# Chemical Analysis Report

**SO-DIST-2023-04-05-01**

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

Event Description: **2023 SMP: Felda Boys**
Request ID: **RQ-2023-03-20-14**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
2295 Victoria Ave. Suite 314
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 21-APR-2023 13:31

B. Steinbock

## 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: L 61W** **Collection Date/Time: 04/04/2023 09:15**

**Field ID: G4SD0194** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398184 | DEP SOP: NU-094-1 | Color (true) | 100 | | PCU | P428075 | |
| | EPA 180.1 Rev. 2.0 | Turbidity | 1.4 | | NTU | P428085 | |
| | EPA 300.0 Rev. 2.1 | Sulfate | 49 | | mg SO4/L | P428565 | |
| | SM 2320 B-2011 | Total Alkalinity | 62 | | mg CaCO3/L | P428260 | |
| | SM 2540 C-2015 | TDS | 245 | | mg/L | P428426 | |
| | SM 2540 D-2015 | TSS | 3 | I | mg/L | P428544 | |
| | SM 4500-F- C-2011 | Fluoride | 0.10 | | mg F/L | P428418 | |
| 2398187 | EPA 350.1 Rev. 2.0 | Ammonia-N | 0.030 | | mg N/L | P428122 | |
| | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 1.0 | | mg N/L | P428321 | |
| | EPA 353.2 Rev. 2.0 | NO2NO3-N | 0.015 | | mg N/L | P428182 | |
| | EPA 365.1 Rev. 2.0 | Total-P | 0.079 | | mg P/L | P428176 | |
| | SM 5310 B-2011 | Organic Carbon | 17 | | mg C/L | P428239 | |
| 2398196 | EPA 200.7 Rev. 4.4 | Calcium | 36.9 | | mg/L | P428155 | |
| | | Iron | 260 | | ug/L | P428155 | |
| | | Magnesium | 10.2 | | mg/L | P428155 | |
| | | Potassium | 11.3 | | mg/L | P428155 | |
| | | Sodium | 25.7 | | mg/L | P428155 | |
| | | Strontium | 1.42E+03 | | ug/L | P428155 | |
| | | Tin | 3.0 | U | ug/L | P428155 | |
| | | Titanium | 0.75 | U | ug/L | P428155 | |
| | | Vanadium | 2.0 | U | ug/L | P428155 | |
| | | Zinc | 5.0 | U | ug/L | P428155 | |
| | EPA 200.8 Rev. 5.4 | Aluminum | 39 | | ug/L | P428155 | |
| | | Antimony | 0.13 | I | ug/L | P428155 | |
| | | Arsenic | 1.23 | | ug/L | P428155 | |
| | | Barium | 25.8 | | ug/L | P428155 | |
| | | Beryllium | 0.011 | I | ug/L | P428155 | |
| | | Boron | 56.2 | | ug/L | P428155 | |
| | | Cadmium | 0.020 | U | ug/L | P428155 | |
| | | Chromium | 0.40 | U | ug/L | P428155 | |
| | | Cobalt | 0.077 | I | ug/L | P428155 | |
| | | Copper | 0.40 | U | ug/L | P428155 | |
| | | Lead | 0.20 | U | ug/L | P428155 | |
| | | Manganese | 31.4 | | ug/L | P428155 | |
| | | Molybdenum | 0.92 | | ug/L | P428155 | |
| | | Nickel | 0.50 | U | ug/L | P428155 | |
| | | Selenium | 0.20 | U | ug/L | P428155 | |
| | | Silver | 0.010 | U | ug/L | P428369 | |
| | | Thallium | 0.10 | U | ug/L | P428155 | |
| | SM 2340 B-2011 | Hardness | 134 | | mg/L | P428155 | |

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

**Sample Location: NINE MILE CANAL AT SR 80** **Collection Date/Time: 04/04/2023 10:25**

**Field ID: G3SD0088** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398233 | EPA 8270E | Oxybenzone** | 10 | U | ng/L | P427986 | |
| | | Acetochlor | 0.21 | U | ng/L | P427986 | |
| | | Octinoxate** | 21 | U | ng/L | P427986 | |
| | | Alachlor | 0.41 | U | ng/L | P427986 | |
| | | Avobenzone** | 100 | U | ng/L | P427986 | |
| | | Ametryn | 5.6 | I | ng/L | P427986 | |
| | | Atrazine | 140 | | ng/L | P427986 | |
| | | PBDE-47** | 4.1 | U | ng/L | P427986 | |
| | | Atrazine Desethyl | 22 | | ng/L | P427986 | |
| | | PBDE-99** | 5.1 | U | ng/L | P427986 | |
| | | Azinphos Methyl | 3.1 | U | ng/L | P427986 | |
| | | Tri-o-cresyl Phosphate** | 6.2 | U | ng/L | P427986 | |
| | | Azoxystrobin | 0.41 | U | ng/L | P427986 | |
| | | Bromacil | 4.8 | | ng/L | P427986 | |
| | | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)** | 12 | UJ | ng/L | P427986 | RPD |
| | | Butylate | 0.21 | U | ng/L | P427986 | |
| | | Dechlorane Plus** | 31 | UJ | ng/L | P427986 | CCV, RPD |
| | | Caffeine** | 7.7 | UJ | ng/L | P427986 | MS |
| | | Dechlorane 602** | 5.1 | U | ng/L | P427986 | |
| | | Carbophenothion | 0.51 | U | ng/L | P427986 | |
| | | Dechlorane 603** | 4.1 | U | ng/L | P427986 | |
| | | Carfentrazone Ethyl | 0.15 | U | ng/L | P427986 | |
| | | Hexabromobenzene** | 6.2 | U | ng/L | P427986 | |
| | | Chlorfenapyr | 0.31 | U | ng/L | P427986 | |
| | | PBB-153** | 8.2 | U | ng/L | P427986 | |
| | | Chlorpyrifos Ethyl | 0.31 | U | ng/L | P427986 | |
| | | Pentabromotoluene** | 3.1 | U | ng/L | P427986 | |
| | | Chlorpyrifos Methyl | 0.10 | U | ng/L | P427986 | |
| | | Tris(2-chloroethyl) phosphate (TCEP)** | 72 | U | ng/L | P427986 | |
| | | Coumaphos | 1.1 | U | ng/L | P427986 | |
| | | Tris(1-chloro-2-propyl) phosphate (TCPP)** | 15 | U | ng/L | P427986 | |
| | | Cyanazine | 5.1 | U | ng/L | P427986 | |
| | | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)** | 2.6 | U | ng/L | P427986 | |
| | | Cyprodinil | 0.21 | U | ng/L | P427986 | |
| | | Tetradecachloro-m-terphenyl** | 7.7 | UJ | ng/L | P427986 | RPD |
| | | Demeton | 3.6 | U | ng/L | P427986 | |
| | | Diazinon | 0.13 | U | ng/L | P427986 | |
| | | Difenoconazole | 0.62 | U | ng/L | P427986 | |
| | | Dimethenamid | 0.10 | U | ng/L | P427986 | |
| | | Dimethomorph | 0.31 | U | ng/L | P427986 | |
| | | Disulfoton | 0.62 | U | ng/L | P427986 | |
| | | Dithiopyr | 1.0 | U | ng/L | P427986 | |

**Field ID: G3SD0088** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398233 | EPA 8270E | EPTC | 0.51 | U | ng/L | P427986 | |
| | | Ethion | 0.31 | U | ng/L | P427986 | |
| | | Ethoprop | 0.13 | U | ng/L | P427986 | |
| | | Etridiazole | 0.10 | U | ng/L | P427986 | |
| | | Fenamiphos | 0.46 | U | ng/L | P427986 | |
| | | Fenbuconazole | 0.51 | U | ng/L | P427986 | |
| | | Fipronil | 0.21 | U | ng/L | P427986 | |
| | | Fipronil Desulfinyl** | 0.10 | U | ng/L | P427986 | |
| | | Fipronil Sulfide | 0.10 | U | ng/L | P427986 | |
| | | Fipronil Sulfone | 0.10 | U | ng/L | P427986 | |
| | | Fluazifop-P-butyl | 0.10 | U | ng/L | P427986 | |
| | | Fludioxonil | 0.10 | U | ng/L | P427986 | |
| | | Flumioxazin | 3.1 | UJ | ng/L | P427986 | CCV |
| | | Flutolanil | 0.10 | U | ng/L | P427986 | |
| | | Fluxapyroxad | 0.56 | I | ng/L | P427986 | |
| | | Fonofos | 0.15 | U | ng/L | P427986 | |
| | | Hexazinone | 25 | | ng/L | P427986 | |
| | | Imazalil | 0.67 | U | ng/L | P427986 | |
| | | Iprodione | 0.51 | U | ng/L | P427986 | |
| | | Loratadine** | 0.31 | U | ng/L | P427986 | |
| | | Malathion | 0.36 | U | ng/L | P427986 | |
| | | Metalaxyl | 0.90 | I | ng/L | P427986 | |
| | | Metolachlor | 7.5 | | ng/L | P427986 | |
| | | Metribuzin | 4.7 | | ng/L | P427986 | |
| | | Mevinphos | 1.0 | U | ng/L | P427986 | |
| | | Molinate | 0.26 | U | ng/L | P427986 | |
| | | Myclobutanil | 0.36 | U | ng/L | P427986 | |
| | | Naled | 2.6 | U | ng/L | P427986 | |
| | | Napropamide | 0.72 | U | ng/L | P427986 | |
| | | Norflurazon | 55 | | ng/L | P427986 | |
| | | Oxadiazon | 0.45 | I | ng/L | P427986 | |
| | | Oxyfluorfen | 0.21 | U | ng/L | P427986 | |
| | | Parathion Ethyl | 0.15 | U | ng/L | P427986 | |
| | | Parathion Methyl | 0.21 | UJ | ng/L | P427986 | MS |
| | | Pendimethalin | 0.77 | U | ng/L | P427986 | |
| | | Phenytoin** | 5.5 | U | ng/L | P427986 | |
| | | Phorate | 0.26 | U | ng/L | P427986 | |
| | | Prodiamine | 0.21 | U | ng/L | P427986 | |
| | | Prometon | 3.1 | U | ng/L | P427986 | |
| | | Prometryn | 0.36 | U | ng/L | P427986 | |
| | | Pronamide | 0.10 | U | ng/L | P427986 | |
| | | Propanil | 0.10 | U | ng/L | P427986 | |
| | | Propargite | 0.82 | U | ng/L | P427986 | |
| | | Propiconazole | 1.1 | I | ng/L | P427986 | |
| | | Pyraflufen Ethyl | 0.31 | U | ng/L | P427986 | |

**Field ID: G3SD0088** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398233 | EPA 8270E | Pyridaben | 1.4 | U | ng/L | P427986 | |
| | | Pyriproxyfen | 0.26 | U | ng/L | P427986 | |
| | | Simazine | 9.6 | | ng/L | P427986 | |
| | | Stirophos | 0.41 | U | ng/L | P427986 | |
| | | Sulfentrazone | 1.4 | U | ng/L | P427986 | |
| | | Tebuconazole | 1.4 | U | ng/L | P427986 | |
| | | Terbufos | 0.21 | U | ng/L | P427986 | |
| | | Terbuthylazine | 0.21 | U | ng/L | P427986 | |
| | | Thiobencarb | 0.51 | U | ng/L | P427986 | |
| | | Triadimefon | 0.15 | U | ng/L | P427986 | |

Ref. Method and Comment:
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.

**Sample Location: TOWNSENDCANALATCHURCHRD** **Collection Date/Time: 04/04/2023 11:25**

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398212 | DEP SOP: NU-094-1 | Color (true) | 76 | | PCU | P428075 | |
| | EPA 180.1 Rev. 2.0 | Turbidity | 5.5 | | NTU | P428085 | |
| | EPA 300.0 Rev. 2.1 | Sulfate | 20 | | mg SO4/L | P428565 | |
| | SM 2320 B-2011 | Total Alkalinity | 155 | | mg CaCO3/L | P428260 | |
| | SM 2540 C-2015 | TDS | 272 | | mg/L | P428426 | |
| | SM 2540 D-2015 | TSS | 9 | I | mg/L | P428544 | |
| | SM 4500-F- C-2011 | Fluoride | 0.25 | | mg F/L | P428418 | |
| 2398213 | EPA 350.1 Rev. 2.0 | Ammonia-N | 0.007 | | mg N/L | P428122 | |
| | EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 1.3 | | mg N/L | P428321 | |
| | EPA 353.2 Rev. 2.0 | NO2NO3-N | 0.004 | U | mg N/L | P428182 | |
| | EPA 365.1 Rev. 2.0 | Total-P | 0.15 | | mg P/L | P428177 | |
| | SM 5310 B-2011 | Organic Carbon | 18 | | mg C/L | P428239 | |
| 2398226 | EPA 8321B | Aldicarb | 0.020 | U | ug/L | P428069 | |
| | | Aldicarb Sulfone | 0.0020 | U | ug/L | P428069 | |
| | | Aldicarb Sulfoxide | 0.0020 | U | ug/L | P428069 | MS |
| | | Carbaryl | 0.0020 | U | ug/L | P428069 | |
| | | Carbofuran | 0.0020 | U | ug/L | P428069 | |
| | | 3-Hydroxycarbofuran | 0.0020 | U | ug/L | P428069 | |
| | | Methiocarb | 0.0020 | U | ug/L | P428069 | |
| | | Methomyl | 0.0020 | U | ug/L | P428069 | |
| | | Oxamyl | 0.0020 | U | ug/L | P428069 | |
| | | Propoxur | 0.0020 | U | ug/L | P428069 | |
| 2398227 | | 2,4-D | 0.0020 | I | ug/L | P428068 | |
| | | Acesulfame K | 0.10 | U | ug/L | P427991 | |
| | | 2,4,5-T | 0.0040 | U | ug/L | P428068 | |
| | | AMPA | 1.2 | | ug/L | P427991 | |
| | | Acetaminophen | 0.0080 | U | ug/L | P428068 | |
| | | Acetamiprid | 0.0020 | U | ug/L | P428068 | |
| | | Endothall | 0.25 | U | ug/L | P427991 | |
| | | Glufosinate | 0.10 | U | ug/L | P427991 | |
| | | Glyphosate | 6.2 | | ug/L | P427991 | |
| | | Afidopyropen | 0.0020 | U | ug/L | P428068 | |
| | | Bentazon | 8.0E-04 | U | ug/L | P428068 | |
| | | Sucralose | 0.010 | U | ug/L | P427991 | |
| | | Benzovindiflupyr | 0.0020 | U | ug/L | P428068 | |
| | | Carbamazepine | 8.0E-04 | U | ug/L | P428068 | |
| | | Clothianidin | 0.0097 | | ug/L | P428068 | |
| | | Dinotefuran | 0.0020 | U | ug/L | P428068 | |
| | | Diuron | 0.0064 | I | ug/L | P428068 | |
| | | Fenuron | 0.032 | U | ug/L | P428068 | |
| | | Fluridone | 8.0E-04 | U | ug/L | P428068 | |
| | | Imazapyr | 2.4 | | ug/L | P428068 | |
| | | Hydrocodone | 0.0020 | U | ug/L | P428068 | |
| | | Ibuprofen | 0.080 | U | ug/L | P428068 | |

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398227 | EPA 8321B | Imidacloprid | 0.095 | | ug/L | P428068 | |
| | | Linuron | 0.0040 | U | ug/L | P428068 | |
| | | Mandestrobin | 0.0020 | U | ug/L | P428068 | |
| | | MCPP | 0.0020 | U | ug/L | P428068 | |
| | | Naproxen | 0.0080 | U | ug/L | P428068 | |
| | | Primidone | 0.0040 | U | ug/L | P428068 | |
| | | Pyraclostrobin | 0.0020 | U | ug/L | P428068 | |
| | | Silvex | 0.0040 | U | ug/L | P428068 | |
| | | Thiamethoxam | 0.0077 | I | ug/L | P428068 | |
| | | Tolfenpyrad | 0.0020 | U | ug/L | P428068 | |
| | | Triclopyr | 0.0040 | U | ug/L | P428068 | |
| 2398234 | EPA 8270E | Aldrin | 0.66 | U | ng/L | P428223 | |
| | | Alpha-BHC | 0.10 | U | ng/L | P428223 | |
| | | Alpha-Chlordane | 0.20 | U | ng/L | P428223 | |
| | | PCB-1016 | 2.0 | U | ng/L | P428223 | |
| | | Beta-BHC | 0.10 | U | ng/L | P428223 | |
| | | PCB-1221 | 2.0 | U | ng/L | P428223 | |
| | | Beta-Cyfluthrin | 1.3 | U | ng/L | P428223 | |
| | | PCB-1232 | 2.0 | U | ng/L | P428223 | |
| | | Bifenthrin | 0.51 | U | ng/L | P428223 | |
| | | PCB-1242 | 2.0 | U | ng/L | P428223 | |
| | | PCB-1248 | 2.0 | U | ng/L | P428223 | |
| | | Chlorothalonil | 3.7 | U | ng/L | P428223 | |
| | | PCB-1254 | 2.0 | U | ng/L | P428223 | |
| | | Cis-Nonachlor | 0.20 | U | ng/L | P428223 | |
| | | PCB-1260 | 2.0 | U | ng/L | P428223 | |
| | | Cypermethrin | 1.5 | U | ng/L | P428223 | |
| | | Dacthal | 0.15 | U | ng/L | P428223 | |
| | | DDD-p,p' | 0.26 | U | ng/L | P428223 | |
| | | DDE-p,p' | 0.20 | U | ng/L | P428223 | |
| | | DDT-p,p' | 0.26 | U | ng/L | P428223 | |
| | | Delta-BHC | 0.41 | U | ng/L | P428223 | |
| | | Deltamethrin | 1.3 | U | ng/L | P428223 | |
| | | Dichlobenil | 0.26 | U | ng/L | P428223 | |
| | | Dicofol | 1.3 | U | ng/L | P428223 | |
| | | Dieldrin | 0.41 | U | ng/L | P428223 | |
| | | Endosulfan I | 0.41 | U | ng/L | P428223 | |
| | | Endosulfan II | 0.41 | U | ng/L | P428223 | |
| | | Endosulfan Sulfate | 0.31 | U | ng/L | P428223 | |
| | | Endrin | 0.41 | U | ng/L | P428223 | |
| | | Endrin Aldehyde | 0.77 | U | ng/L | P428223 | |
| | | Endrin Ketone | 0.41 | U | ng/L | P428223 | |
| | | Esfenvalerate | 0.77 | U | ng/L | P428223 | |
| | | Ethalfluralin | 0.15 | U | ng/L | P428223 | |
| | | Fenpropathrin | 0.26 | U | ng/L | P428223 | |

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398234 | EPA 8270E | Gamma-BHC | 0.13 | U | ng/L | P428223 | |
| | | Gamma-Chlordane | 0.20 | U | ng/L | P428223 | |
| | | Heptachlor | 0.20 | U | ng/L | P428223 | |
| | | Heptachlor Epoxide | 0.26 | U | ng/L | P428223 | |
| | | Hexachlorobenzene** | 1.0 | U | ng/L | P428223 | |
| | | Kepone | 5.1 | U | ng/L | P428223 | |
| | | Lambda-Cyhalothrin | 0.77 | U | ng/L | P428223 | |
| | | Methoprene | 0.77 | U | ng/L | P428223 | |
| | | Methoxychlor | 0.31 | U | ng/L | P428223 | |
| | | MGK-264 | 0.20 | U | ng/L | P428223 | |
| | | Mirex | 0.36 | U | ng/L | P428223 | |
| | | Oxychlordane | 0.31 | U | ng/L | P428223 | |
| | | Permethrin | 1.6 | U | ng/L | P428223 | |
| | | Phenothrin | 0.92 | U | ng/L | P428223 | |
| | | Piperonyl Butoxide | 0.15 | U | ng/L | P428223 | |
| | | Prallethrin | 2.0 | U | ng/L | P428223 | |
| | | Tau-Fluvalinate | 0.26 | U | ng/L | P428223 | |
| | | Tetramethrin | 0.77 | U | ng/L | P428223 | |
| | | Trans-Nonachlor | 0.20 | U | ng/L | P428223 | |
| | | Triclosan Methyl | 0.15 | U | ng/L | P428223 | |
| | | Trifluralin | 0.20 | U | ng/L | P428223 | |
| | EPA 8276 | Chlordane | 2.0 | U | ng/L | P428223 | |
| | | Toxaphene | 15 | U | ng/L | P428223 | |
| 2398235 | EPA 8270E | Oxybenzone** | 10 | U | ng/L | P427986 | |
| | | Acetochlor | 0.20 | U | ng/L | P427986 | |
| | | Octinoxate** | 20 | U | ng/L | P427986 | |
| | | Alachlor | 0.41 | U | ng/L | P427986 | |
| | | Avobenzone** | 100 | U | ng/L | P427986 | |
| | | Ametryn | 1.1 | U | ng/L | P427986 | |
| | | Atrazine | 19 | | ng/L | P427986 | |
| | | PBDE-47** | 4.1 | U | ng/L | P427986 | |
| | | Atrazine Desethyl | 6.5 | I | ng/L | P427986 | |
| | | PBDE-99** | 5.1 | U | ng/L | P427986 | |
| | | Azinphos Methyl | 3.1 | U | ng/L | P427986 | |
| | | Tri-o-cresyl Phosphate** | 6.1 | U | ng/L | P427986 | |
| | | Azoxystrobin | 1.5 | I | ng/L | P427986 | |
| | | Bromacil | 46 | | ng/L | P427986 | |
| | | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)** | 12 | U | ng/L | P427986 | RPD |
| | | Butylate | 0.20 | U | ng/L | P427986 | |
| | | Dechlorane Plus** | 31 | UJ | ng/L | P427986 | CCV, RPD |
| | | Caffeine** | 7.6 | U | ng/L | P427986 | MS |
| | | Dechlorane 602** | 5.1 | U | ng/L | P427986 | |
| | | Carbophenothion | 0.51 | U | ng/L | P427986 | |
| | | Dechlorane 603** | 4.1 | U | ng/L | P427986 | |

