

# Chemical Analysis Report

**NE-DIST-2024-04-03-01**

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

Event Description: **SCI SMP**  
Request ID: **RQ-2024-03-25-07**  
Customer: **NE-DIST**  
Project ID: **SMP**

Send Reports to:  
FL Dept. of Environmental Protection  
8800 Baymeadows Way West  
Suite 100  
Jacksonville, FL 32256  
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 07-MAY-2024 10:11



## Case Narrative

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

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

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to  $1.3 \times 10^3$  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: LITTLE SIX MILE CR OLD KINGS RD

Collection Date/Time: 04/02/2024 10:00

Field ID: 20030131

Matrix: W-SURF-FRH

| Sample ID | Ref. Method                  | Component         | Result  | Code | Units      | Batch ID | QC Codes |
|-----------|------------------------------|-------------------|---------|------|------------|----------|----------|
| 2479453   | DEP SOP: NU-094-1            | Color (true)      | 45      |      | PCU        | P443734  |          |
|           | EPA 180.1 Rev. 2.0           | Turbidity         | 15      | A    | NTU        | P443740  |          |
|           | EPA 300.0 Rev. 2.1           | Chloride          | 27      |      | mg Cl/L    | P443884  |          |
|           |                              | Sulfate           | 27      |      | mg SO4/L   | P443887  |          |
|           | SM 2320 B-2011               | Total Alkalinity  | 145     |      | mg CaCO3/L | P443923  |          |
|           | SM 2540 C-2015               | TDS               | 270     |      | mg/L       | P444139  |          |
|           | SM 2540 D-2015               | TSS               | 8       | I    | mg/L       | P444037  |          |
|           | SM 4500-F- C-2011            | Fluoride          | 0.20    |      | mg F/L     | P443927  |          |
| 2479454   | EPA 350.1 Rev. 2.0           | Ammonia-N         | 0.061   |      | mg N/L     | P443783  |          |
|           | EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen | 0.52    |      | mg N/L     | P443781  |          |
|           | EPA 353.2 Rev. 2.0           | NO2NO3-N          | 0.14    |      | mg N/L     | P444103  |          |
|           | EPA 365.1 Rev. 2.0           | Total-P           | 0.13    |      | mg P/L     | P443824  |          |
|           | SM 5310 B-2014               | Organic Carbon    | 10      |      | mg C/L     | P443916  |          |
| 2479455   | EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P     | 0.044   |      | mg P/L     | P443717  |          |
| 2479462   | EPA 8321B                    | 2,4-D             | 0.038   |      | ug/L       | P443701  |          |
|           |                              | Acesulfame K      | 0.20    | I    | ug/L       | P443826  |          |
|           |                              | 2,4,5-T           | 0.0040  | U    | ug/L       | P443701  |          |
|           |                              | AMPA              | 0.54    |      | ug/L       | P443826  |          |
|           |                              | Acetaminophen     | 0.0080  | U    | ug/L       | P443701  |          |
|           |                              | Acetamiprid       | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | Endothall         | 0.25    | U    | ug/L       | P443826  |          |
|           |                              | Glufosinate       | 0.10    | U    | ug/L       | P443826  |          |
|           |                              | Glyphosate        | 0.81    |      | ug/L       | P443826  |          |
|           |                              | Afidopyropen      | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | Bentazon          | 0.0087  |      | ug/L       | P443701  |          |
|           |                              | Sucralose         | 0.32    |      | ug/L       | P443826  |          |
|           |                              | Benzovindiflupyr  | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | Carbamazepine     | 8.0E-04 | U    | ug/L       | P443701  |          |
|           |                              | Clothianidin      | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | Dinotefuran       | 0.0047  | I    | ug/L       | P443701  |          |
|           |                              | Diuron            | 0.018   |      | ug/L       | P443701  |          |
|           |                              | Fenuron           | 0.032   | U    | ug/L       | P443701  |          |
|           |                              | Fluridone         | 0.0025  | I    | ug/L       | P443701  |          |
|           |                              | Imazapyr          | 0.26    |      | ug/L       | P443701  |          |
|           |                              | Hydrocodone       | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | Ibuprofen         | 0.080   | U    | ug/L       | P443701  |          |
|           |                              | Imidacloprid      | 0.0029  | I    | ug/L       | P443701  |          |
|           |                              | Linuron           | 0.0040  | U    | ug/L       | P443701  |          |
|           |                              | Mandestrobin      | 0.0020  | U    | ug/L       | P443701  |          |
|           |                              | MCPP              | 0.0037  | I    | ug/L       | P443701  |          |
|           |                              | Naproxen          | 0.0080  | U    | ug/L       | P443701  |          |
|           |                              | Primidone         | 0.0040  | U    | ug/L       | P443701  |          |
|           |                              | Pyraclostrobin    | 0.0020  | U    | ug/L       | P443701  |          |

Field ID: 20030131

Matrix: W-SURF-FRH

| Sample ID | Ref. Method        | Component                | Result   | Code | Units | Batch ID | QC Codes |
|-----------|--------------------|--------------------------|----------|------|-------|----------|----------|
| 2479462   | EPA 8321B          | Silvex                   | 0.0040   | U    | ug/L  | P443701  |          |
|           |                    | Thiamethoxam             | 0.0020   | U    | ug/L  | P443701  |          |
|           |                    | Tolfenpyrad              | 0.0020   | U    | ug/L  | P443701  |          |
|           |                    | Triclopyr                | 0.0040   | U    | ug/L  | P443701  |          |
| 2479463   | EPA 200.7 Rev. 4.4 | Calcium                  | 56.7     |      | mg/L  | P443771  |          |
|           |                    | Iron                     | 1.05E+03 |      | ug/L  | P443771  |          |
|           |                    | Magnesium                | 7.80     |      | mg/L  | P443771  |          |
|           |                    | Potassium                | 1.7      |      | mg/L  | P443771  |          |
|           |                    | Sodium                   | 20.4     |      | mg/L  | P443771  |          |
|           |                    | Strontium                | 522      |      | ug/L  | P443771  |          |
|           |                    | Tin                      | 3.0      | U    | ug/L  | P443771  |          |
|           |                    | Titanium                 | 3.4      |      | ug/L  | P443771  |          |
|           |                    | Vanadium                 | 2.4      | I    | ug/L  | P443771  |          |
|           |                    | Zinc                     | 31       |      | ug/L  | P443771  |          |
|           | EPA 200.8 Rev. 5.4 | Aluminum                 | 492      |      | ug/L  | P443771  |          |
|           |                    | Antimony                 | 0.27     |      | ug/L  | P443771  |          |
|           |                    | Arsenic                  | 1.17     |      | ug/L  | P443771  |          |
|           |                    | Barium                   | 46.0     |      | ug/L  | P443771  |          |
|           |                    | Beryllium                | 0.018    | I    | ug/L  | P443771  |          |
|           |                    | Boron                    | 49.2     |      | ug/L  | P443771  |          |
|           |                    | Cadmium                  | 0.020    | U    | ug/L  | P443771  |          |
|           |                    | Chromium                 | 0.91     | I    | ug/L  | P443771  |          |
|           |                    | Cobalt                   | 0.175    |      | ug/L  | P443771  |          |
|           |                    | Copper                   | 1.47     |      | ug/L  | P443771  |          |
|           |                    | Lead                     | 0.88     |      | ug/L  | P443771  |          |
|           |                    | Manganese                | 49.6     |      | ug/L  | P443771  |          |
|           |                    | Molybdenum               | 1.43     |      | ug/L  | P443771  |          |
|           |                    | Nickel                   | 1.2      | I    | ug/L  | P443771  |          |
|           |                    | Selenium                 | 0.20     | U    | ug/L  | P443771  |          |
|           |                    | Silver                   | 0.010    | U    | ug/L  | P443771  |          |
|           |                    | Thallium                 | 0.10     | U    | ug/L  | P443771  |          |
|           |                    | Hardness                 | 174      |      | mg/L  | P443771  |          |
| 2479475   | SM 2340 B-2011     |                          |          |      |       |          |          |
|           | EPA 8270E          | Oxybenzone**             | 11       | U    | ng/L  | P444236  |          |
|           |                    | Acetochlor               | 0.21     | U    | ng/L  | P444236  |          |
|           |                    | Octinoxate**             | 160      | U    | ng/L  | P444236  |          |
|           |                    | Alachlor                 | 0.43     | U    | ng/L  | P444236  |          |
|           |                    | Avobenzone**             | 110      | U    | ng/L  | P444236  |          |
|           |                    | Ametryn                  | 1.2      | U    | ng/L  | P444236  |          |
|           |                    | Atrazine                 | 61       |      | ng/L  | P444236  |          |
|           |                    | PBDE-47**                | 4.3      | UJ   | ng/L  | P444236  | MS, RPD  |
|           |                    | Atrazine Desethyl        | 9.7      |      | ng/L  | P444236  |          |
|           |                    | PBDE-99**                | 5.4      | UJ   | ng/L  | P444236  | RPD      |
|           |                    | Azinphos Methyl          | 3.2      | U    | ng/L  | P444236  |          |
|           |                    | Tri-o-cresyl Phosphate** | 6.4      | U    | ng/L  | P444236  |          |
|           |                    | Azoxystrobin             | 0.43     | U    | ng/L  | P444236  |          |

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Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component                                                      | Result | Code | Units | Batch ID | QC Codes        |
|-----------|-------------|----------------------------------------------------------------|--------|------|-------|----------|-----------------|
| 2479475   | EPA 8270E   | Bromacil                                                       | 6.8    |      | ng/L  | P444236  |                 |
|           |             | 2-Ethylhexyl<br>2,3,4,5-tetrabromobenzoate (EHTBB)**           | 13     | UJ   | ng/L  | P444236  | RPD             |
|           |             | Butylate                                                       | 0.48   | U    | ng/L  | P444236  |                 |
|           |             | Dechlorane Plus**                                              | 32     | UJ   | ng/L  | P444236  | RPD             |
|           |             | Caffeine**                                                     | 56     |      | ng/L  | P444236  |                 |
|           |             | Dechlorane 602**                                               | 5.4    | UJ   | ng/L  | P444236  | MS, RPD         |
|           |             | Carbophenothion                                                | 0.54   | U    | ng/L  | P444236  |                 |
|           |             | Dechlorane 603**                                               | 4.3    | U    | ng/L  | P444236  |                 |
|           |             | Carfentrazone Ethyl                                            | 0.16   | U    | ng/L  | P444236  |                 |
|           |             | Hexabromobenzene**                                             | 6.4    | U    | ng/L  | P444236  |                 |
|           |             | Chlorfenapyr                                                   | 0.32   | U    | ng/L  | P444236  |                 |
|           |             | PBB-153**                                                      | 6.4    | U    | ng/L  | P444236  |                 |
|           |             | Chlorpyrifos Ethyl                                             | 0.32   | U    | ng/L  | P444236  |                 |
|           |             | Pentabromotoluene**                                            | 3.2    | U    | ng/L  | P444236  |                 |
|           |             | Chlorpyrifos Methyl                                            | 0.11   | U    | ng/L  | P444236  |                 |
|           |             | Tris(2-chloroethyl) phosphate (TCEP)**                         | 59     | UJ   | ng/L  | P444236  | MS, RPD         |
|           |             | Coumaphos                                                      | 1.1    | U    | ng/L  | P444236  |                 |
|           |             | Tris(1-chloro-2-propyl) phosphate<br>(TCPP)**                  | 120    | J    | ng/L  | P444236  | MS, RPD         |
|           |             | Cyanazine                                                      | 5.4    | U    | ng/L  | P444236  |                 |
|           |             | Tris(1,3-dichloro-2-propyl) phosphate<br>(TDCPP)**             | 13     | J    | ng/L  | P444236  | MS, RPD         |
|           |             | Cyprodinil                                                     | 0.21   | U    | ng/L  | P444236  |                 |
|           |             | Tetradecachloro-m-terphenyl**                                  | 8.0    | U    | ng/L  | P444236  |                 |
|           |             | Demeton                                                        | 3.7    | U    | ng/L  | P444236  |                 |
|           |             | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl<br>phenol (UV-328)** | 64     | UJ   | ng/L  | P444236  | LCS, MS,<br>RPD |
|           |             | Diazinon                                                       | 0.13   | U    | ng/L  | P444236  |                 |
|           |             | Difenoconazole                                                 | 0.64   | U    | ng/L  | P444236  |                 |
|           |             | Dimethenamid                                                   | 0.11   | U    | ng/L  | P444236  |                 |
|           |             | Dimethomorph                                                   | 0.32   | UJ   | ng/L  | P444236  | MS, RPD         |
|           |             | Disulfoton                                                     | 0.64   | U    | ng/L  | P444236  |                 |
|           |             | Dithiopyr                                                      | 1.1    | U    | ng/L  | P444236  |                 |
|           |             | EPTC                                                           | 0.54   | U    | ng/L  | P444236  |                 |
|           |             | Ethion                                                         | 0.32   | U    | ng/L  | P444236  |                 |
|           |             | Ethoprop                                                       | 0.13   | U    | ng/L  | P444236  |                 |
|           |             | Etridiazole                                                    | 0.11   | U    | ng/L  | P444236  |                 |
|           |             | Fenamiphos                                                     | 0.48   | UJ   | ng/L  | P444236  | MS              |
|           |             | Fenbuconazole                                                  | 0.54   | U    | ng/L  | P444236  |                 |
|           |             | Fipronil                                                       | 0.79   | I    | ng/L  | P444236  |                 |
|           |             | Fipronil Desulfinyl**                                          | 0.83   |      | ng/L  | P444236  |                 |
|           |             | Fipronil Sulfide                                               | 0.79   |      | ng/L  | P444236  |                 |
|           |             | Fipronil Sulfone                                               | 1.8    |      | ng/L  | P444236  |                 |
|           |             | Fluazifop-P-butyl                                              | 0.11   | U    | ng/L  | P444236  |                 |
|           |             | Fludioxonil                                                    | 0.11   | U    | ng/L  | P444236  |                 |
|           |             | Flumioxazin                                                    | 3.2    | U    | ng/L  | P444236  |                 |

