         |
| 2438596                  | Chlorpyrifos Ethyl  | 10.9      | Spike             | P         | 0 - 26         |
| 2438596                  | Chlorpyrifos Methyl | 20.0      | Spike             | P         | 0 - 26         |
| 2438596                  | Coumaphos           | 12.8      | Spike             | P         | 0 - 28         |
| 2438596                  | Cyanazine           | 23.4      | Spike             | P         | 0 - 48         |
| 2438596                  | Cyprodinil          | 23.8      | Spike             | P         | 0 - 29         |
| 2438596                  | Dechlorane 602      | 17.2      | Spike             | P         | 0 - 30         |
| 2438596                  | Dechlorane 603      | 7.17      | Spike             | P         | 0 - 30         |
| 2438596                  | Dechlorane Plus     | 1.88      | Spike             | P         | 0 - 30         |
| 2438596                  | Demeton             | 8.66      | Spike             | P         | 0 - 33         |
| 2438596                  | Diazinon            | 1.46      | Spike             | P         | 0 - 29         |
| 2438596                  | Difenoconazole      | 0.756     | Spike             | P         | 0 - 34         |
| 2438596                  | Dimethenamid        | 14.0      | Spike             | P         | 0 - 39         |
| 2438596                  | Dimethomorph        | 25.6      | Spike             | P         | 0 - 51         |
| 2438596                  | Disulfoton          | 26.8      | Spike             | P         | 0 - 30         |
| 2438596                  | Dithiopyr           | 6.50      | Spike             | P         | 0 - 26         |
| 2438596                  | EPTC                | 25.6      | Spike             | P         | 0 - 43         |
| 2438596                  | Ethion              | 10.6      | Spike             | P         | 0 - 79         |
| 2438596                  | Ethoprop            | 2.51      | Spike             | P         | 0 - 29         |
| 2438596                  | Etridiazole         | 13.2      | Spike             | P         | 0 - 33         |
| 2438596                  | Fenamiphos          | 1.86      | Spike             | P         | 0 - 40         |
| 2438596                  | Fenbuconazole       | 17.4      | Spike             | P         | 0 - 74         |
| 2438596                  | Fipronil            | 20.0      | Spike             | P         | 0 - 29         |
| 2438596                  | Fipronil Desulfanyl | 28.3      | Spike             | P         | 0 - 32         |
| 2438596                  | Fipronil Sulfide    | 21.9      | Spike             | P         | 0 - 30         |
| 2438596                  | Fipronil Sulfone    | 26.5      | Spike             | P         | 0 - 33         |
| 2438596                  | Fluazifop-P-butyl   | 18.5      | Spike             | P         | 0 - 38         |
| 2438596                  | Fludioxonil         | 6.70      | Spike             | P         | 0 - 29         |
| 2438596                  | Flumioxazin         | 13.7      | Spike             | P         | 0 - 51         |
| 2438596                  | Flutolanil          | 7.50      | Spike             | P         | 0 - 25         |
| 2438596                  | Fluxapyroxad        | 1.54      | Spike             | P         | 0 - 45         |
| 2438596                  | Fonofos             | 9.27      | Spike             | P         | 0 - 27         |
| 2438596                  | Hexabromobenzene    | 2.91      | Spike             | P         | 0 - 30         |
| 2438596                  | Hexazinone          | 3.12      | Spike             | P         | 0 - 30         |
| 2438596                  | Imazalil            | 5.20      | Spike             | P         | 0 - 100        |
| 2438596                  | Iprodione           | 2.34      | Spike             | P         | 0 - 33         |
| 2438596                  | Loratadine          | 5.50      | Spike             | P         | 0 - 56         |
| 2438596                  | Malathion           | 14.5      | Spike             | P         | 0 - 37         |
| 2438596                  | Metalaxyl           | 11.9      | Spike             | P         | 0 - 40         |
| 2438596                  | Metolachlor         | 10.3      | Spike             | P         | 0 - 29         |
| 2438596                  | Metribuzin          | 9.06      | Spike             | P         | 0 - 45         |
| 2438596                  | Mevinphos           | 16.2      | Spike             | P         | 0 - 29         |
| 2438596                  | Molinate            | 13.0      | Spike             | P         | 0 - 33         |
| 2438596                  | Myclobutanil        | 9.96      | Spike             | P         | 0 - 26         |
| 2438596                  | Naled               | 3.64      | Spike             | P         | 0 - 37         |
| 2438596                  | Napropamide         | 6.01      | Spike             | P         | 0 - 44         |
| 2438596                  | Norflurazon         | 24.5      | Spike             | P         | 0 - 30         |
| 2438596                  | Octinoxate          | 1.94      | Spike             | P         | 0 - 45         |
| 2438596                  | Oxadiazon           | 13.3      | Spike             | P         | 0 - 28         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P435385