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398235 | EPA 8270E | Carfentrazone Ethyl | 0.15 | U | ng/L | P427986 | |
| | | Hexabromobenzene** | 6.1 | U | ng/L | P427986 | |
| | | Chlorfenapyr | 0.31 | U | ng/L | P427986 | |
| | | PBB-153** | 8.1 | U | ng/L | P427986 | |
| | | Chlorpyrifos Ethyl | 0.31 | U | ng/L | P427986 | |
| | | Pentabromotoluene** | 3.1 | U | ng/L | P427986 | |
| | | Chlorpyrifos Methyl | 0.10 | U | ng/L | P427986 | |
| | | Tris(2-chloroethyl) phosphate (TCEP)** | 71 | U | ng/L | P427986 | |
| | | Coumaphos | 1.1 | U | ng/L | P427986 | |
| | | Tris(1-chloro-2-propyl) phosphate (TCPP)** | 15 | U | ng/L | P427986 | |
| | | Cyanazine | 5.1 | U | ng/L | P427986 | |
| | | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)** | 2.5 | U | ng/L | P427986 | |
| | | Cyprodinil | 0.20 | U | ng/L | P427986 | |
| | | Tetradecachloro-m-terphenyl** | 7.6 | U | ng/L | P427986 | RPD |
| | | Demeton | 3.6 | U | ng/L | P427986 | |
| | | Diazinon | 0.13 | U | ng/L | P427986 | |
| | | Difenoconazole | 0.61 | U | ng/L | P427986 | |
| | | Dimethenamid | 0.10 | U | ng/L | P427986 | |
| | | Dimethomorph | 0.31 | U | ng/L | P427986 | |
| | | Disulfoton | 0.61 | U | ng/L | P427986 | |
| | | Dithiopyr | 1.0 | U | ng/L | P427986 | |
| | | EPTC | 0.51 | U | ng/L | P427986 | |
| | | Ethion | 0.31 | U | ng/L | P427986 | |
| | | Ethoprop | 0.13 | U | ng/L | P427986 | |
| | | Etridiazole | 0.10 | U | ng/L | P427986 | |
| | | Fenamiphos | 0.46 | U | ng/L | P427986 | |
| | | Fenbuconazole | 1.8 | I | ng/L | P427986 | |
| | | Fipronil | 0.20 | U | ng/L | P427986 | |
| | | Fipronil Desulfinyl** | 0.10 | U | ng/L | P427986 | |
| | | Fipronil Sulfide | 0.10 | U | ng/L | P427986 | |
| | | Fipronil Sulfone | 0.10 | U | ng/L | P427986 | |
| | | Fluazifop-P-butyl | 0.10 | U | ng/L | P427986 | |
| | | Fludioxonil | 0.10 | U | ng/L | P427986 | |
| | | Flumioxazin | 3.1 | UJ | ng/L | P427986 | CCV |
| | | Flutolanil | 0.10 | U | ng/L | P427986 | |
| | | Fluxapyroxad | 1.6 | | ng/L | P427986 | |
| | | Fonofos | 0.15 | U | ng/L | P427986 | |
| | | Hexazinone | 28 | | ng/L | P427986 | |
| | | Imazalil | 0.66 | U | ng/L | P427986 | |
| | | Iprodione | 0.51 | U | ng/L | P427986 | |
| | | Loratadine** | 0.31 | U | ng/L | P427986 | |
| | | Malathion | 0.36 | U | ng/L | P427986 | |
| | | Metalaxyl | 15 | | ng/L | P427986 | |
| | | Metolachlor | 1.1 | I | ng/L | P427986 | |

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398235 | EPA 8270E | Metribuzin | 0.41 | U | ng/L | P427986 | |
| | | Mevinphos | 1.0 | U | ng/L | P427986 | |
| | | Molinate | 0.25 | U | ng/L | P427986 | |
| | | Myclobutanil | 0.36 | U | ng/L | P427986 | |
| | | Naled | 2.5 | U | ng/L | P427986 | |
| | | Napropamide | 0.71 | U | ng/L | P427986 | |
| | | Norflurazon | 110 | | ng/L | P427986 | |
| | | Oxadiazon | 0.72 | I | ng/L | P427986 | |
| | | Oxyfluorfen | 0.20 | U | ng/L | P427986 | |
| | | Parathion Ethyl | 0.15 | U | ng/L | P427986 | |
| | | Parathion Methyl | 0.20 | U | ng/L | P427986 | MS |
| | | Pendimethalin | 0.76 | U | ng/L | P427986 | |
| | | Phenytoin** | 5.4 | U | ng/L | P427986 | |
| | | Phorate | 0.25 | U | ng/L | P427986 | |
| | | Prodiamine | 0.20 | U | ng/L | P427986 | |
| | | Prometon | 3.1 | U | ng/L | P427986 | |
| | | Prometryn | 0.36 | U | ng/L | P427986 | |
| | | Pronamide | 0.10 | U | ng/L | P427986 | |
| | | Propanil | 0.10 | U | ng/L | P427986 | |
| | | Propargite | 0.81 | U | ng/L | P427986 | |
| | | Propiconazole | 0.61 | U | ng/L | P427986 | |
| | | Pyraflufen Ethyl | 0.31 | U | ng/L | P427986 | |
| | | Pyridaben | 1.4 | U | ng/L | P427986 | |
| | | Pyriproxyfen | 0.25 | U | ng/L | P427986 | |
| | | Simazine | 2.8 | | ng/L | P427986 | |
| | | Stirophos | 0.41 | U | ng/L | P427986 | |
| | | Sulfentrazone | 1.4 | U | ng/L | P427986 | |
| | | Tebuconazole | 1.4 | U | ng/L | P427986 | |
| | | Terbufos | 0.20 | U | ng/L | P427986 | |
| | | Terbuthylazine | 0.20 | U | ng/L | P427986 | |
| | | Thiobencarb | 0.51 | U | ng/L | P427986 | |
| | | Triadimefon | 0.15 | U | ng/L | P427986 | |
| 2398241 | EPA 200.7 Rev. 4.4 | Calcium | 72.4 | | mg/L | P428155 | |
| | | Iron | 530 | | ug/L | P428155 | |
| | | Magnesium | 4.92 | | mg/L | P428155 | |
| | | Potassium | 6.7 | | mg/L | P428155 | |
| | | Sodium | 15.4 | | mg/L | P428155 | |
| | | Strontium | 243 | | ug/L | P428155 | |
| | | Tin | 3.0 | U | ug/L | P428155 | |
| | | Titanium | 0.75 | U | ug/L | P428155 | |
| | | Vanadium | 5.6 | I | ug/L | P428155 | |
| | | Zinc | 5.0 | U | ug/L | P428155 | |
| | EPA 200.8 Rev. 5.4 | Aluminum | 139 | | ug/L | P428155 | |
| | | Antimony | 0.91 | | ug/L | P428155 | |
| | | Arsenic | 1.02 | | ug/L | P428155 | |

**Field ID: G3SD0221** Matrix: W-SURF-FRH

| Sample ID | Ref. Method | Component | Result | Code | Units | Batch ID | QC Codes |
|---|---|---|---|---|---|---|---|
| 2398241 | EPA 200.8 Rev. 5.4 | Barium | 26.5 | | ug/L | P428155 | |
| | | Beryllium | 0.010 | U | ug/L | P428155 | |
| | | Boron | 45.5 | | ug/L | P428155 | |
| | | Cadmium | 0.020 | U | ug/L | P428155 | |
| | | Chromium | 1.0 | I | ug/L | P428155 | |
| | | Cobalt | 0.208 | | ug/L | P428155 | |
| | | Copper | 1.29 | | ug/L | P428155 | |
| | | Lead | 0.20 | U | ug/L | P428155 | |
| | | Manganese | 13.8 | | ug/L | P428155 | |
| | | Molybdenum | 1.21 | | ug/L | P428155 | |
| | | Nickel | 1.4 | I | ug/L | P428155 | |
| | | Selenium | 0.25 | I | ug/L | P428155 | |
| | | Silver | 0.010 | U | ug/L | P428155 | |
| | | Thallium | 0.10 | U | ug/L | P428155 | |
| | SM 2340 B-2011 | Hardness | 201 | | mg/L | P428155 | |

Ref. Method and Comment:
SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: MS accuracy and precision for bentazon could not be assessed due to high concentration of parameter in the spiked sample. 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: P428075**

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

**Reference Method: EPA 180.1 Rev. 2.0**
**Batch ID: P428085**

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

**Reference Method: EPA 200.7 Rev. 4.4**
**Batch ID: P428155**

| 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: P428155**

| 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 200.8 Rev. 5.4**
**Batch ID: P428369**

| Component | Result | Code | Units |
|---|---|---|---|
| Silver | 0.010 | U | ug/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P428565**

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

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P428122**

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

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P428321**

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

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P428182**

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

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428176**

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

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428177**

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

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | Result | Code | Units |
|---|---|---|---|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 12 | U | ng/L |
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 12 | U | ng/L |
| Acetochlor | 0.20 | U | ng/L |
| Acetochlor | 0.20 | U | ng/L |
| Alachlor | 0.40 | U | ng/L |
| Alachlor | 0.40 | U | ng/L |
| Ametryn | 1.1 | U | ng/L |
| Ametryn | 1.1 | U | ng/L |
| Atrazine | 0.20 | U | ng/L |
| Atrazine | 0.20 | U | ng/L |
| Atrazine Desethyl | 1.3 | U | ng/L |
| Atrazine Desethyl | 1.3 | U | ng/L |
| Avobenzone | 100 | U | ng/L |
| Avobenzone | 100 | U | ng/L |
| Azinphos Methyl | 3.0 | U | ng/L |
| Azinphos Methyl | 3.0 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | Result | Code | Units |
|---|---|---|---|
| Azoxystrobin | 0.40 | U | ng/L |
| Azoxystrobin | 0.40 | U | ng/L |
| Bromacil | 0.60 | U | ng/L |
| Bromacil | 0.60 | U | ng/L |
| Butylate | 0.20 | U | ng/L |
| Butylate | 0.20 | U | ng/L |
| Caffeine | 7.5 | U | ng/L |
| Caffeine | 7.5 | U | ng/L |
| Carbophenothion | 0.50 | U | ng/L |
| Carbophenothion | 0.50 | U | ng/L |
| Carfentrazone Ethyl | 0.15 | U | ng/L |
| Carfentrazone Ethyl | 0.15 | U | ng/L |
| Chlorfenapyr | 0.30 | U | ng/L |
| Chlorfenapyr | 0.30 | U | ng/L |
| Chlorpyrifos Ethyl | 0.30 | U | ng/L |
| Chlorpyrifos Ethyl | 0.30 | U | ng/L |
| Chlorpyrifos Methyl | 0.10 | U | ng/L |
| Chlorpyrifos Methyl | 0.10 | U | ng/L |
| Coumaphos | 1.0 | U | ng/L |
| Coumaphos | 1.0 | U | ng/L |
| Cyanazine | 5.0 | U | ng/L |
| Cyanazine | 5.0 | U | ng/L |
| Cyprodinil | 0.20 | U | ng/L |
| Cyprodinil | 0.20 | U | ng/L |
| Dechlorane 602 | 5.0 | U | ng/L |
| Dechlorane 602 | 5.0 | U | ng/L |
| Dechlorane 603 | 4.0 | U | ng/L |
| Dechlorane 603 | 4.0 | U | ng/L |
| Dechlorane Plus | 30 | U | ng/L |
| Dechlorane Plus | 30 | U | ng/L |
| Demeton | 3.5 | U | ng/L |
| Demeton | 3.5 | U | ng/L |
| Diazinon | 0.12 | U | ng/L |
| Diazinon | 0.12 | U | ng/L |
| Difenoconazole | 0.60 | U | ng/L |
| Difenoconazole | 0.60 | U | ng/L |
| Dimethenamid | 0.10 | U | ng/L |
| Dimethenamid | 0.10 | U | ng/L |
| Dimethomorph | 0.30 | U | ng/L |
| Dimethomorph | 0.30 | U | ng/L |
| Disulfoton | 0.60 | U | ng/L |
| Disulfoton | 0.60 | U | ng/L |
| Dithiopyr | 1.0 | U | ng/L |
| Dithiopyr | 1.0 | U | ng/L |
| EPTC | 0.50 | U | ng/L |
| EPTC | 0.50 | U | ng/L |
| Ethion | 0.30 | U | ng/L |
| Ethion | 0.30 | U | ng/L |
| Ethoprop | 0.12 | U | ng/L |
| Ethoprop | 0.12 | U | ng/L |
| Etridiazole | 0.10 | U | ng/L |
| Etridiazole | 0.10 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | Result | Code | Units |
|---|---|---|---|
| Fenamiphos | 0.45 | U | ng/L |
| Fenamiphos | 0.45 | U | ng/L |
| Fenbuconazole | 0.50 | U | ng/L |
| Fenbuconazole | 0.50 | U | ng/L |
| Fipronil | 0.20 | U | ng/L |
| Fipronil | 0.20 | U | ng/L |
| Fipronil Desulfinyl | 0.10 | U | ng/L |
| Fipronil Desulfinyl | 0.10 | U | ng/L |
| Fipronil Sulfide | 0.10 | U | ng/L |
| Fipronil Sulfide | 0.10 | U | ng/L |
| Fipronil Sulfone | 0.10 | U | ng/L |
| Fipronil Sulfone | 0.10 | U | ng/L |
| Fluazifop-P-butyl | 0.10 | U | ng/L |
| Fluazifop-P-butyl | 0.10 | U | ng/L |
| Fludioxonil | 0.10 | U | ng/L |
| Fludioxonil | 0.10 | U | ng/L |
| Flumioxazin | 3.0 | U | ng/L |
| Flumioxazin | 3.0 | U | ng/L |
| Flutolanil | 0.10 | U | ng/L |
| Flutolanil | 0.10 | U | ng/L |
| Fluxapyroxad | 0.25 | U | ng/L |
| Fluxapyroxad | 0.25 | U | ng/L |
| Fonofos | 0.15 | U | ng/L |
| Fonofos | 0.15 | U | ng/L |
| Hexabromobenzene | 6.0 | U | ng/L |
| Hexabromobenzene | 6.0 | U | ng/L |
| Hexazinone | 0.50 | U | ng/L |
| Hexazinone | 0.50 | U | ng/L |
| Imazalil | 0.65 | U | ng/L |
| Imazalil | 0.65 | U | ng/L |
| Iprodione | 0.50 | U | ng/L |
| Iprodione | 0.50 | U | ng/L |
| Loratadine | 0.30 | U | ng/L |
| Loratadine | 0.30 | U | ng/L |
| Malathion | 0.35 | U | ng/L |
| Malathion | 0.35 | U | ng/L |
| Metalaxyl | 0.50 | U | ng/L |
| Metalaxyl | 0.50 | U | ng/L |
| Metolachlor | 0.75 | U | ng/L |
| Metolachlor | 0.75 | U | ng/L |
| Metribuzin | 0.40 | U | ng/L |
| Metribuzin | 0.40 | U | ng/L |
| Mevinphos | 1.0 | U | ng/L |
| Mevinphos | 1.0 | U | ng/L |
| Molinate | 0.25 | U | ng/L |
| Molinate | 0.25 | U | ng/L |
| Myclobutanil | 0.35 | U | ng/L |
| Myclobutanil | 0.35 | U | ng/L |
| Naled | 2.5 | U | ng/L |
| Naled | 2.5 | U | ng/L |
| Napropamide | 0.70 | U | ng/L |
| Napropamide | 0.70 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | Result | Code | Units |
|---|---|---|---|
| Norflurazon | 1.0 | U | ng/L |
| Norflurazon | 1.0 | U | ng/L |
| Octinoxate | 20 | U | ng/L |
| Octinoxate | 20 | U | ng/L |
| Oxadiazon | 0.35 | U | ng/L |
| Oxadiazon | 0.35 | U | ng/L |
| Oxybenzone | 10 | U | ng/L |
| Oxybenzone | 10 | U | ng/L |
| Oxyfluorfen | 0.20 | U | ng/L |
| Oxyfluorfen | 0.20 | U | ng/L |
| Parathion Ethyl | 0.15 | U | ng/L |
| Parathion Ethyl | 0.15 | U | ng/L |
| Parathion Methyl | 0.20 | U | ng/L |
| Parathion Methyl | 0.20 | U | ng/L |
| PBB-153 | 8.0 | U | ng/L |
| PBB-153 | 8.0 | U | ng/L |
| PBDE-47 | 4.0 | U | ng/L |
| PBDE-47 | 4.0 | U | ng/L |
| PBDE-99 | 5.0 | U | ng/L |
| PBDE-99 | 5.0 | U | ng/L |
| Pendimethalin | 0.75 | U | ng/L |
| Pendimethalin | 0.75 | U | ng/L |
| Pentabromotoluene | 3.0 | U | ng/L |
| Pentabromotoluene | 3.0 | U | ng/L |
| Phenytoin | 5.3 | U | ng/L |
| Phenytoin | 5.3 | U | ng/L |
| Phorate | 0.25 | U | ng/L |
| Phorate | 0.25 | U | ng/L |
| Prodiamine | 0.20 | U | ng/L |
| Prodiamine | 0.20 | U | ng/L |
| Prometon | 3.0 | U | ng/L |
| Prometon | 3.0 | U | ng/L |
| Prometryn | 0.35 | U | ng/L |
| Prometryn | 0.35 | U | ng/L |
| Pronamide | 0.10 | U | ng/L |
| Pronamide | 0.10 | U | ng/L |
| Propanil | 0.10 | U | ng/L |
| Propanil | 0.10 | U | ng/L |
| Propargite | 0.80 | U | ng/L |
| Propargite | 0.80 | U | ng/L |
| Propiconazole | 0.60 | U | ng/L |
| Propiconazole | 0.60 | U | ng/L |
| Pyraflufen Ethyl | 0.30 | U | ng/L |
| Pyraflufen Ethyl | 0.30 | U | ng/L |
| Pyridaben | 1.4 | U | ng/L |
| Pyridaben | 1.4 | U | ng/L |
| Pyriproxyfen | 0.25 | U | ng/L |
| Pyriproxyfen | 0.25 | U | ng/L |
| Simazine | 0.25 | U | ng/L |
| Simazine | 0.25 | U | ng/L |
| Stirophos | 0.40 | U | ng/L |
| Stirophos | 0.40 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | Result | Code | Units |
|---|---|---|---|
| Sulfentrazone | 1.4 | U | ng/L |
| Sulfentrazone | 1.4 | U | ng/L |
| Tebuconazole | 1.4 | U | ng/L |
| Tebuconazole | 1.4 | U | ng/L |
| Terbufos | 0.20 | U | ng/L |
| Terbufos | 0.20 | U | ng/L |
| Terbuthylazine | 0.20 | U | ng/L |
| Terbuthylazine | 0.20 | U | ng/L |
| Tetradecachloro-m-terphenyl | 7.5 | U | ng/L |
| Tetradecachloro-m-terphenyl | 7.5 | U | ng/L |
| Thiobencarb | 0.50 | U | ng/L |
| Thiobencarb | 0.50 | U | ng/L |
| Tri-o-cresyl Phosphate | 6.0 | U | ng/L |
| Tri-o-cresyl Phosphate | 6.0 | U | ng/L |
| Triadimefon | 0.15 | U | ng/L |
| Triadimefon | 0.15 | U | ng/L |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 15 | U | ng/L |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 15 | U | ng/L |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 2.5 | U | ng/L |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 2.5 | U | ng/L |
| Tris(2-chloroethyl) phosphate (TCEP) | 70 | U | ng/L |
| Tris(2-chloroethyl) phosphate (TCEP) | 70 | U | ng/L |