Field ID: 20030131

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component        | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|------------------|--------|------|-------|----------|----------|
| 2479475   | EPA 8270E   | Flutolanil       | 0.11   | U    | ng/L  | P444236  | MS, RPD  |
|           |             | Fluxapyroxad     | 0.27   | U    | ng/L  | P444236  |          |
|           |             | Fonofos          | 0.16   | U    | ng/L  | P444236  |          |
|           |             | Hexazinone       | 0.54   | U    | ng/L  | P444236  |          |
|           |             | Imazalil         | 0.70   | U    | ng/L  | P444236  |          |
|           |             | Iprodione        | 0.54   | U    | ng/L  | P444236  |          |
|           |             | Loratadine**     | 0.32   | UJ   | ng/L  | P444236  |          |
|           |             | Malathion        | 0.37   | U    | ng/L  | P444236  |          |
|           |             | Metalaxyl        | 0.54   | U    | ng/L  | P444236  |          |
|           |             | Metolachlor      | 60     |      | ng/L  | P444236  |          |
|           |             | Metribuzin       | 0.43   | U    | ng/L  | P444236  |          |
|           |             | Mevinphos        | 1.1    | U    | ng/L  | P444236  |          |
|           |             | Molinate         | 0.27   | U    | ng/L  | P444236  |          |
|           |             | Myclobutanil     | 0.37   | U    | ng/L  | P444236  |          |
|           |             | Naled            | 2.7    | U    | ng/L  | P444236  |          |
|           |             | Napropamide      | 0.75   | U    | ng/L  | P444236  |          |
|           |             | Norflurazon      | 1.1    | U    | ng/L  | P444236  |          |
|           |             | Oxadiazon        | 0.40   | I    | ng/L  | P444236  |          |
|           |             | Oxyfluorfen      | 0.21   | U    | ng/L  | P444236  |          |
|           |             | Parathion Ethyl  | 0.16   | U    | ng/L  | P444236  |          |
|           |             | Parathion Methyl | 0.21   | U    | ng/L  | P444236  |          |
|           |             | Pendimethalin    | 1.8    | U    | ng/L  | P444236  |          |
|           |             | Phenytain**      | 5.7    | U    | ng/L  | P444236  |          |
|           |             | Phorate          | 0.27   | U    | ng/L  | P444236  |          |
|           |             | Prodiamine       | 0.21   | U    | ng/L  | P444236  |          |
|           |             | Prometon         | 190    |      | ng/L  | P444236  |          |
|           |             | Prometryn        | 0.37   | U    | ng/L  | P444236  |          |
|           |             | Pronamide        | 0.11   | U    | ng/L  | P444236  |          |
|           |             | Propanil         | 0.11   | U    | ng/L  | P444236  |          |
|           |             | Propargite       | 0.86   | U    | ng/L  | P444236  |          |
|           |             | Propiconazole    | 58     |      | ng/L  | P444236  |          |
|           |             | Pyraflufen Ethyl | 0.32   | U    | ng/L  | P444236  |          |
|           |             | Pyridaben        | 1.5    | U    | ng/L  | P444236  |          |
|           |             | Pyriproxyfen     | 0.27   | U    | ng/L  | P444236  |          |
|           |             | Simazine         | 2.0    |      | ng/L  | P444236  |          |
|           |             | Stirophos        | 0.43   | U    | ng/L  | P444236  |          |
|           |             | Sulfentrazone    | 3.3    | I    | ng/L  | P444236  |          |
|           |             | Tebuconazole     | 1.6    | I    | ng/L  | P444236  |          |
|           |             | Terbufos         | 0.21   | U    | ng/L  | P444236  |          |
|           |             | Terbuthylazine   | 0.21   | U    | ng/L  | P444236  |          |
|           |             | Thiobencarb      | 0.54   | U    | ng/L  | P444236  |          |
|           |             | Triadimefon      | 0.16   | U    | ng/L  | P444236  |          |

Field ID: 20030131

Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|-----------|-------------|-----------|--------|------|-------|----------|----------|
|-----------|-------------|-----------|--------|------|-------|----------|----------|

Ref. Method and Comment:  
EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.  
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.  
EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.  
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.  
EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

## Quality Assurance Report

### Method Blank Results

Reference Method: DEP SOP: NU-094-1  
Batch ID: P443734

| Component    | Result | Code | Units |
|--------------|--------|------|-------|
| Color (true) | 2.5    | U    | PCU   |

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P443740

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

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P443771

| 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: P443771

| 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 300.0 Rev. 2.1  
Batch ID: P443884

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



Quality Assurance Report  
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443887

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P443783

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

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P443781

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

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P444103

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

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P443824

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P443717

| Component     | Result | Code | Units  |
|---------------|--------|------|--------|
| O-Phosphate-P | 0.004  | U    | mg P/L |

Reference Method: EPA 8270E  
Batch ID: P444236

| Component                                                | Result | Code | Units |
|----------------------------------------------------------|--------|------|-------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 60     | U    | ng/L  |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)          | 12     | U    | ng/L  |
| Acetochlor                                               | 0.20   | U    | ng/L  |
| Alachlor                                                 | 0.40   | U    | ng/L  |
| Ametryn                                                  | 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                                                 | 0.45   | U    | ng/L  |
| Caffeine                                                 | 7.5    | U    | ng/L  |
| Carbophenothion                                          | 0.50   | U    | ng/L  |
| Carfentrazone Ethyl                                      | 0.15   | U    | ng/L  |
| Chlorfenapyr                                             | 0.30   | U    | ng/L  |

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8270E

Batch ID: P444236

| 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: P444236

| Component                                     | Result | Code | Units |
|-----------------------------------------------|--------|------|-------|
| PBB-153                                       | 6.0    | U    | ng/L  |
| PBDE-47                                       | 4.0    | U    | ng/L  |
| PBDE-99                                       | 5.0    | U    | ng/L  |
| Pendimethalin                                 | 1.7    | U    | ng/L  |
| Pentabromotoluene                             | 3.0    | U    | ng/L  |
| Phenytoin                                     | 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)      | 25     | U    | ng/L  |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 2.5    | U    | ng/L  |
| Tris(2-chloroethyl) phosphate (TCEP)          | 55     | U    | ng/L  |

Reference Method: EPA 8321B

Batch ID: P443701

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

## Quality Assurance Report

### Method Blank Results

Reference Method: EPA 8321B  
Batch ID: P443701

| Component      | Result | Code | Units |
|----------------|--------|------|-------|
| Linuron        | 0.0040 | U    | ug/L  |
| Mandestrobin   | 0.0020 | U    | ug/L  |
| MCPP           | 0.0020 | U    | ug/L  |
| Naproxen       | 0.0080 | U    | ug/L  |
| Primidone      | 0.0040 | U    | ug/L  |
| Pyraclostrobin | 0.0020 | U    | ug/L  |
| Silvex         | 0.0040 | U    | ug/L  |
| Thiamethoxam   | 0.0020 | U    | ug/L  |
| Tolfenpyrad    | 0.0020 | U    | ug/L  |
| Triclopyr      | 0.0040 | U    | ug/L  |

Reference Method: EPA 8321B  
Batch ID: P443826

| 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: SM 2320 B-2011  
Batch ID: P443923

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

Reference Method: SM 2540 C-2015  
Batch ID: P444139

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

Reference Method: SM 2540 D-2015  
Batch ID: P444037

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

Reference Method: SM 4500-F- C-2011  
Batch ID: P443927

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

Reference Method: SM 5310 B-2014  
Batch ID: P443916

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

Quality Assurance Report  
Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1  
Batch ID: P443734

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Color (true) | 99.3    |         | P         | 90 - 110       |

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P443740

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

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P443771

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Calcium   | 101     |         | P         | 85 - 115       |
| Iron      | 105     |         | P         | 85 - 115       |
| Magnesium | 107     |         | P         | 85 - 115       |
| Potassium | 103     |         | P         | 85 - 115       |
| Sodium    | 107     |         | P         | 85 - 115       |
| Strontium | 98.3    |         | P         | 85 - 115       |
| Tin       | 99.9    |         | P         | 85 - 115       |
| Titanium  | 101     |         | P         | 85 - 115       |
| Vanadium  | 99.4    |         | P         | 85 - 115       |
| Zinc      | 106     |         | P         | 85 - 115       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P443771

| Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------|---------|---------|-----------|----------------|
| Aluminum   | 98.5    |         | P         | 85 - 115       |
| Antimony   | 102     |         | P         | 80 - 120       |
| Arsenic    | 97.0    |         | P         | 85 - 115       |
| Barium     | 98.1    |         | P         | 85 - 115       |
| Beryllium  | 95.7    |         | P         | 85 - 115       |
| Boron      | 102     |         | P         | 85 - 115       |
| Cadmium    | 97.0    |         | P         | 85 - 115       |
| Chromium   | 100     |         | P         | 85 - 115       |
| Cobalt     | 99.4    |         | P         | 85 - 115       |
| Copper     | 96.7    |         | P         | 85 - 115       |
| Lead       | 107     |         | P         | 85 - 115       |
| Manganese  | 98.9    |         | P         | 85 - 115       |
| Molybdenum | 96.7    |         | P         | 85 - 115       |
| Nickel     | 97.8    |         | P         | 85 - 115       |
| Selenium   | 97.7    |         | P         | 85 - 115       |
| Silver     | 98.1    |         | P         | 85 - 115       |
| Thallium   | 93.2    |         | P         | 85 - 115       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443884

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Chloride  | 105     |         | P         | 90 - 110       |

Quality Assurance Report  
Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443887

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

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P443783

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Ammonia-N | 97.2    |         | P         | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P443781

| Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-------------------|---------|---------|-----------|----------------|
| Kjeldahl Nitrogen | 91.6    |         | P         | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P444103

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| NO2NO3-N  | 98.5    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P443824

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P443717

| Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------|---------|-----------|----------------|
| O-Phosphate-P | 99.7    |         | P         | 90 - 110       |

Reference Method: EPA 8270E  
Batch ID: P444236

| Component                                                | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------------------------------------------------|---------|---------|-----------|----------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 48.4    |         | F         | 50 - 150       |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)          | 88.1    |         | P         | 37 - 154       |
| Acetochlor                                               | 96.4    |         | P         | 64 - 124       |
| Alachlor                                                 | 95.1    |         | P         | 61 - 118       |
| Ametryn                                                  | 118     |         | P         | 47 - 158       |
| Atrazine                                                 | 94.0    |         | P         | 68 - 121       |
| Atrazine Desethyl                                        | 112     |         | P         | 30 - 119       |
| Avobenzone                                               | 122     |         | P         | 48 - 193       |
| Azinphos Methyl                                          | 190     |         | P         | 30 - 194       |
| Azoxystrobin                                             | 111     |         | P         | 58 - 154       |
| Bromacil                                                 | 111     |         | P         | 47 - 126       |
| Butylate                                                 | 66.2    |         | P         | 31 - 83.0      |
| Caffeine                                                 | 117     |         | P         | 10 - 180       |
| Carbophenothion                                          | 112     |         | P         | 59 - 133       |
| Carfentrazone Ethyl                                      | 122     |         | P         | 59 - 147       |
| Chlorfenapyr                                             | 87.1    |         | P         | 52 - 118       |

## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8270E  
Batch ID: P444236

| Component           | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------------|---------|---------|-----------|----------------|
| Chlorpyrifos Ethyl  | 112     |         | P         | 59 - 119       |
| Chlorpyrifos Methyl | 105     |         | P         | 65 - 123       |
| Coumaphos           | 171     |         | P         | 11 - 223       |
| Cyanazine           | 133     |         | P         | 63 - 250       |
| Cyprodinil          | 91.2    |         | P         | 52 - 143       |
| Dechlorane 602      | 60.5    |         | P         | 23 - 142       |
| Dechlorane 603      | 98.5    |         | P         | 51 - 171       |
| Dechlorane Plus     | 94.3    |         | P         | 46 - 161       |
| Demeton             | 69.2    |         | P         | 42 - 119       |
| Diazinon            | 124     |         | P         | 67 - 132       |
| Difenoconazole      | 169     |         | P         | 12 - 204       |
| Dimethenamid        | 96.6    |         | P         | 53 - 113       |
| Dimethomorph        | 125     |         | P         | 13 - 238       |
| Disulfoton          | 97.3    |         | P         | 56 - 126       |
| Dithiopyr           | 103     |         | P         | 58 - 127       |
| EPTC                | 58.8    |         | P         | 31 - 78.0      |
| Ethion              | 71.8    |         | P         | 24 - 127       |
| Ethoprop            | 86.4    |         | P         | 60 - 118       |
| Etridiazole         | 75.5    |         | P         | 32 - 91.0      |
| Fenamiphos          | 96.8    |         | P         | 54 - 129       |
| Fenbuconazole       | 90.4    |         | P         | 31 - 162       |
| Fipronil            | 96.2    |         | P         | 56 - 131       |
| Fipronil Desulfinyl | 106     |         | P         | 58 - 132       |
| Fipronil Sulfide    | 99.8    |         | P         | 51 - 123       |
| Fipronil Sulfone    | 86.4    |         | P         | 50 - 125       |
| Fluazifop-P-butyl   | 105     |         | P         | 52 - 132       |
| Fludioxonil         | 88.1    |         | P         | 52 - 129       |
| Flumioxazin         | 171     |         | P         | 34 - 250       |
| Flutolanil          | 88.7    |         | P         | 45 - 128       |
| Fluxapyroxad        | 114     |         | P         | 31 - 150       |
| Fonofos             | 94.0    |         | P         | 60 - 116       |
| Hexabromobenzene    | 88.2    |         | P         | 52 - 165       |
| Hexazinone          | 102     |         | P         | 59 - 120       |
| Imazalil            | 114     |         | P         | 39 - 134       |
| Iprodione           | 110     |         | P         | 39 - 243       |
| Loratadine          | 127     |         | P         | 10 - 240       |
| Malathion           | 91.7    |         | P         | 53 - 145       |
| Metalaxyl           | 88.8    |         | P         | 59 - 120       |
| Metolachlor         | 101     |         | P         | 64 - 122       |
| Metribuzin          | 94.4    |         | P         | 33 - 128       |
| Mevinphos           | 86.6    |         | P         | 48 - 119       |
| Molinate            | 60.5    |         | P         | 42 - 89.0      |
| Myclobutanil        | 88.1    |         | P         | 54 - 129       |
| Naled               | 69.9    |         | P         | 10 - 138       |
| Napropamide         | 92.5    |         | P         | 40 - 122       |
| Norflurazon         | 109     |         | P         | 49 - 132       |
| Octinoxate          | 85.8    |         | P         | 29 - 176       |
| Oxadiazon           | 86.0    |         | P         | 50 - 115       |
| Oxybenzone          | 91.3    |         | P         | 45 - 145       |
| Oxyfluorfen         | 114     |         | P         | 62 - 149       |
| Parathion Ethyl     | 108     |         | P         | 68 - 119       |
| Parathion Methyl    | 113     |         | P         | 68 - 147       |