| Replicated<br>Lab Sample | Component                                     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------------------------------------------|-----------|-------------------|-----------|----------------|
| 2438596                  | Oxybenzone                                    | 5.72      | Spike             | P         | 0 - 46         |
| 2438596                  | Oxyfluorfen                                   | 19.7      | Spike             | P         | 0 - 28         |
| 2438596                  | Parathion Ethyl                               | 4.09      | Spike             | P         | 0 - 31         |
| 2438596                  | Parathion Methyl                              | 13.6      | Spike             | P         | 0 - 29         |
| 2438596                  | PBB-153                                       | 13.4      | Spike             | P         | 0 - 30         |
| 2438596                  | PBDE-47                                       | 6.45      | Spike             | P         | 0 - 36         |
| 2438596                  | PBDE-99                                       | 12.3      | Spike             | P         | 0 - 40         |
| 2438596                  | Pendimethalin                                 | 13.2      | Spike             | P         | 0 - 33         |
| 2438596                  | Pentabromotoluene                             | 2.28      | Spike             | P         | 0 - 30         |
| 2438596                  | Phenytoin                                     | 14.2      | Spike             | P         | 0 - 100        |
| 2438596                  | Phorate                                       | 7.16      | Spike             | P         | 0 - 36         |
| 2438596                  | Prodiamine                                    | 4.67      | Spike             | P         | 0 - 71         |
| 2438596                  | Prometon                                      | 22.9      | Spike             | P         | 0 - 36         |
| 2438596                  | Prometryn                                     | 6.84      | Spike             | P         | 0 - 28         |
| 2438596                  | Pronamide                                     | 6.41      | Spike             | P         | 0 - 24         |
| 2438596                  | Propanil                                      | 27.6      | Spike             | P         | 0 - 28         |
| 2438596                  | Propargite                                    | 5.21      | Spike             | P         | 0 - 43         |
| 2438596                  | Propiconazole                                 | 18.1      | Spike             | P         | 0 - 33         |
| 2438596                  | Pyraflufen Ethyl                              | 16.9      | Spike             | P         | 0 - 29         |
| 2438596                  | Pyridaben                                     | 20.6      | Spike             | P         | 0 - 30         |
| 2438596                  | Pyriproxyfen                                  | 14.6      | Spike             | P         | 0 - 79         |
| 2438596                  | Simazine                                      | 1.48      | Spike             | P         | 0 - 29         |
| 2438596                  | Stiropfos                                     | 4.61      | Spike             | P         | 0 - 61         |
| 2438596                  | Sulfentrazone                                 | 28.2      | Spike             | P         | 0 - 33         |
| 2438596                  | Tebuconazole                                  | 2.28      | Spike             | P         | 0 - 69         |
| 2438596                  | Terbufos                                      | 11.1      | Spike             | P         | 0 - 29         |
| 2438596                  | Terbuthylazine                                | 0.556     | Spike             | P         | 0 - 32         |
| 2438596                  | Tetradecachloro-m-terphenyl                   | 24.2      | Spike             | P         | 0 - 30         |
| 2438596                  | Thiobencarb                                   | 6.22      | Spike             | P         | 0 - 26         |
| 2438596                  | Tri-o-cresyl Phosphate                        | 7.61      | Spike             | P         | 0 - 33         |
| 2438596                  | Triadimefon                                   | 13.4      | Spike             | P         | 0 - 28         |
| 2438596                  | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 3.90      | Spike             | P         | 0 - 30         |
| 2438596                  | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 2.12      | Spike             | P         | 0 - 30         |
| 2438596                  | Tris(2-chloroethyl) phosphate (TCEP)          | 4.23      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B

Batch ID: P435287

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2438447                  | Acesulfame K | 1.63      | Spike             | P         | 0 - 30         |
| 2438447                  | AMPA         | 4.55      | Spike             | P         | 0 - 30         |
| 2438447                  | Endothall    | 2.35      | Spike             | P         | 0 - 30         |
| 2438447                  | Glufosinate  | 0.896     | Spike             | P         | 0 - 30         |
| 2438447                  | Glyphosate   | 3.67      | Spike             | P         | 0 - 30         |
| 2438447                  | Sucralose    | 6.28      | Spike             | P         | 0 - 30         |

## Quality Assurance Report Precision

Reference Method: EPA 8321B  
Batch ID: P435330

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2438478                  | 2,4-D            | 15.7      | Spike             | P         | 0 - 30         |
| 2438478                  | 2,4,5-T          | 17.4      | Spike             | P         | 0 - 30         |
| 2438478                  | Acetaminophen    | 3.41      | Spike             | P         | 0 - 30         |
| 2438478                  | Acetamiprid      | 8.83      | Spike             | P         | 0 - 30         |
| 2438478                  | Afidopyropen     | 18.0      | Spike             | P         | 0 - 30         |
| 2438478                  | Bentazon         | 5.98      | Spike             | P         | 0 - 30         |
| 2438478                  | Benzovindiflupyr | 1.48      | Spike             | P         | 0 - 30         |
| 2438478                  | Carbamazepine    | 1.38      | Spike             | P         | 0 - 30         |
| 2438478                  | Clothianidin     | 2.21      | Spike             | P         | 0 - 30         |
| 2438478                  | Dinotefuran      | 2.64      | Spike             | P         | 0 - 30         |
| 2438478                  | Diuron           | 3.61      | Spike             | P         | 0 - 30         |
| 2438478                  | Fenuron          | 3.26      | Spike             | P         | 0 - 30         |
| 2438478                  | Fluridone        | 3.13      | Spike             | P         | 0 - 30         |
| 2438478                  | Hydrocodone      | 1.99      | Spike             | P         | 0 - 30         |
| 2438478                  | Ibuprofen        | 1.16      | Spike             | P         | 0 - 30         |
| 2438478                  | Imazapyr         | 0.173     | Spike             | P         | 0 - 30         |
| 2438478                  | Imidacloprid     | 4.44      | Spike             | P         | 0 - 30         |
| 2438478                  | Linuron          | 7.45      | Spike             | P         | 0 - 30         |
| 2438478                  | Mandestrobin     | 3.28      | Spike             | P         | 0 - 30         |
| 2438478                  | MCPP             | 11.5      | Spike             | P         | 0 - 30         |
| 2438478                  | Naproxen         | 6.39      | Spike             | P         | 0 - 30         |
| 2438478                  | Primidone        | 3.91      | Spike             | P         | 0 - 30         |
| 2438478                  | Pyraclostrobin   | 2.19      | Spike             | P         | 0 - 30         |
| 2438478                  | Silvex           | 14.3      | Spike             | P         | 0 - 30         |
| 2438478                  | Thiamethoxam     | 2.70      | Spike             | P         | 0 - 30         |
| 2438478                  | Tolfenpyrad      | 20.4      | Spike             | P         | 0 - 30         |
| 2438478                  | Triclopyr        | 15.8      | Spike             | P         | 0 - 30         |