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Component | Result | Code | Units |
|---|---|---|---|
| Aldrin | 0.65 | U | ng/L |
| Aldrin | 0.65 | U | ng/L |
| Alpha-BHC | 0.10 | U | ng/L |
| Alpha-BHC | 0.10 | U | ng/L |
| Alpha-Chlordane | 0.20 | U | ng/L |
| Alpha-Chlordane | 0.20 | U | ng/L |
| Beta-BHC | 0.10 | U | ng/L |
| Beta-BHC | 0.10 | U | ng/L |
| Beta-Cyfluthrin | 1.2 | U | ng/L |
| Beta-Cyfluthrin | 1.2 | U | ng/L |
| Bifenthrin | 0.50 | U | ng/L |
| Bifenthrin | 0.50 | U | ng/L |
| Chlorothalonil | 3.6 | U | ng/L |
| Chlorothalonil | 3.6 | U | ng/L |
| Cis-Nonachlor | 0.20 | U | ng/L |
| Cis-Nonachlor | 0.20 | U | ng/L |
| Cypermethrin | 1.5 | U | ng/L |
| Cypermethrin | 1.5 | U | ng/L |
| Dacthal | 0.15 | U | ng/L |
| Dacthal | 0.15 | U | ng/L |
| DDD-p,p' | 0.25 | U | ng/L |
| DDD-p,p' | 0.25 | U | ng/L |
| DDE-p,p' | 0.20 | U | ng/L |
| DDE-p,p' | 0.20 | U | ng/L |
| DDT-p,p' | 0.25 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Component | Result | Code | Units |
|---|---|---|---|
| DDT-p,p' | 0.25 | U | ng/L |
| Delta-BHC | 0.40 | U | ng/L |
| Delta-BHC | 0.40 | U | ng/L |
| Deltamethrin | 1.2 | U | ng/L |
| Deltamethrin | 1.2 | U | ng/L |
| Dichlobenil | 0.25 | U | ng/L |
| Dichlobenil | 0.25 | U | ng/L |
| Dicofol | 1.2 | U | ng/L |
| Dicofol | 1.2 | U | ng/L |
| Dieldrin | 0.40 | U | ng/L |
| Dieldrin | 0.40 | U | ng/L |
| Endosulfan I | 0.40 | U | ng/L |
| Endosulfan I | 0.40 | U | ng/L |
| Endosulfan II | 0.40 | U | ng/L |
| Endosulfan II | 0.40 | U | ng/L |
| Endosulfan Sulfate | 0.30 | U | ng/L |
| Endosulfan Sulfate | 0.30 | U | ng/L |
| Endrin | 0.40 | U | ng/L |
| Endrin | 0.40 | U | ng/L |
| Endrin Aldehyde | 0.75 | U | ng/L |
| Endrin Aldehyde | 0.75 | U | ng/L |
| Endrin Ketone | 0.40 | U | ng/L |
| Endrin Ketone | 0.40 | U | ng/L |
| Esfenvalerate | 0.75 | U | ng/L |
| Esfenvalerate | 0.75 | U | ng/L |
| Ethalfluralin | 0.15 | U | ng/L |
| Ethalfluralin | 0.15 | U | ng/L |
| Fenpropathrin | 0.25 | U | ng/L |
| Fenpropathrin | 0.25 | U | ng/L |
| Gamma-BHC | 0.12 | U | ng/L |
| Gamma-BHC | 0.12 | U | ng/L |
| Gamma-Chlordane | 0.20 | U | ng/L |
| Gamma-Chlordane | 0.20 | U | ng/L |
| Heptachlor | 0.20 | U | ng/L |
| Heptachlor | 0.20 | U | ng/L |
| Heptachlor Epoxide | 0.25 | U | ng/L |
| Heptachlor Epoxide | 0.25 | U | ng/L |
| Hexachlorobenzene | 1.0 | U | ng/L |
| Hexachlorobenzene | 1.0 | U | ng/L |
| Kepone | 5.0 | U | ng/L |
| Kepone | 5.0 | U | ng/L |
| Lambda-Cyhalothrin | 0.75 | U | ng/L |
| Lambda-Cyhalothrin | 0.75 | U | ng/L |
| Methoprene | 0.75 | U | ng/L |
| Methoprene | 0.75 | U | ng/L |
| Methoxychlor | 0.30 | U | ng/L |
| Methoxychlor | 0.30 | U | ng/L |
| MGK-264 | 0.20 | U | ng/L |
| MGK-264 | 0.20 | U | ng/L |
| Mirex | 0.35 | U | ng/L |
| Mirex | 0.35 | U | ng/L |
| Oxychlordane | 0.30 | U | ng/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Component | Result | Code | Units |
|---|---|---|---|
| Oxychlordane | 0.30 | U | ng/L |
| PCB-1016 | 2.0 | U | ng/L |
| PCB-1016 | 2.0 | U | ng/L |
| PCB-1221 | 2.0 | U | ng/L |
| PCB-1221 | 2.0 | U | ng/L |
| PCB-1232 | 2.0 | U | ng/L |
| PCB-1232 | 2.0 | U | ng/L |
| PCB-1242 | 2.0 | U | ng/L |
| PCB-1242 | 2.0 | U | ng/L |
| PCB-1248 | 2.0 | U | ng/L |
| PCB-1248 | 2.0 | U | ng/L |
| PCB-1254 | 2.0 | U | ng/L |
| PCB-1254 | 2.0 | U | ng/L |
| PCB-1260 | 2.0 | U | ng/L |
| PCB-1260 | 2.0 | U | ng/L |
| Permethrin | 1.6 | U | ng/L |
| Permethrin | 1.6 | U | ng/L |
| Phenothrin | 0.90 | U | ng/L |
| Phenothrin | 0.90 | U | ng/L |
| Piperonyl Butoxide | 0.15 | U | ng/L |
| Piperonyl Butoxide | 0.15 | U | ng/L |
| Prallethrin | 2.0 | U | ng/L |
| Prallethrin | 2.0 | U | ng/L |
| Tau-Fluvalinate | 0.25 | U | ng/L |
| Tau-Fluvalinate | 0.25 | U | ng/L |
| Tetramethrin | 0.75 | U | ng/L |
| Tetramethrin | 0.75 | U | ng/L |
| Trans-Nonachlor | 0.20 | U | ng/L |
| Trans-Nonachlor | 0.20 | U | ng/L |
| Triclosan Methyl | 0.15 | U | ng/L |
| Triclosan Methyl | 0.15 | U | ng/L |
| Trifluralin | 0.20 | U | ng/L |
| Trifluralin | 0.20 | U | ng/L |

**Reference Method: EPA 8276**
**Batch ID: P428223**

| Component | Result | Code | Units |
|---|---|---|---|
| Chlordane | 2.0 | U | ng/L |
| Chlordane | 2.0 | U | ng/L |
| Toxaphene | 15 | U | ng/L |
| Toxaphene | 15 | U | ng/L |

**Reference Method: EPA 8321B**
**Batch ID: P427991**

| 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 |

# Quality Assurance Report
# Method Blank Results

**Reference Method: EPA 8321B**
**Batch ID: P427991**

| Component | Result | Code | Units |
|---|---|---|---|
| Sucralose | 0.010 | U | ug/L |

**Reference Method: EPA 8321B**
**Batch ID: P428068**

| 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 |
| 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: P428069**

| Component | Result | Code | Units |
|---|---|---|---|
| 3-Hydroxycarbofuran | 0.0020 | U | ug/L |
| Aldicarb | 0.020 | U | ug/L |
| Aldicarb Sulfone | 0.0020 | U | ug/L |
| Aldicarb Sulfoxide | 0.0020 | U | ug/L |
| Carbaryl | 0.0020 | U | ug/L |
| Carbofuran | 0.0020 | U | ug/L |
| Methiocarb | 0.0020 | U | ug/L |
| Methomyl | 0.0020 | U | ug/L |
| Oxamyl | 0.0020 | U | ug/L |
| Propoxur | 0.0020 | U | ug/L |

# Quality Assurance Report
# Method Blank Results

**Reference Method: SM 2320 B-2011**
**Batch ID: P428260**

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

**Reference Method: SM 2540 C-2015**
**Batch ID: P428426**

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

**Reference Method: SM 2540 D-2015**
**Batch ID: P428544**

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

**Reference Method: SM 4500-F- C-2011**
**Batch ID: P428418**

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

**Reference Method: SM 5310 B-2011**
**Batch ID: P428239**

| 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: P428075**

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

**Reference Method: EPA 180.1 Rev. 2.0**
**Batch ID: P428085**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Turbidity | 99.0 | | P | 90 - 110 |

**Reference Method: EPA 200.7 Rev. 4.4**
**Batch ID: P428155**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Calcium | 102 | | P | 85 - 115 |
| Iron | 107 | | P | 85 - 115 |
| Magnesium | 99.9 | | P | 85 - 115 |
| Potassium | 101 | | P | 85 - 115 |
| Sodium | 108 | | P | 85 - 115 |
| Strontium | 102 | | P | 85 - 115 |
| Tin | 100 | | P | 85 - 115 |
| Titanium | 103 | | P | 85 - 115 |
| Vanadium | 100 | | P | 85 - 115 |
| Zinc | 101 | | P | 85 - 115 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428155**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Aluminum | 104 | | P | 85 - 115 |
| Antimony | 107 | | P | 85 - 115 |
| Arsenic | 103 | | P | 85 - 115 |
| Barium | 105 | | P | 85 - 115 |
| Beryllium | 97.4 | | P | 85 - 115 |
| Boron | 101 | | P | 85 - 115 |
| Cadmium | 102 | | P | 85 - 115 |
| Chromium | 101 | | P | 85 - 115 |
| Cobalt | 103 | | P | 85 - 115 |
| Copper | 101 | | P | 85 - 115 |
| Lead | 103 | | P | 85 - 115 |
| Manganese | 99.6 | | P | 85 - 115 |
| Molybdenum | 101 | | P | 85 - 115 |
| Nickel | 103 | | P | 85 - 115 |
| Selenium | 102 | | P | 85 - 115 |
| Silver | 105 | | P | 85 - 115 |
| Thallium | 103 | | P | 85 - 115 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428369**

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

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P428565**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Sulfate | 97.8 | | P | 90 - 110 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P428122**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Ammonia-N | 98.2 | | P | 90 - 110 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P428321**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Kjeldahl Nitrogen | 93.6 | | P | 90 - 110 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P428182**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| NO2NO3-N | 104 | | P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428176**

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

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428177**

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

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 64.3 | | P | 42 - 162 |
| Acetochlor | 90.1 | | P | 69 - 123 |
| Alachlor | 108 | | P | 65 - 118 |
| Ametryn | 118 | | P | 58 - 141 |
| Atrazine | 107 | | P | 73 - 118 |
| Atrazine Desethyl | 102 | | P | 32 - 125 |
| Avobenzone | 115 | | P | 40 - 203 |
| Azinphos Methyl | 70.8 | | P | 36 - 197 |
| Azoxystrobin | 103 | | P | 58 - 226 |
| Bromacil | 100 | | P | 48 - 120 |
| Butylate | 74.0 | | P | 27 - 85.0 |
| Caffeine | 114 | | P | 40 - 137 |
| Carbophenothion | 130 | | P | 54 - 132 |
| Carfentrazone Ethyl | 119 | | P | 60 - 142 |
| Chlorfenapyr | 86.9 | | P | 53 - 117 |
| Chlorpyrifos Ethyl | 105 | | P | 59 - 116 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Chlorpyrifos Methyl | 106 | | P | 66 - 119 |
| Coumaphos | 48.4 | | P | 11 - 234 |
| Cyanazine | 125 | | P | 61 - 248 |
| Cyprodinil | 94.5 | | P | 50 - 147 |
| Dechlorane 602 | 69.8 | | P | 50 - 150 |
| Dechlorane 603 | 81.2 | | P | 50 - 150 |
| Dechlorane Plus | 94.9 | | P | 47 - 182 |
| Demeton | 97.2 | | P | 30 - 138 |
| Diazinon | 118 | | P | 67 - 126 |
| Difenoconazole | 80.5 | | P | 38 - 205 |
| Dimethenamid | 105 | | P | 57 - 111 |
| Dimethomorph | 145 | | P | 16 - 212 |
| Disulfoton | 114 | | P | 46 - 126 |
| Dithiopyr | 112 | | P | 62 - 115 |
| EPTC | 79.5 | | P | 28 - 80.0 |
| Ethion | 92.8 | | P | 24 - 122 |
| Ethoprop | 76.2 | | P | 62 - 113 |
| Etridiazole | 86.5 | | P | 28 - 92.0 |
| Fenamiphos | 112 | | P | 57 - 128 |
| Fenbuconazole | 115 | | P | 52 - 155 |
| Fipronil | 91.9 | | P | 63 - 130 |
| Fipronil Desulfinyl | 117 | | P | 61 - 130 |
| Fipronil Sulfide | 95.3 | | P | 56 - 117 |
| Fipronil Sulfone | 99.4 | | P | 52 - 118 |
| Fluazifop-P-butyl | 68.1 | | P | 61 - 128 |
| Fludioxonil | 123 | | P | 59 - 129 |
| Flumioxazin | 69.4 | | P | 30 - 250 |
| Flutolanil | 104 | | P | 53 - 127 |
| Fluxapyroxad | 126 | | P | 42 - 132 |
| Fonofos | 109 | | P | 61 - 110 |
| Hexabromobenzene | 102 | | P | 50 - 150 |
| Hexazinone | 113 | | P | 46 - 139 |
| Imazalil | 113 | | P | 40 - 139 |
| Iprodione | 100 | | P | 40 - 146 |
| Loratadine | 76.7 | | P | 10 - 224 |
| Malathion | 118 | | P | 61 - 135 |
| Metalaxyl | 115 | | P | 58 - 121 |
| Metolachlor | 117 | | P | 64 - 118 |
| Metribuzin | 96.8 | | P | 45 - 245 |
| Mevinphos | 84.5 | | P | 49 - 118 |
| Molinate | 73.2 | | P | 42 - 92.0 |
| Myclobutanil | 96.7 | | P | 55 - 127 |
| Naled | 69.9 | | P | 10 - 114 |
| Napropamide | 101 | | P | 39 - 121 |
| Norflurazon | 84.6 | | P | 55 - 129 |
| Octinoxate | 102 | | P | 26 - 166 |
| Oxadiazon | 111 | | P | 54 - 115 |
| Oxybenzone | 105 | | P | 49 - 135 |
| Oxyfluorfen | 133 | | P | 64 - 139 |
| Parathion Ethyl | 99.3 | | P | 70 - 111 |
| Parathion Methyl | 92.8 | | P | 76 - 136 |
| PBB-153 | 78.1 | | P | 50 - 150 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| PBDE-47 | 90.5 | | P | 41 - 148 |
| PBDE-99 | 70.5 | | P | 38 - 147 |
| Pendimethalin | 101 | | P | 52 - 118 |
| Pentabromotoluene | 94.1 | | P | 50 - 150 |
| Phenytoin | 58.3 | | P | 10 - 162 |
| Phorate | 93.6 | | P | 40 - 122 |
| Prodiamine | 77.8 | | P | 26 - 141 |
| Prometon | 93.9 | | P | 54 - 122 |
| Prometryn | 127 | | P | 61 - 128 |
| Pronamide | 114 | | P | 72 - 121 |
| Propanil | 114 | | P | 45 - 144 |
| Propargite | 61.5 | | P | 10 - 199 |
| Propiconazole | 91.8 | | P | 56 - 127 |
| Pyraflufen Ethyl | 115 | | P | 56 - 140 |
| Pyridaben | 127 | | P | 26 - 211 |
| Pyriproxyfen | 49.3 | | P | 33 - 194 |
| Simazine | 116 | | P | 67 - 121 |
| Stirophos | 94.9 | | P | 20 - 142 |
| Sulfentrazone | 127 | | P | 21 - 144 |
| Tebuconazole | 112 | | P | 10 - 122 |
| Terbufos | 108 | | P | 60 - 129 |
| Terbuthylazine | 86.6 | | P | 69 - 113 |
| Tetradecachloro-m-terphenyl | 127 | | P | 70 - 200 |
| Thiobencarb | 112 | | P | 51 - 120 |
| Tri-o-cresyl Phosphate | 103 | | P | 49 - 150 |
| Triadimefon | 97.0 | | P | 56 - 114 |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 95.1 | | P | 50 - 150 |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 84.5 | | P | 50 - 150 |
| Tris(2-chloroethyl) phosphate (TCEP) | 96.9 | | P | 70 - 180 |

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Aldrin | 44.1 | | P | 10 - 92.0 |
| Alpha-BHC | 96.4 | | P | 75 - 107 |
| Alpha-Chlordane | 66.8 | | P | 50 - 108 |
| Beta-BHC | 79.8 | | P | 36 - 138 |
| Beta-Cyfluthrin | 56.2 | | P | 20 - 161 |
| Bifenthrin | 41.9 | | P | 10 - 119 |
| Chlorothalonil | 80.6 | | P | 26 - 186 |
| Cis-Nonachlor | 63.8 | | P | 42 - 119 |
| Cypermethrin | 56.2 | | P | 22 - 150 |
| Dacthal | 80.7 | | P | 72 - 119 |
| DDD-p,p' | 84.3 | | P | 45 - 107 |
| DDE-p,p' | 74.5 | | P | 48 - 106 |
| DDT-p,p' | 81.6 | | P | 48 - 110 |
| Delta-BHC | 82.1 | | P | 54 - 140 |
| Deltamethrin | 71.5 | | P | 22 - 189 |
| Dichlobenil | 70.7 | | P | 36 - 117 |
| Dicofol | 74.0 | | P | 46 - 155 |
| Dieldrin | 74.3 | | P | 54 - 110 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Endosulfan I | 77.8 | | P | 59 - 105 |
| Endosulfan II | 75.7 | | P | 51 - 118 |
| Endosulfan Sulfate | 77.8 | | P | 57 - 121 |
| Endrin | 78.1 | | P | 10 - 120 |
| Endrin Aldehyde | 62.5 | | P | 34 - 118 |
| Endrin Ketone | 122 | | P | 69 - 177 |
| Esfenvalerate | 52.4 | | P | 23 - 168 |
| Ethalfluralin | 78.0 | | P | 49 - 99.0 |
| Fenpropathrin | 60.0 | | P | 34 - 117 |
| Gamma-BHC | 115 | | P | 72 - 117 |
| Gamma-Chlordane | 72.5 | | P | 43 - 106 |
| Heptachlor | 63.5 | | P | 41 - 98.0 |
| Heptachlor Epoxide | 70.0 | | P | 57 - 106 |
| Hexachlorobenzene | 63.8 | | P | 36 - 99.0 |
| Kepone | 56.2 | | P | 16 - 215 |
| Lambda-Cyhalothrin | 45.3 | | P | 21 - 177 |
| Methoprene | 36.7 | | P | 10 - 119 |
| Methoxychlor | 96.9 | | P | 60 - 112 |
| MGK-264 | 60.9 | | P | 26 - 122 |
| Mirex | 49.6 | | P | 10 - 169 |
| Oxychlordane | 64.3 | | P | 43 - 105 |
| PCB-1016 | 59.5 | | P | 48 - 112 |
| PCB-1260 | 74.0 | | P | 44 - 118 |
| Permethrin | 50.2 | | P | 24 - 148 |
| Phenothrin | 39.9 | | P | 10 - 106 |
| Piperonyl Butoxide | 58.1 | | P | 10 - 139 |
| Prallethrin | 71.2 | | P | 17 - 109 |
| Tau-Fluvalinate | 42.3 | | P | 13 - 131 |
| Tetramethrin | 59.8 | | P | 10 - 132 |
| Trans-Nonachlor | 65.0 | | P | 44 - 106 |
| Triclosan Methyl | 81.8 | | P | 59 - 109 |
| Trifluralin | 76.1 | | P | 44 - 101 |

