

Chemical Analysis Report

SO-DIST-2022-11-04-01

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

Event Description: **2022 SMP: Lee Coastal**
Request ID: **RQ-2022-10-31-36**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

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

Date Certified: 01-DEC-2022 11:50



Case Narrative

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

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

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

Collection Date/Time: 11/03/2022 09:10

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367527	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P421960	
	SM 2320 B-2011	Total Alkalinity	120		mg CaCO3/L	P422118	
	SM 2540 D-2015	TSS	3	IA	mg/L	P422342	
	SM 4500-F- C-2011	Fluoride	1.0		mg F/L	P422122	
2367528	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P422137	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P421992	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.032		mg N/L	P422471	
	EPA 365.1 Rev. 2.0	Total-P	0.056		mg P/L	P422191	
	SM 5310 B-2011	Organic Carbon	6.3		mg C/L	P422604	
2367538	EPA 8270E	Oxybenzone**	9.7	U	ng/L	P422125	
		Acetochlor	0.24	U	ng/L	P422125	
		Octinoxate**	19	U	ng/L	P422125	
		Alachlor	0.24	U	ng/L	P422125	
		Avobenzone**	97	U	ng/L	P422125	
		Ametryn	1.6	I	ng/L	P422125	
		Atrazine	6.7		ng/L	P422125	
		PBDE-47**	3.9	U	ng/L	P422125	
		Atrazine Desethyl	3.1	I	ng/L	P422125	
		PBDE-99**	4.8	U	ng/L	P422125	
		Azinphos Methyl	1.9	U	ng/L	P422125	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P422125	
		Azoxystrobin	0.48	U	ng/L	P422125	
		Bromacil	2.0		ng/L	P422125	
		2-Ethylhexyl	12	U	ng/L	P422125	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.39	U	ng/L	P422125	
		Dechlorane Plus**	29	U	ng/L	P422125	
		Caffeine**	9.7	I	ng/L	P422125	
		Carbophenothion	0.19	U	ng/L	P422125	
		Carfentrazone Ethyl	0.097	U	ng/L	P422125	
		Chlorfenapyr	0.17	U	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	UJ	ng/L	P422125	RPD
		Chlorpyrifos Methyl	0.048	U	ng/L	P422125	
		Coumaphos	0.48	U	ng/L	P422125	
		Cyanazine	3.1	U	ng/L	P422125	
		Cyprodinil	0.097	U	ng/L	P422125	
		Demeton	1.5	U	ng/L	P422125	
		Diazinon	0.12	U	ng/L	P422125	
		Difenoconazole	0.58	U	ng/L	P422125	
		Dimethenamid	0.097	U	ng/L	P422125	
		Dimethomorph	0.17	U	ng/L	P422125	
		Disulfoton	0.48	U	ng/L	P422125	
		Dithiopyr	0.61	U	ng/L	P422125	
		EPTC	1.2	U	ng/L	P422125	

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367538	EPA 8270E	Ethion	0.15	U	ng/L	P422125	
		Ethoprop	0.097	U	ng/L	P422125	
		Etridiazole	0.15	U	ng/L	P422125	
		Fenamiphos	0.48	U	ng/L	P422125	
		Fenbuconazole	0.12	U	ng/L	P422125	
		Fipronil	0.24	UJ	ng/L	P422125	MS
		Fipronil DesulfinyI**	0.14	I	ng/L	P422125	
		Fipronil Sulfide	0.15	U	ng/L	P422125	
		Fipronil Sulfone	0.21	I	ng/L	P422125	
		Fluazifop-P-butyl	0.097	U	ng/L	P422125	
		Fludioxonil	0.12	U	ng/L	P422125	
		Flumioxazin	4.4	U	ng/L	P422125	
		Flutolanil	0.097	U	ng/L	P422125	
		Fluxapyroxad	0.47		ng/L	P422125	
		Fonofos	0.19	U	ng/L	P422125	
		Hexazinone	10		ng/L	P422125	
		Imazalil	0.73	U	ng/L	P422125	
		Iprodione	0.58	UJ	ng/L	P422125	LCS, MS
		Loratadine**	0.34	U	ng/L	P422125	
		Malathion	0.69	I	ng/L	P422125	
		Metalaxyl	0.97	I	ng/L	P422125	
		Metolachlor	2.1		ng/L	P422125	
		Metribuzin	1.5	U	ng/L	P422125	
		Mevinphos	1.0	U	ng/L	P422125	
		Molinate	0.29	U	ng/L	P422125	
		Myclobutanil	0.34	I	ng/L	P422125	
		Naled	1.5	U	ng/L	P422125	
		Napropamide	0.39	U	ng/L	P422125	
		Norflurazon	12		ng/L	P422125	
		Oxadiazon	0.94	I	ng/L	P422125	
		Oxyfluorfen	0.15	U	ng/L	P422125	
		Parathion Ethyl	0.24	U	ng/L	P422125	
		Parathion Methyl	0.53	U	ng/L	P422125	
		Pendimethalin	0.97	U	ng/L	P422125	
		Phenytain**	3.4	UJ	ng/L	P422125	MS
		Phorate	0.51	U	ng/L	P422125	
		Prodiamine	0.17	U	ng/L	P422125	
		Prometon	0.87	U	ng/L	P422125	
		Prometryn	0.19	UJ	ng/L	P422125	LCS, MS
		Pronamide	0.15	U	ng/L	P422125	
		Propanil	0.12	U	ng/L	P422125	
		Propargite	1.5	U	ng/L	P422125	
		Propiconazole	1.1	I	ng/L	P422125	
		Pyraflufen Ethyl	0.24	U	ng/L	P422125	
		Pyridaben	0.44	U	ng/L	P422125	