Quality Assurance Report  
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E  
Batch ID: P444236

| Component                                     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------------------------------------------|---------|---------|-----------|----------------|
| PBB-153                                       | 99.8    |         | P         | 42 - 179       |
| PBDE-47                                       | 57.9    |         | P         | 44 - 141       |
| PBDE-99                                       | 64.5    |         | P         | 36 - 141       |
| Pendimethalin                                 | 126     |         | P         | 59 - 158       |
| Pentabromotoluene                             | 75.6    |         | P         | 58 - 148       |
| Phenytoin                                     | 43.0    |         | P         | 10 - 151       |
| Phorate                                       | 75.4    |         | P         | 44 - 124       |
| Prodiamine                                    | 77.7    |         | P         | 10 - 136       |
| Prometon                                      | 96.4    |         | P         | 45 - 131       |
| Prometryn                                     | 112     |         | P         | 52 - 140       |
| Pronamide                                     | 114     |         | P         | 70 - 129       |
| Propanil                                      | 86.3    |         | P         | 54 - 144       |
| Propargite                                    | 72.8    |         | P         | 10 - 191       |
| Propiconazole                                 | 96.5    |         | P         | 49 - 128       |
| Pyraflufen Ethyl                              | 109     |         | P         | 46 - 141       |
| Pyridaben                                     | 117     |         | P         | 29 - 198       |
| Pyriproxyfen                                  | 91.5    |         | P         | 33 - 221       |
| Simazine                                      | 104     |         | P         | 62 - 119       |
| Stiropfos                                     | 98.4    |         | P         | 13 - 144       |
| Sulfentrazone                                 | 100     |         | P         | 12 - 152       |
| Tebuconazole                                  | 67.9    |         | P         | 10 - 135       |
| Terbufos                                      | 97.3    |         | P         | 67 - 136       |
| Terbuthylazine                                | 84.5    |         | P         | 66 - 113       |
| Tetradecachloro-m-terphenyl                   | 86.2    |         | P         | 30 - 235       |
| Thiobencarb                                   | 110     |         | P         | 51 - 125       |
| Tri-o-cresyl Phosphate                        | 101     |         | P         | 50 - 150       |
| Triadimefon                                   | 94.9    |         | P         | 57 - 118       |
| Tris(1-chloro-2-propyl) phosphate (TCPP)      | 100     |         | P         | 60 - 160       |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 109     |         | P         | 66 - 141       |
| Tris(2-chloroethyl) phosphate (TCEP)          | 120     |         | P         | 59 - 166       |

Reference Method: EPA 8321B  
Batch ID: P443701

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| 2,4-D            | 103     |         | P         | 40 - 150       |
| 2,4,5-T          | 96.5    |         | P         | 40 - 150       |
| Acetaminophen    | 82.2    |         | P         | 30 - 150       |
| Acetamiprid      | 87.1    |         | P         | 40 - 150       |
| Afidopyropen     | 54.5    |         | P         | 30 - 150       |
| Bentazon         | 101     |         | P         | 30 - 150       |
| Benzovindiflupyr | 83.6    |         | P         | 40 - 150       |
| Carbamazepine    | 84.1    |         | P         | 40 - 150       |
| Clothianidin     | 96.1    |         | P         | 40 - 150       |
| Dinotefuran      | 103     |         | P         | 40 - 150       |
| Diuron           | 89.3    |         | P         | 40 - 150       |
| Fenuron          | 95.9    |         | P         | 40 - 150       |
| Fluridone        | 91.6    |         | P         | 40 - 150       |
| Hydrocodone      | 95.3    |         | P         | 40 - 150       |
| Ibuprofen        | 75.9    |         | P         | 40 - 150       |
| Imazapyr         | 97.6    |         | P         | 40 - 150       |
| Imidacloprid     | 93.5    |         | P         | 40 - 150       |



## Quality Assurance Report

### Laboratory Control Sample Accuracy

Reference Method: EPA 8321B  
Batch ID: P443701

| Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|----------------|---------|---------|-----------|----------------|
| Linuron        | 87.9    |         | P         | 40 - 150       |
| Mandestrobin   | 92.1    |         | P         | 40 - 150       |
| MCPP           | 104     |         | P         | 40 - 150       |
| Naproxen       | 88.1    |         | P         | 40 - 150       |
| Primidone      | 93.2    |         | P         | 40 - 150       |
| Pyraclostrobin | 78.3    |         | P         | 40 - 150       |
| Silvex         | 89.6    |         | P         | 40 - 150       |
| Thiamethoxam   | 96.1    |         | P         | 40 - 150       |
| Tolfenpyrad    | 45.8    |         | P         | 30 - 150       |
| Triclopyr      | 95.7    |         | P         | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P443826

| Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|--------------|---------|---------|-----------|----------------|
| Acesulfame K | 98.7    |         | P         | 40 - 150       |
| AMPA         | 90.6    |         | P         | 40 - 160       |
| Endothall    | 97.9    |         | P         | 40 - 160       |
| Glufosinate  | 101     |         | P         | 40 - 160       |
| Glyphosate   | 95.9    |         | P         | 40 - 160       |
| Sucralose    | 85.2    |         | P         | 40 - 150       |

Reference Method: SM 2320 B-2011  
Batch ID: P443923

| Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|------------------|---------|---------|-----------|----------------|
| Total Alkalinity | 97.0    |         | P         | 92 - 105       |

Reference Method: SM 2540 C-2015  
Batch ID: P444139

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| TDS       | 104     |         | P         | 85 - 115       |

Reference Method: SM 2540 D-2015  
Batch ID: P444037

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| TSS       | 93.6    |         | P         | 85 - 115       |

Reference Method: SM 4500-F- C-2011  
Batch ID: P443927

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|-----------|---------|---------|-----------|----------------|
| Fluoride  | 101     |         | P         | 94 - 106       |

Reference Method: SM 5310 B-2014  
Batch ID: P443916

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

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P443771

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479234       | Calcium   | 102     |         | P         | 80 - 120       |
| 2479234       | Iron      | 104     | 103     | P/P       | 80 - 120       |
| 2479234       | Magnesium | 106     | 106     | P/P       | 80 - 120       |
| 2479234       | Potassium | 101     | 101     | P/P       | 80 - 120       |
| 2479234       | Sodium    | 106     | 106     | P/P       | 80 - 120       |
| 2479234       | Strontium | 98.7    | 99.1    | P/P       | 80 - 120       |
| 2479234       | Tin       | 101     | 98.2    | P/P       | 80 - 120       |
| 2479234       | Titanium  | 99.6    | 96.2    | P/P       | 80 - 120       |
| 2479234       | Vanadium  | 102     | 101     | P/P       | 80 - 120       |
| 2479234       | Zinc      | 106     | 106     | P/P       | 80 - 120       |
| 2479709       | Calcium   | 101     |         | P         | 80 - 120       |
| 2479709       | Iron      | 105     |         | P         | 80 - 120       |
| 2479709       | Magnesium | 102     |         | P         | 80 - 120       |
| 2479709       | Potassium | 100     |         | P         | 80 - 120       |
| 2479709       | Sodium    | 103     |         | P         | 80 - 120       |
| 2479709       | Strontium | 98.9    |         | P         | 80 - 120       |
| 2479709       | Tin       | 97.9    |         | P         | 80 - 120       |
| 2479709       | Titanium  | 99.5    |         | P         | 80 - 120       |
| 2479709       | Vanadium  | 102     |         | P         | 80 - 120       |
| 2479709       | Zinc      | 105     |         | P         | 80 - 120       |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P443771

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2479234       | Aluminum   | 96.4    | 100     | P/P       | 80 - 120       |
| 2479234       | Antimony   | 102     | 103     | P/P       | 80 - 120       |
| 2479234       | Arsenic    | 95.6    | 97.1    | P/P       | 80 - 120       |
| 2479234       | Barium     | 97.3    | 99.1    | P/P       | 80 - 120       |
| 2479234       | Beryllium  | 97.3    | 97.5    | P/P       | 80 - 120       |
| 2479234       | Boron      | 103     | 105     | P/P       | 80 - 120       |
| 2479234       | Cadmium    | 98.0    | 99.7    | P/P       | 80 - 120       |
| 2479234       | Chromium   | 98.8    | 101     | P/P       | 80 - 120       |
| 2479234       | Cobalt     | 97.9    | 98.7    | P/P       | 80 - 120       |
| 2479234       | Copper     | 95.2    | 96.4    | P/P       | 80 - 120       |
| 2479234       | Lead       | 108     | 110     | P/P       | 80 - 120       |
| 2479234       | Manganese  | 98.5    | 100     | P/P       | 80 - 120       |
| 2479234       | Molybdenum | 97.0    | 98.9    | P/P       | 80 - 120       |
| 2479234       | Nickel     | 94.7    | 95.0    | P/P       | 80 - 120       |
| 2479234       | Selenium   | 96.7    | 99.3    | P/P       | 80 - 120       |
| 2479234       | Silver     | 97.7    | 99.0    | P/P       | 80 - 120       |
| 2479234       | Thallium   | 93.3    | 95.1    | P/P       | 80 - 120       |
| 2479709       | Aluminum   | 89.6    |         | P         | 80 - 120       |
| 2479709       | Antimony   | 102     |         | P         | 80 - 120       |
| 2479709       | Arsenic    | 95.6    |         | P         | 80 - 120       |
| 2479709       | Barium     | 97.4    |         | P         | 80 - 120       |
| 2479709       | Beryllium  | 99.8    |         | P         | 80 - 120       |
| 2479709       | Boron      | 107     |         | P         | 80 - 120       |
| 2479709       | Cadmium    | 98.9    |         | P         | 80 - 120       |
| 2479709       | Chromium   | 99.5    |         | P         | 80 - 120       |
| 2479709       | Cobalt     | 96.0    |         | P         | 80 - 120       |
| 2479709       | Copper     | 92.2    |         | P         | 80 - 120       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P443771

| Spiked Sample | Component  | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------|---------|---------|-----------|----------------|
| 2479709       | Lead       | 93.3    |         | P         | 80 - 120       |
| 2479709       | Manganese  | 100     |         | P         | 80 - 120       |
| 2479709       | Molybdenum | 96.6    |         | P         | 80 - 120       |
| 2479709       | Nickel     | 95.9    |         | P         | 80 - 120       |
| 2479709       | Selenium   | 94.9    |         | P         | 80 - 120       |
| 2479709       | Silver     | 98.0    |         | P         | 80 - 120       |
| 2479709       | Thallium   | 94.5    |         | P         | 80 - 120       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443884

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479315       | Chloride  | 106     |         | P         | 90 - 110       |
| 2479448       | Chloride  | 105     |         | P         | 90 - 110       |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443887

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479448       | Sulfate   | 105     |         | P         | 90 - 110       |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P443783

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479449       | Ammonia-N | 100     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P443781

| Spiked Sample | Component         | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-------------------|---------|---------|-----------|----------------|
| 2479449       | Kjeldahl Nitrogen | 101     | 103     | P/P       | 90 - 110       |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P444103

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479296       | NO2NO3-N  | 96.0    |         | P         | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P443824

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479449       | Total-P   | 102     | 102     | P/P       | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P443717

| Spiked Sample | Component     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|---------------|---------|---------|-----------|----------------|
| 2479450       | O-Phosphate-P | 95.8    | 98.9    | P/P       | 90 - 110       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P444236