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

## Quality Assurance Report Surrogates

Lab Sample ID: 2438592

Field Sample ID: G2SW0169

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 103    | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 95.7   | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 63.8   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 51.9   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 116    | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 107    | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 48.8   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 64.2   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 104    | P         | 30 - 160       |

Lab Sample ID: 2438596

Field Sample ID: G2SW0115

| Reference Method | Surrogate     | % Rec. | Pass/Fail | Control Limits |
|------------------|---------------|--------|-----------|----------------|
| EPA 8270E        | Caffeine-d9   | 76.6   | P         | 20 - 200       |
| EPA 8270E        | Simazine-d10  | 80.5   | P         | 62 - 142       |
| EPA 8270E        | Terbufos-d10  | 93.1   | P         | 58 - 132       |
| EPA 8270E        | Terphenyl-d14 | 88.7   | P         | 52 - 137       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B  
Run ID: A121665  
Included Lab Sample IDs: 2438592

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 104     | 100     | P/P        | 60 - 160       |
| Sucralose    | 99.2    | 97.8    | P/P        | 60 - 160       |

Reference Method: EPA 8321B  
Run ID: A121666  
Included Lab Sample IDs: 2438592

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA        | 107     | 104     | P/P        | 60 - 160       |
| Endothall   | 92.6    | 95.9    | P/P        | 60 - 160       |
| Glufosinate | 111     | 107     | P/P        | 60 - 160       |
| Glyphosate  | 92.7    | 92.6    | P/P        | 60 - 160       |

Reference Method: EPA 200.8 Rev. 5.4  
Run ID: A121737  
Included Lab Sample IDs: 2438594, 2438595

| Component  | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------|---------|---------|------------|----------------|
| Aluminum   | 98.3    | 98.3    | P/P        | 90 - 110       |
| Aluminum   | 98.3    | 95.5    | P/P        | 90 - 110       |
| Antimony   | 96.8    | 96.6    | P/P        | 90 - 110       |
| Antimony   | 97.8    | 96.8    | P/P        | 90 - 110       |
| Arsenic    | 101     | 97.7    | P/P        | 90 - 110       |
| Arsenic    | 97.7    | 96.3    | P/P        | 90 - 110       |
| Barium     | 102     | 99.9    | P/P        | 90 - 110       |
| Barium     | 99.9    | 100     | P/P        | 90 - 110       |
| Beryllium  | 100     | 98.2    | P/P        | 90 - 110       |
| Beryllium  | 98.2    | 96.6    | P/P        | 90 - 110       |
| Boron      | 92.9    | 98.8    | P/P        | 90 - 110       |
| Boron      | 98.8    | 94.1    | P/P        | 90 - 110       |
| Cadmium    | 101     | 100     | P/P        | 90 - 110       |
| Cadmium    | 102     | 101     | P/P        | 90 - 110       |
| Chromium   | 101     | 101     | P/P        | 90 - 110       |
| Chromium   | 101     | 98.6    | P/P        | 90 - 110       |
| Cobalt     | 96.5    | 94.1    | P/P        | 90 - 110       |
| Cobalt     | 98.1    | 96.5    | P/P        | 90 - 110       |
| Copper     | 94.3    | 92.4    | P/P        | 90 - 110       |
| Copper     | 96.7    | 94.3    | P/P        | 90 - 110       |
| Lead       | 93.1    | 91.9    | P/P        | 90 - 110       |
| Lead       | 93.6    | 93.1    | P/P        | 90 - 110       |
| Manganese  | 100     | 101     | P/P        | 90 - 110       |
| Manganese  | 101     | 99.0    | P/P        | 90 - 110       |
| Molybdenum | 97.0    | 96.1    | P/P        | 90 - 110       |
| Molybdenum | 98.8    | 97.0    | P/P        | 90 - 110       |
| Nickel     | 95.7    | 93.8    | P/P        | 90 - 110       |
| Nickel     | 98.9    | 95.7    | P/P        | 90 - 110       |
| Selenium   | 100     | 101     | P/P        | 90 - 110       |
| Selenium   | 104     | 100     | P/P        | 90 - 110       |
| Silver     | 100     | 99.1    | P/P        | 90 - 110       |
| Silver     | 99.1    | 98.3    | P/P        | 90 - 110       |
| Thallium   | 97.1    | 96.3    | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A121737

Included Lab Sample IDs: 2438594, 2438595

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Thallium  | 97.1    | 97.1    | P/P        | 90 - 110       |

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A121758

Included Lab Sample IDs: 2438594, 2438595

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Calcium   | 103     | 100     | P/P        | 95 - 105       |
| Calcium   | 103     | 102     | P/P        | 90 - 110       |
| Iron      | 103     | 102     | P/P        | 95 - 105       |
| Iron      | 104     | 104     | P/P        | 90 - 110       |
| Magnesium | 103     | 101     | P/P        | 95 - 105       |
| Magnesium | 103     | 103     | P/P        | 90 - 110       |
| Potassium | 100     | 101     | P/P        | 90 - 110       |
| Potassium | 100     | 99.1    | P/P        | 95 - 105       |
| Sodium    | 101     | 98.4    | P/P        | 95 - 105       |
| Sodium    | 99.4    | 100     | P/P        | 90 - 110       |
| Strontium | 95.9    | 95.9    | P/P        | 90 - 110       |
| Strontium | 97.2    | 96.7    | P/P        | 95 - 105       |
| Tin       | 96.4    | 95.4    | P/P        | 90 - 110       |
| Tin       | 97.4    | 95.6    | P/P        | 95 - 105       |
| Titanium  | 100     | 98.3    | P/P        | 95 - 105       |
| Titanium  | 98.9    | 98.2    | P/P        | 90 - 110       |
| Vanadium  | 97.9    | 97.0    | P/P        | 90 - 110       |
| Vanadium  | 99.2    | 96.8    | P/P        | 95 - 105       |
| Zinc      | 98.5    | 97.5    | P/P        | 90 - 110       |
| Zinc      | 99.6    | 98.2    | P/P        | 95 - 105       |