Field ID: G2SD0047

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367538	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P422125	
		Simazine	1.3	I	ng/L	P422125	
		Stirophos	0.12	U	ng/L	P422125	
		Sulfentrazone	1.3	I	ng/L	P422125	
		Tebuconazole	0.48	U	ng/L	P422125	
		Terbufos	0.097	U	ng/L	P422125	
		Terbuthylazine	0.41	U	ng/L	P422125	
		Thiobencarb	0.58	U	ng/L	P422125	
		Triadimefon	0.24	U	ng/L	P422125	

Ref. Method and Comment:

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

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 8270E: MS accuracy for atrazine and norflurazon 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: HendryCreekHouse1Upstream

Collection Date/Time: 11/03/2022 10:20

Field ID: G1SD0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367529	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P421960	
	SM 2320 B-2011	Total Alkalinity	261		mg CaCO3/L	P422118	
	SM 2540 D-2015	TSS	6	I	mg/L	P422340	
	SM 4500-F- C-2011	Fluoride	0.48		mg F/L	P422122	
2367530	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P422503	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P421992	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P422471	
	EPA 365.1 Rev. 2.0	Total-P	0.097		mg P/L	P422191	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P422603	
2367539	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P422125	
		Acetochlor	0.24	U	ng/L	P422125	
		Octinoxate**	19	U	ng/L	P422125	
		Alachlor	0.24	U	ng/L	P422125	
		Avobenzone**	96	U	ng/L	P422125	
		Ametryn	2.3		ng/L	P422125	
		Atrazine	7.9		ng/L	P422125	
		PBDE-47**	3.8	U	ng/L	P422125	
		Atrazine Desethyl	1.4	U	ng/L	P422125	
		PBDE-99**	4.8	U	ng/L	P422125	
		Azinphos Methyl	1.9	U	ng/L	P422125	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P422125	
		Azoxystrobin	0.48	U	ng/L	P422125	
		Bromacil	0.48	U	ng/L	P422125	
		2-Ethylhexyl	12	U	ng/L	P422125	
		2,3,4,5-tetrabromobenzoate (EHTBB)**					
		Butylate	0.38	U	ng/L	P422125	
		Dechlorane Plus**	29	U	ng/L	P422125	
		Caffeine**	15	I	ng/L	P422125	
		Carbophenothion	0.19	U	ng/L	P422125	
		Carfentrazone Ethyl	0.096	U	ng/L	P422125	
		Chlorfenapyr	0.17	U	ng/L	P422125	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P422125	RPD
		Chlorpyrifos Methyl	0.048	U	ng/L	P422125	
		Coumaphos	0.48	U	ng/L	P422125	
		Cyanazine	3.1	U	ng/L	P422125	
		Cyprodinil	0.096	U	ng/L	P422125	
		Demeton	1.4	U	ng/L	P422125	
		Diazinon	0.12	U	ng/L	P422125	
		Difenoconazole	0.58	U	ng/L	P422125	
		Dimethenamid	0.096	U	ng/L	P422125	
		Dimethomorph	0.17	U	ng/L	P422125	
		Disulfoton	0.48	U	ng/L	P422125	
		Dithiopyr	1.8	I	ng/L	P422125	
		EPTC	1.2	U	ng/L	P422125	

Field ID: G1SD0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367539	EPA 8270E	Ethion	0.14	U	ng/L	P422125	
		Ethoprop	0.096	U	ng/L	P422125	
		Etridiazole	0.14	U	ng/L	P422125	
		Fenamiphos	0.48	U	ng/L	P422125	
		Fenbuconazole	0.12	U	ng/L	P422125	
		Fipronil	0.56	I	ng/L	P422125	MS
		Fipronil DesulfinyI**	1.1		ng/L	P422125	
		Fipronil Sulfide	0.85		ng/L	P422125	
		Fipronil Sulfone	2.7		ng/L	P422125	
		Fluazifop-P-butyl	0.096	U	ng/L	P422125	
		Fludioxonil	0.12	U	ng/L	P422125	
		Flumioxazin	4.3	U	ng/L	P422125	
		Flutolanil	2.2		ng/L	P422125	
		Fluxapyroxad	2.7		ng/L	P422125	
		Fonofos	0.19	U	ng/L	P422125	
		Hexazinone	2.0		ng/L	P422125	
		Imazalil	0.72	U	ng/L	P422125	
		Iprodione	0.58	UJ	ng/L	P422125	LCS, MS
		Loratadine**	0.34	U	ng/L	P422125	
		Malathion	7.6		ng/L	P422125	
		Metalaxyl	0.72	U	ng/L	P422125	
		Metolachlor	0.34	U	ng/L	P422125	
		Metribuzin	1.4	U	ng/L	P422125	
		Mevinphos	1.0	U	ng/L	P422125	
		Molinate	0.29	U	ng/L	P422125	
		Myclobutanil	4.0		ng/L	P422125	
		Naled	1.4	U	ng/L	P422125	
		Napropamide	0.38	U	ng/L	P422125	
		Norflurazon	0.84	I	ng/L	P422125	
		Oxadiazon	11		ng/L	P422125	
		Oxyfluorfen	0.14	U	ng/L	P422125	
		Parathion Ethyl	0.24	U	ng/L	P422125	
		Parathion Methyl	0.53	U	ng/L	P422125	
		Pendimethalin	0.96	U	ng/L	P422125	
		Phenytain**	3.4	U	ng/L	P422125	MS
		Phorate	0.50	U	ng/L	P422125	
		Prodiamine	0.17	U	ng/L	P422125	
		Prometon	0.86	U	ng/L	P422125	
		Prometryn	0.19	UJ	ng/L	P422125	LCS, MS
		Pronamide	0.14	U	ng/L	P422125	
		Propanil	0.12	U	ng/L	P422125	
		Propargite	1.4	U	ng/L	P422125	
		Propiconazole	2.6		ng/L	P422125	
		Pyraflufen Ethyl	0.24	U	ng/L	P422125	
		Pyridaben	0.43	U	ng/L	P422125	