| Spiked Sample | Component                                                | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------------------------------------------------|---------|---------|-----------|----------------|
| 2479475       | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 37.5    | 24.0    | F/F       | 50 - 150       |
| 2479475       | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)          | 74.5    | 49.8    | P/P       | 29 - 155       |
| 2479475       | Acetochlor                                               | 74.5    | 84.9    | P/P       | 60 - 124       |
| 2479475       | Alachlor                                                 | 66.0    | 77.3    | P/P       | 54 - 122       |
| 2479475       | Ametryn                                                  | 114     | 130     | P/P       | 51 - 208       |
| 2479475       | Atrazine Desethyl                                        | 91.2    | 104     | P/P       | 13 - 124       |
| 2479475       | Avobenzene                                               | 117     | 92.3    | P/P       | 35 - 187       |
| 2479475       | Azinphos Methyl                                          | 175     | 179     | P/P       | 43 - 276       |
| 2479475       | Azoxystrobin                                             | 114     | 141     | P/P       | 52 - 300       |
| 2479475       | Bromacil                                                 | 99.3    | 108     | P/P       | 44 - 134       |
| 2479475       | Butylate                                                 | 46.8    | 53.4    | P/P       | 23 - 82.0      |
| 2479475       | Caffeine                                                 | 92.5    | 106     | P/P       | 10 - 277       |
| 2479475       | Carbophenothion                                          | 105     | 115     | P/P       | 47 - 135       |
| 2479475       | Carfentrazone Ethyl                                      | 101     | 106     | P/P       | 46 - 147       |
| 2479475       | Chlorfenapyr                                             | 67.7    | 76.0    | P/P       | 43 - 114       |
| 2479475       | Chlorpyrifos Ethyl                                       | 96.1    | 98.8    | P/P       | 47 - 124       |
| 2479475       | Chlorpyrifos Methyl                                      | 87.0    | 101     | P/P       | 60 - 135       |
| 2479475       | Coumaphos                                                | 112     | 111     | P/P       | 10 - 222       |
| 2479475       | Cyanazine                                                | 125     | 124     | P/P       | 10 - 257       |
| 2479475       | Cyprodinil                                               | 74.6    | 90.3    | P/P       | 42 - 148       |
| 2479475       | Dechlorane 602                                           | 38.9    | 12.8    | P/F       | 14 - 133       |
| 2479475       | Dechlorane 603                                           | 87.2    | 66.6    | P/P       | 18 - 191       |
| 2479475       | Dechlorane Plus                                          | 82.1    | 49.7    | P/P       | 23 - 154       |
| 2479475       | Demeton                                                  | 59.1    | 71.3    | P/P       | 41 - 137       |
| 2479475       | Diazinon                                                 | 101     | 118     | P/P       | 64 - 139       |
| 2479475       | Difenoconazole                                           | 113     | 93.0    | P/P       | 46 - 254       |
| 2479475       | Dimethenamid                                             | 79.6    | 77.2    | P/P       | 47 - 117       |
| 2479475       | Dimethomorph                                             | 130     | 263     | P/F       | 14 - 255       |
| 2479475       | Disulfoton                                               | 85.7    | 112     | P/P       | 52 - 130       |
| 2479475       | Dithiopyr                                                | 88.9    | 116     | P/P       | 40 - 121       |
| 2479475       | EPTC                                                     | 37.2    | 43.2    | P/P       | 19 - 78.0      |
| 2479475       | Ethion                                                   | 50.1    | 32.2    | P/P       | 12 - 124       |
| 2479475       | Ethoprop                                                 | 77.4    | 93.4    | P/P       | 68 - 144       |
| 2479475       | Etridiazole                                              | 55.7    | 62.3    | P/P       | 26 - 96.0      |
| 2479475       | Fenamiphos                                               | 128     | 131     | P/F       | 41 - 129       |
| 2479475       | Fenbuconazole                                            | 76.2    | 76.0    | P/P       | 26 - 169       |
| 2479475       | Fipronil                                                 | 74.4    | 97.8    | P/P       | 46 - 145       |
| 2479475       | Fipronil Desulfinyl                                      | 89.0    | 95.8    | P/P       | 47 - 136       |
| 2479475       | Fipronil Sulfide                                         | 63.6    | 94.3    | P/P       | 41 - 127       |
| 2479475       | Fipronil Sulfone                                         | 113     | 88.7    | P/P       | 35 - 133       |
| 2479475       | Fluazifop-P-butyl                                        | 85.4    | 101     | P/P       | 46 - 131       |
| 2479475       | Fludioxonil                                              | 70.2    | 88.1    | P/P       | 51 - 124       |
| 2479475       | Flumioxazin                                              | 179     | 107     | P/P       | 10 - 289       |
| 2479475       | Flutolanil                                               | 93.2    | 93.2    | P/P       | 34 - 130       |
| 2479475       | Fluxapyroxad                                             | 84.1    | 67.2    | P/P       | 10 - 197       |
| 2479475       | Fonofos                                                  | 80.0    | 94.6    | P/P       | 42 - 131       |
| 2479475       | Hexabromobenzene                                         | 48.5    | 70.5    | P/P       | 47 - 178       |
| 2479475       | Hexazinone                                               | 102     | 111     | P/P       | 64 - 125       |
| 2479475       | Imazalil                                                 | 86.7    | 108     | P/P       | 37 - 252       |
| 2479475       | Iprodione                                                | 90.0    | 84.8    | P/P       | 34 - 265       |
| 2479475       | Loratadine                                               | 101     | 313     | P/F       | 20 - 231       |
| 2479475       | Malathion                                                | 77.0    | 85.2    | P/P       | 34 - 164       |

## Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E  
Batch ID: P444236

| Spiked Sample | Component                                     | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------------------------------------------|---------|---------|-----------|----------------|
| 2479475       | Metalaxyl                                     | 80.1    | 87.5    | P/P       | 49 - 125       |
| 2479475       | Metribuzin                                    | 63.5    | 96.7    | P/P       | 51 - 139       |
| 2479475       | Mevinphos                                     | 77.4    | 85.5    | P/P       | 46 - 130       |
| 2479475       | Molinate                                      | 43.3    | 50.1    | P/P       | 39 - 93.0      |
| 2479475       | Myclobutanil                                  | 81.7    | 81.8    | P/P       | 50 - 130       |
| 2479475       | Naled                                         | 44.6    | 55.7    | P/P       | 10 - 150       |
| 2479475       | Napropamide                                   | 76.1    | 56.3    | P/P       | 10 - 109       |
| 2479475       | Norflurazon                                   | 82.7    | 79.8    | P/P       | 36 - 134       |
| 2479475       | Octinoxate                                    | 73.3    | 66.4    | P/P       | 18 - 170       |
| 2479475       | Oxadiazon                                     | 66.3    | 80.1    | P/P       | 43 - 112       |
| 2479475       | Oxybenzone                                    | 79.0    | 68.1    | P/P       | 33 - 154       |
| 2479475       | Oxyfluorfen                                   | 110     | 114     | P/P       | 62 - 154       |
| 2479475       | Parathion Ethyl                               | 82.2    | 97.8    | P/P       | 65 - 120       |
| 2479475       | Parathion Methyl                              | 99.2    | 101     | P/P       | 77 - 185       |
| 2479475       | PBB-153                                       | 89.0    | 73.8    | P/P       | 23 - 193       |
| 2479475       | PBDE-47                                       | 45.3    | 26.6    | P/F       | 31 - 139       |
| 2479475       | PBDE-99                                       | 51.7    | 31.1    | P/P       | 24 - 138       |
| 2479475       | Pendimethalin                                 | 103     | 137     | P/P       | 50 - 146       |
| 2479475       | Pentabromotoluene                             | 66.6    | 58.4    | P/P       | 54 - 152       |
| 2479475       | Phenytoin                                     | 36.9    | 60.6    | P/P       | 10 - 157       |
| 2479475       | Phorate                                       | 77.4    | 92.0    | P/P       | 54 - 161       |
| 2479475       | Prodiamine                                    | 70.1    | 89.5    | P/P       | 29 - 160       |
| 2479475       | Prometryn                                     | 111     | 120     | P/P       | 32 - 151       |
| 2479475       | Pronamide                                     | 93.6    | 105     | P/P       | 61 - 140       |
| 2479475       | Propanil                                      | 64.6    | 84.9    | P/P       | 50 - 147       |
| 2479475       | Propargite                                    | 52.7    | 55.8    | P/P       | 10 - 190       |
| 2479475       | Pyraflufen Ethyl                              | 82.5    | 74.9    | P/P       | 30 - 147       |
| 2479475       | Pyridaben                                     | 107     | 117     | P/P       | 15 - 195       |
| 2479475       | Pyriproxyfen                                  | 70.1    | 57.1    | P/P       | 31 - 218       |
| 2479475       | Simazine                                      | 86.0    | 97.2    | P/P       | 45 - 139       |
| 2479475       | Stiropfos                                     | 73.4    | 71.6    | P/P       | 10 - 134       |
| 2479475       | Sulfentrazone                                 | 86.9    | 92.3    | P/P       | 53 - 186       |
| 2479475       | Tebuconazole                                  | 55.1    | 30.0    | P/P       | 10 - 133       |
| 2479475       | Terbufos                                      | 81.2    | 98.1    | P/P       | 65 - 151       |
| 2479475       | Terbuthylazine                                | 71.8    | 79.8    | P/P       | 62 - 117       |
| 2479475       | Tetradecachloro-m-terphenyl                   | 102     | 93.6    | P/P       | 10 - 260       |
| 2479475       | Thiobencarb                                   | 87.4    | 98.0    | P/P       | 48 - 122       |
| 2479475       | Tri-o-cresyl Phosphate                        | 91.1    | 79.4    | P/P       | 32 - 151       |
| 2479475       | Triadimefon                                   | 85.2    | 93.2    | P/P       | 46 - 124       |
| 2479475       | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 184     | 86.7    | F/P       | 51 - 154       |
| 2479475       | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 173     | 93.5    | F/P       | 59 - 147       |
| 2479475       | Tris(2-chloroethyl) phosphate (TCEP)          | 194     | 108     | F/P       | 65 - 156       |

Reference Method: EPA 8321B  
Batch ID: P443701

| Spiked Sample | Component        | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|------------------|---------|---------|-----------|----------------|
| 2479066       | 2,4,5-T          | 86.0    | 101     | P/P       | 40 - 150       |
| 2479066       | Acetaminophen    | 87.7    | 103     | P/P       | 30 - 150       |
| 2479066       | Acetamiprid      | 69.8    | 79.1    | P/P       | 40 - 150       |
| 2479066       | Afidopyropen     | 60.7    | 62.9    | P/P       | 30 - 150       |
| 2479066       | Benzovindiflupyr | 79.2    | 88.5    | P/P       | 40 - 150       |

## Quality Assurance Report

### Matrix Spike Accuracy

Reference Method: EPA 8321B  
Batch ID: P443701

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2479066       | Carbamazepine  | 65.4    | 77.1    | P/P       | 40 - 150       |
| 2479066       | Clothianidin   | 85.7    | 98.6    | P/P       | 40 - 150       |
| 2479066       | Dinotefuran    | 95.7    | 107     | P/P       | 40 - 150       |
| 2479066       | Diuron         | 64.6    | 84.3    | P/P       | 40 - 150       |
| 2479066       | Fenuron        | 81.6    | 91.4    | P/P       | 40 - 150       |
| 2479066       | Fluridone      | 67.3    | 84.4    | P/P       | 40 - 150       |
| 2479066       | Hydrocodone    | 86.3    | 98.5    | P/P       | 40 - 150       |
| 2479066       | Ibuprofen      | 70.0    | 86.7    | P/P       | 40 - 150       |
| 2479066       | Imidacloprid   | 94.4    | 114     | P/P       | 40 - 150       |
| 2479066       | Linuron        | 68.7    | 91.2    | P/P       | 40 - 150       |
| 2479066       | Mandestrobin   | 78.5    | 92.9    | P/P       | 40 - 150       |
| 2479066       | MCPPP          | 88.1    | 104     | P/P       | 40 - 150       |
| 2479066       | Naproxen       | 91.8    | 98.9    | P/P       | 40 - 150       |
| 2479066       | Primidone      | 83.0    | 91.6    | P/P       | 40 - 150       |
| 2479066       | Pyraclostrobin | 77.6    | 91.0    | P/P       | 40 - 150       |
| 2479066       | Silvex         | 81.1    | 93.9    | P/P       | 40 - 150       |
| 2479066       | Thiamethoxam   | 92.5    | 103     | P/P       | 40 - 150       |
| 2479066       | Tolfenpyrad    | 54.4    | 61.2    | P/P       | 30 - 150       |
| 2479066       | Triclopyr      | 85.7    | 92.7    | P/P       | 40 - 150       |

Reference Method: EPA 8321B  
Batch ID: P443826

| Spiked Sample | Component    | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|--------------|---------|---------|-----------|----------------|
| 2479462       | Acesulfame K | 117     | 125     | P/P       | 40 - 150       |
| 2479462       | AMPA         | 89.4    | 87.9    | P/P       | 40 - 160       |
| 2479462       | Endothall    | 102     | 102     | P/P       | 40 - 160       |
| 2479462       | Glufosinate  | 90.4    | 89.9    | P/P       | 40 - 160       |
| 2479462       | Glyphosate   | 95.0    | 98.4    | P/P       | 40 - 160       |
| 2479462       | Sucralose    | 87.9    | 85.6    | P/P       | 40 - 150       |

Reference Method: SM 4500-F- C-2011  
Batch ID: P443927

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|-----------|---------|---------|-----------|----------------|
| 2479215       | Fluoride  | 105     | 104     | P/P       | 94 - 106       |

Reference Method: SM 5310 B-2014  
Batch ID: P443916

| Spiked Sample | Component      | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---------------|----------------|---------|---------|-----------|----------------|
| 2479449       | Organic Carbon | 97.8    | 99.7    | P/P       | 85 - 115       |

## Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1  
Batch ID: P443734

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2479435                  | Color (true) | 6.28      | Sample            | P         | 0 - 20         |

Reference Method: EPA 180.1 Rev. 2.0  
Batch ID: P443740

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479453                  | Turbidity | 3.44      | Sample            | P         | 0 - 20         |

Reference Method: EPA 200.7 Rev. 4.4  
Batch ID: P443771

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479234                  | Calcium   | 0.358     | Spike             | P         | 0 - 20         |
| 2479234                  | Iron      | 0.713     | Spike             | P         | 0 - 20         |
| 2479234                  | Magnesium | 0.401     | Spike             | P         | 0 - 20         |
| 2479234                  | Potassium | 0.496     | Spike             | P         | 0 - 20         |
| 2479234                  | Sodium    | 0.169     | Spike             | P         | 0 - 20         |
| 2479234                  | Strontium | 0.434     | Spike             | P         | 0 - 20         |
| 2479234                  | Tin       | 2.48      | Spike             | P         | 0 - 20         |
| 2479234                  | Titanium  | 2.65      | Spike             | P         | 0 - 20         |
| 2479234                  | Vanadium  | 0.297     | Spike             | P         | 0 - 20         |
| 2479234                  | Zinc      | 0.143     | Spike             | P         | 0 - 20         |

Reference Method: EPA 200.8 Rev. 5.4  
Batch ID: P443771

| Replicated<br>Lab Sample | Component  | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------|-----------|-------------------|-----------|----------------|
| 2479234                  | Aluminum   | 2.32      | Spike             | P         | 0 - 20         |
| 2479234                  | Antimony   | 0.793     | Spike             | P         | 0 - 20         |
| 2479234                  | Arsenic    | 1.60      | Spike             | P         | 0 - 20         |
| 2479234                  | Barium     | 1.81      | Spike             | P         | 0 - 20         |
| 2479234                  | Beryllium  | 0.193     | Spike             | P         | 0 - 20         |
| 2479234                  | Boron      | 1.53      | Spike             | P         | 0 - 20         |
| 2479234                  | Cadmium    | 1.61      | Spike             | P         | 0 - 20         |
| 2479234                  | Chromium   | 2.12      | Spike             | P         | 0 - 20         |
| 2479234                  | Cobalt     | 0.894     | Spike             | P         | 0 - 20         |
| 2479234                  | Copper     | 1.28      | Spike             | P         | 0 - 20         |
| 2479234                  | Lead       | 1.26      | Spike             | P         | 0 - 20         |
| 2479234                  | Manganese  | 1.54      | Spike             | P         | 0 - 20         |
| 2479234                  | Molybdenum | 1.96      | Spike             | P         | 0 - 20         |
| 2479234                  | Nickel     | 0.353     | Spike             | P         | 0 - 20         |
| 2479234                  | Selenium   | 2.66      | Spike             | P         | 0 - 20         |
| 2479234                  | Silver     | 1.31      | Spike             | P         | 0 - 20         |
| 2479234                  | Thallium   | 1.96      | Spike             | P         | 0 - 20         |

## Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443884

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479315                  | Chloride  | 0.00369   | Sample            | P         | 0 - 20         |

Reference Method: EPA 300.0 Rev. 2.1  
Batch ID: P443887

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479315                  | Sulfate   | 0.135     | Sample            | P         | 0 - 20         |

Reference Method: EPA 350.1 Rev. 2.0  
Batch ID: P443783

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479449                  | Ammonia-N | 0.876     | Spike             | P         | 0 - 20         |

Reference Method: EPA 351.2 Rev. 2.0  
Batch ID: P443781

| Replicated<br>Lab Sample | Component         | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-------------------|-----------|-------------------|-----------|----------------|
| 2479449                  | Kjeldahl Nitrogen | 1.30      | Spike             | P         | 0 - 20         |

Reference Method: EPA 353.2 Rev. 2.0  
Batch ID: P444103

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479296                  | NO2NO3-N  | 0.499     | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0  
Batch ID: P443824

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479449                  | Total-P   | 0.0466    | Spike             | P         | 0 - 20         |

Reference Method: EPA 365.1 Rev. 2.0 dissolved  
Batch ID: P443717

| Replicated<br>Lab Sample | Component     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------|-----------|-------------------|-----------|----------------|
| 2479450                  | O-Phosphate-P | 2.89      | Spike             | P         | 0 - 20         |

Reference Method: EPA 8270E  
Batch ID: P444236

| Replicated<br>Lab Sample | Component                                                | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------------------------------------------------|-----------|-------------------|-----------|----------------|
| 2479475                  | 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 43.8      | Spike             | F         | 0 - 30         |
| 2479475                  | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)          | 39.7      | Spike             | F         | 0 - 35         |



## Quality Assurance Report Precision

Reference Method: EPA 8270E  
Batch ID: P444236

| Replicated<br>Lab Sample | Component           | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|---------------------|-----------|-------------------|-----------|----------------|
| 2479475                  | Acetochlor          | 13.1      | Spike             | P         | 0 - 28         |
| 2479475                  | Alachlor            | 15.7      | Spike             | P         | 0 - 30         |
| 2479475                  | Ametryn             | 13.6      | Spike             | P         | 0 - 32         |
| 2479475                  | Atrazine            | 0.917     | Spike             | P         | 0 - 33         |
| 2479475                  | Atrazine Desethyl   | 9.47      | Spike             | P         | 0 - 36         |
| 2479475                  | Avobenzone          | 23.8      | Spike             | P         | 0 - 35         |
| 2479475                  | Azinphos Methyl     | 2.10      | Spike             | P         | 0 - 62         |
| 2479475                  | Azoxystrobin        | 21.5      | Spike             | P         | 0 - 39         |
| 2479475                  | Bromacil            | 5.38      | Spike             | P         | 0 - 33         |
| 2479475                  | Butylate            | 13.3      | Spike             | P         | 0 - 51         |
| 2479475                  | Caffeine            | 7.32      | Spike             | P         | 0 - 100        |
| 2479475                  | Carbophenothion     | 9.61      | Spike             | P         | 0 - 34         |
| 2479475                  | Carfentrazone Ethyl | 4.93      | Spike             | P         | 0 - 33         |
| 2479475                  | Chlorfenapyr        | 11.5      | Spike             | P         | 0 - 28         |
| 2479475                  | Chlorpyrifos Ethyl  | 2.84      | Spike             | P         | 0 - 31         |
| 2479475                  | Chlorpyrifos Methyl | 14.4      | Spike             | P         | 0 - 27         |
| 2479475                  | Coumaphos           | 1.72      | Spike             | P         | 0 - 62         |
| 2479475                  | Cyanazine           | 0.616     | Spike             | P         | 0 - 48         |
| 2479475                  | Cyprodinil          | 19.1      | Spike             | P         | 0 - 29         |
| 2479475                  | Dechlorane 602      | 101       | Spike             | F         | 0 - 60         |
| 2479475                  | Dechlorane 603      | 26.7      | Spike             | P         | 0 - 40         |
| 2479475                  | Dechlorane Plus     | 49.2      | Spike             | F         | 0 - 38         |
| 2479475                  | Demeton             | 18.7      | Spike             | P         | 0 - 33         |
| 2479475                  | Diazinon            | 14.7      | Spike             | P         | 0 - 32         |
| 2479475                  | Difenoconazole      | 19.3      | Spike             | P         | 0 - 71         |
| 2479475                  | Dimethenamid        | 3.13      | Spike             | P         | 0 - 60         |
| 2479475                  | Dimethomorph        | 67.8      | Spike             | F         | 0 - 61         |
| 2479475                  | Disulfoton          | 27.0      | Spike             | P         | 0 - 30         |
| 2479475                  | Dithiopyr           | 26.4      | Spike             | P         | 0 - 28         |
| 2479475                  | EPTC                | 15.0      | Spike             | P         | 0 - 56         |
| 2479475                  | Ethion              | 43.7      | Spike             | P         | 0 - 79         |
| 2479475                  | Ethoprop            | 18.7      | Spike             | P         | 0 - 31         |
| 2479475                  | Etridiazole         | 11.3      | Spike             | P         | 0 - 43         |
| 2479475                  | Fenamiphos          | 2.43      | Spike             | P         | 0 - 43         |
| 2479475                  | Fenbuconazole       | 0.195     | Spike             | P         | 0 - 79         |
| 2479475                  | Fipronil            | 24.0      | Spike             | P         | 0 - 46         |
| 2479475                  | Fipronil Desulfinyl | 5.83      | Spike             | P         | 0 - 36         |
| 2479475                  | Fipronil Sulfide    | 30.2      | Spike             | P         | 0 - 34         |
| 2479475                  | Fipronil Sulfone    | 16.0      | Spike             | P         | 0 - 47         |
| 2479475                  | Fluazifop-P-butyl   | 16.7      | Spike             | P         | 0 - 38         |
| 2479475                  | Fludioxonil         | 22.5      | Spike             | P         | 0 - 29         |
| 2479475                  | Flumioxazin         | 50.5      | Spike             | P         | 0 - 63         |
| 2479475                  | Flutolanil          | 0.0252    | Spike             | P         | 0 - 36         |
| 2479475                  | Fluxapyroxad        | 22.3      | Spike             | P         | 0 - 65         |
| 2479475                  | Fonofos             | 16.8      | Spike             | P         | 0 - 35         |
| 2479475                  | Hexabromobenzene    | 37.0      | Spike             | P         | 0 - 41         |
| 2479475                  | Hexazinone          | 8.95      | Spike             | P         | 0 - 31         |
| 2479475                  | Imazalil            | 22.1      | Spike             | P         | 0 - 52         |
| 2479475                  | Iprodione           | 5.99      | Spike             | P         | 0 - 49         |
| 2479475                  | Loratadine          | 102       | Spike             | F         | 0 - 59         |
| 2479475                  | Malathion           | 10.2      | Spike             | P         | 0 - 77         |

## Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P444236

| Replicated<br>Lab Sample | Component                                     | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------------------------------------------|-----------|-------------------|-----------|----------------|
| 2479475                  | Metalaxyl                                     | 8.84      | Spike             | P         | 0 - 76         |
| 2479475                  | Metolachlor                                   | 6.07      | Spike             | P         | 0 - 29         |
| 2479475                  | Metribuzin                                    | 41.5      | Spike             | P         | 0 - 51         |
| 2479475                  | Mevinphos                                     | 10.0      | Spike             | P         | 0 - 31         |
| 2479475                  | Molinate                                      | 14.5      | Spike             | P         | 0 - 39         |
| 2479475                  | Myclobutanil                                  | 0.163     | Spike             | P         | 0 - 34         |
| 2479475                  | Naled                                         | 22.1      | Spike             | P         | 0 - 37         |
| 2479475                  | Napropamide                                   | 29.8      | Spike             | P         | 0 - 100        |
| 2479475                  | Norflurazon                                   | 3.66      | Spike             | P         | 0 - 54         |
| 2479475                  | Octinoxate                                    | 9.95      | Spike             | P         | 0 - 35         |
| 2479475                  | Oxadiazon                                     | 16.3      | Spike             | P         | 0 - 34         |
| 2479475                  | Oxybenzone                                    | 14.7      | Spike             | P         | 0 - 35         |
| 2479475                  | Oxyfluorfen                                   | 3.64      | Spike             | P         | 0 - 28         |
| 2479475                  | Parathion Ethyl                               | 17.3      | Spike             | P         | 0 - 31         |
| 2479475                  | Parathion Methyl                              | 1.83      | Spike             | P         | 0 - 29         |
| 2479475                  | PBB-153                                       | 18.6      | Spike             | P         | 0 - 49         |
| 2479475                  | PBDE-47                                       | 52.0      | Spike             | F         | 0 - 36         |
| 2479475                  | PBDE-99                                       | 49.7      | Spike             | F         | 0 - 46         |
| 2479475                  | Pendimethalin                                 | 28.4      | Spike             | P         | 0 - 31         |
| 2479475                  | Pentabromotoluene                             | 13.1      | Spike             | P         | 0 - 16         |
| 2479475                  | Phenytoin                                     | 48.7      | Spike             | P         | 0 - 100        |
| 2479475                  | Phorate                                       | 17.3      | Spike             | P         | 0 - 36         |
| 2479475                  | Prodiamine                                    | 24.3      | Spike             | P         | 0 - 68         |
| 2479475                  | Prometon                                      | 0.770     | Spike             | P         | 0 - 35         |
| 2479475                  | Prometryn                                     | 7.58      | Spike             | P         | 0 - 33         |
| 2479475                  | Pronamide                                     | 11.2      | Spike             | P         | 0 - 24         |
| 2479475                  | Propanil                                      | 27.1      | Spike             | P         | 0 - 28         |
| 2479475                  | Propargite                                    | 5.64      | Spike             | P         | 0 - 53         |
| 2479475                  | Propiconazole                                 | 11.7      | Spike             | P         | 0 - 44         |
| 2479475                  | Pyraflufen Ethyl                              | 9.64      | Spike             | P         | 0 - 61         |
| 2479475                  | Pyridaben                                     | 9.47      | Spike             | P         | 0 - 43         |
| 2479475                  | Pyriproxyfen                                  | 20.4      | Spike             | P         | 0 - 82         |
| 2479475                  | Simazine                                      | 9.28      | Spike             | P         | 0 - 29         |
| 2479475                  | Stirophos                                     | 2.56      | Spike             | P         | 0 - 100        |
| 2479475                  | Sulfentrazone                                 | 4.71      | Spike             | P         | 0 - 64         |
| 2479475                  | Tebuconazole                                  | 46.0      | Spike             | P         | 0 - 76         |
| 2479475                  | Terbufos                                      | 18.8      | Spike             | P         | 0 - 29         |
| 2479475                  | Terbuthylazine                                | 10.5      | Spike             | P         | 0 - 28         |
| 2479475                  | Tetradecachloro-m-terphenyl                   | 8.43      | Spike             | P         | 0 - 42         |
| 2479475                  | Thiobencarb                                   | 11.4      | Spike             | P         | 0 - 26         |
| 2479475                  | Tri-o-cresyl Phosphate                        | 13.7      | Spike             | P         | 0 - 24         |
| 2479475                  | Triadimefon                                   | 9.04      | Spike             | P         | 0 - 40         |
| 2479475                  | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 58.9      | Spike             | F         | 0 - 30         |
| 2479475                  | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 54.7      | Spike             | F         | 0 - 22         |
| 2479475                  | Tris(2-chloroethyl) phosphate (TCEP)          | 56.7      | Spike             | F         | 0 - 15         |

Reference Method: EPA 8321B

Batch ID: P443701

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
|--------------------------|-----------|-----------|-------------------|-----------|----------------|

## Quality Assurance Report Precision

Reference Method: EPA 8321B  
Batch ID: P443701

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2479066                  | 2,4-D            | 13.1      | Spike             | P         | 0 - 30         |
| 2479066                  | 2,4,5-T          | 16.5      | Spike             | P         | 0 - 30         |
| 2479066                  | Acetaminophen    | 15.9      | Spike             | P         | 0 - 30         |
| 2479066                  | Acetamiprid      | 12.5      | Spike             | P         | 0 - 30         |
| 2479066                  | Afidopyropen     | 3.48      | Spike             | P         | 0 - 30         |
| 2479066                  | Bentazon         | 14.0      | Spike             | P         | 0 - 30         |
| 2479066                  | Benzovindiflupyr | 11.1      | Spike             | P         | 0 - 30         |
| 2479066                  | Carbamazepine    | 12.7      | Spike             | P         | 0 - 30         |
| 2479066                  | Clothianidin     | 13.3      | Spike             | P         | 0 - 30         |
| 2479066                  | Dinotefuran      | 11.1      | Spike             | P         | 0 - 30         |
| 2479066                  | Diuron           | 16.7      | Spike             | P         | 0 - 30         |
| 2479066                  | Fenuron          | 11.3      | Spike             | P         | 0 - 30         |
| 2479066                  | Fluridone        | 10.8      | Spike             | P         | 0 - 30         |
| 2479066                  | Hydrocodone      | 13.2      | Spike             | P         | 0 - 30         |
| 2479066                  | Ibuprofen        | 21.4      | Spike             | P         | 0 - 30         |
| 2479066                  | Imazapyr         | 15.5      | Spike             | P         | 0 - 30         |
| 2479066                  | Imidacloprid     | 17.9      | Spike             | P         | 0 - 30         |
| 2479066                  | Linuron          | 28.2      | Spike             | P         | 0 - 30         |
| 2479066                  | Mandestrobin     | 16.8      | Spike             | P         | 0 - 30         |
| 2479066                  | MCPP             | 16.7      | Spike             | P         | 0 - 30         |
| 2479066                  | Naproxen         | 7.50      | Spike             | P         | 0 - 30         |
| 2479066                  | Primidone        | 8.90      | Spike             | P         | 0 - 30         |
| 2479066                  | Pyraclostrobin   | 15.9      | Spike             | P         | 0 - 30         |
| 2479066                  | Silvex           | 14.6      | Spike             | P         | 0 - 30         |
| 2479066                  | Thiamethoxam     | 11.1      | Spike             | P         | 0 - 30         |
| 2479066                  | Tolfenpyrad      | 11.7      | Spike             | P         | 0 - 30         |
| 2479066                  | Triclopyr        | 7.84      | Spike             | P         | 0 - 30         |