Reference Method: EPA 8321B

Run ID: A121760

Included Lab Sample IDs: 2438592

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| 2,4-D            | 60.2    | 64.1    | P/P        | 50 - 150       |
| 2,4,5-T          | 81.6    | 68.8    | P/P        | 50 - 150       |
| Acetaminophen    | 104     | 103     | P/P        | 60 - 160       |
| Acetamiprid      | 106     | 107     | P/P        | 50 - 150       |
| Afidopyropen     | 103     | 98.3    | P/P        | 50 - 150       |
| Bentazon         | 84.9    | 81.4    | P/P        | 50 - 160       |
| Benzovindiflupyr | 106     | 102     | P/P        | 50 - 150       |
| Carbamazepine    | 101     | 103     | P/P        | 60 - 150       |
| Clothianidin     | 101     | 94.1    | P/P        | 60 - 150       |
| Dinotefuran      | 104     | 107     | P/P        | 50 - 150       |
| Diuron           | 117     | 109     | P/P        | 60 - 160       |
| Fenuron          | 106     | 104     | P/P        | 60 - 150       |
| Fluridone        | 110     | 109     | P/P        | 60 - 160       |
| Hydrocodone      | 108     | 108     | P/P        | 60 - 150       |
| Ibuprofen        | 81.1    | 64.5    | P/P        | 50 - 160       |
| Imazapyr         | 73.6    | 68.8    | P/P        | 50 - 150       |
| Imidacloprid     | 97.8    | 97.8    | P/P        | 60 - 150       |
| Linuron          | 99.2    | 96.3    | P/P        | 60 - 150       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B  
Run ID: A121760  
Included Lab Sample IDs: 2438592

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Mandestrobin   | 110     | 108     | P/P        | 50 - 150       |
| MCPD           | 68.7    | 68.9    | P/P        | 50 - 150       |
| Naproxen       | 90.7    | 103     | P/P        | 50 - 160       |
| Primidone      | 88.4    | 95.5    | P/P        | 60 - 150       |
| Pyraclostrobin | 105     | 105     | P/P        | 60 - 150       |
| Silvex         | 68.9    | 65.2    | P/P        | 50 - 150       |
| Thiamethoxam   | 112     | 114     | P/P        | 50 - 150       |
| Tolfenpyrad    | 104     | 101     | P/P        | 60 - 150       |
| Triclopyr      | 66.4    | 68.2    | P/P        | 50 - 150       |

Reference Method: EPA 8270E  
Run ID: A121808  
Included Lab Sample IDs: 2438596

| Component                                       | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------------------------------------|---------|---------|------------|----------------|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 92.1    |         | P          | 80 - 120       |
| Avobenzone                                      | 96.4    |         | P          | 80 - 120       |
| Dechlorane 602                                  | 98.4    |         | P          | 80 - 120       |
| Dechlorane 603                                  | 102     |         | P          | 80 - 120       |
| Dechlorane Plus                                 | 103     |         | P          | 80 - 120       |
| Hexabromobenzene                                | 90.4    |         | P          | 80 - 120       |
| Octinoxate                                      | 92.4    |         | P          | 80 - 120       |
| Oxybenzone                                      | 96.1    |         | P          | 80 - 120       |
| PBB-153                                         | 92.8    |         | P          | 80 - 120       |
| PBDE-47                                         | 91.9    |         | P          | 80 - 120       |
| PBDE-99                                         | 86.0    |         | P          | 80 - 120       |
| Pentabromotoluene                               | 102     |         | P          | 80 - 120       |
| Tetradecachloro-m-terphenyl                     | 97.3    |         | P          | 80 - 120       |
| Tri-o-cresyl Phosphate                          | 95.0    |         | P          | 80 - 120       |
| Tris(1-chloro-2-propyl) phosphate (TCPP)        | 98.4    |         | P          | 80 - 120       |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)   | 100     |         | P          | 80 - 120       |
| Tris(2-chloroethyl) phosphate (TCEP)            | 104     |         | P          | 80 - 120       |

Reference Method: EPA 8270E  
Run ID: A121810  
Included Lab Sample IDs: 2438596

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Acetochlor          | 88.3    |         | P          | 80 - 120       |
| Alachlor            | 89.3    |         | P          | 80 - 120       |
| Ametryn             | 102     |         | P          | 80 - 120       |
| Atrazine            | 91.2    |         | P          | 80 - 120       |
| Atrazine Desethyl   | 103     |         | P          | 80 - 120       |
| Azinphos Methyl     | 104     |         | P          | 80 - 120       |
| Azoxystrobin        | 102     |         | P          | 80 - 120       |
| Bromacil            | 93.6    |         | P          | 80 - 120       |
| Butylate            | 108     |         | P          | 80 - 120       |
| Caffeine            | 93.1    |         | P          | 80 - 120       |
| Carbophenothion     | 89.2    |         | P          | 80 - 120       |
| Carfentrazone Ethyl | 98.2    |         | P          | 80 - 120       |
| Chlorfenapyr        | 92.3    |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E  
Run ID: A121810  
Included Lab Sample IDs: 2438596