Field ID: G1SD0118

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367539	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P422125	
		Simazine	0.48	U	ng/L	P422125	
		Stirophos	0.12	U	ng/L	P422125	
		Sulfentrazone	48		ng/L	P422125	
		Tebuconazole	1.9	I	ng/L	P422125	
		Terbufos	0.096	U	ng/L	P422125	
		Terbutylazine	0.41	U	ng/L	P422125	
		Thiobencarb	0.58	U	ng/L	P422125	
		Triadimefon	0.32	I	ng/L	P422125	

Ref. Method and Comment:
EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8270E: MS accuracy for atrazine and norflurazon 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: Oak Creek @ Kentucky St

Collection Date/Time: 11/03/2022 11:30

Field ID: G1SD0116

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2367531	DEP SOP: NU-094-1	Color (true)	62		PCU	P421995	
	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P421960	
	EPA 300.0 Rev. 2.1	Chloride	50		mg Cl/L	P422246	
		Sulfate	12		mg SO4/L	P422249	
	SM 2320 B-2011	Total Alkalinity	202		mg CaCO3/L	P422256	
	SM 2540 C-2015	TDS	327		mg/L	P422521	
	SM 2540 D-2015	TSS	2	I	mg/L	P422339	
	SM 4500-F- C-2011	Fluoride	0.12		mg F/L	P422896	
2367532	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P422435	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P422244	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.062		mg N/L	P422142	
	EPA 365.1 Rev. 2.0	Total-P	0.053		mg P/L	P422190	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P422611	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P421995

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421960

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422246

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422249

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422137

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422435

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422503

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422244

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422142

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422471

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422190

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422191

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

Reference Method: EPA 8270E
Batch ID: P422125

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	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	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	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.62	U	ng/L
Dithiopyr	0.62	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Flumioxazin	4.5	U	ng/L
Flumioxazin	4.5	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.35	U	ng/L
Loratadine	0.35	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	1.5	U	ng/L
Metribuzin	1.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P422125

Component	Result	Code	Units
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytol	3.5	U	ng/L
Phenytol	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: SM 2320 B-2011

Batch ID: P422118

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P422256

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P422521

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P422339

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P422340

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P422342

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 4500-F- C-2011
Batch ID: P422896

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P422603

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

Reference Method: SM 5310 B-2011
Batch ID: P422604

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 5310 B-2011
Batch ID: P422611

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: P421995

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421960

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422246

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422249

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422137

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422435

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422503

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	94.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421992

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422244

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422142

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422471

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: P422190

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422191

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

Reference Method: EPA 8270E
Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.1		P	42 - 162
Acetochlor	107		P	69 - 123
Alachlor	85.3		P	65 - 118
Ametryn	107		P	58 - 141
Atrazine	103		P	73 - 118
Atrazine Desethyl	77.9		P	32 - 125
Avobenzone	90.1		P	40 - 203
Azinphos Methyl	155		P	36 - 197
Azoxystrobin	109		P	58 - 226
Bromacil	119		P	48 - 120
Butylate	62.5		P	27 - 85.0
Caffeine	78.2		P	40 - 137
Carbophenothion	110		P	54 - 132
Carfentrazone Ethyl	114		P	60 - 142
Chlorfenapyr	107		P	53 - 117
Chlorpyrifos Ethyl	92.9		P	59 - 116
Chlorpyrifos Methyl	104		P	66 - 119
Coumaphos	103		P	11 - 234
Cyanazine	204		P	61 - 248
Cyprodinil	123		P	50 - 147
Dechlorane Plus	80.2		P	47 - 182
Demeton	92.7		P	30 - 138
Diazinon	94.6		P	67 - 126
Difenoconazole	93.1		P	38 - 205
Dimethenamid	81.1		P	57 - 111
Dimethomorph	106		P	16 - 212
Disulfoton	104		P	46 - 126
Dithiopyr	100		P	62 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
EPTC	60.1		P	28 - 80.0
Ethion	75.7		P	24 - 122
Ethoprop	108		P	62 - 113
Etridiazole	85.3		P	28 - 92.0
Fenamiphos	111		P	57 - 128
Fenbuconazole	84.8		P	52 - 155
Fipronil	94.1		P	63 - 130
Fipronil Desulfinyl	97.7		P	61 - 130
Fipronil Sulfide	84.2		P	56 - 117
Fipronil Sulfone	87.8		P	52 - 118
Fluazifop-P-butyl	106		P	61 - 128
Fludioxonil	100		P	59 - 129
Flumioxazin	95.4		P	30 - 250
Flutolanil	100		P	53 - 127
Fluxapyroxad	108		P	42 - 132
Fonofos	90.9		P	61 - 110
Hexazinone	106		P	46 - 139
Imazalil	83.6		P	40 - 139
Iprodione	243		F	40 - 146
Loratadine	87.2		P	10 - 224
Malathion	111		P	61 - 135
Metalaxyl	92.9		P	58 - 121
Metolachlor	114		P	64 - 118
Metribuzin	98.8		P	45 - 245
Mevinphos	88.5		P	49 - 118
Molinate	80.0		P	42 - 92.0
Myclobutanil	112		P	55 - 127
Naled	76.6		P	10 - 114
Napropamide	94.1		P	39 - 121
Norflurazon	103		P	55 - 129
Octinoxate	85.2		P	26 - 166
Oxadiazon	97.8		P	54 - 115
Oxybenzone	60.9		P	49 - 135
Oxyfluorfen	118		P	64 - 139
Parathion Ethyl	107		P	70 - 111
Parathion Methyl	129		P	76 - 136
PBDE-47	73.0		P	41 - 148
PBDE-99	71.1		P	38 - 147
Pendimethalin	104		P	52 - 118
Phenytol	145		P	10 - 162
Phorate	66.9		P	40 - 122
Prodiamine	87.0		P	26 - 141
Prometon	100		P	54 - 122
Prometryn	134		F	61 - 128
Pronamide	119		P	72 - 121
Propanil	96.5		P	45 - 144
Propargite	143		P	10 - 199
Propiconazole	105		P	56 - 127
Pyraflufen Ethyl	97.8		P	56 - 140
Pyridaben	137		P	26 - 211
Pyriproxyfen	161		P	33 - 194
Simazine	107		P	67 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P422125