Reference Method: EPA 8321B  
Batch ID: P443826

| Replicated<br>Lab Sample | Component    | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|--------------|-----------|-------------------|-----------|----------------|
| 2479462                  | Acesulfame K | 6.64      | Spike             | P         | 0 - 30         |
| 2479462                  | AMPA         | 1.35      | Spike             | P         | 0 - 30         |
| 2479462                  | Endothall    | 0.455     | Spike             | P         | 0 - 30         |
| 2479462                  | Glufosinate  | 0.609     | Spike             | P         | 0 - 30         |
| 2479462                  | Glyphosate   | 2.68      | Spike             | P         | 0 - 30         |
| 2479462                  | Sucralose    | 2.32      | Spike             | P         | 0 - 30         |

Reference Method: SM 2320 B-2011  
Batch ID: P443923

| Replicated<br>Lab Sample | Component        | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|------------------|-----------|-------------------|-----------|----------------|
| 2479215                  | Total Alkalinity | 3.44      | Sample            | P         | 0 - 3.9        |

Quality Assurance Report  
Precision

Reference Method: SM 2540 C-2015  
Batch ID: P444139

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479038                  | TDS       | 6.06      | Sample            | P         | 0 - 10         |

Reference Method: SM 4500-F- C-2011  
Batch ID: P443927

| Replicated<br>Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|-----------|-----------|-------------------|-----------|----------------|
| 2479215                  | Fluoride  | 1.10      | Spike             | P         | 0 - 1.9        |

Reference Method: SM 5310 B-2014  
Batch ID: P443916

| Replicated<br>Lab Sample | Component      | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|--------------------------|----------------|-----------|-------------------|-----------|----------------|
| 2479449                  | Organic Carbon | 1.76      | Spike             | P         | 0 - 15         |

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

## Quality Assurance Report Surrogates

Lab Sample ID: 2479462  
Field Sample ID: 20030131

| Reference Method | Surrogate          | % Rec. | Pass/Fail | Control Limits |
|------------------|--------------------|--------|-----------|----------------|
| EPA 8321B        | 2,4-D-d3           | 88.1   | P         | 30 - 160       |
| EPA 8321B        | Acetaminophen-d4   | 118    | P         | 30 - 160       |
| EPA 8321B        | Carbamazepine-d10  | 77.1   | P         | 30 - 160       |
| EPA 8321B        | Diuron-d6          | 77.3   | P         | 30 - 160       |
| EPA 8321B        | Endothall-d6       | 95.4   | P         | 30 - 160       |
| EPA 8321B        | Glyphosate 13C 15N | 93.9   | P         | 30 - 160       |
| EPA 8321B        | Ibuprofen-d3       | 82.7   | P         | 30 - 160       |
| EPA 8321B        | Primidone-d5       | 90.1   | P         | 30 - 160       |
| EPA 8321B        | Sucralose-d6       | 89.3   | P         | 30 - 160       |

Lab Sample ID: 2479475  
Field Sample ID: 20030131

| Reference Method | Surrogate     | % Rec. | Pass/Fail | Control Limits |
|------------------|---------------|--------|-----------|----------------|
| EPA 8270E        | Caffeine-d9   | 69.4   | P         | 20 - 200       |
| EPA 8270E        | Simazine-d10  | 106    | P         | 58 - 137       |
| EPA 8270E        | Terbufos-d10  | 86.2   | P         | 50 - 134       |
| EPA 8270E        | Terphenyl-d14 | 83.4   | P         | 44 - 134       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A125145

Included Lab Sample IDs: 2479455

| Component     | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------|---------|---------|------------|----------------|
| O-Phosphate-P | 98.6    | 97.6    | P/P        | 90 - 110       |

Reference Method: DEP SOP: NU-094-1

Run ID: A125153

Included Lab Sample IDs: 2479453

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Color (true) | 98.9    | 103     | P/P        | 90 - 110       |

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A125154

Included Lab Sample IDs: 2479453

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Turbidity | 100     | 100     | P/P        | 95 - 105       |

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A125173

Included Lab Sample IDs: 2479454

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A125179

Included Lab Sample IDs: 2479453

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Chloride  | 103     | 102     | P/P        | 90 - 110       |
| Sulfate   | 104     | 104     | P/P        | 90 - 110       |

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A125201

Included Lab Sample IDs: 2479454

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A125209

Included Lab Sample IDs: 2479463

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Aluminum  | 95.6    | 97.4    | P/P        | 90 - 110       |
| Arsenic   | 91.7    | 92.1    | P/P        | 90 - 110       |
| Barium    | 93.6    | 92.3    | P/P        | 90 - 110       |
| Beryllium | 94.1    | 94.8    | P/P        | 90 - 110       |
| Boron     | 96.7    | 99.0    | P/P        | 90 - 110       |
| Cadmium   | 94.5    | 93.5    | P/P        | 90 - 110       |
| Chromium  | 93.5    | 92.4    | P/P        | 90 - 110       |
| Cobalt    | 92.1    | 93.6    | P/P        | 90 - 110       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4  
Run ID: A125209  
Included Lab Sample IDs: 2479463

| Component  | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------|---------|---------|------------|----------------|
| Copper     | 91.2    | 92.9    | P/P        | 90 - 110       |
| Manganese  | 93.9    | 94.4    | P/P        | 90 - 110       |
| Molybdenum | 94.2    | 94.3    | P/P        | 90 - 110       |
| Nickel     | 91.2    | 93.0    | P/P        | 90 - 110       |
| Selenium   | 92.4    | 93.8    | P/P        | 90 - 110       |
| Silver     | 95.5    | 94.6    | P/P        | 90 - 110       |
| Thallium   | 94.2    | 94.0    | P/P        | 90 - 110       |

Reference Method: EPA 200.8 Rev. 5.4  
Run ID: A125210  
Included Lab Sample IDs: 2479463

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Antimony  | 94.9    | 94.5    | P/P        | 90 - 110       |
| Lead      | 91.5    | 90.4    | P/P        | 90 - 110       |

Reference Method: SM 2320 B-2011  
Run ID: A125214  
Included Lab Sample IDs: 2479453

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Total Alkalinity | 98.0    | 96.2    | P/P        | 90 - 110       |

Reference Method: SM 4500-F- C-2011  
Run ID: A125214  
Included Lab Sample IDs: 2479453

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| Fluoride  | 102     | 105     | P/P        | 90 - 110       |

Reference Method: SM 5310 B-2014  
Run ID: A125215  
Included Lab Sample IDs: 2479454

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Organic Carbon | 99.3    | 115     | P/P        | 85 - 115       |

Reference Method: EPA 8321B  
Run ID: A125223  
Included Lab Sample IDs: 2479462

| Component   | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------|---------|---------|------------|----------------|
| AMPA        | 98.9    | 76.6    | P/P        | 60 - 160       |
| Endothall   | 98.7    | 79.8    | P/P        | 60 - 160       |
| Glufosinate | 93.3    | 81.3    | P/P        | 60 - 160       |
| Glyphosate  | 102     | 78.1    | P/P        | 60 - 160       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B  
Run ID: A125224  
Included Lab Sample IDs: 2479462

| Component    | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|--------------|---------|---------|------------|----------------|
| Acesulfame K | 99.8    | 117     | P/P        | 60 - 160       |
| Sucralose    | 85.5    | 86.5    | P/P        | 60 - 160       |

Reference Method: EPA 200.7 Rev. 4.4  
Run ID: A125226  
Included Lab Sample IDs: 2479463

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

Reference Method: EPA 351.2 Rev. 2.0  
Run ID: A125239  
Included Lab Sample IDs: 2479454

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Kjeldahl Nitrogen | 100     | 99.8    | P/P        | 90 - 110       |

Reference Method: EPA 8321B  
Run ID: A125258  
Included Lab Sample IDs: 2479462

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| 2,4-D            | 105     | 102     | P/P        | 50 - 150       |
| 2,4,5-T          | 92.5    | 111     | P/P        | 50 - 150       |
| Acetaminophen    | 109     | 110     | P/P        | 60 - 160       |
| Acetamiprid      | 105     | 108     | P/P        | 50 - 150       |
| Afidopyropen     | 104     | 115     | P/P        | 50 - 150       |
| Bentazon         | 95.8    | 97.4    | P/P        | 50 - 160       |
| Benzovindiflupyr | 99.3    | 104     | P/P        | 50 - 150       |
| Carbamazepine    | 104     | 106     | P/P        | 60 - 150       |
| Clothianidin     | 111     | 104     | P/P        | 60 - 150       |
| Dinotefuran      | 111     | 107     | P/P        | 50 - 150       |
| Diuron           | 103     | 108     | P/P        | 60 - 160       |
| Fenuron          | 104     | 106     | P/P        | 60 - 150       |
| Fluridone        | 97.6    | 100     | P/P        | 60 - 160       |
| Hydrocodone      | 107     | 113     | P/P        | 60 - 150       |
| Ibuprofen        | 123     | 121     | P/P        | 50 - 160       |
| Imazapyr         | 96.5    | 90.5    | P/P        | 50 - 150       |
| Imidacloprid     | 103     | 100     | P/P        | 60 - 150       |
| Linuron          | 108     | 105     | P/P        | 60 - 150       |
| Mandestrobin     | 106     | 107     | P/P        | 50 - 150       |
| MCP              | 112     | 111     | P/P        | 50 - 150       |



## Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B  
Run ID: A125258  
Included Lab Sample IDs: 2479462

| Component      | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------|---------|---------|------------|----------------|
| Naproxen       | 115     | 105     | P/P        | 50 - 160       |
| Primidone      | 96.9    | 98.2    | P/P        | 60 - 150       |
| Pyraclostrobin | 107     | 111     | P/P        | 60 - 150       |
| Silvex         | 103     | 102     | P/P        | 50 - 150       |
| Thiamethoxam   | 103     | 110     | P/P        | 50 - 150       |
| Tolfenpyrad    | 99.7    | 100     | P/P        | 60 - 150       |
| Triclopyr      | 95.4    | 93.8    | P/P        | 50 - 150       |

Reference Method: EPA 353.2 Rev. 2.0  
Run ID: A125279  
Included Lab Sample IDs: 2479454

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-----------|---------|---------|------------|----------------|
| NO2NO3-N  | 102     | 100     | P/P        | 90 - 110       |

Reference Method: EPA 8270E  
Run ID: A125393  
Included Lab Sample IDs: 2479475

| Component                                                | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|----------------------------------------------------------|---------|---------|------------|----------------|
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | 103     |         | P          | 80 - 120       |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)          | 97.4    |         | P          | 80 - 120       |
| Avobenzone                                               | 101     |         | P          | 80 - 120       |
| Dechlorane 602                                           | 104     |         | P          | 80 - 120       |
| Dechlorane 603                                           | 102     |         | P          | 80 - 120       |
| Dechlorane Plus                                          | 99.2    |         | P          | 80 - 120       |
| Hexabromobenzene                                         | 100     |         | P          | 80 - 120       |
| Octinoxate                                               | 102     |         | P          | 80 - 120       |
| Oxybenzone                                               | 98.4    |         | P          | 80 - 120       |
| PBB-153                                                  | 97.1    |         | P          | 80 - 120       |
| PBDE-47                                                  | 97.5    |         | P          | 80 - 120       |
| PBDE-99                                                  | 101     |         | P          | 80 - 120       |
| Pentabromotoluene                                        | 101     |         | P          | 80 - 120       |
| Tetradecachloro-m-terphenyl                              | 100     |         | P          | 80 - 120       |
| Tri-o-cresyl Phosphate                                   | 106     |         | P          | 80 - 120       |
| Tris(1-chloro-2-propyl) phosphate (TCPP)                 | 100     |         | P          | 80 - 120       |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)            | 101     |         | P          | 80 - 120       |
| Tris(2-chloroethyl) phosphate (TCEP)                     | 97.9    |         | P          | 80 - 120       |

Reference Method: EPA 8270E  
Run ID: A125472  
Included Lab Sample IDs: 2479475

| Component         | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|-------------------|---------|---------|------------|----------------|
| Acetochlor        | 89.2    |         | P          | 80 - 120       |
| Alachlor          | 84.4    |         | P          | 80 - 120       |
| Ametryn           | 102     |         | P          | 80 - 120       |
| Atrazine          | 95.2    |         | P          | 80 - 120       |
| Atrazine Desethyl | 97.8    |         | P          | 80 - 120       |
| Azinphos Methyl   | 97.9    |         | P          | 80 - 120       |
| Azoxystrobin      | 101     |         | P          | 80 - 120       |

## Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E  
Run ID: A125472  
Included Lab Sample IDs: 2479475

| Component           | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---------------------|---------|---------|------------|----------------|
| Bromacil            | 106     |         | P          | 80 - 120       |
| Butylate            | 102     |         | P          | 80 - 120       |
| Caffeine            | 102     |         | P          | 80 - 120       |
| Carbophenothion     | 104     |         | P          | 80 - 120       |
| Carfentrazone Ethyl | 101     |         | P          | 80 - 120       |
| Chlorfenapyr        | 86.0    |         | P          | 80 - 120       |
| Chlorpyrifos Ethyl  | 102     |         | P          | 80 - 120       |
| Chlorpyrifos Methyl | 93.8    |         | P          | 80 - 120       |
| Coumaphos           | 99.7    |         | P          | 80 - 120       |
| Cyanazine           | 98.6    |         | P          | 80 - 120       |
| Cyprodinil          | 94.9    |         | P          | 80 - 120       |
| Demeton             | 98.4    |         | P          | 80 - 120       |
| Diazinon            | 106     |         | P          | 80 - 120       |
| Difenoconazole      | 103     |         | P          | 80 - 120       |
| Dimethenamid        | 104     |         | P          | 80 - 120       |
| Dimethomorph        | 98.8    |         | P          | 80 - 120       |
| Disulfoton          | 98.5    |         | P          | 80 - 120       |
| Dithiopyr           | 98.0    |         | P          | 80 - 120       |
| EPTC                | 95.3    |         | P          | 80 - 120       |
| Ethion              | 94.0    |         | P          | 80 - 120       |
| Ethoprop            | 103     |         | P          | 80 - 120       |
| Etridiazole         | 105     |         | P          | 80 - 120       |
| Fenamiphos          | 96.9    |         | P          | 80 - 120       |
| Fenbuconazole       | 93.6    |         | P          | 80 - 120       |
| Fipronil            | 90.6    |         | P          | 80 - 120       |
| Fipronil Desulfinyl | 101     |         | P          | 80 - 120       |
| Fipronil Sulfide    | 89.7    |         | P          | 80 - 120       |
| Fipronil Sulfone    | 101     |         | P          | 80 - 120       |
| Fluazifop-P-butyl   | 102     |         | P          | 80 - 120       |
| Fludioxonil         | 98.3    |         | P          | 80 - 120       |
| Flumioxazin         | 99.6    |         | P          | 80 - 120       |
| Flutolanil          | 97.9    |         | P          | 80 - 120       |
| Fluxapyroxad        | 112     |         | P          | 80 - 120       |
| Fonofos             | 98.1    |         | P          | 80 - 120       |
| Hexazinone          | 104     |         | P          | 80 - 120       |
| Imazalil            | 101     |         | P          | 80 - 120       |
| Iprodione           | 92.5    |         | P          | 80 - 120       |
| Loratadine          | 102     |         | P          | 80 - 120       |
| Malathion           | 87.8    |         | P          | 80 - 120       |
| Metalaxyl           | 87.5    |         | P          | 80 - 120       |
| Metolachlor         | 97.2    |         | P          | 80 - 120       |
| Metribuzin          | 92.9    |         | P          | 80 - 120       |
| Mevinphos           | 94.7    |         | P          | 80 - 120       |
| Molinate            | 87.9    |         | P          | 80 - 120       |
| Myclobutanil        | 92.6    |         | P          | 80 - 120       |
| Naled               | 96.4    |         | P          | 80 - 120       |
| Napropamide         | 102     |         | P          | 80 - 120       |
| Norflurazon         | 95.1    |         | P          | 80 - 120       |
| Oxadiazon           | 100     |         | P          | 80 - 120       |
| Oxyfluorfen         | 98.2    |         | P          | 80 - 120       |
| Parathion Ethyl     | 94.7    |         | P          | 80 - 120       |

## Quality Assurance Report

### Calibration Verification

Reference Method: EPA 8270E  
Run ID: A125472  
Included Lab Sample IDs: 2479475

| Component        | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|------------------|---------|---------|------------|----------------|
| Parathion Methyl | 87.3    |         | P          | 80 - 120       |
| Pendimethalin    | 98.2    |         | P          | 80 - 120       |
| Phenytol         | 97.8    |         | P          | 80 - 120       |
| Phorate          | 94.9    |         | P          | 80 - 120       |
| Prodiamine       | 108     |         | P          | 80 - 120       |
| Prometon         | 105     |         | P          | 80 - 120       |
| Prometryn        | 95.7    |         | P          | 80 - 120       |
| Pronamide        | 98.1    |         | P          | 80 - 120       |
| Propanil         | 110     |         | P          | 80 - 120       |
| Propargite       | 95.6    |         | P          | 80 - 120       |
| Propiconazole    | 92.2    |         | P          | 80 - 120       |
| Pyraflufen Ethyl | 111     |         | P          | 80 - 120       |
| Pyridaben        | 102     |         | P          | 80 - 120       |
| Pyriproxyfen     | 96.6    |         | P          | 80 - 120       |
| Simazine         | 85.7    |         | P          | 80 - 120       |
| Stirophos        | 105     |         | P          | 80 - 120       |
| Sulfentrazone    | 102     |         | P          | 80 - 120       |
| Tebuconazole     | 95.9    |         | P          | 80 - 120       |
| Terbufos         | 104     |         | P          | 80 - 120       |
| Terbutylazine    | 85.8    |         | P          | 80 - 120       |
| Thiobencarb      | 97.2    |         | P          | 80 - 120       |
| Triadimefon      | 101     |         | 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 |      |      | Precision<br>SMP | MS     |
|------------------------------|--------------------------------------------------------------|----------------|---------------|------|------|------------------|--------|
|                              |                                                              |                | LCS           |      |      |                  |        |
| DEP SOP: NU-094-1            | Color (true)                                                 | 99.3           |               |      |      | 6.28             |        |
| EPA 180.1 Rev. 2.0           | Turbidity                                                    | 103            |               |      |      | 3.44             |        |
| EPA 200.7 Rev. 4.4           | Calcium                                                      | 101            | 102           | 101  |      |                  | 0.358  |
|                              | Iron                                                         | 105            | 104           | 103  | 105  |                  | 0.713  |
|                              | Magnesium                                                    | 107            | 106           | 106  | 102  |                  | 0.401  |
|                              | Potassium                                                    | 103            | 101           | 101  | 100  |                  | 0.496  |
|                              | Sodium                                                       | 107            | 106           | 106  | 103  |                  | 0.169  |
|                              | Strontium                                                    | 98.3           | 98.7          | 99.1 | 98.9 |                  | 0.434  |
|                              | Tin                                                          | 99.9           | 101           | 98.2 | 97.9 |                  | 2.48   |
|                              | Titanium                                                     | 101            | 99.6          | 96.2 | 99.5 |                  | 2.65   |
|                              | Vanadium                                                     | 99.4           | 102           | 102  | 101  |                  | 0.297  |
|                              | Zinc                                                         | 106            | 106           | 106  | 105  |                  | 0.143  |
| EPA 200.8 Rev. 5.4           | Aluminum                                                     | 98.5           | 96.4          | 100  | 89.6 |                  | 2.32   |
|                              | Antimony                                                     | 102            | 102           | 103  | 102  |                  | 0.793  |
|                              | Arsenic                                                      | 97.0           | 95.6          | 97.1 | 95.6 |                  | 1.60   |
|                              | Barium                                                       | 98.1           | 97.3          | 99.1 | 97.4 |                  | 1.81   |
|                              | Beryllium                                                    | 95.7           | 97.3          | 97.5 | 99.8 |                  | 0.193  |
|                              | Boron                                                        | 102            | 103           | 105  | 107  |                  | 1.53   |
|                              | Cadmium                                                      | 97.0           | 98.0          | 99.7 | 98.9 |                  | 1.61   |
|                              | Chromium                                                     | 100            | 98.8          | 101  | 99.5 |                  | 2.12   |
|                              | Cobalt                                                       | 99.4           | 97.9          | 98.7 | 96.0 |                  | 0.894  |
|                              | Copper                                                       | 96.7           | 95.2          | 96.4 | 92.2 |                  | 1.28   |
|                              | Lead                                                         | 107            | 108           | 110  | 93.3 |                  | 1.26   |
|                              | Manganese                                                    | 98.9           | 98.5          | 100  | 100  |                  | 1.54   |
|                              | Molybdenum                                                   | 96.7           | 97.0          | 98.9 | 96.6 |                  | 1.96   |
|                              | Nickel                                                       | 97.8           | 94.7          | 95.0 | 95.9 |                  | 0.353  |
|                              | Selenium                                                     | 97.7           | 96.7          | 99.3 | 94.9 |                  | 2.66   |
|                              | Silver                                                       | 98.1           | 97.7          | 99.0 | 98.0 |                  | 1.31   |
|                              | Thallium                                                     | 93.2           | 93.3          | 95.1 | 94.5 |                  | 1.96   |
| EPA 300.0 Rev. 2.1           | Chloride                                                     | 105            | 106           | 105  |      | 0.0036           |        |
|                              | Sulfate                                                      | 107            | 105           |      |      | 0.135            |        |
| EPA 350.1 Rev. 2.0           | Ammonia-N                                                    | 97.2           | 100           | 102  |      |                  | 0.876  |
| EPA 351.2 Rev. 2.0           | Kjeldahl Nitrogen                                            | 91.6           | 101           | 103  |      |                  | 1.30   |
| EPA 353.2 Rev. 2.0           | NO2NO3-N                                                     | 98.5           | 96.0          |      |      |                  | 0.499  |
| EPA 365.1 Rev. 2.0           | Total-P                                                      | 101            | 102           | 102  |      |                  | 0.0466 |
| EPA 365.1 Rev. 2.0 dissolved | O-Phosphate-P                                                | 99.7           | 95.8          | 98.9 |      |                  | 2.89   |
| EPA 8270E                    | 2-(2H-benzotriazol-2-yl)-4,6-ditertpe<br>ntylphenol (UV-328) | 48.4           | 37.5          | 24.0 |      |                  | 43.8   |
|                              | 2-Ethylhexyl<br>2,3,4,5-tetrabromobenzoate<br>(EHTBB)        | 88.1           | 74.5          | 49.8 |      |                  | 39.7   |
|                              | Acetochlor                                                   | 96.4           | 74.5          | 84.9 |      |                  | 13.1   |
|                              | Alachlor                                                     | 95.1           | 66.0          | 77.3 |      |                  | 15.7   |
|                              | Ametryn                                                      | 118            | 114           | 130  |      |                  | 13.6   |
|                              | Atrazine                                                     | 94.0           |               |      |      |                  | 0.917  |
|                              | Atrazine Desethyl                                            | 112            | 91.2          | 104  |      |                  | 9.47   |
|                              | Avobenzone                                                   | 122            | 117           | 92.3 |      |                  | 23.8   |
|                              | Azinphos Methyl                                              | 190            | 175           | 179  |      |                  | 2.10   |
|                              | Azoxystrobin                                                 | 111            | 114           | 141  |      |                  | 21.5   |
|                              | Bromacil                                                     | 111            | 99.3          | 108  |      |                  | 5.38   |
|                              | Butylate                                                     | 66.2           | 46.8          | 53.4 |      |                  | 13.3   |
|                              | Caffeine                                                     | 117            | 92.5          | 106  |      |                  | 7.32   |
|                              | Carbophenothion                                              | 112            | 105           | 115  |      |                  | 9.61   |
|                              | Carfentrazone Ethyl                                          | 122            | 101           | 106  |      |                  | 4.93   |

## Quality Assurance Report Summary

| Ref. Method | Analyte             | LCS % Recovery | MS % Recovery |      | LCS | Precision | MS     |
|-------------|---------------------|----------------|---------------|------|-----|-----------|--------|
|             |                     |                |               |      |     | SMP       |        |
| EPA 8270E   | Chlorfenapyr        | 87.1           | 67.7          | 76.0 |     |           | 11.5   |
|             | Chlorpyrifos Ethyl  | 112            | 96.1          | 98.8 |     |           | 2.84   |
|             | Chlorpyrifos Methyl | 105            | 87.0          | 101  |     |           | 14.4   |
|             | Coumaphos           | 171            | 112           | 111  |     |           | 1.72   |
|             | Cyanazine           | 133            | 125           | 124  |     |           | 0.616  |
|             | Cyprodinil          | 91.2           | 74.6          | 90.3 |     |           | 19.1   |
|             | Dechlorane 602      | 60.5           | 38.9          | 12.8 |     |           | 101    |
|             | Dechlorane 603      | 98.5           | 87.2          | 66.6 |     |           | 26.7   |
|             | Dechlorane Plus     | 94.3           | 82.1          | 49.7 |     |           | 49.2   |
|             | Demeton             | 69.2           | 59.1          | 71.3 |     |           | 18.7   |
|             | Diazinon            | 124            | 101           | 118  |     |           | 14.7   |
|             | Difenoconazole      | 169            | 113           | 93.0 |     |           | 19.3   |
|             | Dimethenamid        | 96.6           | 79.6          | 77.2 |     |           | 3.13   |
|             | Dimethomorph        | 125            | 130           | 263  |     |           | 67.8   |
|             | Disulfoton          | 97.3           | 85.7          | 112  |     |           | 27.0   |
|             | Dithiopyr           | 103            | 88.9          | 116  |     |           | 26.4   |
|             | EPTC                | 58.8           | 37.2          | 43.2 |     |           | 15.0   |
|             | Ethion              | 71.8           | 50.1          | 32.2 |     |           | 43.7   |
|             | Ethoprop            | 86.4           | 77.4          | 93.4 |     |           | 18.7   |
|             | Etridiazole         | 75.5           | 55.7          | 62.3 |     |           | 11.3   |
|             | Fenamiphos          | 96.8           | 128           | 131  |     |           | 2.43   |
|             | Fenbuconazole       | 90.4           | 76.2          | 76.0 |     |           | 0.195  |
|             | Fipronil            | 96.2           | 74.4          | 97.8 |     |           | 24.0   |
|             | Fipronil Desulfinyl | 106            | 89.0          | 95.8 |     |           | 5.83   |
|             | Fipronil Sulfide    | 99.8           | 63.6          | 94.3 |     |           | 30.2   |
|             | Fipronil Sulfone    | 86.4           | 113           | 88.7 |     |           | 16.0   |
|             | Fluazifop-P-butyl   | 105            | 85.4          | 101  |     |           | 16.7   |
|             | Fludioxonil         | 88.1           | 70.2          | 88.1 |     |           | 22.5   |
|             | Flumioxazin         | 171            | 179           | 107  |     |           | 50.5   |
|             | Flutolanil          | 88.7           | 93.2          | 93.2 |     |           | 0.0252 |
|             | Fluxapyroxad        | 114            | 84.1          | 67.2 |     |           | 22.3   |
|             | Fonofos             | 94.0           | 80.0          | 94.6 |     |           | 16.8   |
|             | Hexabromobenzene    | 88.2           | 48.5          | 70.5 |     |           | 37.0   |
|             | Hexazinone          | 102            | 102           | 111  |     |           | 8.95   |
|             | Imazalil            | 114            | 86.7          | 108  |     |           | 22.1   |
|             | Iprodione           | 110            | 90.0          | 84.8 |     |           | 5.99   |
|             | Loratadine          | 127            | 101           | 313  |     |           | 102    |
|             | Malathion           | 91.7           | 77.0          | 85.2 |     |           | 10.2   |
|             | Metalaxyl           | 88.8           | 80.1          | 87.5 |     |           | 8.84   |
|             | Metolachlor         | 101            |               |      |     |           | 6.07   |
|             | Metribuzin          | 94.4           | 63.5          | 96.7 |     |           | 41.5   |
|             | Mevinphos           | 86.6           | 77.4          | 85.5 |     |           | 10.0   |
|             | Molinate            | 60.5           | 43.3          | 50.1 |     |           | 14.5   |
|             | Myclobutanil        | 88.1           | 81.7          | 81.8 |     |           | 0.163  |
|             | Naled               | 69.9           | 44.6          | 55.7 |     |           | 22.1   |
|             | Napropamide         | 92.5           | 76.1          | 56.3 |     |           | 29.8   |
|             | Norflurazon         | 109            | 82.7          | 79.8 |     |           | 3.66   |
|             | Octinoxate          | 85.8           | 73.3          | 66.4 |     |           | 9.95   |
|             | Oxadiazon           | 86.0           | 66.3          | 80.1 |     |           | 16.3   |
|             | Oxybenzone          | 91.3           | 79.0          | 68.1 |     |           | 14.7   |
|             | Oxyfluorfen         | 114            | 110           | 114  |     |           | 3.64   |
|             | Parathion Ethyl     | 108            | 82.2          | 97.8 |     |           | 17.3   |
|             | Parathion Methyl    | 113            | 99.2          | 101  |     |           | 1.83   |
|             | PBB-153             | 99.8           | 89.0          | 73.8 |     |           | 18.6   |