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Chlorpyrifos Ethyl  | 90.9    |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 109     |         | P          | 80 - 120       |
| Coumaphos           | 95.2    |         | P          | 80 - 120       |
| Cyanazine           | 96.6    |         | P          | 80 - 120       |
| Cyprodinil          | 112     |         | P          | 80 - 120       |
| Demeton             | 105     |         | P          | 80 - 120       |
| Diazinon            | 94.0    |         | P          | 80 - 120       |
| Difenoconazole      | 97.0    |         | P          | 80 - 120       |
| Dimethenamid        | 105     |         | P          | 80 - 120       |
| Dimethomorph        | 95.9    |         | P          | 80 - 120       |
| Disulfoton          | 94.3    |         | P          | 80 - 120       |
| Dithiopyr           | 99.1    |         | P          | 80 - 120       |
| EPTC                | 102     |         | P          | 80 - 120       |
| Ethion              | 84.8    |         | P          | 80 - 120       |
| Ethoprop            | 87.6    |         | P          | 80 - 120       |
| Etridiazole         | 98.5    |         | P          | 80 - 120       |
| Fenamiphos          | 84.7    |         | P          | 80 - 120       |
| Fenbuconazole       | 83.0    |         | P          | 80 - 120       |
| Fipronil            | 85.5    |         | P          | 80 - 120       |
| Fipronil Desulfinyl | 98.0    |         | P          | 80 - 120       |
| Fipronil Sulfide    | 96.3    |         | P          | 80 - 120       |
| Fipronil Sulfone    | 104     |         | P          | 80 - 120       |
| Fluazifop-P-butyl   | 106     |         | P          | 80 - 120       |
| Fludioxonil         | 108     |         | P          | 80 - 120       |
| Flumioxazin         | 91.6    |         | P          | 80 - 120       |
| Flutolanil          | 104     |         | P          | 80 - 120       |
| Fluxapyroxad        | 106     |         | P          | 80 - 120       |
| Fonofos             | 96.6    |         | P          | 80 - 120       |
| Hexazinone          | 99.4    |         | P          | 80 - 120       |
| Imazalil            | 96.6    |         | P          | 80 - 120       |
| Iprodione           | 95.7    |         | P          | 80 - 120       |
| Loratadine          | 85.2    |         | P          | 80 - 120       |
| Malathion           | 105     |         | P          | 80 - 120       |
| Metaxyl             | 87.1    |         | P          | 80 - 120       |
| Metolachlor         | 96.6    |         | P          | 80 - 120       |
| Metribuzin          | 102     |         | P          | 80 - 120       |
| Mevinphos           | 80.4    |         | P          | 80 - 120       |
| Molinate            | 92.6    |         | P          | 80 - 120       |
| Myclobutanil        | 92.2    |         | P          | 80 - 120       |
| Naled               | 114     |         | P          | 80 - 120       |
| Napropamide         | 97.1    |         | P          | 80 - 120       |
| Norflurazon         | 93.4    |         | P          | 80 - 120       |
| Oxadiazon           | 93.7    |         | P          | 80 - 120       |
| Oxyfluorfen         | 94.7    |         | P          | 80 - 120       |
| Parathion Ethyl     | 97.1    |         | P          | 80 - 120       |
| Parathion Methyl    | 95.1    |         | P          | 80 - 120       |
| Pendimethalin       | 108     |         | P          | 80 - 120       |
| Phenytoin           | 106     |         | P          | 80 - 120       |
| Phorate             | 87.2    |         | P          | 80 - 120       |
| Prodiamine          | 100     |         | P          | 80 - 120       |
| Prometon            | 101     |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E  
Run ID: A121810  
Included Lab Sample IDs: 2438596

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Prometryn        | 110     |         | P          | 80 - 120       |
| Pronamide        | 97.6    |         | P          | 80 - 120       |
| Propanil         | 86.6    |         | P          | 80 - 120       |
| Propargite       | 98.2    |         | P          | 80 - 120       |
| Propiconazole    | 83.9    |         | P          | 80 - 120       |
| Pyraflufen Ethyl | 92.7    |         | P          | 80 - 120       |
| Pyridaben        | 91.4    |         | P          | 80 - 120       |
| Pyriproxyfen     | 92.9    |         | P          | 80 - 120       |
| Simazine         | 98.0    |         | P          | 80 - 120       |
| Stirophos        | 103     |         | P          | 80 - 120       |
| Sulfentrazone    | 112     |         | P          | 80 - 120       |
| Tebuconazole     | 98.6    |         | P          | 80 - 120       |
| Terbufos         | 97.3    |         | P          | 80 - 120       |
| Terbutylazine    | 89.2    |         | P          | 80 - 120       |
| Thiobencarb      | 95.2    |         | P          | 80 - 120       |
| Triadimefon      | 102     |         | P          | 80 - 120       |