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Stiropfos	117		P	20 - 142
Sulfentrazone	83.9		P	21 - 144
Tebuconazole	110		P	10 - 122
Terbufos	118		P	60 - 129
Terbutylazine	105		P	69 - 113
Thiobencarb	111		P	51 - 120
Tri-o-cresyl Phosphate	62.9		P	49 - 150
Triadimefon	96.9		P	56 - 114

Reference Method: SM 2320 B-2011
Batch ID: P422118

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	95.9		P	94 - 106

Reference Method: SM 2320 B-2011
Batch ID: P422256

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

Reference Method: SM 2540 C-2015
Batch ID: P422521

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

Reference Method: SM 2540 D-2015
Batch ID: P422339

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	98.1		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P422340

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 2540 D-2015
Batch ID: P422342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	93.1		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P422896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P422603

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422604

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.5		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422611

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367474	Chloride	103		P	90 - 110
2367543	Chloride	106		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422249

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367474	Sulfate	103		P	90 - 110
2367543	Sulfate	107		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422137

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367107	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422435

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367510	Ammonia-N	97.2	97.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422503

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368312	Ammonia-N	100	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367109	Kjeldahl Nitrogen	105	99.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422244

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367582	Kjeldahl Nitrogen	102	96.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367500	NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422471

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367107	NO2NO3-N	106	104	P/P	90 - 110

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P422190

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367532	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	111	107	P/P	26 - 165
2367538	Acetochlor	99.6	91.5	P/P	67 - 124
2367538	Alachlor	86.7	74.5	P/P	60 - 120
2367538	Ametryn	112	101	P/P	54 - 216
2367538	Atrazine Desethyl	75.8	65.2	P/P	15 - 122
2367538	Avobenzone	121	117	P/P	37 - 178
2367538	Azinphos Methyl	145	140	P/P	40 - 292
2367538	Azoxystrobin	130	129	P/P	35 - 220
2367538	Bromacil	125	125	P/P	45 - 127
2367538	Butylate	52.8	42.0	P/P	20 - 83.0
2367538	Caffeine	85.9	87.9	P/P	10 - 194
2367538	Carbophenothion	123	116	P/P	57 - 127
2367538	Carfentrazone Ethyl	128	117	P/P	51 - 141
2367538	Chlorfenapyr	101	106	P/P	46 - 111
2367538	Chlorpyrifos Ethyl	82.2	115	P/P	52 - 120
2367538	Chlorpyrifos Methyl	102	102	P/P	63 - 119
2367538	Coumaphos	110	97.6	P/P	10 - 228
2367538	Cyanazine	212	220	P/P	59 - 241
2367538	Cyprodinil	125	111	P/P	47 - 146
2367538	Dechlorane Plus	114	98.5	P/P	50 - 150
2367538	Demeton	131	115	P/P	40 - 136
2367538	Diazinon	88.8	85.6	P/P	69 - 132
2367538	Difenoconazole	103	89.9	P/P	57 - 258
2367538	Dimethenamid	79.4	74.3	P/P	54 - 110
2367538	Dimethomorph	135	115	P/P	28 - 210
2367538	Disulfoton	104	91.2	P/P	43 - 133
2367538	Dithiopyr	115	96.3	P/P	39 - 116
2367538	EPTC	55.2	40.6	P/P	20 - 78.0
2367538	Ethion	71.7	68.6	P/P	17 - 119
2367538	Ethoprop	117	115	P/P	66 - 120
2367538	Etridiazole	83.0	75.0	P/P	28 - 96.0
2367538	Fenamiphos	113	96.1	P/P	41 - 126
2367538	Fenbuconazole	114	85.0	P/P	42 - 169
2367538	Fipronil	139	126	F/P	61 - 132
2367538	Fipronil Desulfinyl	101	102	P/P	56 - 132
2367538	Fipronil Sulfide	96.9	90.4	P/P	48 - 119
2367538	Fipronil Sulfone	128	119	P/P	42 - 131
2367538	Fluazifop-P-butyl	105	110	P/P	53 - 131
2367538	Fludioxonil	111	93.9	P/P	56 - 127
2367538	Flumioxazin	89.5	90.7	P/P	19 - 300
2367538	Flutolanil	106	98.0	P/P	41 - 127
2367538	Fluxapyroxad	115	97.6	P/P	42 - 172
2367538	Fonofos	90.4	76.2	P/P	59 - 113
2367538	Hexazinone	113	103	P/P	66 - 122
2367538	Imazalil	102	98.3	P/P	21 - 283
2367538	Iprodione	266	248	F/F	43 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P422125