**Reference Method: EPA 8276**
**Batch ID: P428223**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Chlordane | 63.9 | | P | 61 - 116 |
| Toxaphene | 70.2 | | P | 48 - 124 |

**Reference Method: EPA 8321B**
**Batch ID: P427991**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Acesulfame K | 96.2 | | P | 40 - 150 |
| AMPA | 123 | | P | 40 - 150 |
| Endothall | 90.7 | | P | 40 - 150 |
| Glufosinate | 99.3 | | P | 40 - 150 |
| Glyphosate | 120 | | P | 40 - 150 |
| Sucralose | 107 | | P | 40 - 150 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: EPA 8321B**
**Batch ID: P428068**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| 2,4-D | 100 | | P | 40 - 150 |
| 2,4,5-T | 100 | | P | 40 - 150 |
| Acetaminophen | 101 | | P | 30 - 150 |
| Acetamiprid | 85.2 | | P | 40 - 150 |
| Afidopyropen | 68.9 | | P | 30 - 150 |
| Bentazon | 97.9 | | P | 30 - 150 |
| Benzovindiflupyr | 87.5 | | P | 40 - 150 |
| Carbamazepine | 87.9 | | P | 40 - 150 |
| Clothianidin | 91.5 | | P | 40 - 150 |
| Dinotefuran | 98.5 | | P | 40 - 150 |
| Diuron | 79.0 | | P | 40 - 150 |
| Fenuron | 88.8 | | P | 40 - 150 |
| Fluridone | 89.9 | | P | 40 - 150 |
| Hydrocodone | 126 | | P | 40 - 150 |
| Ibuprofen | 77.0 | | P | 40 - 150 |
| Imazapyr | 106 | | P | 40 - 150 |
| Imidacloprid | 87.0 | | P | 40 - 150 |
| Linuron | 87.9 | | P | 40 - 150 |
| Mandestrobin | 91.7 | | P | 40 - 150 |
| MCPP | 95.2 | | P | 40 - 150 |
| Naproxen | 75.4 | | P | 40 - 150 |
| Primidone | 97.7 | | P | 40 - 150 |
| Pyraclostrobin | 86.7 | | P | 40 - 150 |
| Silvex | 108 | | P | 40 - 150 |
| Thiamethoxam | 105 | | P | 40 - 150 |
| Tolfenpyrad | 59.7 | | P | 30 - 150 |
| Triclopyr | 93.8 | | P | 40 - 150 |

**Reference Method: EPA 8321B**
**Batch ID: P428069**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| 3-Hydroxycarbofuran | 81.7 | | P | 40 - 150 |
| Aldicarb | 68.6 | | P | 30 - 150 |
| Aldicarb Sulfone | 101 | | P | 40 - 150 |
| Aldicarb Sulfoxide | 103 | | P | 40 - 150 |
| Carbaryl | 75.3 | | P | 40 - 150 |
| Carbofuran | 66.6 | | P | 40 - 150 |
| Methiocarb | 83.2 | | P | 40 - 150 |
| Methomyl | 106 | | P | 40 - 150 |
| Oxamyl | 110 | | P | 40 - 150 |
| Propoxur | 65.2 | | P | 40 - 150 |

**Reference Method: SM 2320 B-2011**
**Batch ID: P428260**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Total Alkalinity | 96.2 | | P | 94 - 106 |

# Quality Assurance Report
# Laboratory Control Sample Accuracy

**Reference Method: SM 2540 C-2015**
**Batch ID: P428426**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| TDS | 95.4 | | P | 90 - 110 |

**Reference Method: SM 2540 D-2015**
**Batch ID: P428544**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| TSS | 93.3 | | P | 85 - 106 |

**Reference Method: SM 4500-F- C-2011**
**Batch ID: P428418**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Fluoride | 99.8 | | P | 96 - 104 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P428239**

| Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|
| Organic Carbon | 97.2 | | P | 85 - 115 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 200.7 Rev. 4.4**
**Batch ID: P428155**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397923 | Calcium | 98.9 | | P | 80 - 120 |
| 2397923 | Iron | 103 | 102 | P/P | 80 - 120 |
| 2397923 | Magnesium | 102 | | P | 80 - 120 |
| 2397923 | Potassium | 102 | 101 | P/P | 80 - 120 |
| 2397923 | Sodium | 107 | 106 | P/P | 80 - 120 |
| 2397923 | Strontium | 102 | 102 | P/P | 80 - 120 |
| 2397923 | Tin | 99.8 | 101 | P/P | 80 - 120 |
| 2397923 | Titanium | 105 | 105 | P/P | 80 - 120 |
| 2397923 | Vanadium | 103 | 103 | P/P | 80 - 120 |
| 2397923 | Zinc | 99.8 | 99.8 | P/P | 80 - 120 |
| 2398304 | Calcium | 96.2 | | P | 80 - 120 |
| 2398304 | Iron | 100 | | P | 80 - 120 |
| 2398304 | Magnesium | 97.5 | | P | 80 - 120 |
| 2398304 | Potassium | 100 | | P | 80 - 120 |
| 2398304 | Sodium | 103 | | P | 80 - 120 |
| 2398304 | Strontium | 102 | | P | 80 - 120 |
| 2398304 | Tin | 98.3 | | P | 80 - 120 |
| 2398304 | Titanium | 103 | | P | 80 - 120 |
| 2398304 | Vanadium | 102 | | P | 80 - 120 |
| 2398304 | Zinc | 98.2 | | P | 80 - 120 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428155**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397923 | Aluminum | 103 | 103 | P/P | 80 - 120 |
| 2397923 | Antimony | 107 | 108 | P/P | 80 - 120 |
| 2397923 | Arsenic | 102 | 101 | P/P | 80 - 120 |
| 2397923 | Barium | 105 | 105 | P/P | 80 - 120 |
| 2397923 | Beryllium | 96.2 | 97.8 | P/P | 80 - 120 |
| 2397923 | Boron | 100 | 102 | P/P | 80 - 120 |
| 2397923 | Cadmium | 104 | 104 | P/P | 80 - 120 |
| 2397923 | Chromium | 102 | 102 | P/P | 80 - 120 |
| 2397923 | Cobalt | 102 | 102 | P/P | 80 - 120 |
| 2397923 | Copper | 98.6 | 98.3 | P/P | 80 - 120 |
| 2397923 | Lead | 104 | 105 | P/P | 80 - 120 |
| 2397923 | Manganese | 101 | 102 | P/P | 80 - 120 |
| 2397923 | Molybdenum | 102 | 103 | P/P | 80 - 120 |
| 2397923 | Nickel | 99.9 | 99.6 | P/P | 80 - 120 |
| 2397923 | Selenium | 100 | 100 | P/P | 80 - 120 |
| 2397923 | Silver | 105 | 105 | P/P | 80 - 120 |
| 2397923 | Thallium | 105 | 108 | P/P | 80 - 120 |
| 2398304 | Aluminum | 105 | | P | 80 - 120 |
| 2398304 | Antimony | 108 | | P | 80 - 120 |
| 2398304 | Arsenic | 101 | | P | 80 - 120 |
| 2398304 | Barium | 104 | | P | 80 - 120 |
| 2398304 | Beryllium | 92.7 | | P | 80 - 120 |
| 2398304 | Boron | 107 | | P | 80 - 120 |
| 2398304 | Cadmium | 106 | | P | 80 - 120 |
| 2398304 | Chromium | 102 | | P | 80 - 120 |
| 2398304 | Cobalt | 100 | | P | 80 - 120 |
| 2398304 | Copper | 96.1 | | P | 80 - 120 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428155**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398304 | Lead | 105 | | P | 80 - 120 |
| 2398304 | Manganese | 103 | | P | 80 - 120 |
| 2398304 | Molybdenum | 103 | | P | 80 - 120 |
| 2398304 | Nickel | 98.2 | | P | 80 - 120 |
| 2398304 | Selenium | 98.6 | | P | 80 - 120 |
| 2398304 | Silver | 106 | | P | 80 - 120 |
| 2398304 | Thallium | 106 | | P | 80 - 120 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428369**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2399397 | Silver | 102 | 103 | P/P | 80 - 120 |
| 2399553 | Silver | 101 | | P | 80 - 120 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P428565**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398168 | Sulfate | 93.3 | | P | 90 - 110 |
| 2398319 | Sulfate | 96.9 | | P | 90 - 110 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P428122**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398169 | Ammonia-N | 101 | 97.2 | P/P | 90 - 110 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P428321**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398292 | Kjeldahl Nitrogen | 101 | 96.3 | P/P | 90 - 110 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P428182**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398207 | NO2NO3-N | 103 | 102 | P/P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428176**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398146 | Total-P | 97.2 | 98.4 | P/P | 90 - 110 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428177**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398290 | Total-P | 101 | 101 | P/P | 90 - 110 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398233 | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 47.4 | 75.6 | P/P | 26 - 165 |
| 2398233 | Acetochlor | 96.9 | 93.8 | P/P | 67 - 124 |
| 2398233 | Alachlor | 102 | 103 | P/P | 60 - 120 |
| 2398233 | Ametryn | 115 | 87.4 | P/P | 54 - 216 |
| 2398233 | Atrazine Desethyl | 113 | 77.8 | P/P | 15 - 122 |
| 2398233 | Avobenzone | 120 | 105 | P/P | 37 - 178 |
| 2398233 | Azinphos Methyl | 60.9 | 64.3 | P/P | 40 - 292 |
| 2398233 | Azoxystrobin | 107 | 101 | P/P | 35 - 220 |
| 2398233 | Bromacil | 109 | 74.3 | P/P | 45 - 127 |
| 2398233 | Butylate | 63.6 | 61.0 | P/P | 20 - 83.0 |
| 2398233 | Caffeine | 201 | 193 | F/P | 10 - 194 |
| 2398233 | Carbophenothion | 83.8 | 79.5 | P/P | 57 - 127 |
| 2398233 | Carfentrazone Ethyl | 83.8 | 81.1 | P/P | 51 - 141 |
| 2398233 | Chlorfenapyr | 70.2 | 64.5 | P/P | 46 - 111 |
| 2398233 | Chlorpyrifos Ethyl | 107 | 109 | P/P | 52 - 120 |
| 2398233 | Chlorpyrifos Methyl | 108 | 96.2 | P/P | 63 - 119 |
| 2398233 | Coumaphos | 117 | 122 | P/P | 10 - 228 |
| 2398233 | Cyanazine | 112 | 90.8 | P/P | 59 - 241 |
| 2398233 | Cyprodinil | 104 | 94.8 | P/P | 47 - 146 |
| 2398233 | Dechlorane 602 | 71.3 | 75.0 | P/P | 50 - 150 |
| 2398233 | Dechlorane 603 | 81.0 | 67.9 | P/P | 50 - 150 |
| 2398233 | Dechlorane Plus | 95.4 | 50.7 | P/P | 50 - 150 |
| 2398233 | Demeton | 89.7 | 98.0 | P/P | 40 - 136 |
| 2398233 | Diazinon | 102 | 95.9 | P/P | 69 - 132 |
| 2398233 | Difenoconazole | 80.8 | 102 | P/P | 57 - 258 |
| 2398233 | Dimethenamid | 108 | 98.1 | P/P | 54 - 110 |
| 2398233 | Dimethomorph | 146 | 106 | P/P | 28 - 210 |
| 2398233 | Disulfoton | 82.5 | 74.8 | P/P | 43 - 133 |
| 2398233 | Dithiopyr | 69.4 | 75.7 | P/P | 39 - 116 |
| 2398233 | EPTC | 44.5 | 53.8 | P/P | 20 - 78.0 |
| 2398233 | Ethion | 74.2 | 63.9 | P/P | 17 - 119 |
| 2398233 | Ethoprop | 96.1 | 84.6 | P/P | 66 - 120 |
| 2398233 | Etridiazole | 65.4 | 50.4 | P/P | 28 - 96.0 |
| 2398233 | Fenamiphos | 79.1 | 77.5 | P/P | 41 - 126 |
| 2398233 | Fenbuconazole | 111 | 86.5 | P/P | 42 - 169 |
| 2398233 | Fipronil | 83.7 | 64.3 | P/P | 61 - 132 |
| 2398233 | Fipronil Desulfinyl | 117 | 85.3 | P/P | 56 - 132 |
| 2398233 | Fipronil Sulfide | 74.1 | 63.6 | P/P | 48 - 119 |
| 2398233 | Fipronil Sulfone | 77.6 | 68.8 | P/P | 42 - 131 |
| 2398233 | Fluazifop-P-butyl | 64.9 | 56.9 | P/P | 53 - 131 |
| 2398233 | Fludioxonil | 83.5 | 80.2 | P/P | 56 - 127 |
| 2398233 | Flumioxazin | 74.8 | 79.1 | P/P | 19 - 300 |
| 2398233 | Flutolanil | 106 | 94.8 | P/P | 41 - 127 |
| 2398233 | Fluxapyroxad | 111 | 82.8 | P/P | 42 - 172 |
| 2398233 | Fonofos | 68.9 | 85.2 | P/P | 59 - 113 |
| 2398233 | Hexabromobenzene | 97.3 | 106 | P/P | 50 - 150 |
| 2398233 | Imazalil | 92.1 | 85.1 | P/P | 21 - 283 |
| 2398233 | Iprodione | 98.6 | 99.6 | P/P | 43 - 150 |
| 2398233 | Loratadine | 103 | 72.0 | P/P | 23 - 201 |
| 2398233 | Malathion | 125 | 119 | P/P | 58 - 136 |
| 2398233 | Metalaxyl | 97.5 | 94.7 | P/P | 55 - 120 |
| 2398233 | Metolachlor | 114 | 97.9 | P/P | 57 - 121 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398233 | Metribuzin | 97.9 | 79.4 | P/P | 58 - 294 |
| 2398233 | Mevinphos | 50.5 | 65.1 | P/P | 50 - 126 |
| 2398233 | Molinate | 65.0 | 61.1 | P/P | 42 - 93.0 |
| 2398233 | Myclobutanil | 94.0 | 72.7 | P/P | 55 - 125 |
| 2398233 | Naled | 89.3 | 82.4 | P/P | 18 - 200 |
| 2398233 | Napropamide | 80.2 | 90.3 | P/P | 39 - 110 |
| 2398233 | Octinoxate | 94.9 | 78.0 | P/P | 21 - 159 |
| 2398233 | Oxadiazon | 110 | 86.0 | P/P | 43 - 112 |
| 2398233 | Oxybenzone | 95.3 | 78.3 | P/P | 41 - 142 |
| 2398233 | Oxyfluorfen | 107 | 87.7 | P/P | 64 - 153 |
| 2398233 | Parathion Ethyl | 99.8 | 81.6 | P/P | 69 - 114 |
| 2398233 | Parathion Methyl | 92.6 | 75.8 | P/F | 79 - 139 |
| 2398233 | PBB-153 | 66.2 | 84.9 | P/P | 50 - 150 |
| 2398233 | PBDE-47 | 84.3 | 75.4 | P/P | 27 - 144 |
| 2398233 | PBDE-99 | 68.5 | 71.1 | P/P | 18 - 150 |
| 2398233 | Pendimethalin | 104 | 90.1 | P/P | 50 - 139 |
| 2398233 | Pentabromotoluene | 92.3 | 93.7 | P/P | 50 - 150 |
| 2398233 | Phenytoin | 55.3 | 52.2 | P/P | 10 - 146 |
| 2398233 | Phorate | 62.7 | 73.8 | P/P | 54 - 161 |
| 2398233 | Prodiamine | 51.3 | 50.0 | P/P | 30 - 161 |
| 2398233 | Prometon | 97.0 | 92.7 | P/P | 45 - 134 |
| 2398233 | Prometryn | 110 | 84.3 | P/P | 45 - 137 |
| 2398233 | Pronamide | 117 | 117 | P/P | 65 - 133 |
| 2398233 | Propanil | 92.1 | 82.1 | P/P | 49 - 142 |
| 2398233 | Propargite | 67.7 | 70.9 | P/P | 10 - 203 |
| 2398233 | Propiconazole | 64.2 | 56.4 | P/P | 38 - 146 |
| 2398233 | Pyraflufen Ethyl | 61.5 | 61.7 | P/P | 34 - 153 |
| 2398233 | Pyridaben | 112 | 115 | P/P | 12 - 192 |
| 2398233 | Pyriproxyfen | 44.4 | 49.2 | P/P | 33 - 180 |
| 2398233 | Simazine | 123 | 105 | P/P | 51 - 157 |
| 2398233 | Stirophos | 117 | 108 | P/P | 10 - 128 |
| 2398233 | Sulfentrazone | 92.3 | 81.1 | P/P | 53 - 186 |
| 2398233 | Tebuconazole | 110 | 103 | P/P | 10 - 133 |
| 2398233 | Terbufos | 74.9 | 74.9 | P/P | 65 - 139 |
| 2398233 | Terbuthylazine | 109 | 105 | P/P | 66 - 117 |
| 2398233 | Tetradecachloro-m-terphenyl | 145 | 91.1 | P/P | 70 - 200 |
| 2398233 | Thiobencarb | 103 | 85.1 | P/P | 51 - 119 |
| 2398233 | Tri-o-cresyl Phosphate | 95.5 | 89.9 | P/P | 31 - 144 |
| 2398233 | Triadimefon | 92.8 | 81.2 | P/P | 48 - 119 |
| 2398233 | Tris(1-chloro-2-propyl) phosphate (TCPP) | 88.4 | 77.6 | P/P | 50 - 150 |
| 2398233 | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 81.2 | 65.9 | P/P | 50 - 150 |
| 2398233 | Tris(2-chloroethyl) phosphate (TCEP) | 83.6 | 82.0 | P/P | 70 - 180 |