\* 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<br>SMP | MS    |
|--------------------|-------------------------------------------------------|----------------|---------------|------|------|-----|------------------|-------|
| EPA 200.7 Rev. 4.4 | Calcium                                               | 104            | 106           | 106  |      |     |                  | 0.737 |
|                    | Iron                                                  | 106            | 105           | 106  | 105  |     |                  | 1.05  |
|                    | Magnesium                                             | 105            | 101           | 104  | 104  |     |                  | 1.34  |
|                    | Potassium                                             | 102            | 97.5          | 99.5 | 99.9 |     |                  | 1.19  |
|                    | Sodium                                                | 101            | 102           | 103  |      |     |                  | 0.431 |
|                    | Strontium                                             | 99.0           | 99.2          | 99.4 | 99.4 |     |                  | 0.248 |
|                    | Tin                                                   | 100            | 100           | 96.5 | 99.5 |     |                  | 3.83  |
|                    | Titanium                                              | 99.8           | 101           | 99.4 | 99.9 |     |                  | 1.58  |
|                    | Vanadium                                              | 99.3           | 101           | 99.5 | 102  |     |                  | 1.44  |
|                    | Zinc                                                  | 99.2           | 102           | 101  | 101  |     |                  | 1.16  |
|                    |                                                       |                |               |      |      |     |                  |       |
| EPA 200.8 Rev. 5.4 | Aluminum                                              | 97.2           | 98.5          | 99.3 | 94.5 |     |                  | 0.762 |
|                    | Antimony                                              | 98.8           | 101           | 101  | 98.3 |     |                  | 0.593 |
|                    | Arsenic                                               | 98.6           | 99.1          | 99.4 | 97.7 |     |                  | 0.342 |
|                    | Barium                                                | 103            | 103           | 103  | 102  |     |                  | 0.272 |
|                    | Beryllium                                             | 98.0           | 98.8          | 96.5 | 98.5 |     |                  | 2.37  |
|                    | Boron                                                 | 98.2           | 101           | 103  | 95.9 |     |                  | 1.81  |
|                    | Cadmium                                               | 98.2           | 103           | 101  | 101  |     |                  | 2.05  |
|                    | Chromium                                              | 97.6           | 98.4          | 99.6 | 96.5 |     |                  | 1.20  |
|                    | Cobalt                                                | 96.5           | 96.1          | 96.7 | 94.9 |     |                  | 0.554 |
|                    | Copper                                                | 95.9           | 95.9          | 96.1 | 94.1 |     |                  | 0.172 |
|                    | Lead                                                  | 93.8           | 95.7          | 95.4 | 95.0 |     |                  | 0.372 |
|                    | Manganese                                             | 97.4           | 95.7          | 101  | 97.5 |     |                  | 1.93  |
|                    | Molybdenum                                            | 97.9           | 98.5          | 98.1 | 98.0 |     |                  | 0.387 |
|                    | Nickel                                                | 95.8           | 95.1          | 95.2 | 94.0 |     |                  | 0.170 |
|                    | Selenium                                              | 101            | 103           | 99.8 | 99.2 |     |                  | 3.07  |
|                    | Silver                                                | 111            | 109           | 109  | 108  |     |                  | 0.361 |
|                    | Thallium                                              | 100            | 103           | 103  | 101  |     |                  | 0.661 |
|                    | 2-Ethylhexyl<br>2,3,4,5-tetrabromobenzoate<br>(EHTBB) | 142            | 131           | 120  |      |     |                  | 8.81  |
|                    |                                                       |                |               |      |      |     |                  |       |
|                    | Acetochlor                                            | 85.2           | 93.9          | 83.0 |      |     |                  | 12.4  |
| EPA 8270E          | Alachlor                                              | 80.3           | 75.9          | 70.9 |      |     |                  | 6.82  |
|                    | Ametryn                                               | 111            | 116           | 134  |      |     |                  | 14.6  |
|                    | Atrazine                                              | 109            | 106           | 104  |      |     |                  | 1.42  |
|                    | Atrazine Desethyl                                     | 92.3           | 97.3          | 100  |      |     |                  | 3.12  |
|                    | Avobenzone                                            | 184            | 156           | 170  |      |     |                  | 8.03  |
|                    | Azinphos Methyl                                       | 191            | 220           | 200  |      |     |                  | 9.16  |
|                    | Azoxystrobin                                          | 118            | 151           | 120  |      |     |                  | 16.2  |
|                    | Bromacil                                              | 94.6           |               |      |      |     |                  | 32.5  |
|                    | Butylate                                              | 51.6           | 54.5          | 65.3 |      |     |                  | 18.0  |
|                    | Caffeine                                              | 122            | 139           | 136  |      |     |                  | 2.00  |
|                    | Carbophenothion                                       | 104            | 122           | 95.5 |      |     |                  | 24.0  |
|                    | Carfentrazone Ethyl                                   | 122            | 140           | 112  |      |     |                  | 22.5  |
|                    | Chlorfenapyr                                          | 106            | 106           | 91.0 |      |     |                  | 15.0  |
|                    | Chlorpyrifos Ethyl                                    | 74.3           | 123           | 110  |      |     |                  | 10.9  |
|                    | Chlorpyrifos Methyl                                   | 108            | 118           | 96.8 |      |     |                  | 20.0  |
|                    | Coumaphos                                             | 172            | 178           | 202  |      |     |                  | 12.8  |
|                    | Cyanazine                                             | 141            | 159           | 126  |      |     |                  | 23.4  |
|                    | Cyprodinil                                            | 80.9           | 114           | 73.3 |      |     |                  | 23.8  |
|                    | Dechlorane 602                                        | 96.1           | 75.0          | 63.1 |      |     |                  | 17.2  |
|                    | Dechlorane 603                                        | 159            | 149           | 139  |      |     |                  | 7.17  |
|                    | Dechlorane Plus                                       | 170            | 146           | 148  |      |     |                  | 1.88  |
|                    | Demeton                                               | 97.4           | 84.0          | 91.6 |      |     |                  | 8.66  |
|                    | Diazinon                                              | 115            | 108           | 110  |      |     |                  | 1.46  |

## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery | MS % Recovery |      | LCS | Precision | MS    |
|-------------|---------------------|----------------|---------------|------|-----|-----------|-------|
|             |                     |                |               |      |     | SMP       |       |
| EPA 8270E   | Difenoconazole      | 179            | 170           | 171  |     |           | 0.756 |
|             | Dimethenamid        | 85.8           | 94.8          | 82.3 |     |           | 14.0  |
|             | Dimethomorph        | 127            | 189           | 146  |     |           | 25.6  |
|             | Disulfoton          | 92.7           | 102           | 77.7 |     |           | 26.8  |
|             | Dithiopyr           | 89.4           | 96.7          | 90.6 |     |           | 6.50  |
|             | EPTC                | 47.0           | 50.3          | 65.0 |     |           | 25.6  |
|             | Ethion              | 73.3           | 55.8          | 62.0 |     |           | 10.6  |
|             | Ethoprop            | 110            | 116           | 119  |     |           | 2.51  |
|             | Etridiazole         | 45.5           | 62.8          | 55.0 |     |           | 13.2  |
|             | Fenamiphos          | 105            | 85.4          | 87.0 |     |           | 1.86  |
|             | Fenbuconazole       | 96.2           | 96.1          | 80.8 |     |           | 17.4  |
|             | Fipronil            | 79.6           | 100           | 81.3 |     |           | 20.0  |
|             | Fipronil Desulfinyl | 86.9           | 124           | 73.0 |     |           | 28.3  |
|             | Fipronil Sulfide    | 83.2           | 110           | 65.6 |     |           | 21.9  |
|             | Fipronil Sulfone    | 77.1           | 120           | 62.6 |     |           | 26.5  |
|             | Fluazifop-P-butyl   | 96.6           | 106           | 88.3 |     |           | 18.5  |
|             | Fludioxonil         | 77.6           | 118           | 93.5 |     |           | 6.70  |
|             | Flumioxazin         | 201            | 199           | 174  |     |           | 13.7  |
|             | Flutolanil          | 80.4           | 65.7          | 60.3 |     |           | 7.50  |
|             | Fluxapyroxad        | 187            | 155           | 148  |     |           | 1.54  |
|             | Fonofos             | 104            | 106           | 96.8 |     |           | 9.27  |
|             | Hexabromobenzene    | 122            | 122           | 118  |     |           | 2.91  |
|             | Hexazinone          | 110            | 106           | 109  |     |           | 3.12  |
|             | Imazalil            | 80.7           | 78.7          | 74.7 |     |           | 5.20  |
|             | Iprodione           | 240            | 92.2          | 90.1 |     |           | 2.34  |
|             | Loratadine          | 169            | 193           | 183  |     |           | 5.50  |
|             | Malathion           | 155            | 167           | 144  |     |           | 14.5  |
|             | Metalaxyl           | 88.3           | 93.6          | 80.4 |     |           | 11.9  |
|             | Metolachlor         | 90.3           | 99.8          | 90.0 |     |           | 10.3  |
|             | Metribuzin          | 106            | 111           | 101  |     |           | 9.06  |
|             | Mevinphos           | 94.3           | 118           | 100  |     |           | 16.2  |
|             | Molinate            | 71.0           | 61.9          | 70.6 |     |           | 13.0  |
|             | Myclobutanil        | 79.1           | 95.0          | 73.8 |     |           | 9.96  |
|             | Naled               | 38.7           | 53.3          | 51.4 |     |           | 3.64  |
|             | Napropamide         | 79.1           | 81.3          | 76.6 |     |           | 6.01  |
|             | Norflurazon         | 86.4           | 105           | 77.6 |     |           | 24.5  |
|             | Octinoxate          | 135            | 129           | 127  |     |           | 1.94  |
|             | Oxadiazon           | 77.5           | 90.5          | 79.1 |     |           | 13.3  |
|             | Oxybenzone          | 134            | 133           | 126  |     |           | 5.72  |
|             | Oxyfluorfen         | 119            | 134           | 101  |     |           | 19.7  |
|             | Parathion Ethyl     | 107            | 106           | 102  |     |           | 4.09  |
|             | Parathion Methyl    | 127            | 137           | 119  |     |           | 13.6  |
|             | PBB-153             | 152            | 143           | 125  |     |           | 13.4  |
|             | PBDE-47             | 109            | 95.1          | 89.2 |     |           | 6.45  |
|             | PBDE-99             | 111            | 95.2          | 84.1 |     |           | 12.3  |
|             | Pendimethalin       | 93.2           | 109           | 95.9 |     |           | 13.2  |
|             | Pentabromotoluene   | 118            | 111           | 114  |     |           | 2.28  |
|             | Phenytoin           | 76.0           | 56.6          | 65.2 |     |           | 14.2  |
|             | Phorate             | 69.3           | 70.4          | 75.6 |     |           | 7.16  |
|             | Prodiamine          | 39.0           | 55.0          | 58.7 |     |           | 4.67  |
|             | Prometon            | 104            | 74.1          | 93.3 |     |           | 22.9  |
|             | Prometryn           | 80.7           | 90.2          | 84.2 |     |           | 6.84  |
|             | Pronamide           | 106            | 108           | 102  |     |           | 6.41  |
|             | Propanil            | 87.6           | 107           | 81.3 |     |           | 27.6  |