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367538	Loratadine	92.1	85.3	P/P	23 - 201
2367538	Malathion	102	101	P/P	58 - 136
2367538	Metalaxyl	89.2	91.0	P/P	55 - 120
2367538	Metolachlor	119	119	P/P	57 - 121
2367538	Metribuzin	117	117	P/P	58 - 294
2367538	Mevinphos	99.5	87.3	P/P	50 - 126
2367538	Molinate	80.9	74.8	P/P	42 - 93.0
2367538	Myclobutanil	122	102	P/P	55 - 125
2367538	Naled	110	81.1	P/P	18 - 200
2367538	Napropamide	98.4	89.7	P/P	39 - 110
2367538	Octinoxate	112	103	P/P	21 - 159
2367538	Oxadiazon	94.2	87.0	P/P	43 - 112
2367538	Oxybenzone	91.9	78.6	P/P	41 - 142
2367538	Oxyfluorfen	121	122	P/P	64 - 153
2367538	Parathion Ethyl	107	104	P/P	69 - 114
2367538	Parathion Methyl	134	125	P/P	79 - 139
2367538	PBDE-47	97.7	94.4	P/P	27 - 144
2367538	PBDE-99	95.0	91.3	P/P	18 - 150
2367538	Pendimethalin	119	99.6	P/P	50 - 139
2367538	Phenytoin	116	157	P/F	10 - 146
2367538	Phorate	89.8	73.9	P/P	54 - 161
2367538	Prodiamine	75.5	78.3	P/P	30 - 161
2367538	Prometon	118	100	P/P	45 - 134
2367538	Prometryn	143	149	F/F	45 - 137
2367538	Pronamide	119	123	P/P	65 - 133
2367538	Propanil	91.5	96.8	P/P	49 - 142
2367538	Propargite	149	144	P/P	10 - 203
2367538	Propiconazole	112	93.8	P/P	38 - 146
2367538	Pyraflufen Ethyl	103	95.1	P/P	34 - 153
2367538	Pyridaben	167	144	P/P	12 - 192
2367538	Pyriproxyfen	139	164	P/P	33 - 180
2367538	Simazine	109	115	P/P	51 - 157
2367538	Stiropfos	113	126	P/P	10 - 128
2367538	Sulfentrazone	98.6	87.3	P/P	53 - 186
2367538	Tebuconazole	122	114	P/P	10 - 133
2367538	Terbufos	126	114	P/P	65 - 139
2367538	Terbuthylazine	103	99.3	P/P	66 - 117
2367538	Thiobencarb	108	117	P/P	51 - 119
2367538	Tri-o-cresyl Phosphate	90.6	82.4	P/P	31 - 144
2367538	Triadimefon	91.3	113	P/P	48 - 119

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2366262	Fluoride	96.6	96.6	P/P	94 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P422896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367774	Fluoride	101	102	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P422603

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2368438	Organic Carbon	96.0	97.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422604

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367749	Organic Carbon	89.0	90.9	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P422611

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2367614	Organic Carbon	98.4		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P421995

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367474	Color (true)	3.78	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P421960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367474	Turbidity	4.66	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367474	Chloride	1.32	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P422249

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367474	Sulfate	2.20	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422137

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367107	Ammonia-N	0.331	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422435

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367510	Ammonia-N	0.206	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P422503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368312	Ammonia-N	0.233	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P421992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367109	Kjeldahl Nitrogen	4.94	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P422244

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367582	Kjeldahl Nitrogen	4.12	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367500	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P422471

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367107	NO2NO3-N	0.952	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422190

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367532	Total-P	0.908	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P422191

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367739	Total-P	1.18	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3.91	Spike	P	0 - 37
2367538	Acetochlor	8.44	Spike	P	0 - 28
2367538	Alachlor	15.2	Spike	P	0 - 30
2367538	Ametryn	6.92	Spike	P	0 - 32
2367538	Atrazine	5.42	Spike	P	0 - 41
2367538	Atrazine Desethyl	11.8	Spike	P	0 - 36
2367538	Avobenzone	3.40	Spike	P	0 - 36
2367538	Azinphos Methyl	3.09	Spike	P	0 - 75
2367538	Azoxystrobin	1.00	Spike	P	0 - 39
2367538	Bromacil	0.0178	Spike	P	0 - 33
2367538	Butylate	22.8	Spike	P	0 - 44
2367538	Caffeine	2.26	Spike	P	0 - 74
2367538	Carbophenothion	5.46	Spike	P	0 - 25
2367538	Carfentrazone Ethyl	8.98	Spike	P	0 - 27
2367538	Chlorfenapyr	5.15	Spike	P	0 - 24
2367538	Chlorpyrifos Ethyl	32.9	Spike	F	0 - 26

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	Chlorpyrifos Methyl	0.775	Spike	P	0 - 26
2367538	Coumaphos	11.7	Spike	P	0 - 28
2367538	Cyanazine	3.90	Spike	P	0 - 48
2367538	Cyprodinil	11.5	Spike	P	0 - 29
2367538	Dechlorane Plus	15.0	Spike	P	0 - 30
2367538	Demeton	13.3	Spike	P	0 - 33
2367538	Diazinon	3.63	Spike	P	0 - 29
2367538	Difenoconazole	14.0	Spike	P	0 - 34
2367538	Dimethenamid	6.58	Spike	P	0 - 39
2367538	Dimethomorph	16.2	Spike	P	0 - 51
2367538	Disulfoton	13.1	Spike	P	0 - 30
2367538	Dithiopyr	18.1	Spike	P	0 - 26
2367538	EPTC	30.6	Spike	P	0 - 43
2367538	Ethion	4.42	Spike	P	0 - 79
2367538	Ethoprop	2.20	Spike	P	0 - 29
2367538	Etridiazole	10.1	Spike	P	0 - 33
2367538	Fenamiphos	16.3	Spike	P	0 - 40
2367538	Fenbuconazole	29.3	Spike	P	0 - 74
2367538	Fipronil	10.1	Spike	P	0 - 29
2367538	Fipronil Desulfinyl	0.389	Spike	P	0 - 32
2367538	Fipronil Sulfide	6.88	Spike	P	0 - 30
2367538	Fipronil Sulfone	6.87	Spike	P	0 - 33
2367538	Fluazifop-P-butyl	4.81	Spike	P	0 - 38
2367538	Fludioxonil	16.5	Spike	P	0 - 29
2367538	Flumioxazin	1.35	Spike	P	0 - 51
2367538	Flutolanil	8.07	Spike	P	0 - 25
2367538	Fluxapyroxad	14.5	Spike	P	0 - 45
2367538	Fonofos	17.0	Spike	P	0 - 27
2367538	Hexazinone	5.13	Spike	P	0 - 30
2367538	Imazalil	3.96	Spike	P	0 - 100
2367538	Iprodione	6.84	Spike	P	0 - 33
2367538	Loratadine	7.73	Spike	P	0 - 56
2367538	Malathion	0.579	Spike	P	0 - 37
2367538	Metalaxyl	1.90	Spike	P	0 - 40
2367538	Metolachlor	0.366	Spike	P	0 - 29
2367538	Metribuzin	0.520	Spike	P	0 - 45
2367538	Mevinphos	13.1	Spike	P	0 - 29
2367538	Molinate	7.87	Spike	P	0 - 33
2367538	Myclobutanil	16.8	Spike	P	0 - 26
2367538	Naled	30.5	Spike	P	0 - 37
2367538	Napropamide	9.24	Spike	P	0 - 44
2367538	Norflurazon	13.8	Spike	P	0 - 30
2367538	Octinoxate	9.07	Spike	P	0 - 45
2367538	Oxadiazon	6.28	Spike	P	0 - 28
2367538	Oxybenzone	15.6	Spike	P	0 - 46
2367538	Oxyfluorfen	0.736	Spike	P	0 - 28
2367538	Parathion Ethyl	3.15	Spike	P	0 - 31
2367538	Parathion Methyl	6.46	Spike	P	0 - 29
2367538	PBDE-47	3.46	Spike	P	0 - 36
2367538	PBDE-99	3.98	Spike	P	0 - 40
2367538	Pendimethalin	17.3	Spike	P	0 - 33