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397780 | Aldrin | 41.3 | 43.2 | P/P | 20 - 82.0 |
| 2397780 | Alpha-BHC | 71.2 | 80.3 | P/P | 71 - 109 |
| 2397780 | Alpha-Chlordane | 61.2 | 58.0 | P/P | 42 - 106 |
| 2397780 | Beta-BHC | 70.0 | 80.7 | P/P | 69 - 180 |
| 2397780 | Beta-Cyfluthrin | 87.2 | 98.4 | P/P | 18 - 175 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397780 | Bifenthrin | 65.9 | 71.7 | P/P | 21 - 128 |
| 2397780 | Chlorothalonil | 86.7 | 96.9 | P/P | 10 - 300 |
| 2397780 | Cis-Nonachlor | 44.2 | 46.9 | P/P | 34 - 106 |
| 2397780 | Cypermethrin | 86.4 | 93.6 | P/P | 22 - 158 |
| 2397780 | Dacthal | 71.2 | 75.8 | P/P | 54 - 116 |
| 2397780 | DDD-p,p' | 50.8 | 58.2 | P/P | 34 - 107 |
| 2397780 | DDE-p,p' | 51.3 | 57.7 | P/P | 33 - 110 |
| 2397780 | DDT-p,p' | 63.5 | 68.3 | P/P | 50 - 122 |
| 2397780 | Delta-BHC | 77.2 | 85.5 | P/P | 77 - 193 |
| 2397780 | Deltamethrin | 109 | 123 | P/P | 10 - 195 |
| 2397780 | Dichlobenil | 42.2 | 45.2 | P/P | 25 - 113 |
| 2397780 | Dicofol | 63.6 | 69.9 | P/P | 38 - 247 |
| 2397780 | Dieldrin | 52.5 | 59.2 | P/P | 45 - 118 |
| 2397780 | Endosulfan I | 52.6 | 57.2 | P/P | 51 - 106 |
| 2397780 | Endosulfan II | 53.5 | 58.5 | P/P | 37 - 122 |
| 2397780 | Endosulfan Sulfate | 55.6 | 68.2 | P/P | 43 - 132 |
| 2397780 | Endrin | 53.9 | 57.4 | P/P | 29 - 101 |
| 2397780 | Endrin Aldehyde | 41.1 | 46.8 | P/P | 19 - 110 |
| 2397780 | Endrin Ketone | 80.9 | 98.6 | P/P | 60 - 140 |
| 2397780 | Esfenvalerate | 85.5 | 97.3 | P/P | 26 - 199 |
| 2397780 | Ethalfluralin | 58.6 | 67.4 | P/P | 45 - 99.0 |
| 2397780 | Fenpropathrin | 71.9 | 85.3 | P/P | 35 - 120 |
| 2397780 | Gamma-BHC | 76.3 | 81.0 | P/P | 63 - 128 |
| 2397780 | Gamma-Chlordane | 58.7 | 56.2 | P/P | 40 - 104 |
| 2397780 | Heptachlor | 51.6 | 54.3 | P/P | 36 - 97.0 |
| 2397780 | Heptachlor Epoxide | 59.5 | 64.0 | P/P | 49 - 184 |
| 2397780 | Hexachlorobenzene | 50.0 | 53.3 | P/P | 39 - 96.0 |
| 2397780 | Kepone | 78.4 | 84.8 | P/P | 10 - 217 |
| 2397780 | Lambda-Cyhalothrin | 71.7 | 72.5 | P/P | 21 - 193 |
| 2397780 | Methoprene | 53.5 | 65.5 | P/P | 20 - 106 |
| 2397780 | Methoxychlor | 79.6 | 88.3 | P/P | 53 - 118 |
| 2397780 | MGK-264 | 79.2 | 84.0 | P/P | 40 - 118 |
| 2397780 | Mirex | 43.1 | 46.2 | P/P | 26 - 92.0 |
| 2397780 | Oxychlordane | 48.2 | 63.9 | P/P | 44 - 99.0 |
| 2397780 | Permethrin | 76.1 | 84.3 | P/P | 33 - 182 |
| 2397780 | Phenothrin | 87.8 | 89.2 | P/P | 10 - 129 |
| 2397780 | Piperonyl Butoxide | 71.5 | 66.4 | P/P | 10 - 211 |
| 2397780 | Prallethrin | 73.3 | 82.9 | P/P | 24 - 113 |
| 2397780 | Tau-Fluvalinate | 83.8 | 99.6 | P/P | 14 - 149 |
| 2397780 | Tetramethrin | 90.3 | 101 | P/P | 17 - 151 |
| 2397780 | Trans-Nonachlor | 50.4 | 51.0 | P/P | 42 - 102 |
| 2397780 | Triclosan Methyl | 57.3 | 59.2 | P/P | 48 - 108 |
| 2397780 | Trifluralin | 57.3 | 63.9 | P/P | 47 - 96.0 |
| 2398276 | PCB-1016 | 65.4 | 62.2 | P/P | 46 - 111 |
| 2398276 | PCB-1260 | 69.6 | 68.6 | P/P | 45 - 114 |

**Reference Method: EPA 8276**
**Batch ID: P428223**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398276 | Chlordane | 68.7 | 71.8 | P/P | 53 - 126 |
| 2398276 | Toxaphene | 77.2 | 77.5 | P/P | 56 - 211 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: EPA 8321B**
**Batch ID: P427991**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397529 | Acesulfame K | 75.7 | 67.8 | P/P | 40 - 150 |
| 2397529 | AMPA | 70.0 | 63.3 | P/P | 40 - 150 |
| 2397529 | Endothall | 91.4 | 82.8 | P/P | 40 - 150 |
| 2397529 | Glufosinate | 56.0 | 62.0 | P/P | 40 - 150 |
| 2397529 | Glyphosate | 60.9 | 59.1 | P/P | 40 - 150 |
| 2397529 | Sucralose | 102 | 96.9 | P/P | 40 - 150 |

**Reference Method: EPA 8321B**
**Batch ID: P428068**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397862 | 2,4-D | 104 | 101 | P/P | 40 - 150 |
| 2397862 | 2,4,5-T | 114 | 106 | P/P | 40 - 150 |
| 2397862 | Acetaminophen | 110 | 113 | P/P | 30 - 150 |
| 2397862 | Acetamiprid | 91.9 | 71.5 | P/P | 40 - 150 |
| 2397862 | Afidopyropen | 84.7 | 74.6 | P/P | 30 - 150 |
| 2397862 | Benzovindiflupyr | 78.9 | 81.6 | P/P | 40 - 150 |
| 2397862 | Carbamazepine | 77.2 | 69.8 | P/P | 40 - 150 |
| 2397862 | Clothianidin | 106 | 99.7 | P/P | 40 - 150 |
| 2397862 | Dinotefuran | 120 | 93.5 | P/P | 40 - 150 |
| 2397862 | Diuron | 61.7 | 64.1 | P/P | 40 - 150 |
| 2397862 | Fenuron | 67.2 | 57.9 | P/P | 40 - 150 |
| 2397862 | Hydrocodone | 107 | 99.1 | P/P | 40 - 150 |
| 2397862 | Ibuprofen | 69.7 | 55.7 | P/P | 40 - 150 |
| 2397862 | Imidacloprid | 125 | 122 | P/P | 40 - 150 |
| 2397862 | Linuron | 73.7 | 73.5 | P/P | 40 - 150 |
| 2397862 | Mandestrobin | 90.8 | 89.1 | P/P | 40 - 150 |
| 2397862 | MCPP | 106 | 103 | P/P | 40 - 150 |
| 2397862 | Naproxen | 89.1 | 83.6 | P/P | 40 - 150 |
| 2397862 | Primidone | 110 | 96.5 | P/P | 40 - 150 |
| 2397862 | Pyraclostrobin | 88.3 | 80.2 | P/P | 40 - 150 |
| 2397862 | Silvex | 128 | 132 | P/P | 40 - 150 |
| 2397862 | Thiamethoxam | 126 | 109 | P/P | 40 - 150 |
| 2397862 | Tolfenpyrad | 60.4 | 56.5 | P/P | 30 - 150 |
| 2397862 | Triclopyr | 114 | 113 | P/P | 40 - 150 |

**Reference Method: EPA 8321B**
**Batch ID: P428069**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397861 | 3-Hydroxycarbofuran | 84.5 | 84.9 | P/P | 40 - 150 |
| 2397861 | Aldicarb | 54.4 | 51.4 | P/P | 30 - 150 |
| 2397861 | Aldicarb Sulfone | 93.3 | 96.0 | P/P | 40 - 150 |
| 2397861 | Aldicarb Sulfoxide | 35.9 | 36.1 | F/F | 40 - 150 |
| 2397861 | Carbaryl | 57.9 | 67.7 | P/P | 40 - 150 |
| 2397861 | Carbofuran | 55.9 | 51.5 | P/P | 40 - 150 |
| 2397861 | Methiocarb | 67.5 | 66.8 | P/P | 40 - 150 |
| 2397861 | Methomyl | 78.9 | 79.6 | P/P | 40 - 150 |
| 2397861 | Oxamyl | 99.3 | 100 | P/P | 40 - 150 |
| 2397861 | Propoxur | 50.4 | 48.3 | P/P | 40 - 150 |

# Quality Assurance Report
# Matrix Spike Accuracy

**Reference Method: SM 4500-F- C-2011**
**Batch ID: P428418**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398286 | Fluoride | 102 | 101 | P/P | 94 - 104 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P428239**

| Spiked Sample | Component | % Rec.1 | % Rec.2 | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398206 | Organic Carbon | 95.8 | 96.7 | P/P | 85 - 115 |

# Quality Assurance Report
# Precision

**Reference Method: DEP SOP: NU-094-1**
**Batch ID: P428075**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398202 | Color (true) | 5.29 | Sample | P | 0 - 20 |

**Reference Method: EPA 180.1 Rev. 2.0**
**Batch ID: P428085**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398167 | Turbidity | 3.83 | Sample | P | 0 - 20 |

**Reference Method: EPA 200.7 Rev. 4.4**
**Batch ID: P428155**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397923 | Calcium | 0.298 | Spike | P | 0 - 20 |
| 2397923 | Iron | 0.689 | Spike | P | 0 - 20 |
| 2397923 | Magnesium | 1.15 | Spike | P | 0 - 20 |
| 2397923 | Potassium | 0.535 | Spike | P | 0 - 20 |
| 2397923 | Sodium | 0.870 | Spike | P | 0 - 20 |
| 2397923 | Strontium | 0.329 | Spike | P | 0 - 20 |
| 2397923 | Tin | 0.691 | Spike | P | 0 - 20 |
| 2397923 | Titanium | 0.416 | Spike | P | 0 - 20 |
| 2397923 | Vanadium | 0.226 | Spike | P | 0 - 20 |
| 2397923 | Zinc | 0.0301 | Spike | P | 0 - 20 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428155**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397923 | Aluminum | 0.278 | Spike | P | 0 - 20 |
| 2397923 | Antimony | 0.856 | Spike | P | 0 - 20 |
| 2397923 | Arsenic | 0.672 | Spike | P | 0 - 20 |
| 2397923 | Barium | 0.311 | Spike | P | 0 - 20 |
| 2397923 | Beryllium | 1.74 | Spike | P | 0 - 20 |
| 2397923 | Boron | 1.22 | Spike | P | 0 - 20 |
| 2397923 | Cadmium | 0.125 | Spike | P | 0 - 20 |
| 2397923 | Chromium | 0.188 | Spike | P | 0 - 20 |
| 2397923 | Cobalt | 0.147 | Spike | P | 0 - 20 |
| 2397923 | Copper | 0.310 | Spike | P | 0 - 20 |
| 2397923 | Lead | 0.955 | Spike | P | 0 - 20 |
| 2397923 | Manganese | 0.908 | Spike | P | 0 - 20 |
| 2397923 | Molybdenum | 0.157 | Spike | P | 0 - 20 |
| 2397923 | Nickel | 0.297 | Spike | P | 0 - 20 |
| 2397923 | Selenium | 0.241 | Spike | P | 0 - 20 |
| 2397923 | Silver | 0.266 | Spike | P | 0 - 20 |
| 2397923 | Thallium | 2.31 | Spike | P | 0 - 20 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 200.8 Rev. 5.4**
**Batch ID: P428369**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2399397 | Silver | 0.924 | Spike | P | 0 - 20 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Batch ID: P428565**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398168 | Sulfate | 0.192 | Sample | P | 0 - 20 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Batch ID: P428122**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398169 | Ammonia-N | 2.42 | Spike | P | 0 - 20 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Batch ID: P428321**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398292 | Kjeldahl Nitrogen | 3.50 | Spike | P | 0 - 20 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Batch ID: P428182**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398207 | NO2NO3-N | 0.487 | Spike | P | 0 - 20 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428176**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398146 | Total-P | 1.18 | Spike | P | 0 - 20 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Batch ID: P428177**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398290 | Total-P | 0.0 | Spike | P | 0 - 20 |

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398233 | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 45.8 | Spike | F | 0 - 37 |
| 2398233 | Acetochlor | 3.20 | Spike | P | 0 - 28 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398233 | Alachlor | 0.786 | Spike | P | 0 - 30 |
| 2398233 | Ametryn | 19.3 | Spike | P | 0 - 32 |
| 2398233 | Atrazine | 12.1 | Spike | P | 0 - 41 |
| 2398233 | Atrazine Desethyl | 19.6 | Spike | P | 0 - 36 |
| 2398233 | Avobenzone | 13.7 | Spike | P | 0 - 36 |
| 2398233 | Azinphos Methyl | 5.41 | Spike | P | 0 - 75 |
| 2398233 | Azoxystrobin | 5.78 | Spike | P | 0 - 39 |
| 2398233 | Bromacil | 26.8 | Spike | P | 0 - 33 |
| 2398233 | Butylate | 4.12 | Spike | P | 0 - 44 |
| 2398233 | Caffeine | 4.14 | Spike | P | 0 - 74 |
| 2398233 | Carbophenothion | 5.33 | Spike | P | 0 - 25 |
| 2398233 | Carfentrazone Ethyl | 3.37 | Spike | P | 0 - 27 |
| 2398233 | Chlorfenapyr | 8.45 | Spike | P | 0 - 24 |
| 2398233 | Chlorpyrifos Ethyl | 1.90 | Spike | P | 0 - 26 |
| 2398233 | Chlorpyrifos Methyl | 11.5 | Spike | P | 0 - 26 |
| 2398233 | Coumaphos | 3.94 | Spike | P | 0 - 28 |
| 2398233 | Cyanazine | 20.8 | Spike | P | 0 - 48 |
| 2398233 | Cyprodinil | 9.17 | Spike | P | 0 - 29 |
| 2398233 | Dechlorane 602 | 5.06 | Spike | P | 0 - 30 |
| 2398233 | Dechlorane 603 | 17.6 | Spike | P | 0 - 30 |
| 2398233 | Dechlorane Plus | 61.2 | Spike | F | 0 - 30 |
| 2398233 | Demeton | 8.94 | Spike | P | 0 - 33 |
| 2398233 | Diazinon | 6.13 | Spike | P | 0 - 29 |
| 2398233 | Difenoconazole | 22.7 | Spike | P | 0 - 34 |
| 2398233 | Dimethenamid | 9.30 | Spike | P | 0 - 39 |
| 2398233 | Dimethomorph | 32.1 | Spike | P | 0 - 51 |
| 2398233 | Disulfoton | 9.77 | Spike | P | 0 - 30 |
| 2398233 | Dithiopyr | 8.75 | Spike | P | 0 - 26 |
| 2398233 | EPTC | 18.8 | Spike | P | 0 - 43 |
| 2398233 | Ethion | 14.8 | Spike | P | 0 - 79 |
| 2398233 | Ethoprop | 12.7 | Spike | P | 0 - 29 |
| 2398233 | Etridiazole | 25.9 | Spike | P | 0 - 33 |
| 2398233 | Fenamiphos | 2.07 | Spike | P | 0 - 40 |
| 2398233 | Fenbuconazole | 24.4 | Spike | P | 0 - 74 |
| 2398233 | Fipronil | 26.1 | Spike | P | 0 - 29 |
| 2398233 | Fipronil Desulfinyl | 31.3 | Spike | P | 0 - 32 |
| 2398233 | Fipronil Sulfide | 15.3 | Spike | P | 0 - 30 |
| 2398233 | Fipronil Sulfone | 12.0 | Spike | P | 0 - 33 |
| 2398233 | Fluazifop-P-butyl | 13.1 | Spike | P | 0 - 38 |
| 2398233 | Fludioxonil | 4.03 | Spike | P | 0 - 29 |
| 2398233 | Flumioxazin | 5.62 | Spike | P | 0 - 51 |
| 2398233 | Flutolanil | 11.5 | Spike | P | 0 - 25 |
| 2398233 | Fluxapyroxad | 24.9 | Spike | P | 0 - 45 |
| 2398233 | Fonofos | 21.1 | Spike | P | 0 - 27 |
| 2398233 | Hexabromobenzene | 8.41 | Spike | P | 0 - 30 |
| 2398233 | Hexazinone | 16.5 | Spike | P | 0 - 30 |
| 2398233 | Imazalil | 7.93 | Spike | P | 0 - 100 |
| 2398233 | Iprodione | 1.01 | Spike | P | 0 - 33 |
| 2398233 | Loratadine | 35.3 | Spike | P | 0 - 56 |
| 2398233 | Malathion | 5.47 | Spike | P | 0 - 37 |
| 2398233 | Metalaxyl | 2.61 | Spike | P | 0 - 40 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 8270E**
**Batch ID: P427986**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398233 | Metolachlor | 9.64 | Spike | P | 0 - 29 |
| 2398233 | Metribuzin | 15.0 | Spike | P | 0 - 45 |
| 2398233 | Mevinphos | 25.3 | Spike | P | 0 - 29 |
| 2398233 | Molinate | 6.17 | Spike | P | 0 - 33 |
| 2398233 | Myclobutanil | 25.5 | Spike | P | 0 - 26 |
| 2398233 | Naled | 8.03 | Spike | P | 0 - 37 |
| 2398233 | Napropamide | 11.8 | Spike | P | 0 - 44 |
| 2398233 | Norflurazon | 24.2 | Spike | P | 0 - 30 |
| 2398233 | Octinoxate | 19.6 | Spike | P | 0 - 45 |
| 2398233 | Oxadiazon | 21.6 | Spike | P | 0 - 28 |
| 2398233 | Oxybenzone | 19.5 | Spike | P | 0 - 46 |
| 2398233 | Oxyfluorfen | 19.4 | Spike | P | 0 - 28 |
| 2398233 | Parathion Ethyl | 20.1 | Spike | P | 0 - 31 |
| 2398233 | Parathion Methyl | 20.0 | Spike | P | 0 - 29 |
| 2398233 | PBB-153 | 24.8 | Spike | P | 0 - 30 |
| 2398233 | PBDE-47 | 11.1 | Spike | P | 0 - 36 |
| 2398233 | PBDE-99 | 3.76 | Spike | P | 0 - 40 |
| 2398233 | Pendimethalin | 14.5 | Spike | P | 0 - 33 |
| 2398233 | Pentabromotoluene | 1.45 | Spike | P | 0 - 30 |
| 2398233 | Phenytoin | 5.82 | Spike | P | 0 - 100 |
| 2398233 | Phorate | 16.2 | Spike | P | 0 - 36 |
| 2398233 | Prodiamine | 2.54 | Spike | P | 0 - 71 |
| 2398233 | Prometon | 4.52 | Spike | P | 0 - 36 |
| 2398233 | Prometryn | 26.6 | Spike | P | 0 - 28 |
| 2398233 | Pronamide | 0.149 | Spike | P | 0 - 24 |
| 2398233 | Propanil | 11.4 | Spike | P | 0 - 28 |
| 2398233 | Propargite | 4.69 | Spike | P | 0 - 43 |
| 2398233 | Propiconazole | 10.1 | Spike | P | 0 - 33 |
| 2398233 | Pyraflufen Ethyl | 0.398 | Spike | P | 0 - 29 |
| 2398233 | Pyridaben | 2.81 | Spike | P | 0 - 30 |
| 2398233 | Pyriproxyfen | 10.1 | Spike | P | 0 - 79 |
| 2398233 | Simazine | 7.23 | Spike | P | 0 - 29 |
| 2398233 | Stirophos | 8.04 | Spike | P | 0 - 61 |
| 2398233 | Sulfentrazone | 12.9 | Spike | P | 0 - 33 |
| 2398233 | Tebuconazole | 6.41 | Spike | P | 0 - 69 |
| 2398233 | Terbufos | 0.0959 | Spike | P | 0 - 29 |
| 2398233 | Terbuthylazine | 2.95 | Spike | P | 0 - 32 |
| 2398233 | Tetradecachloro-m-terphenyl | 46.0 | Spike | F | 0 - 30 |
| 2398233 | Thiobencarb | 18.8 | Spike | P | 0 - 26 |
| 2398233 | Tri-o-cresyl Phosphate | 6.09 | Spike | P | 0 - 33 |
| 2398233 | Triadimefon | 13.3 | Spike | P | 0 - 28 |
| 2398233 | Tris(1-chloro-2-propyl) phosphate (TCPP) | 13.0 | Spike | P | 0 - 30 |
| 2398233 | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 20.8 | Spike | P | 0 - 30 |
| 2398233 | Tris(2-chloroethyl) phosphate (TCEP) | 1.90 | Spike | P | 0 - 30 |