## Quality Assurance Report Summary

| Ref. Method | Analyte                                       | LCS % Recovery | MS % Recovery |      | Precision<br>SMP | MS    |
|-------------|-----------------------------------------------|----------------|---------------|------|------------------|-------|
|             |                                               |                | LCS           |      |                  |       |
| EPA 8270E   | Propargite                                    | 104            | 82.5          | 78.4 |                  | 5.21  |
|             | Propiconazole                                 | 87.5           | 93.3          | 73.7 |                  | 18.1  |
|             | Pyraflufen Ethyl                              | 98.2           | 117           | 98.5 |                  | 16.9  |
|             | Pyridaben                                     | 129            | 159           | 129  |                  | 20.6  |
|             | Pyriproxyfen                                  | 104            | 99.4          | 85.9 |                  | 14.6  |
|             | Simazine                                      | 99.7           | 102           | 101  |                  | 1.48  |
|             | Stirophos                                     | 166            | 147           | 140  |                  | 4.61  |
|             | Sulfentrazone                                 | 83.8           | 55.6          | 92.4 |                  | 28.2  |
|             | Tebuconazole                                  | 70.1           | 54.1          | 55.4 |                  | 2.28  |
|             | Terbufos                                      | 127            | 129           | 115  |                  | 11.1  |
|             | Terbutylazine                                 | 97.3           | 91.8          | 91.3 |                  | 0.556 |
|             | Tetradecachloro-m-terphenyl                   | 147            | 121           | 154  |                  | 24.2  |
|             | Thiobencarb                                   | 89.2           | 94.3          | 88.6 |                  | 6.22  |
|             | Tri-o-cresyl Phosphate                        | 145            | 139           | 129  |                  | 7.61  |
|             | Triadimefon                                   | 92.3           | 87.5          | 76.5 |                  | 13.4  |
|             | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 139            | 139           | 134  |                  | 3.90  |
|             | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 130            | 125           | 123  |                  | 2.12  |
|             | Tris(2-chloroethyl) phosphate (TCEP)          | 138            | 127           | 121  |                  | 4.23  |
| EPA 8321B   | 2,4-D                                         | 64.1           | 72.9          | 86.7 |                  | 15.7  |
|             | 2,4,5-T                                       | 75.9           | 69.7          | 83.0 |                  | 17.4  |
|             | Acesulfame K                                  | 103            | 108           | 110  |                  | 1.63  |
|             | Acetaminophen                                 | 90.8           | 80.2          | 83.0 |                  | 3.41  |
|             | Acetamiprid                                   | 91.5           | 57.0          | 62.3 |                  | 8.83  |
|             | Afidopyropen                                  | 66.3           | 61.4          | 73.5 |                  | 18.0  |
|             | AMPA                                          | 116            | 93.3          | 89.2 |                  | 4.55  |
|             | Bentazon                                      | 64.8           | 16.7          | 21.1 |                  | 5.98  |
|             | Benzovindiflupyr                              | 88.5           | 89.2          | 90.5 |                  | 1.48  |
|             | Carbamazepine                                 | 84.0           | 59.7          | 58.9 |                  | 1.38  |
|             | Clothianidin                                  | 88.7           | 63.9          | 65.4 |                  | 2.21  |
|             | Dinotefuran                                   | 96.2           | 68.6          | 70.4 |                  | 2.64  |
|             | Diuron                                        | 88.2           | 53.5          | 51.6 |                  | 3.61  |
|             | Endothall                                     | 93.4           | 103           | 105  |                  | 2.35  |
|             | Fenuron                                       | 91.8           | 44.0          | 45.5 |                  | 3.26  |
|             | Fluridone                                     | 90.9           | 64.0          | 67.6 |                  | 3.13  |
|             | Glufosinate                                   | 105            | 80.4          | 81.2 |                  | 0.896 |
|             | Glyphosate                                    | 77.1           | 68.5          | 66.1 |                  | 3.67  |
|             | Hydrocodone                                   | 86.4           | 52.6          | 53.6 |                  | 1.99  |
|             | Ibuprofen                                     | 43.6           | 38.6          | 38.2 |                  | 1.16  |
|             | Imazapyr                                      | 68.4           | 62.6          | 62.5 |                  | 0.173 |
|             | Imidacloprid                                  | 85.6           | 108           | 113  |                  | 4.44  |
|             | Linuron                                       | 63.3           | 60.5          | 56.2 |                  | 7.45  |
|             | Mandestrobin                                  | 92.1           | 83.9          | 86.7 |                  | 3.28  |
|             | MCPP                                          | 94.7           | 79.6          | 89.3 |                  | 11.5  |
|             | Naproxen                                      | 60.4           | 77.8          | 73.0 |                  | 6.39  |
|             | Primidone                                     | 80.9           | 60.3          | 63.0 |                  | 3.91  |
|             | Pyraclostrobin                                | 81.5           | 83.0          | 84.9 |                  | 2.19  |
|             | Silvex                                        | 72.2           | 60.8          | 70.1 |                  | 14.3  |
|             | Sucralose                                     | 95.2           | 102           | 94.4 |                  | 6.28  |
|             | Thiamethoxam                                  | 98.7           | 68.6          | 70.5 |                  | 2.70  |
|             | Tolfenpyrad                                   | 60.4           | 48.0          | 59.0 |                  | 20.4  |
|             | Triclopyr                                     | 83.1           | 72.5          | 84.9 |                  | 15.8  |

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## Reference Method Descriptions

| Method             | Description                                                                                                               | <u>Associated Samples</u> |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|
| EPA 200.7 Rev. 4.4 | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2438594, 2438595          |
| EPA 200.8 Rev. 5.4 | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 2438594, 2438595          |
| EPA 8270E          | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM                                                | 2438596                   |
| EPA 8270E          | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                                    | 2438596                   |
| EPA 8321B          | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                               | 2438592                   |
| SM 2340 B-2011     | Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>                                          | 2438594, 2438595          |

## Preparation and Analysis Log

| Ref. Method        | Received Date | Prep Date/Time   | Prepared By      | Analysis Date/Time | Analyzed By       | Associated Samples |
|--------------------|---------------|------------------|------------------|--------------------|-------------------|--------------------|
| EPA 200.7 Rev. 4.4 | 09/20/2023    | 09/21/2023 13:00 | George D Taylor  | 09/25/2023 12:49   | McKinley C Carter | 2438595            |
|                    | 09/20/2023    | 09/21/2023 13:00 | George D Taylor  | 09/25/2023 15:59   | McKinley C Carter | 2438594            |
| EPA 200.8 Rev. 5.4 | 09/20/2023    | 09/21/2023 13:00 | George D Taylor  | 09/22/2023 13:37   | Emily M Philpot   | 2438595            |
|                    | 09/20/2023    | 09/21/2023 13:00 | George D Taylor  | 09/22/2023 16:40   | Emily M Philpot   | 2438594            |
| EPA 8270E          | 09/20/2023    | 09/25/2023 08:30 | Rasheda Ghaffari | 09/26/2023 19:11   | Arthur Maknenko   | 2438596            |
|                    | 09/20/2023    | 09/25/2023 08:30 | Rasheda Ghaffari | 09/27/2023 17:08   | Vandana T. Nagar  | 2438596            |
| EPA 8321B          | 09/20/2023    | 09/21/2023 14:00 | Tae K Lee        | 09/22/2023 03:52   | Hana Lee          | 2438592            |
|                    | 09/20/2023    | 09/21/2023 14:00 | Tae K Lee        | 09/22/2023 12:03   | Hana Lee          | 2438592            |
| SM 2340 B-2011     | 09/20/2023    | 09/22/2023 09:00 | Hoor Shaik       | 09/23/2023 06:50   | Juyoung Kim       | 2438592            |
|                    | 09/20/2023    |                  |                  | 09/25/2023 12:49   | McKinley C Carter | 2438595            |
|                    | 09/20/2023    |                  |                  | 09/25/2023 15:59   | McKinley C Carter | 2438594            |