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P422125

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367538	Phenytoin	30.3	Spike	P	0 - 100
2367538	Phorate	19.4	Spike	P	0 - 36
2367538	Prodiamine	3.65	Spike	P	0 - 71
2367538	Prometon	16.6	Spike	P	0 - 36
2367538	Prometryn	3.69	Spike	P	0 - 28
2367538	Pronamide	3.15	Spike	P	0 - 24
2367538	Propanil	5.67	Spike	P	0 - 28
2367538	Propargite	3.79	Spike	P	0 - 43
2367538	Propiconazole	13.5	Spike	P	0 - 33
2367538	Pyraflufen Ethyl	8.23	Spike	P	0 - 29
2367538	Pyridaben	14.9	Spike	P	0 - 30
2367538	Pyriproxyfen	16.5	Spike	P	0 - 79
2367538	Simazine	4.61	Spike	P	0 - 29
2367538	Stirophos	10.7	Spike	P	0 - 61
2367538	Sulfentrazone	10.3	Spike	P	0 - 33
2367538	Tebuconazole	6.71	Spike	P	0 - 69
2367538	Terbufos	10.1	Spike	P	0 - 29
2367538	Terbutylazine	3.51	Spike	P	0 - 32
2367538	Thiobencarb	8.03	Spike	P	0 - 26
2367538	Tri-o-cresyl Phosphate	9.43	Spike	P	0 - 33
2367538	Triadimefon	21.7	Spike	P	0 - 28

Reference Method: SM 2320 B-2011

Batch ID: P422118

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366262	Total Alkalinity	1.13	Sample	P	0 - 3.8

Reference Method: SM 2320 B-2011

Batch ID: P422256

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367355	Total Alkalinity	0.815	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P422521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367474	TDS	6.61	Sample	P	0 - 10

Reference Method: SM 2540 D-2015

Batch ID: P422340

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368437	TSS	5.56	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 4500-F- C-2011
Batch ID: P422122

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2366262	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 4500-F- C-2011
Batch ID: P422896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367774	Fluoride	0.972	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P422603

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2368438	Organic Carbon	0.551	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P422604

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367749	Organic Carbon	1.35	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P422611

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2367614	Organic Carbon	1.60	Sample	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2367538
Field Sample ID: G2SD0047

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	97.6	P	20 - 200
EPA 8270E	Simazine-d10	101	P	62 - 142
EPA 8270E	Terbufos-d10	105	P	58 - 132
EPA 8270E	Terphenyl-d14	108	P	52 - 137

Lab Sample ID: 2367539
Field Sample ID: G1SD0118

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	111	P	20 - 200
EPA 8270E	Simazine-d10	114	P	62 - 142
EPA 8270E	Terbufos-d10	101	P	58 - 132
EPA 8270E	Terphenyl-d14	91.0	P	52 - 137

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115758

Included Lab Sample IDs: 2367527, 2367529, 2367531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A115772

Included Lab Sample IDs: 2367531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	105	106	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115800

Included Lab Sample IDs: 2367531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A115822

Included Lab Sample IDs: 2367527, 2367529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	94.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115822

Included Lab Sample IDs: 2367527, 2367529

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	102	102	P/P	90 - 110
Fluoride	102	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115828

Included Lab Sample IDs: 2367528, 2367530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	96.4	P/P	90 - 110
Kjeldahl Nitrogen	96.4	99.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115829

Included Lab Sample IDs: 2367528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.7	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115831

Included Lab Sample IDs: 2367532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	108	107	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2367538, 2367539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	96.3		P	80 - 120
Alachlor	92.5		P	80 - 120
Ametryn	84.9		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	93.7		P	80 - 120
Azinphos Methyl	86.5		P	80 - 120
Azoxystrobin	99.6		P	80 - 120
Bromacil	87.9		P	80 - 120
Butylate	91.0		P	80 - 120
Caffeine	95.4		P	80 - 120
Carbophenothion	89.7		P	80 - 120
Carfentrazone Ethyl	95.3		P	80 - 120
Chlorfenapyr	90.3		P	80 - 120
Chlorpyrifos Ethyl	93.9		P	80 - 120
Chlorpyrifos Methyl	95.8		P	80 - 120
Coumaphos	83.0		P	80 - 120
Cyanazine	92.0		P	80 - 120
Cyprodinil	80.6		P	80 - 120
Demeton	95.6		P	80 - 120
Diazinon	89.7		P	80 - 120
Difenoconazole	82.6		P	80 - 120
Dimethenamid	96.2		P	80 - 120
Dimethomorph	106		P	80 - 120
Disulfoton	103		P	80 - 120
Dithiopyr	82.2		P	80 - 120
EPTC	96.4		P	80 - 120
Ethion	85.9		P	80 - 120
Ethoprop	98.7		P	80 - 120
Etridiazole	98.1		P	80 - 120
Fenamiphos	90.6		P	80 - 120
Fenbuconazole	89.1		P	80 - 120
Fipronil	97.9		P	80 - 120
Fipronil Desulfinyl	80.6		P	80 - 120
Fipronil Sulfide	83.9		P	80 - 120
Fipronil Sulfone	93.9		P	80 - 120
Fluazifop-P-butyl	88.0		P	80 - 120
Fludioxonil	88.3		P	80 - 120
Flumioxazin	88.8		P	80 - 120
Flutolanil	92.7		P	80 - 120
Fluxapyroxad	83.8		P	80 - 120
Fonofos	90.4		P	80 - 120
Hexazinone	97.6		P	80 - 120
Imazalil	90.6		P	80 - 120
Iprodione	96.7		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115866