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397780 | Aldrin | 4.47 | Spike | P | 0 - 41 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 8270E**
**Batch ID: P428223**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397780 | Alpha-BHC | 12.0 | Spike | P | 0 - 25 |
| 2397780 | Alpha-Chlordane | 5.34 | Spike | P | 0 - 33 |
| 2397780 | Beta-BHC | 14.2 | Spike | P | 0 - 36 |
| 2397780 | Beta-Cyfluthrin | 12.0 | Spike | P | 0 - 42 |
| 2397780 | Bifenthrin | 8.42 | Spike | P | 0 - 53 |
| 2397780 | Chlorothalonil | 11.1 | Spike | P | 0 - 71 |
| 2397780 | Cis-Nonachlor | 5.94 | Spike | P | 0 - 29 |
| 2397780 | Cypermethrin | 7.92 | Spike | P | 0 - 40 |
| 2397780 | Dacthal | 6.35 | Spike | P | 0 - 26 |
| 2397780 | DDD-p,p' | 13.6 | Spike | P | 0 - 39 |
| 2397780 | DDE-p,p' | 11.6 | Spike | P | 0 - 33 |
| 2397780 | DDT-p,p' | 7.20 | Spike | P | 0 - 40 |
| 2397780 | Delta-BHC | 10.3 | Spike | P | 0 - 37 |
| 2397780 | Deltamethrin | 12.3 | Spike | P | 0 - 100 |
| 2397780 | Dichlobenil | 6.87 | Spike | P | 0 - 40 |
| 2397780 | Dicofol | 9.45 | Spike | P | 0 - 31 |
| 2397780 | Dieldrin | 12.0 | Spike | P | 0 - 27 |
| 2397780 | Endosulfan I | 8.33 | Spike | P | 0 - 23 |
| 2397780 | Endosulfan II | 8.90 | Spike | P | 0 - 28 |
| 2397780 | Endosulfan Sulfate | 20.5 | Spike | P | 0 - 38 |
| 2397780 | Endrin | 6.21 | Spike | P | 0 - 63 |
| 2397780 | Endrin Aldehyde | 13.1 | Spike | P | 0 - 60 |
| 2397780 | Endrin Ketone | 19.7 | Spike | P | 0 - 37 |
| 2397780 | Esfenvalerate | 12.9 | Spike | P | 0 - 52 |
| 2397780 | Ethalfluralin | 13.9 | Spike | P | 0 - 23 |
| 2397780 | Fenpropathrin | 17.0 | Spike | P | 0 - 32 |
| 2397780 | Gamma-BHC | 6.00 | Spike | P | 0 - 17 |
| 2397780 | Gamma-Chlordane | 4.43 | Spike | P | 0 - 40 |
| 2397780 | Heptachlor | 5.17 | Spike | P | 0 - 29 |
| 2397780 | Heptachlor Epoxide | 7.34 | Spike | P | 0 - 25 |
| 2397780 | Hexachlorobenzene | 6.31 | Spike | P | 0 - 36 |
| 2397780 | Kepone | 7.78 | Spike | P | 0 - 93 |
| 2397780 | Lambda-Cyhalothrin | 1.07 | Spike | P | 0 - 55 |
| 2397780 | Methoprene | 20.1 | Spike | P | 0 - 53 |
| 2397780 | Methoxychlor | 10.3 | Spike | P | 0 - 29 |
| 2397780 | MGK-264 | 5.86 | Spike | P | 0 - 35 |
| 2397780 | Mirex | 6.85 | Spike | P | 0 - 46 |
| 2397780 | Oxychlordane | 28.0 | Spike | P | 0 - 29 |
| 2397780 | Permethrin | 10.2 | Spike | P | 0 - 44 |
| 2397780 | Phenothrin | 1.58 | Spike | P | 0 - 56 |
| 2397780 | Piperonyl Butoxide | 7.43 | Spike | P | 0 - 100 |
| 2397780 | Prallethrin | 12.3 | Spike | P | 0 - 42 |
| 2397780 | Tau-Fluvalinate | 17.2 | Spike | P | 0 - 54 |
| 2397780 | Tetramethrin | 11.6 | Spike | P | 0 - 51 |
| 2397780 | Trans-Nonachlor | 1.18 | Spike | P | 0 - 37 |
| 2397780 | Triclosan Methyl | 3.22 | Spike | P | 0 - 31 |
| 2397780 | Trifluralin | 10.9 | Spike | P | 0 - 30 |
| 2398276 | PCB-1016 | 5.03 | Spike | P | 0 - 32 |
| 2398276 | PCB-1260 | 1.39 | Spike | P | 0 - 31 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 8276**
**Batch ID: P428223**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398276 | Chlordane | 4.49 | Spike | P | 0 - 25 |
| 2398276 | Toxaphene | 0.385 | Spike | P | 0 - 26 |

**Reference Method: EPA 8321B**
**Batch ID: P427991**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397529 | Acesulfame K | 11.1 | Spike | P | 0 - 30 |
| 2397529 | AMPA | 9.25 | Spike | P | 0 - 30 |
| 2397529 | Endothall | 9.94 | Spike | P | 0 - 30 |
| 2397529 | Glufosinate | 10.3 | Spike | P | 0 - 30 |
| 2397529 | Glyphosate | 2.93 | Spike | P | 0 - 30 |
| 2397529 | Sucralose | 5.37 | Spike | P | 0 - 30 |

**Reference Method: EPA 8321B**
**Batch ID: P428068**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397862 | 2,4-D | 2.13 | Spike | P | 0 - 30 |
| 2397862 | 2,4,5-T | 7.01 | Spike | P | 0 - 30 |
| 2397862 | Acetaminophen | 3.10 | Spike | P | 0 - 30 |
| 2397862 | Acetamiprid | 25.0 | Spike | P | 0 - 30 |
| 2397862 | Afidopyropen | 12.6 | Spike | P | 0 - 30 |
| 2397862 | Benzovindiflupyr | 3.33 | Spike | P | 0 - 30 |
| 2397862 | Carbamazepine | 8.81 | Spike | P | 0 - 30 |
| 2397862 | Clothianidin | 5.88 | Spike | P | 0 - 30 |
| 2397862 | Dinotefuran | 25.1 | Spike | P | 0 - 30 |
| 2397862 | Diuron | 3.75 | Spike | P | 0 - 30 |
| 2397862 | Fenuron | 14.9 | Spike | P | 0 - 30 |
| 2397862 | Fluridone | 5.36 | Spike | P | 0 - 30 |
| 2397862 | Hydrocodone | 7.69 | Spike | P | 0 - 30 |
| 2397862 | Ibuprofen | 22.3 | Spike | P | 0 - 30 |
| 2397862 | Imazapyr | 2.75 | Spike | P | 0 - 30 |
| 2397862 | Imidacloprid | 2.25 | Spike | P | 0 - 30 |
| 2397862 | Linuron | 0.306 | Spike | P | 0 - 30 |
| 2397862 | Mandestrobin | 1.88 | Spike | P | 0 - 30 |
| 2397862 | MCPP | 2.70 | Spike | P | 0 - 30 |
| 2397862 | Naproxen | 6.38 | Spike | P | 0 - 30 |
| 2397862 | Primidone | 12.3 | Spike | P | 0 - 30 |
| 2397862 | Pyraclostrobin | 9.55 | Spike | P | 0 - 30 |
| 2397862 | Silvex | 3.52 | Spike | P | 0 - 30 |
| 2397862 | Thiamethoxam | 14.1 | Spike | P | 0 - 30 |
| 2397862 | Tolfenpyrad | 6.64 | Spike | P | 0 - 30 |
| 2397862 | Triclopyr | 1.40 | Spike | P | 0 - 30 |

# Quality Assurance Report
# Precision

**Reference Method: EPA 8321B**
**Batch ID: P428069**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397861 | 3-Hydroxycarbofuran | 0.457 | Spike | P | 0 - 30 |
| 2397861 | Aldicarb | 5.58 | Spike | P | 0 - 30 |
| 2397861 | Aldicarb Sulfone | 2.88 | Spike | P | 0 - 30 |
| 2397861 | Aldicarb Sulfoxide | 0.623 | Spike | P | 0 - 30 |
| 2397861 | Carbaryl | 15.5 | Spike | P | 0 - 30 |
| 2397861 | Carbofuran | 8.23 | Spike | P | 0 - 30 |
| 2397861 | Methiocarb | 1.11 | Spike | P | 0 - 30 |
| 2397861 | Methomyl | 0.957 | Spike | P | 0 - 30 |
| 2397861 | Oxamyl | 1.07 | Spike | P | 0 - 30 |
| 2397861 | Propoxur | 4.29 | Spike | P | 0 - 30 |

**Reference Method: SM 2320 B-2011**
**Batch ID: P428260**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398286 | Total Alkalinity | 1.08 | Sample | P | 0 - 3.8 |

**Reference Method: SM 2540 C-2015**
**Batch ID: P428426**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2397427 | TDS | 6.45 | Sample | P | 0 - 10 |

**Reference Method: SM 4500-F- C-2011**
**Batch ID: P428418**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398286 | Fluoride | 1.05 | Spike | P | 0 - 1.6 |

**Reference Method: SM 5310 B-2011**
**Batch ID: P428239**

| Replicated Lab Sample | Component | % RSD/RPD | Sample/Spike/LCS* | Pass/Fail | Control Limits |
|---|---|---|---|---|---|
| 2398206 | Organic Carbon | 0.880 | Spike | P | 0 - 20 |

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

# Quality Assurance Report
# Surrogates

**Lab Sample ID: 2398226**
**Field Sample ID: G3SD0221**

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|---|---|---|---|---|
| EPA 8321B | Carbaryl-d7 | 38.9 | P | 30 - 160 |

**Lab Sample ID: 2398227**
**Field Sample ID: G3SD0221**

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|---|---|---|---|---|
| EPA 8321B | 2,4-D-d3 | 99.4 | P | 30 - 160 |
| EPA 8321B | Acetaminophen-d4 | 98.5 | P | 30 - 160 |
| EPA 8321B | Carbamazepine-d10 | 59.6 | P | 30 - 160 |
| EPA 8321B | Diuron-d6 | 45.8 | P | 30 - 160 |
| EPA 8321B | Endothall-d6 | 96.6 | P | 30 - 160 |
| EPA 8321B | Glyphosate 13C 15N | 102 | P | 30 - 160 |
| EPA 8321B | Ibuprofen-d3 | 73.7 | P | 30 - 160 |
| EPA 8321B | Primidone-d5 | 101 | P | 30 - 160 |
| EPA 8321B | Sucralose-d6 | 86.5 | P | 30 - 160 |

**Lab Sample ID: 2398233**
**Field Sample ID: G3SD0088**

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|---|---|---|---|---|
| EPA 8270E | Caffeine-d9 | 52.7 | P | 20 - 200 |
| EPA 8270E | Simazine-d10 | 87.0 | P | 62 - 142 |
| EPA 8270E | Terbufos-d10 | 81.6 | P | 58 - 132 |
| EPA 8270E | Terphenyl-d14 | 91.7 | P | 52 - 137 |

**Lab Sample ID: 2398234**
**Field Sample ID: G3SD0221**

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|---|---|---|---|---|
| EPA 8270E | Decachlorobiphenyl | 86.0 | P | 29 - 130 |
| EPA 8270E | Decachlorobiphenyl | 81.8 | P | 30 - 118 |
| EPA 8270E | Tetrachloro-m-xylene | 44.8 | P | 29 - 104 |
| EPA 8270E | Tetrachloro-m-xylene | 64.3 | P | 30 - 97.0 |
| EPA 8276 | Decachlorobiphenyl | 65.1 | P | 30 - 101 |
| EPA 8276 | PCNB | 87.0 | P | 48 - 121 |

**Lab Sample ID: 2398235**
**Field Sample ID: G3SD0221**

| Reference Method | Surrogate | % Rec. | Pass/Fail | Control Limits |
|---|---|---|---|---|
| EPA 8270E | Caffeine-d9 | 55.7 | P | 20 - 200 |
| EPA 8270E | Simazine-d10 | 82.0 | P | 62 - 142 |
| EPA 8270E | Terbufos-d10 | 82.6 | P | 58 - 132 |
| EPA 8270E | Terphenyl-d14 | 75.3 | P | 52 - 137 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: DEP SOP: NU-094-1**
**Run ID: A118392**
**Included Lab Sample IDs: 2398184, 2398212**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Color (true) | 101 | 101 | P/P | 90 - 110 |

**Reference Method: EPA 180.1 Rev. 2.0**
**Run ID: A118394**
**Included Lab Sample IDs: 2398184, 2398212**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Turbidity | 100 | 99.5 | P/P | 95 - 105 |

**Reference Method: EPA 350.1 Rev. 2.0**
**Run ID: A118408**
**Included Lab Sample IDs: 2398187, 2398213**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Ammonia-N | 99.1 | 98.1 | P/P | 90 - 110 |

**Reference Method: EPA 353.2 Rev. 2.0**
**Run ID: A118442**
**Included Lab Sample IDs: 2398187, 2398213**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| NO2NO3-N | 104 | 104 | P/P | 90 - 110 |

**Reference Method: EPA 200.8 Rev. 5.4**
**Run ID: A118460**
**Included Lab Sample IDs: 2398196, 2398241**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Aluminum | 101 | 103 | P/P | 90 - 110 |
| Aluminum | 101 | 101 | P/P | 90 - 110 |
| Antimony | 102 | 103 | P/P | 90 - 110 |
| Antimony | 104 | 102 | P/P | 90 - 110 |
| Arsenic | 97.8 | 97.2 | P/P | 90 - 110 |
| Arsenic | 99.4 | 97.8 | P/P | 90 - 110 |
| Barium | 98.9 | 100 | P/P | 90 - 110 |
| Barium | 99.8 | 98.9 | P/P | 90 - 110 |
| Beryllium | 96.0 | 94.8 | P/P | 90 - 110 |
| Beryllium | 97.7 | 96.0 | P/P | 90 - 110 |
| Boron | 102 | 99.9 | P/P | 90 - 110 |
| Boron | 99.0 | 102 | P/P | 90 - 110 |
| Cadmium | 100 | 99.9 | P/P | 90 - 110 |
| Cadmium | 99.9 | 100 | P/P | 90 - 110 |
| Chromium | 95.4 | 95.2 | P/P | 90 - 110 |
| Chromium | 97.3 | 95.4 | P/P | 90 - 110 |
| Cobalt | 95.8 | 96.9 | P/P | 90 - 110 |
| Cobalt | 98.1 | 95.8 | P/P | 90 - 110 |
| Copper | 93.8 | 95.7 | P/P | 90 - 110 |
| Copper | 96.3 | 93.8 | P/P | 90 - 110 |
| Lead | 101 | 101 | P/P | 90 - 110 |
| Lead | 101 | 102 | P/P | 90 - 110 |
| Manganese | 98.5 | 97.2 | P/P | 90 - 110 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 200.8 Rev. 5.4**
**Run ID: A118460**
**Included Lab Sample IDs: 2398196, 2398241**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Manganese | 99.2 | 98.5 | P/P | 90 - 110 |
| Molybdenum | 97.7 | 98.5 | P/P | 90 - 110 |
| Molybdenum | 98.4 | 97.7 | P/P | 90 - 110 |
| Nickel | 94.8 | 95.6 | P/P | 90 - 110 |
| Nickel | 97.1 | 94.8 | P/P | 90 - 110 |
| Selenium | 101 | 98.8 | P/P | 90 - 110 |
| Selenium | 98.8 | 98.5 | P/P | 90 - 110 |
| Silver | 101 | 102 | P/P | 90 - 110 |
| Thallium | 103 | 103 | P/P | 90 - 110 |
| Thallium | 103 | 103 | P/P | 90 - 110 |

**Reference Method: SM 2320 B-2011**
**Run ID: A118466**
**Included Lab Sample IDs: 2398184, 2398212**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Total Alkalinity | 95.6 | 94.4 | P/P | 90 - 110 |

**Reference Method: SM 5310 B-2011**
**Run ID: A118467**
**Included Lab Sample IDs: 2398187, 2398213**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Organic Carbon | 99.7 | 100 | P/P | 90 - 110 |

**Reference Method: EPA 8321B**
**Run ID: A118472**
**Included Lab Sample IDs: 2398227**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Acesulfame K | 91.1 | 91.0 | P/P | 60 - 160 |
| Sucralose | 91.2 | 123 | P/P | 60 - 160 |

**Reference Method: EPA 365.1 Rev. 2.0**
**Run ID: A118473**
**Included Lab Sample IDs: 2398187, 2398213**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Total-P | 97.6 | 98.4 | P/P | 90 - 110 |
| Total-P | 98.4 | 99.8 | P/P | 90 - 110 |

**Reference Method: EPA 8270E**
**Run ID: A118480**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 94.7 | | P | 80 - 120 |
| Avobenzone | 90.3 | | P | 80 - 120 |
| Dechlorane 602 | 99.0 | | P | 80 - 120 |
| Dechlorane 603 | 98.5 | | P | 80 - 120 |
| Dechlorane Plus | 77.0* | | F | 80 - 120 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 8270E**
**Run ID: A118480**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Hexabromobenzene | 99.2 | | P | 80 - 120 |
| Octinoxate | 90.3 | | P | 80 - 120 |
| Oxybenzone | 89.1 | | P | 80 - 120 |
| PBB-153 | 95.8 | | P | 80 - 120 |
| PBDE-47 | 88.6 | | P | 80 - 120 |
| PBDE-99 | 96.0 | | P | 80 - 120 |
| Pentabromotoluene | 99.5 | | P | 80 - 120 |
| Tetradecachloro-m-terphenyl | 90.4 | | P | 80 - 120 |
| Tri-o-cresyl Phosphate | 93.7 | | P | 80 - 120 |
| Tris(1-chloro-2-propyl) phosphate (TCPP) | 86.2 | | P | 80 - 120 |
| Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 90.3 | | P | 80 - 120 |
| Tris(2-chloroethyl) phosphate (TCEP) | 96.0 | | P | 80 - 120 |

**Reference Method: EPA 8321B**
**Run ID: A118491**
**Included Lab Sample IDs: 2398227**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| 2,4-D | 82.2 | 94.3 | P/P | 50 - 150 |
| 2,4,5-T | 83.9 | 93.0 | P/P | 50 - 150 |
| Acetaminophen | 99.0 | 98.8 | P/P | 60 - 160 |
| Acetamiprid | 102 | 104 | P/P | 50 - 150 |
| Afidopyropen | 109 | 86.3 | P/P | 50 - 150 |
| Bentazon | 125 | 124 | P/P | 50 - 160 |
| Benzovindiflupyr | 97.5 | 90.0 | P/P | 50 - 150 |
| Carbamazepine | 104 | 104 | P/P | 60 - 150 |
| Clothianidin | 95.3 | 102 | P/P | 60 - 150 |
| Dinotefuran | 128 | 130 | P/P | 50 - 150 |
| Diuron | 102 | 115 | P/P | 60 - 160 |
| Fenuron | 98.6 | 104 | P/P | 60 - 150 |
| Fluridone | 112 | 106 | P/P | 60 - 160 |
| Hydrocodone | 139 | 148 | P/P | 60 - 150 |
| Ibuprofen | 116 | 78.3 | P/P | 50 - 160 |
| Imazapyr | 122 | 111 | P/P | 50 - 150 |
| Imidacloprid | 93.5 | 95.6 | P/P | 60 - 150 |
| Linuron | 98.2 | 101 | P/P | 60 - 150 |
| Mandestrobin | 102 | 101 | P/P | 50 - 150 |
| MCPP | 92.6 | 88.2 | P/P | 50 - 150 |
| Naproxen | 117 | 107 | P/P | 50 - 160 |
| Primidone | 108 | 101 | P/P | 60 - 150 |
| Pyraclostrobin | 96.5 | 97.4 | P/P | 60 - 150 |
| Silvex | 90.8 | 78.4 | P/P | 50 - 150 |
| Thiamethoxam | 130 | 116 | P/P | 50 - 150 |
| Tolfenpyrad | 90.1 | 93.9 | P/P | 60 - 150 |
| Triclopyr | 88.6 | 90.6 | P/P | 50 - 150 |

**Reference Method: EPA 8321B**
**Run ID: A118496**
**Included Lab Sample IDs: 2398226**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 8321B**
**Run ID: A118496**
**Included Lab Sample IDs: 2398226**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| 3-Hydroxycarbofuran | 106 | 107 | P/P | 60 - 150 |
| Aldicarb | 107 | 105 | P/P | 60 - 150 |
| Aldicarb Sulfone | 106 | 117 | P/P | 50 - 150 |
| Aldicarb Sulfoxide | 111 | 118 | P/P | 50 - 150 |
| Carbaryl | 111 | 118 | P/P | 60 - 150 |
| Carbofuran | 99.8 | 103 | P/P | 50 - 150 |
| Methiocarb | 99.9 | 92.1 | P/P | 50 - 150 |
| Methomyl | 115 | 128 | P/P | 50 - 150 |
| Oxamyl | 127 | 127 | P/P | 50 - 150 |
| Propoxur | 103 | 104 | P/P | 50 - 150 |

**Reference Method: EPA 8321B**
**Run ID: A118497**
**Included Lab Sample IDs: 2398227**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| AMPA | 108 | 103 | P/P | 60 - 160 |
| Endothall | 105 | 99.2 | P/P | 60 - 160 |
| Glufosinate | 98.8 | 108 | P/P | 60 - 160 |
| Glyphosate | 116 | 110 | P/P | 60 - 160 |

**Reference Method: EPA 8270E**
**Run ID: A118543**
**Included Lab Sample IDs: 2398234**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| PCB-1016 | 102 | | P | 80 - 120 |
| PCB-1260 | 94.1 | | P | 80 - 120 |