## Quality Assurance Report Summary

| Ref. Method | Analyte                                       | LCS % Recovery | MS % Recovery |      | LCS | Precision | MS    |
|-------------|-----------------------------------------------|----------------|---------------|------|-----|-----------|-------|
|             |                                               |                |               |      |     | SMP       |       |
| EPA 8270E   | PBDE-47                                       | 57.9           | 45.3          | 26.6 |     |           | 52.0  |
|             | PBDE-99                                       | 64.5           | 51.7          | 31.1 |     |           | 49.7  |
|             | Pendimethalin                                 | 126            | 103           | 137  |     |           | 28.4  |
|             | Pentabromotoluene                             | 75.6           | 66.6          | 58.4 |     |           | 13.1  |
|             | Phenytoin                                     | 43.0           | 36.9          | 60.6 |     |           | 48.7  |
|             | Phorate                                       | 75.4           | 77.4          | 92.0 |     |           | 17.3  |
|             | Prodiamine                                    | 77.7           | 70.1          | 89.5 |     |           | 24.3  |
|             | Prometon                                      | 96.4           |               |      |     |           | 0.770 |
|             | Prometryn                                     | 112            | 111           | 120  |     |           | 7.58  |
|             | Pronamide                                     | 114            | 93.6          | 105  |     |           | 11.2  |
|             | Propanil                                      | 86.3           | 64.6          | 84.9 |     |           | 27.1  |
|             | Propargite                                    | 72.8           | 52.7          | 55.8 |     |           | 5.64  |
|             | Propiconazole                                 | 96.5           |               |      |     |           | 11.7  |
|             | Pyraflufen Ethyl                              | 109            | 82.5          | 74.9 |     |           | 9.64  |
|             | Pyridaben                                     | 117            | 107           | 117  |     |           | 9.47  |
|             | Pyriproxyfen                                  | 91.5           | 70.1          | 57.1 |     |           | 20.4  |
|             | Simazine                                      | 104            | 86.0          | 97.2 |     |           | 9.28  |
|             | Stirophos                                     | 98.4           | 73.4          | 71.6 |     |           | 2.56  |
|             | Sulfentrazone                                 | 100            | 86.9          | 92.3 |     |           | 4.71  |
|             | Tebuconazole                                  | 67.9           | 55.1          | 30.0 |     |           | 46.0  |
|             | Terbufos                                      | 97.3           | 81.2          | 98.1 |     |           | 18.8  |
|             | Terbuthylazine                                | 84.5           | 71.8          | 79.8 |     |           | 10.5  |
|             | Tetradecachloro-m-terphenyl                   | 86.2           | 102           | 93.6 |     |           | 8.43  |
|             | Thiobencarb                                   | 110            | 87.4          | 98.0 |     |           | 11.4  |
|             | Tri-o-cresyl Phosphate                        | 101            | 91.1          | 79.4 |     |           | 13.7  |
|             | Triadimefon                                   | 94.9           | 85.2          | 93.2 |     |           | 9.04  |
|             | Tris(1-chloro-2-propyl) phosphate (TCPP)      | 100            | 184           | 86.7 |     |           | 58.9  |
|             | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 109            | 173           | 93.5 |     |           | 54.7  |
|             | Tris(2-chloroethyl) phosphate (TCEP)          | 120            | 194           | 108  |     |           | 56.7  |
| EPA 8321B   | 2,4-D                                         | 103            |               |      |     |           | 13.1  |
|             | 2,4,5-T                                       | 96.5           | 86.0          | 101  |     |           | 16.5  |
|             | Acesulfame K                                  | 98.7           | 117           | 125  |     |           | 6.64  |
|             | Acetaminophen                                 | 82.2           | 103           | 87.7 |     |           | 15.9  |
|             | Acetamiprid                                   | 87.1           | 79.1          | 69.8 |     |           | 12.5  |
|             | Afidopyropen                                  | 54.5           | 60.7          | 62.9 |     |           | 3.48  |
|             | AMPA                                          | 90.6           | 89.4          | 87.9 |     |           | 1.35  |
|             | Bentazon                                      | 101            |               |      |     |           | 14.0  |
|             | Benzovindiflupyr                              | 83.6           | 79.2          | 88.5 |     |           | 11.1  |
|             | Carbamazepine                                 | 84.1           | 77.1          | 65.4 |     |           | 12.7  |
|             | Clothianidin                                  | 96.1           | 98.6          | 85.7 |     |           | 13.3  |
|             | Dinotefuran                                   | 103            | 107           | 95.7 |     |           | 11.1  |
|             | Diuron                                        | 89.3           | 84.3          | 64.6 |     |           | 16.7  |
|             | Endothall                                     | 97.9           | 102           | 102  |     |           | 0.455 |
|             | Fenuron                                       | 95.9           | 91.4          | 81.6 |     |           | 11.3  |
|             | Fluridone                                     | 91.6           | 67.3          | 84.4 |     |           | 10.8  |
|             | Glufosinate                                   | 101            | 90.4          | 89.9 |     |           | 0.609 |
|             | Glyphosate                                    | 95.9           | 95.0          | 98.4 |     |           | 2.68  |
|             | Hydrocodone                                   | 95.3           | 98.5          | 86.3 |     |           | 13.2  |
|             | Ibuprofen                                     | 75.9           | 70.0          | 86.7 |     |           | 21.4  |
|             | Imazapyr                                      | 97.6           |               |      |     |           | 15.5  |
|             | Imidacloprid                                  | 93.5           | 114           | 94.4 |     |           | 17.9  |

## Quality Assurance Report Summary

| Ref. Method       | Analyte          | LCS % Recovery | MS % Recovery |      | Precision<br>LCS | SMP  | MS   |
|-------------------|------------------|----------------|---------------|------|------------------|------|------|
|                   |                  |                |               |      |                  |      |      |
| EPA 8321B         | Linuron          | 87.9           | 68.7          | 91.2 |                  |      | 28.2 |
|                   | Mandestrobin     | 92.1           | 78.5          | 92.9 |                  |      | 16.8 |
|                   | MCP              | 104            | 88.1          | 104  |                  |      | 16.7 |
|                   | Naproxen         | 88.1           | 91.8          | 98.9 |                  |      | 7.50 |
|                   | Primidone        | 93.2           | 91.6          | 83.0 |                  |      | 8.90 |
|                   | Pyraclostrobin   | 78.3           | 77.6          | 91.0 |                  |      | 15.9 |
|                   | Silvex           | 89.6           | 81.1          | 93.9 |                  |      | 14.6 |
|                   | Sucralose        | 85.2           | 87.9          | 85.6 |                  |      | 2.32 |
|                   | Thiamethoxam     | 96.1           | 103           | 92.5 |                  |      | 11.1 |
|                   | Tolfenpyrad      | 45.8           | 54.4          | 61.2 |                  |      | 11.7 |
|                   | Triclopyr        | 95.7           | 85.7          | 92.7 |                  |      | 7.84 |
| SM 2320 B-2011    | Total Alkalinity | 97.0           |               |      |                  | 3.44 |      |
| SM 2540 C-2015    | TDS              | 104            |               |      |                  | 6.06 |      |
| SM 2540 D-2015    | TSS              | 93.6           |               |      |                  |      |      |
| SM 4500-F- C-2011 | Fluoride         | 101            | 105           | 104  |                  |      | 1.10 |
| SM 5310 B-2014    | Organic Carbon   | 99.8           | 97.8          | 99.7 |                  |      | 1.76 |

## Reference Method Descriptions

| Method                       | Description                                                                                                               | Associated Samples |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------|
| DEP SOP: NU-094-1            | True Color measured at 450 nm (not valid for NPDES monitoring)                                                            | 2479453            |
| EPA 180.1 Rev. 2.0           | Turbidity in aqueous matrices                                                                                             | 2479453            |
| EPA 200.7 Rev. 4.4           | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2479463            |
| EPA 200.8 Rev. 5.4           | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    | 2479463            |
| EPA 300.0 Rev. 2.1           | Chloride in aqueous matrices                                                                                              | 2479453            |
| EPA 300.0 Rev. 2.1           | Sulfate in aqueous matrices                                                                                               | 2479453            |
| EPA 350.1 Rev. 2.0           | Ammonia in aqueous matrices as mg N/L                                                                                     | 2479454            |
| EPA 351.2 Rev. 2.0           | Total Kjeldahl Nitrogen in aqueous matrices                                                                               | 2479454            |
| EPA 353.2 Rev. 2.0           | Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             | 2479454            |
| EPA 365.1 Rev. 2.0           | Total Phosphorus in aqueous matrices as mg P/L                                                                            | 2479454            |
| EPA 365.1 Rev. 2.0 dissolved | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       | 2479455            |
| EPA 8270E                    | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM                                                | 2479475            |
| EPA 8270E                    | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                                    | 2479475            |
| EPA 8321B                    | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                               | 2479462            |
| SM 2320 B-2011               | Alkalinity in aqueous matrices as mg CaCO3/L                                                                              | 2479453            |
| SM 2340 B-2011               | Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                      | 2479463            |
| SM 2540 C-2015               | Total Dissolved Solids in aqueous matrices                                                                                | 2479453            |
| SM 2540 D-2015               | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                            | 2479453            |
| SM 4500-F- C-2011            | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                       | 2479453            |
| SM 5310 B-2014               | Nonpurgeable Organic Carbon in aqueous matrices                                                                           | 2479454            |

Preparation and Analysis Log

| Ref. Method                  | Received Date | Prep Date/Time   | Prepared By       | Analysis Date/Time | Analyzed By        | Associated Samples |
|------------------------------|---------------|------------------|-------------------|--------------------|--------------------|--------------------|
| DEP SOP: NU-094-1            | 04/03/2024    |                  |                   | 04/03/2024 15:41   | Jessica K Wilks    | 2479453            |
| EPA 180.1 Rev. 2.0           | 04/03/2024    |                  |                   | 04/03/2024 14:21   | Khloe J Berg       | 2479453            |
| EPA 200.7 Rev. 4.4           | 04/03/2024    | 04/04/2024 12:30 | George D Taylor   | 04/08/2024 16:04   | Chase Roberts      | 2479463            |
| EPA 200.8 Rev. 5.4           | 04/03/2024    | 04/04/2024 12:30 | George D Taylor   | 04/05/2024 19:44   | Emily M Philpot    | 2479463            |
|                              | 04/03/2024    | 04/04/2024 12:30 | George D Taylor   | 04/06/2024 00:50   | Emily M Philpot    | 2479463            |
| EPA 300.0 Rev. 2.1           | 04/03/2024    |                  |                   | 04/06/2024 08:27   | James L Waggeberby | 2479453            |
| EPA 350.1 Rev. 2.0           | 04/03/2024    |                  |                   | 04/04/2024 13:10   | Ping Hua           | 2479454            |
| EPA 351.2 Rev. 2.0           | 04/03/2024    | 04/04/2024 14:50 | Robyn Blevins     | 04/09/2024 13:49   | Ping Hua           | 2479454            |
| EPA 353.2 Rev. 2.0           | 04/03/2024    |                  |                   | 04/08/2024 14:48   | Fadila Guebre      | 2479454            |
| EPA 365.1 Rev. 2.0           | 04/03/2024    | 04/05/2024 13:44 | Josephine W Gitau | 04/07/2024 16:54   | James L Waggeberby | 2479454            |
| EPA 365.1 Rev. 2.0 dissolved | 04/03/2024    |                  |                   | 04/03/2024 14:20   | Elise M. Gillis    | 2479455            |
| EPA 8270E                    | 04/03/2024    | 04/08/2024 08:10 | Rasheda Ghaffari  | 04/16/2024 19:46   | Julie Wi           | 2479475            |
|                              | 04/03/2024    | 04/08/2024 08:10 | Rasheda Ghaffari  | 04/16/2024 23:01   | Arthur Maknenko    | 2479475            |
| EPA 8321B                    | 04/03/2024    | 04/04/2024 09:00 | Hoor Shaik        | 04/10/2024 01:19   | Juyoung Kim        | 2479462            |
|                              | 04/03/2024    | 04/05/2024 11:00 | Hana Lee          | 04/08/2024 10:44   | Hana Lee           | 2479462            |
|                              | 04/03/2024    | 04/05/2024 11:00 | Hana Lee          | 04/08/2024 14:37   | Hana Lee           | 2479462            |
| SM 2320 B-2011               | 04/03/2024    |                  |                   | 04/05/2024 11:33   | Dale L. Simmons    | 2479453            |
| SM 2340 B-2011               | 04/03/2024    |                  |                   | 04/08/2024 16:04   | Chase Roberts      | 2479463            |
| SM 2540 C-2015               | 04/03/2024    |                  |                   | 04/05/2024 16:14   | Yijie Li           | 2479453            |
| SM 2540 D-2015               | 04/03/2024    |                  |                   | 04/05/2024 16:14   | Yijie Li           | 2479453            |
| SM 4500-F- C-2011            | 04/03/2024    |                  |                   | 04/05/2024 11:33   | Dale L. Simmons    | 2479453            |
| SM 5310 B-2014               | 04/03/2024    |                  |                   | 04/05/2024 00:49   | Khloe J Berg       | 2479454            |