Included Lab Sample IDs: 2367538, 2367539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Loratadine	85.1		P	80 - 120
Malathion	94.6		P	80 - 120
Metalaxyl	81.6		P	80 - 120
Metolachlor	94.8		P	80 - 120
Metribuzin	95.5		P	80 - 120
Mevinphos	92.1		P	80 - 120
Molinate	103		P	80 - 120
Myclobutanil	92.8		P	80 - 120
Naled	90.2		P	80 - 120
Napropamide	87.2		P	80 - 120
Norflurazon	94.2		P	80 - 120
Oxadiazon	91.1		P	80 - 120
Oxyfluorfen	87.6		P	80 - 120
Parathion Ethyl	103		P	80 - 120
Parathion Methyl	101		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytoin	90.7		P	80 - 120
Phorate	96.2		P	80 - 120
Prodiamine	91.3		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	80.8		P	80 - 120
Pronamide	91.1		P	80 - 120
Propanil	85.5		P	80 - 120
Propargite	82.0		P	80 - 120
Propiconazole	90.7		P	80 - 120
Pyraflufen Ethyl	92.0		P	80 - 120
Pyridaben	91.7		P	80 - 120
Pyriproxyfen	89.4		P	80 - 120
Simazine	104		P	80 - 120
Stirophos	91.5		P	80 - 120
Sulfentrazone	83.0		P	80 - 120
Tebuconazole	82.4		P	80 - 120
Terbufos	92.2		P	80 - 120
Terbuthylazine	94.3		P	80 - 120
Thiobencarb	97.6		P	80 - 120
Triadimefon	94.9		P	80 - 120

Reference Method: SM 2320 B-2011

Run ID: A115885

Included Lab Sample IDs: 2367531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.3	95.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115889

Included Lab Sample IDs: 2367532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.9	99.4	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115901

Included Lab Sample IDs: 2367528, 2367530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.0	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115918

Included Lab Sample IDs: 2367538, 2367539

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	95.5		P	80 - 120
Avobenzone	92.1		P	80 - 120
Dechlorane Plus	86.3		P	80 - 120
Octinoxate	97.0		P	80 - 120
Oxybenzone	98.4		P	80 - 120
PBDE-47	92.0		P	80 - 120
PBDE-99	85.3		P	80 - 120
Tri-o-cresyl Phosphate	96.2		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115957

Included Lab Sample IDs: 2367528, 2367530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	105	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115958

Included Lab Sample IDs: 2367532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	106	107	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115966

Included Lab Sample IDs: 2367532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115996

Included Lab Sample IDs: 2367530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.2	99.0	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A116039

Included Lab Sample IDs: 2367528, 2367530

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	100	99.0	P/P	90 - 110
Organic Carbon	97.8	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A116047

Included Lab Sample IDs: 2367532

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.8	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A116180

Included Lab Sample IDs: 2367531

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	103	101	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	101				3.78	
EPA 180.1 Rev. 2.0	Turbidity	101				4.66	
EPA 300.0 Rev. 2.1	Chloride	102	103	106		1.32	
	Sulfate	107	103	107		2.20	
EPA 350.1 Rev. 2.0	Ammonia-N	95.8	100	101			0.331
	Ammonia-N	96.0	97.2	97.0			0.206
	Ammonia-N	94.4	100	101			0.233
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	105	99.2			4.94
	Kjeldahl Nitrogen	99.8	102	96.0			4.12
EPA 353.2 Rev. 2.0	NO2NO3-N	105	97.5				0.0
	NO2NO3-N	104	106	104			0.952
EPA 365.1 Rev. 2.0	Total-P	104	102	103			0.908
	Total-P	100					1.18
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	82.1	111	107			3.91
	Acetochlor	107	99.6	91.5			8.44
	Alachlor	85.3	86.7	74.5			15.2
	Ametryn	107	112	101			6.92
	Atrazine	103					5.42
	Atrazine Desethyl	77.9	75.8	65.2			11.8
	Avobenzone	90.1	121	117			3.40
	Azinphos Methyl	155	145	140			3.09
	Azoxystrobin	109	130	129			1.00
	Bromacil	119	125	125			0.0178
	Butylate	62.5	52.8	42.0			22.8
	Caffeine	78.2	85.9	87.9			2.26
	Carbophenothion	110	123	116			5.46
	Carfentrazone Ethyl	114	128	117			8.98
	Chlorfenapyr	107	101	106			5.15
	Chlorpyrifos Ethyl	92.9	82.2	115			32.9
	Chlorpyrifos Methyl	104	102	102			0.775
	Coumaphos	103	110	97.6			11.7
	Cyanazine	204	212	220			3.90
	Cyprodinil	123	125	111			11.5
	Dechlorane Plus	80.2	114	98.5			15.0
	Demeton	92.7	131	115			13.3
	Diazinon	94.6	88.8	85.6			3.63
	Difenoconazole	93.1	103	89.9			14.0
	Dimethenamid	81.1	79.4	74.3			6.58
	Dimethomorph	106	135	115			16.2
	Disulfoton	104	104	91.2			13.1
	Dithiopyr	100	115	96.3			18.1
	EPTC	60.1	55.2	40.6			30.6
	Ethion	75.7	71.7	68.6			4.42
	Ethoprop	108	117	115			2.20
	Etridiazole	85.3	83.0	75.0			10.1
	Fenamiphos	111	113	96.1			16.3
	Fenbuconazole	84.8	114	85.0			29.3
	Fipronil	94.1	139	126			10.1
	Fipronil Desulfinyl	97.7	101	102			0.389
	Fipronil Sulfide	84.2	96.9	90.4			6.88
	Fipronil Sulfone	87.8	128	119			6.87
	Fluazifop-P-butyl	106	105	110			4.81