**Reference Method: SM 4500-F- C-2011**
**Run ID: A118544**
**Included Lab Sample IDs: 2398184, 2398212**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Fluoride | 98.6 | 99.5 | P/P | 90 - 110 |

**Reference Method: EPA 8270E**
**Run ID: A118549**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Acetochlor | 96.8 | | P | 80 - 120 |
| Alachlor | 91.2 | | P | 80 - 120 |
| Ametryn | 102 | | P | 80 - 120 |
| Atrazine | 97.6 | | P | 80 - 120 |
| Atrazine Desethyl | 102 | | P | 80 - 120 |
| Azinphos Methyl | 84.5 | | P | 80 - 120 |
| Azoxystrobin | 92.9 | | P | 80 - 120 |
| Bromacil | 95.8 | | P | 80 - 120 |
| Butylate | 97.5 | | P | 80 - 120 |
| Caffeine | 99.1 | | P | 80 - 120 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 8270E**
**Run ID: A118549**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Carbophenothion | 95.7 | | P | 80 - 120 |
| Carfentrazone Ethyl | 100 | | P | 80 - 120 |
| Chlorfenapyr | 88.4 | | P | 80 - 120 |
| Chlorpyrifos Ethyl | 92.2 | | P | 80 - 120 |
| Chlorpyrifos Methyl | 92.1 | | P | 80 - 120 |
| Coumaphos | 89.8 | | P | 80 - 120 |
| Cyanazine | 94.6 | | P | 80 - 120 |
| Cyprodinil | 110 | | P | 80 - 120 |
| Demeton | 107 | | P | 80 - 120 |
| Diazinon | 94.2 | | P | 80 - 120 |
| Difenoconazole | 96.3 | | P | 80 - 120 |
| Dimethenamid | 95.9 | | P | 80 - 120 |
| Dimethomorph | 91.1 | | P | 80 - 120 |
| Disulfoton | 89.2 | | P | 80 - 120 |
| Dithiopyr | 99.0 | | P | 80 - 120 |
| EPTC | 104 | | P | 80 - 120 |
| Ethion | 94.5 | | P | 80 - 120 |
| Ethoprop | 96.0 | | P | 80 - 120 |
| Etridiazole | 100 | | P | 80 - 120 |
| Fenamiphos | 108 | | P | 80 - 120 |
| Fenbuconazole | 96.8 | | P | 80 - 120 |
| Fipronil | 97.7 | | P | 80 - 120 |
| Fipronil Desulfinyl | 106 | | P | 80 - 120 |
| Fipronil Sulfide | 96.1 | | P | 80 - 120 |
| Fipronil Sulfone | 106 | | P | 80 - 120 |
| Fluazifop-P-butyl | 104 | | P | 80 - 120 |
| Fludioxonil | 114 | | P | 80 - 120 |
| Flumioxazin | 68.3* | | F | 80 - 120 |
| Flutolanil | 107 | | P | 80 - 120 |
| Fluxapyroxad | 101 | | P | 80 - 120 |
| Fonofos | 90.3 | | P | 80 - 120 |
| Hexazinone | 97.4 | | P | 80 - 120 |
| Imazalil | 113 | | P | 80 - 120 |
| Iprodione | 88.6 | | P | 80 - 120 |
| Loratadine | 82.6 | | P | 80 - 120 |
| Malathion | 93.1 | | P | 80 - 120 |
| Metalaxyl | 97.9 | | P | 80 - 120 |
| Metolachlor | 99.4 | | P | 80 - 120 |
| Metribuzin | 104 | | P | 80 - 120 |
| Mevinphos | 107 | | P | 80 - 120 |
| Molinate | 100 | | P | 80 - 120 |
| Myclobutanil | 98.5 | | P | 80 - 120 |
| Naled | 108 | | P | 80 - 120 |
| Napropamide | 117 | | P | 80 - 120 |
| Norflurazon | 106 | | P | 80 - 120 |
| Oxadiazon | 119 | | P | 80 - 120 |
| Oxyfluorfen | 116 | | P | 80 - 120 |
| Parathion Ethyl | 99.1 | | P | 80 - 120 |
| Parathion Methyl | 109 | | P | 80 - 120 |
| Pendimethalin | 98.8 | | P | 80 - 120 |
| Phenytoin | 105 | | P | 80 - 120 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 8270E**
**Run ID: A118549**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Phorate | 102 | | P | 80 - 120 |
| Prodiamine | 112 | | P | 80 - 120 |
| Prometon | 93.1 | | P | 80 - 120 |
| Prometryn | 104 | | P | 80 - 120 |
| Pronamide | 100 | | P | 80 - 120 |
| Propanil | 89.7 | | P | 80 - 120 |
| Propargite | 95.2 | | P | 80 - 120 |
| Propiconazole | 92.2 | | P | 80 - 120 |
| Pyraflufen Ethyl | 115 | | P | 80 - 120 |
| Pyridaben | 87.5 | | P | 80 - 120 |
| Pyriproxyfen | 87.4 | | P | 80 - 120 |
| Simazine | 102 | | P | 80 - 120 |
| Stirophos | 115 | | P | 80 - 120 |
| Sulfentrazone | 94.1 | | P | 80 - 120 |
| Tebuconazole | 108 | | P | 80 - 120 |
| Terbufos | 93.9 | | P | 80 - 120 |
| Terbuthylazine | 92.8 | | P | 80 - 120 |
| Thiobencarb | 95.4 | | P | 80 - 120 |
| Triadimefon | 89.4 | | P | 80 - 120 |

**Reference Method: EPA 8270E**
**Run ID: A118551**
**Included Lab Sample IDs: 2398233, 2398235**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Atrazine | 88.0 | | P | 80 - 120 |
| Azoxystrobin | 101 | | P | 80 - 120 |
| Coumaphos | 92.4 | | P | 80 - 120 |
| Cyprodinil | 106 | | P | 80 - 120 |
| Difenoconazole | 98.1 | | P | 80 - 120 |
| Dimethenamid | 97.2 | | P | 80 - 120 |
| Ethoprop | 101 | | P | 80 - 120 |
| Fludioxonil | 100 | | P | 80 - 120 |
| Iprodione | 102 | | P | 80 - 120 |
| Malathion | 96.7 | | P | 80 - 120 |
| Parathion Methyl | 87.8 | | P | 80 - 120 |
| Pendimethalin | 98.3 | | P | 80 - 120 |
| Propiconazole | 92.2 | | P | 80 - 120 |
| Pyraflufen Ethyl | 95.5 | | P | 80 - 120 |
| Pyridaben | 101 | | P | 80 - 120 |
| Sulfentrazone | 99.6 | | P | 80 - 120 |

**Reference Method: EPA 351.2 Rev. 2.0**
**Run ID: A118554**
**Included Lab Sample IDs: 2398187, 2398213**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Kjeldahl Nitrogen | 101 | 97.1 | P/P | 90 - 110 |
| Kjeldahl Nitrogen | 92.7 | 101 | P/P | 90 - 110 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 200.8 Rev. 5.4**
**Run ID: A118564**
**Included Lab Sample IDs: 2398196**

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

**Reference Method: EPA 8270E**
**Run ID: A118595**
**Included Lab Sample IDs: 2398234**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Aldrin | 101 | | P | 80 - 120 |
| Alpha-BHC | 104 | | P | 80 - 120 |
| Alpha-Chlordane | 101 | | P | 80 - 120 |
| Beta-BHC | 102 | | P | 80 - 120 |
| Beta-Cyfluthrin | 112 | | P | 80 - 120 |
| Bifenthrin | 98.5 | | P | 80 - 120 |
| Chlorothalonil | 106 | | P | 80 - 120 |
| Cis-Nonachlor | 117 | | P | 80 - 120 |
| Cypermethrin | 95.6 | | P | 80 - 120 |
| Dacthal | 116 | | P | 80 - 120 |
| DDD-p,p' | 103 | | P | 80 - 120 |
| DDE-p,p' | 91.4 | | P | 80 - 120 |
| DDT-p,p' | 103 | | P | 80 - 120 |
| Delta-BHC | 103 | | P | 80 - 120 |
| Deltamethrin | 107 | | P | 80 - 120 |
| Dichlobenil | 118 | | P | 80 - 120 |
| Dicofol | 105 | | P | 80 - 120 |
| Dieldrin | 91.4 | | P | 80 - 120 |
| Endosulfan I | 103 | | P | 80 - 120 |
| Endosulfan II | 113 | | P | 80 - 120 |
| Endosulfan Sulfate | 107 | | P | 80 - 120 |
| Endrin | 107 | | P | 80 - 120 |
| Endrin Aldehyde | 96.2 | | P | 80 - 120 |
| Endrin Ketone | 100 | | P | 80 - 120 |
| Esfenvalerate | 99.1 | | P | 80 - 120 |
| Ethalfluralin | 94.4 | | P | 80 - 120 |
| Fenpropathrin | 106 | | P | 80 - 120 |
| Gamma-BHC | 104 | | P | 80 - 120 |
| Gamma-Chlordane | 103 | | P | 80 - 120 |
| Heptachlor | 101 | | P | 80 - 120 |
| Heptachlor Epoxide | 103 | | P | 80 - 120 |
| Hexachlorobenzene | 103 | | P | 80 - 120 |
| Kepone | 104 | | P | 80 - 120 |
| Lambda-Cyhalothrin | 106 | | P | 80 - 120 |
| Methoprene | 107 | | P | 80 - 120 |
| Methoxychlor | 106 | | P | 80 - 120 |
| MGK-264 | 96.3 | | P | 80 - 120 |
| Mirex | 106 | | P | 80 - 120 |
| Oxychlordane | 107 | | P | 80 - 120 |
| Permethrin | 111 | | P | 80 - 120 |
| Phenothrin | 108 | | P | 80 - 120 |
| Piperonyl Butoxide | 98.2 | | P | 80 - 120 |
| Prallethrin | 105 | | P | 80 - 120 |
| Tau-Fluvalinate | 102 | | P | 80 - 120 |

# Quality Assurance Report
# Calibration Verification

**Reference Method: EPA 8270E**
**Run ID: A118595**
**Included Lab Sample IDs: 2398234**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Tetramethrin | 91.5 | | P | 80 - 120 |
| Trans-Nonachlor | 116 | | P | 80 - 120 |
| Triclosan Methyl | 104 | | P | 80 - 120 |
| Trifluralin | 83.3 | | P | 80 - 120 |

**Reference Method: EPA 8276**
**Run ID: A118599**
**Included Lab Sample IDs: 2398234**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Chlordane | 96.1 | | P | 80 - 120 |
| Toxaphene | 91.2 | | P | 80 - 120 |

**Reference Method: EPA 300.0 Rev. 2.1**
**Run ID: A118603**
**Included Lab Sample IDs: 2398184, 2398212**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Sulfate | 96.8 | 97.9 | P/P | 90 - 110 |

**Reference Method: EPA 200.7 Rev. 4.4**
**Run ID: A118643**
**Included Lab Sample IDs: 2398196, 2398241**

| Component | % Rec.1 | % Rec.2 | Pass/Fail* | Control Limits |
|---|---|---|---|---|
| Calcium | 100 | 99.7 | P/P | 90 - 110 |
| Iron | 98.8 | 98.4 | P/P | 90 - 110 |
| Magnesium | 97.9 | 97.4 | P/P | 90 - 110 |
| Potassium | 98.9 | 98.8 | P/P | 90 - 110 |
| Sodium | 103 | 104 | P/P | 90 - 110 |
| Strontium | 103 | 102 | P/P | 90 - 110 |
| Tin | 100 | 99.8 | P/P | 90 - 110 |
| Titanium | 102 | 99.3 | P/P | 90 - 110 |
| Vanadium | 100 | 99.5 | P/P | 90 - 110 |
| Zinc | 102 | 99.5 | P/P | 90 - 110 |

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

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | | Precision | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | LCS | SMP | MS |
| DEP SOP: NU-094-1 | Color (true) | 103 | | | | | 5.29 | |
| EPA 180.1 Rev. 2.0 | Turbidity | 99.0 | | | | | 3.83 | |
| EPA 200.7 Rev. 4.4 | Calcium | 102 | 98.9 | 96.2 | | | | 0.298 |
| | Iron | 107 | 103 | 102 | 100 | | | 0.689 |
| | Magnesium | 99.9 | 102 | 97.5 | | | | 1.15 |
| | Potassium | 101 | 102 | 101 | 100 | | | 0.535 |
| | Sodium | 108 | 107 | 106 | 103 | | | 0.870 |
| | Strontium | 102 | 102 | 102 | 102 | | | 0.329 |
| | Tin | 100 | 99.8 | 101 | 98.3 | | | 0.691 |
| | Titanium | 103 | 105 | 105 | 103 | | | 0.416 |
| | Vanadium | 100 | 103 | 103 | 102 | | | 0.226 |
| | Zinc | 101 | 99.8 | 99.8 | 98.2 | | | 0.0301 |
| EPA 200.8 Rev. 5.4 | Aluminum | 104 | 103 | 103 | 105 | | | 0.278 |
| | Antimony | 107 | 108 | 107 | 108 | | | 0.856 |
| | Arsenic | 103 | 102 | 101 | 101 | | | 0.672 |
| | Barium | 105 | 105 | 105 | 104 | | | 0.311 |
| | Beryllium | 97.4 | 96.2 | 97.8 | 92.7 | | | 1.74 |
| | Boron | 101 | 100 | 102 | 107 | | | 1.22 |
| | Cadmium | 102 | 104 | 104 | 106 | | | 0.125 |
| | Chromium | 101 | 102 | 102 | 102 | | | 0.188 |
| | Cobalt | 103 | 102 | 102 | 100 | | | 0.147 |
| | Copper | 101 | 98.6 | 98.3 | 96.1 | | | 0.310 |
| | Lead | 103 | 104 | 105 | 105 | | | 0.955 |
| | Manganese | 99.6 | 101 | 102 | 103 | | | 0.908 |
| | Molybdenum | 101 | 102 | 103 | 103 | | | 0.157 |
| | Nickel | 103 | 99.9 | 99.6 | 98.2 | | | 0.297 |
| | Selenium | 102 | 100 | 100 | 98.6 | | | 0.241 |
| | Silver | 105 | 105 | 105 | 106 | | | 0.266 |
| | Silver | 104 | 102 | 103 | 101 | | | 0.924 |
| | Thallium | 103 | 105 | 108 | 106 | | | 2.31 |
| EPA 300.0 Rev. 2.1 | Sulfate | 97.8 | 93.3 | 96.9 | | | 0.192 | |
| EPA 350.1 Rev. 2.0 | Ammonia-N | 98.2 | 101 | 97.2 | | | | 2.42 |
| EPA 351.2 Rev. 2.0 | Kjeldahl Nitrogen | 93.6 | 101 | 96.3 | | | | 3.50 |
| EPA 353.2 Rev. 2.0 | NO2NO3-N | 104 | 103 | 102 | | | | 0.487 |
| EPA 365.1 Rev. 2.0 | Total-P | 100 | 97.2 | 98.4 | | | | 1.18 |
| | Total-P | 98.8 | 101 | 101 | | | | 0.0 |
| EPA 8270E | 2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB) | 64.3 | 47.4 | 75.6 | | | | 45.8 |
| | Acetochlor | 90.1 | 96.9 | 93.8 | | | | 3.20 |
| | Alachlor | 108 | 102 | 103 | | | | 0.786 |
| | Aldrin | 44.1 | 41.3 | 43.2 | | | | 4.47 |
| | Alpha-BHC | 96.4 | 71.2 | 80.3 | | | | 12.0 |
| | Alpha-Chlordane | 66.8 | 61.2 | 58.0 | | | | 5.34 |
| | Ametryn | 118 | 115 | 87.4 | | | | 19.3 |
| | Atrazine | 107 | | | | | | 12.1 |
| | Atrazine Desethyl | 102 | 113 | 77.8 | | | | 19.6 |
| | Avobenzone | 115 | 120 | 105 | | | | 13.7 |
| | Azinphos Methyl | 70.8 | 60.9 | 64.3 | | | | 5.41 |
| | Azoxystrobin | 103 | 107 | 101 | | | | 5.78 |
| | Beta-BHC | 79.8 | 70.0 | 80.7 | | | | 14.2 |
| | Beta-Cyfluthrin | 56.2 | 87.2 | 98.4 | | | | 12.0 |
| | Bifenthrin | 41.9 | 65.9 | 71.7 | | | | 8.42 |
| | Bromacil | 100 | 109 | 74.3 | | | | 26.8 |

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|---|---|---|---|---|---|---|---|
| | | | | | LCS | SMP | MS |
| EPA 8270E | Butylate | 74.0 | 63.6 | 61.0 | | | 4.12 |
| | Caffeine | 114 | 201 | 193 | | | 4.14 |
| | Carbophenothion | 130 | 83.8 | 79.5 | | | 5.33 |
| | Carfentrazone Ethyl | 119 | 83.8 | 81.1 | | | 3.37 |
| | Chlorfenapyr | 86.9 | 70.2 | 64.5 | | | 8.45 |
| | Chlorothalonil | 80.6 | 86.7 | 96.9 | | | 11.1 |
| | Chlorpyrifos Ethyl | 105 | 107 | 109 | | | 1.90 |
| | Chlorpyrifos Methyl | 106 | 108 | 96.2 | | | 11.5 |
| | Cis-Nonachlor | 63.8 | 44.2 | 46.9 | | | 5.94 |
| | Coumaphos | 48.4 | 117 | 122 | | | 3.94 |
| | Cyanazine | 125 | 112 | 90.8 | | | 20.8 |
| | Cypermethrin | 56.2 | 86.4 | 93.6 | | | 7.92 |
| | Cyprodinil | 94.5 | 104 | 94.8 | | | 9.17 |
| | Dacthal | 80.7 | 71.2 | 75.8 | | | 6.35 |
| | DDD-p,p' | 84.3 | 50.8 | 58.2 | | | 13.6 |
| | DDE-p,p' | 74.5 | 51.3 | 57.7 | | | 11.6 |
| | DDT-p,p' | 81.6 | 63.5 | 68.3 | | | 7.20 |
| | Dechlorane 602 | 69.8 | 71.3 | 75.0 | | | 5.06 |
| | Dechlorane 603 | 81.2 | 81.0 | 67.9 | | | 17.6 |
| | Dechlorane Plus | 94.9 | 95.4 | 50.7 | | | 61.2 |
| | Delta-BHC | 82.1 | 77.2 | 85.5 | | | 10.3 |
| | Deltamethrin | 71.5 | 109 | 123 | | | 12.3 |
| | Demeton | 97.2 | 89.7 | 98.0 | | | 8.94 |
| | Diazinon | 118 | 102 | 95.9 | | | 6.13 |
| | Dichlobenil | 70.7 | 42.2 | 45.2 | | | 6.87 |
| | Dicofol | 74.0 | 63.6 | 69.9 | | | 9.45 |
| | Dieldrin | 74.3 | 52.5 | 59.2 | | | 12.0 |
| | Difenoconazole | 80.5 | 80.8 | 102 | | | 22.7 |
| | Dimethenamid | 105 | 108 | 98.1 | | | 9.30 |
| | Dimethomorph | 145 | 146 | 106 | | | 32.1 |
| | Disulfoton | 114 | 82.5 | 74.8 | | | 9.77 |
| | Dithiopyr | 112 | 69.4 | 75.7 | | | 8.75 |
| | Endosulfan I | 77.8 | 52.6 | 57.2 | | | 8.33 |
| | Endosulfan II | 75.7 | 53.5 | 58.5 | | | 8.90 |
| | Endosulfan Sulfate | 77.8 | 55.6 | 68.2 | | | 20.5 |
| | Endrin | 78.1 | 53.9 | 57.4 | | | 6.21 |
| | Endrin Aldehyde | 62.5 | 41.1 | 46.8 | | | 13.1 |
| | Endrin Ketone | 122 | 80.9 | 98.6 | | | 19.7 |
| | EPTC | 79.5 | 44.5 | 53.8 | | | 18.8 |
| | Esfenvalerate | 52.4 | 85.5 | 97.3 | | | 12.9 |
| | Ethalfluralin | 78.0 | 58.6 | 67.4 | | | 13.9 |
| | Ethion | 92.8 | 74.2 | 63.9 | | | 14.8 |
| | Ethoprop | 76.2 | 96.1 | 84.6 | | | 12.7 |
| | Etridiazole | 86.5 | 65.4 | 50.4 | | | 25.9 |
| | Fenamiphos | 112 | 79.1 | 77.5 | | | 2.07 |
| | Fenbuconazole | 115 | 111 | 86.5 | | | 24.4 |
| | Fenpropathrin | 60.0 | 71.9 | 85.3 | | | 17.0 |
| | Fipronil | 91.9 | 83.7 | 64.3 | | | 26.1 |
| | Fipronil Desulfinyl | 117 | 117 | 85.3 | | | 31.3 |
| | Fipronil Sulfide | 95.3 | 74.1 | 63.6 | | | 15.3 |
| | Fipronil Sulfone | 99.4 | 77.6 | 68.8 | | | 12.0 |
| | Fluazifop-P-butyl | 68.1 | 64.9 | 56.9 | | | 13.1 |
| | Fludioxonil | 123 | 83.5 | 80.2 | | | 4.03 |
| | Flumioxazin | 69.4 | 74.8 | 79.1 | | | 5.62 |

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|---|---|---|---|---|---|---|---|
| | | | | | LCS | SMP | MS |
| EPA 8270E | Flutolanil | 104 | 106 | 94.8 | | | 11.5 |
| | Fluxapyroxad | 126 | 111 | 82.8 | | | 24.9 |
| | Fonofos | 109 | 68.9 | 85.2 | | | 21.1 |
| | Gamma-BHC | 115 | 76.3 | 81.0 | | | 6.00 |
| | Gamma-Chlordane | 72.5 | 58.7 | 56.2 | | | 4.43 |
| | Heptachlor | 63.5 | 51.6 | 54.3 | | | 5.17 |
| | Heptachlor Epoxide | 70.0 | 59.5 | 64.0 | | | 7.34 |
| | Hexabromobenzene | 102 | 97.3 | 106 | | | 8.41 |
| | Hexachlorobenzene | 63.8 | 50.0 | 53.3 | | | 6.31 |
| | Hexazinone | 113 | | | | | 16.5 |
| | Imazalil | 113 | 92.1 | 85.1 | | | 7.93 |
| | Iprodione | 100 | 98.6 | 99.6 | | | 1.01 |
| | Kepone | 56.2 | 78.4 | 84.8 | | | 7.78 |
| | Lambda-Cyhalothrin | 45.3 | 71.7 | 72.5 | | | 1.07 |
| | Loratadine | 76.7 | 103 | 72.0 | | | 35.3 |
| | Malathion | 118 | 125 | 119 | | | 5.47 |
| | Metalaxyl | 115 | 97.5 | 94.7 | | | 2.61 |
| | Methoprene | 36.7 | 53.5 | 65.5 | | | 20.1 |
| | Methoxychlor | 96.9 | 79.6 | 88.3 | | | 10.3 |
| | Metolachlor | 117 | 114 | 97.9 | | | 9.64 |
| | Metribuzin | 96.8 | 97.9 | 79.4 | | | 15.0 |
| | Mevinphos | 84.5 | 50.5 | 65.1 | | | 25.3 |
| | MGK-264 | 60.9 | 79.2 | 84.0 | | | 5.86 |
| | Mirex | 49.6 | 43.1 | 46.2 | | | 6.85 |
| | Molinate | 73.2 | 65.0 | 61.1 | | | 6.17 |
| | Myclobutanil | 96.7 | 94.0 | 72.7 | | | 25.5 |
| | Naled | 69.9 | 89.3 | 82.4 | | | 8.03 |
| | Napropamide | 101 | 80.2 | 90.3 | | | 11.8 |
| | Norflurazon | 84.6 | | | | | 24.2 |
| | Octinoxate | 102 | 94.9 | 78.0 | | | 19.6 |
| | Oxadiazon | 111 | 110 | 86.0 | | | 21.6 |
| | Oxybenzone | 105 | 95.3 | 78.3 | | | 19.5 |
| | Oxychlordane | 64.3 | 48.2 | 63.9 | | | 28.0 |
| | Oxyfluorfen | 133 | 107 | 87.7 | | | 19.4 |
| | Parathion Ethyl | 99.3 | 99.8 | 81.6 | | | 20.1 |
| | Parathion Methyl | 92.8 | 92.6 | 75.8 | | | 20.0 |
| | PBB-153 | 78.1 | 66.2 | 84.9 | | | 24.8 |
| | PBDE-47 | 90.5 | 84.3 | 75.4 | | | 11.1 |
| | PBDE-99 | 70.5 | 68.5 | 71.1 | | | 3.76 |
| | PCB-1016 | 59.5 | 65.4 | 62.2 | | | 5.03 |
| | PCB-1260 | 74.0 | 69.6 | 68.6 | | | 1.39 |
| | Pendimethalin | 101 | 104 | 90.1 | | | 14.5 |
| | Pentabromotoluene | 94.1 | 92.3 | 93.7 | | | 1.45 |
| | Permethrin | 50.2 | 76.1 | 84.3 | | | 10.2 |
| | Phenothrin | 39.9 | 87.8 | 89.2 | | | 1.58 |
| | Phenytoin | 58.3 | 55.3 | 52.2 | | | 5.82 |
| | Phorate | 93.6 | 62.7 | 73.8 | | | 16.2 |
| | Piperonyl Butoxide | 58.1 | 71.5 | 66.4 | | | 7.43 |
| | Prallethrin | 71.2 | 73.3 | 82.9 | | | 12.3 |
| | Prodiamine | 77.8 | 51.3 | 50.0 | | | 2.54 |
| | Prometon | 93.9 | 97.0 | 92.7 | | | 4.52 |
| | Prometryn | 127 | 110 | 84.3 | | | 26.6 |
| | Pronamide | 114 | 117 | 117 | | | 0.149 |
| | Propanil | 114 | 92.1 | 82.1 | | | 11.4 |

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|---|---|---|---|---|---|---|---|
| | | | | | LCS | SMP | MS |
| EPA 8270E | Propargite | 61.5 | 67.7 | 70.9 | | | 4.69 |
| | Propiconazole | 91.8 | 64.2 | 56.4 | | | 10.1 |
| | Pyraflufen Ethyl | 115 | 61.5 | 61.7 | | | 0.398 |
| | Pyridaben | 127 | 112 | 115 | | | 2.81 |
| | Pyriproxyfen | 49.3 | 44.4 | 49.2 | | | 10.1 |
| | Simazine | 116 | 123 | 105 | | | 7.23 |
| | Stirophos | 94.9 | 117 | 108 | | | 8.04 |
| | Sulfentrazone | 127 | 92.3 | 81.1 | | | 12.9 |
| | Tau-Fluvalinate | 42.3 | 83.8 | 99.6 | | | 17.2 |
| | Tebuconazole | 112 | 110 | 103 | | | 6.41 |
| | Terbufos | 108 | 74.9 | 74.9 | | | 0.0959 |
| | Terbuthylazine | 86.6 | 109 | 105 | | | 2.95 |
| | Tetradecachloro-m-terphenyl | 127 | 145 | 91.1 | | | 46.0 |
| | Tetramethrin | 59.8 | 90.3 | 101 | | | 11.6 |
| | Thiobencarb | 112 | 103 | 85.1 | | | 18.8 |
| | Trans-Nonachlor | 65.0 | 50.4 | 51.0 | | | 1.18 |
| | Tri-o-cresyl Phosphate | 103 | 95.5 | 89.9 | | | 6.09 |
| | Triadimefon | 97.0 | 92.8 | 81.2 | | | 13.3 |
| | Triclosan Methyl | 81.8 | 57.3 | 59.2 | | | 3.22 |
| | Trifluralin | 76.1 | 57.3 | 63.9 | | | 10.9 |
| | Tris(1-chloro-2-propyl) phosphate (TCPP) | 95.1 | 88.4 | 77.6 | | | 13.0 |
| | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) | 84.5 | 81.2 | 65.9 | | | 20.8 |
| | Tris(2-chloroethyl) phosphate (TCEP) | 96.9 | 83.6 | 82.0 | | | 1.90 |
| EPA 8276 | Chlordane | 63.9 | 68.7 | 71.8 | | | 4.49 |
| | Toxaphene | 70.2 | 77.2 | 77.5 | | | 0.385 |
| EPA 8321B | 2,4-D | 100 | 104 | 101 | | | 2.13 |
| | 2,4,5-T | 100 | 114 | 106 | | | 7.01 |
| | 3-Hydroxycarbofuran | 81.7 | 84.5 | 84.9 | | | 0.457 |
| | Acesulfame K | 96.2 | 75.7 | 67.8 | | | 11.1 |
| | Acetaminophen | 101 | 110 | 113 | | | 3.10 |
| | Acetamiprid | 85.2 | 91.9 | 71.5 | | | 25.0 |
| | Afidopyropen | 68.9 | 84.7 | 74.6 | | | 12.6 |
| | Aldicarb | 68.6 | 54.4 | 51.4 | | | 5.58 |
| | Aldicarb Sulfone | 101 | 93.3 | 96.0 | | | 2.88 |
| | Aldicarb Sulfoxide | 103 | 35.9 | 36.1 | | | 0.623 |
| | AMPA | 123 | 70.0 | 63.3 | | | 9.25 |
| | Bentazon | 97.9 | | | | | |
| | Benzovindiflupyr | 87.5 | 78.9 | 81.6 | | | 3.33 |
| | Carbamazepine | 87.9 | 77.2 | 69.8 | | | 8.81 |
| | Carbaryl | 75.3 | 57.9 | 67.7 | | | 15.5 |
| | Carbofuran | 66.6 | 55.9 | 51.5 | | | 8.23 |
| | Clothianidin | 91.5 | 106 | 99.7 | | | 5.88 |
| | Dinotefuran | 98.5 | 120 | 93.5 | | | 25.1 |
| | Diuron | 79.0 | 61.7 | 64.1 | | | 3.75 |
| | Endothall | 90.7 | 91.4 | 82.8 | | | 9.94 |
| | Fenuron | 88.8 | 67.2 | 57.9 | | | 14.9 |
| | Fluridone | 89.9 | | | | | 5.36 |
| | Glufosinate | 99.3 | 56.0 | 62.0 | | | 10.3 |
| | Glyphosate | 120 | 60.9 | 59.1 | | | 2.93 |
| | Hydrocodone | 126 | 107 | 99.1 | | | 7.69 |
| | Ibuprofen | 77.0 | 69.7 | 55.7 | | | 22.3 |

# Quality Assurance Report
# Summary

| Ref. Method | Analyte | LCS % Recovery | MS % Recovery | | Precision | | |
|---|---|---|---|---|---|---|---|
| | | | | | LCS | SMP | MS |
| EPA 8321B | Imazapyr | 106 | | | | | 2.75 |
| | Imidacloprid | 87.0 | 125 | 122 | | | 2.25 |
| | Linuron | 87.9 | 73.7 | 73.5 | | | 0.306 |
| | Mandestrobin | 91.7 | 90.8 | 89.1 | | | 1.88 |
| | MCPP | 95.2 | 106 | 103 | | | 2.70 |
| | Methiocarb | 83.2 | 67.5 | 66.8 | | | 1.11 |
| | Methomyl | 106 | 78.9 | 79.6 | | | 0.957 |
| | Naproxen | 75.4 | 89.1 | 83.6 | | | 6.38 |
| | Oxamyl | 110 | 99.3 | 100 | | | 1.07 |
| | Primidone | 97.7 | 110 | 96.5 | | | 12.3 |
| | Propoxur | 65.2 | 50.4 | 48.3 | | | 4.29 |
| | Pyraclostrobin | 86.7 | 88.3 | 80.2 | | | 9.55 |
| | Silvex | 108 | 128 | 132 | | | 3.52 |
| | Sucralose | 107 | 102 | 96.9 | | | 5.37 |
| | Thiamethoxam | 105 | 126 | 109 | | | 14.1 |
| | Tolfenpyrad | 59.7 | 60.4 | 56.5 | | | 6.64 |
| | Triclopyr | 93.8 | 114 | 113 | | | 1.40 |
| SM 2320 B-2011 | Total Alkalinity | 96.2 | | | | 1.08 | |
| SM 2540 C-2015 | TDS | 95.4 | | | | 6.45 | |
| SM 2540 D-2015 | TSS | 93.3 | | | | | |
| SM 4500-F- C-2011 | Fluoride | 99.8 | 102 | 101 | | | 1.05 |
| SM 5310 B-2011 | Organic Carbon | 97.2 | 96.7 | 95.8 | | | 0.880 |

# Reference Method Descriptions

| Method | Description | Associated Samples |
|---|---|---|
| DEP SOP: NU-094-1 | True Color measured at 450 nm (not valid for NPDES monitoring) | 2398184, 2398212 |
| EPA 180.1 Rev. 2.0 | Turbidity in aqueous matrices | 2398184, 2398212 |
| EPA 200.7 Rev. 4.4 | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects | 2398196, 2398241 |
| EPA 200.8 Rev. 5.4 | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects | 2398196, 2398241 |
| EPA 300.0 Rev. 2.1 | Sulfate in aqueous matrices | 2398184, 2398212 |
| EPA 350.1 Rev. 2.0 | Ammonia in aqueous matrices as mg N/L | 2398187, 2398213 |
| EPA 351.2 Rev. 2.0 | Total Kjeldahl Nitrogen in aqueous matrices | 2398187, 2398213 |
| EPA 353.2 Rev. 2.0 | Nitrite/Nitrate in aqueous matrices as mg N/L | 2398187, 2398213 |
| EPA 365.1 Rev. 2.0 | Total Phosphorus in aqueous matrices as mg P/L | 2398187, 2398213 |
| EPA 8270E | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM | 2398233, 2398235 |
| EPA 8270E | Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS | 2398234 |
| EPA 8270E | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS | 2398233, 2398235 |
| EPA 8270E | PCBs in water matrices by GC/MS/MS | 2398234 |
| EPA 8276 | Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization | 2398234 |
| EPA 8321B | Carbamates in water matrices by HPLC/MS/MS | 2398226 |
| EPA 8321B | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS | 2398227 |
| SM 2320 B-2011 | Alkalinity in aqueous matrices as mg CaCO3/L | 2398184, 2398212 |
| SM 2340 B-2011 | Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3 | 2398196, 2398241 |
| SM 2540 C-2015 | Total Dissolved Solids in aqueous matrices | 2398184, 2398212 |
| SM 2540 D-2015 | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample | 2398184, 2398212 |
| SM 4500-F- C-2011 | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) | 2398184, 2398212 |
| SM 5310 B-2011 | Nonpurgeable Organic Carbon in aqueous matrices | 2398187, 2398213 |

# 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 | 04/05/2023 | | | 04/05/2023 15:15 | Alexis Price | 2398184 |
| | 04/05/2023 | | | 04/05/2023 15:20 | Alexis Price | 2398212 |
| EPA 180.1 Rev. 2.0 | 04/05/2023 | | | 04/05/2023 14:01 | Khloe J Berg | 2398184 |
| | 04/05/2023 | | | 04/05/2023 14:07 | Khloe J Berg | 2398212 |
| EPA 200.7 Rev. 4.4 | 04/05/2023 | 04/06/2023 14:40 | George D Taylor | 04/18/2023 18:00 | McKinley C Carter | 2398196 |
| | 04/05/2023 | 04/06/2023 14:40 | George D Taylor | 04/18/2023 18:45 | McKinley C Carter | 2398241 |
| EPA 200.8 Rev. 5.4 | 04/05/2023 | 04/06/2023 14:40 | George D Taylor | 04/07/2023 16:48 | Emily M Philpot | 2398196 |
| | 04/05/2023 | 04/06/2023 14:40 | George D Taylor | 04/07/2023 18:17 | Emily M Philpot | 2398241 |
| | 04/05/2023 | 04/12/2023 11:15 | George D Taylor | 04/13/2023 17:28 | Conrad Hartmann | 2398196 |
| EPA 300.0 Rev. 2.1 | 04/05/2023 | | | 04/13/2023 04:30 | Anna M. Plaviak | 2398184 |
| | 04/05/2023 | | | 04/13/2023 04:46 | Anna M. Plaviak | 2398212 |
| EPA 350.1 Rev. 2.0 | 04/05/2023 | | | 04/06/2023 10:47 | Khloe J Berg | 2398187 |
| | 04/05/2023 | | | 04/06/2023 10:55 | Khloe J Berg | 2398213 |
| EPA 351.2 Rev. 2.0 | 04/05/2023 | 04/11/2023 12:42 | Dana G. Hughes | 04/13/2023 10:26 | Samantha L Bates | 2398187 |
| | 04/05/2023 | 04/11/2023 12:42 | Dana G. Hughes | 04/13/2023 10:39 | Samantha L Bates | 2398213 |
| EPA 353.2 Rev. 2.0 | 04/05/2023 | | | 04/07/2023 09:58 | Beverly Y. Sanders | 2398187 |
| | 04/05/2023 | | | 04/07/2023 10:04 | Beverly Y. Sanders | 2398213 |
| EPA 365.1 Rev. 2.0 | 04/05/2023 | 04/07/2023 16:12 | Adam P Silver | 04/10/2023 11:28 | James L Waggerby | 2398187 |
| | 04/05/2023 | 04/07/2023 16:12 | Adam P Silver | 04/10/2023 11:41 | James L Waggerby | 2398213 |
| EPA 8270E | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/07/2023 15:51 | Vandana T. Nagar | 2398233 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/07/2023 18:45 | Vandana T. Nagar | 2398235 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/10/2023 17:34 | Arthur Maknenko | 2398233 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/10/2023 20:10 | Arthur Maknenko | 2398235 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/12/2023 15:27 | Vandana T. Nagar | 2398233 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/12/2023 16:46 | Vandana T. Nagar | 2398233 |
| | 04/05/2023 | 04/06/2023 08:00 | Fe-Val Siddell | 04/12/2023 18:06 | Vandana T. Nagar | 2398235 |
| | 04/05/2023 | 04/10/2023 08:30 | Rasheda Ghaffari | 04/13/2023 00:15 | Julie Wi | 2398234 |
| | 04/05/2023 | 04/10/2023 08:30 | Rasheda Ghaffari | 04/15/2023 01:29 | Michael Poppell | 2398234 |
| EPA 8276 | 04/05/2023 | 04/10/2023 08:30 | Rasheda Ghaffari | 04/13/2023 06:44 | Lipi Saha | 2398234 |
| EPA 8321B | 04/05/2023 | 04/07/2023 09:00 | Hoor Shaik | 04/08/2023 05:28 | Juyoung Kim | 2398227 |
| | 04/05/2023 | 04/07/2023 09:00 | Hoor Shaik | 04/10/2023 12:15 | Juyoung Kim | 2398227 |
| | 04/05/2023 | 04/07/2023 09:00 | Touraj Touran | 04/07/2023 14:44 | Manjita Shrestha | 2398227 |
| | 04/05/2023 | 04/07/2023 09:00 | Touraj Touran | 04/09/2023 11:56 | Manjita Shrestha | 2398227 |
| | 04/05/2023 | 04/10/2023 09:00 | Hoor Shaik | 04/10/2023 19:08 | Juyoung Kim | 2398226 |
| SM 2320 B-2011 | 04/05/2023 | | | 04/08/2023 02:21 | Dale L. Simmons | 2398184 |
| | 04/05/2023 | | | 04/08/2023 02:35 | Dale L. Simmons | 2398212 |
| SM 2340 B-2011 | 04/05/2023 | | | 04/18/2023 18:00 | McKinley C Carter | 2398196 |
| | 04/05/2023 | | | 04/18/2023 18:45 | McKinley C Carter | 2398241 |
| SM 2540 C-2015 | 04/05/2023 | | | 04/06/2023 16:41 | Yijie Li | 2398184, 2398212 |
| SM 2540 D-2015 | 04/05/2023 | | | 04/06/2023 16:41 | Yijie Li | 2398184, 2398212 |

# Preparation and Analysis Log

| Ref. Method | Received Date | Prep Date/Time | Prepared By | Analysis Date/Time | Analyzed By | Associated Samples |
|---|---|---|---|---|---|---|
| SM 4500-F- C-2011 | 04/05/2023 | | | 04/12/2023 19:28 | Dale L. Simmons | 2398184 |
| | 04/05/2023 | | | 04/12/2023 19:33 | Dale L. Simmons | 2398212 |
| SM 5310 B-2011 | 04/05/2023 | | | 04/07/2023 21:36 | Elise M. Gillis | 2398187 |
| | 04/05/2023 | | | 04/07/2023 22:51 | Elise M. Gillis | 2398213 |