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8270E	Fludioxonil	100	111	93.9			16.5
	Flumioxazin	95.4	89.5	90.7			1.35
	Flutolanil	100	106	98.0			8.07
	Fluxapyroxad	108	115	97.6			14.5
	Fonofos	90.9	90.4	76.2			17.0
	Hexazinone	106	113	103			5.13
	Imazalil	83.6	102	98.3			3.96
	Iprodione	243	266	248			6.84
	Loratadine	87.2	92.1	85.3			7.73
	Malathion	111	102	101			0.579
	Metalaxyl	92.9	89.2	91.0			1.90
	Metolachlor	114	119	119			0.366
	Metribuzin	98.8	117	117			0.520
	Mevinphos	88.5	99.5	87.3			13.1
	Molinate	80.0	80.9	74.8			7.87
	Myclobutanil	112	122	102			16.8
	Naled	76.6	110	81.1			30.5
	Napropamide	94.1	98.4	89.7			9.24
	Norflurazon	103					13.8
	Octinoxate	85.2	112	103			9.07
	Oxadiazon	97.8	94.2	87.0			6.28
	Oxybenzone	60.9	91.9	78.6			15.6
	Oxyfluorfen	118	121	122			0.736
	Parathion Ethyl	107	107	104			3.15
	Parathion Methyl	129	134	125			6.46
	PBDE-47	73.0	97.7	94.4			3.46
	PBDE-99	71.1	95.0	91.3			3.98
	Pendimethalin	104	119	99.6			17.3
	Phenytol	145	116	157			30.3
	Phorate	66.9	89.8	73.9			19.4
	Prodiamine	87.0	75.5	78.3			3.65
	Prometon	100	118	100			16.6
	Prometryn	134	143	149			3.69
	Pronamide	119	119	123			3.15
	Propanil	96.5	91.5	96.8			5.67
	Propargite	143	149	144			3.79
	Propiconazole	105	112	93.8			13.5
	Pyraflufen Ethyl	97.8	103	95.1			8.23
	Pyridaben	137	167	144			14.9
	Pyriproxyfen	161	139	164			16.5
	Simazine	107	109	115			4.61
	Stirophos	117	113	126			10.7
	Sulfentrazone	83.9	98.6	87.3			10.3
	Tebuconazole	110	122	114			6.71
	Terbufos	118	126	114			10.1
	Terbuthylazine	105	103	99.3			3.51
	Thiobencarb	111	108	117			8.03
	Tri-o-cresyl Phosphate	62.9	90.6	82.4			9.43
	Triadimefon	96.9	91.3	113			21.7
SM 2320 B-2011	Total Alkalinity	95.9				1.13	
	Total Alkalinity	96.2				0.815	
SM 2540 C-2015	TDS	104				6.61	
SM 2540 D-2015	TSS	98.1					
	TSS	93.1				5.56	

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
SM 2540 D-2015	TSS	93.1				
SM 4500-F- C-2011	Fluoride	101	96.6	96.6		0.0
	Fluoride	100	101	102		0.972
SM 5310 B-2011	Organic Carbon	96.2	96.0	97.0		0.551
	Organic Carbon	98.5	89.0	90.9		1.35
	Organic Carbon	97.0	98.4		1.60	

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2367531
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2367527, 2367529, 2367531
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2367531
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2367531
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2367528, 2367530, 2367532
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2367528, 2367530, 2367532
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2367528, 2367530, 2367532
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2367528, 2367530, 2367532
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2367538, 2367539
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2367538, 2367539
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2367527, 2367529, 2367531
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2367531
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2367527, 2367529, 2367531
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2367527, 2367529, 2367531
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2367528, 2367530, 2367532

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	11/04/2022			11/04/2022 14:24	Chandler E Cox	2367531
EPA 180.1 Rev. 2.0	11/04/2022			11/04/2022 13:49	Khloe J Berg	2367527
	11/04/2022			11/04/2022 13:50	Khloe J Berg	2367529
	11/04/2022			11/04/2022 13:51	Khloe J Berg	2367531
EPA 300.0 Rev. 2.1	11/04/2022			11/11/2022 03:04	Anna M. Plaviak	2367531
EPA 350.1 Rev. 2.0	11/04/2022			11/08/2022 12:55	Ping Hua	2367528
	11/04/2022			11/16/2022 14:05	Ping Hua	2367532
	11/04/2022			11/17/2022 12:32	Ping Hua	2367530
EPA 351.2 Rev. 2.0	11/04/2022	11/07/2022 11:40	Simonne.V. Calhoun	11/09/2022 11:19	Alexandra J Mattheus	2367528
	11/04/2022	11/07/2022 11:40	Simonne.V. Calhoun	11/09/2022 11:24	Alexandra J Mattheus	2367530
	11/04/2022	11/14/2022 12:45	Alexandra J Mattheus	11/16/2022 12:34	Samantha L Bates	2367532
EPA 353.2 Rev. 2.0	11/04/2022			11/09/2022 12:30	Beverly Y. Sanders	2367532
	11/04/2022			11/15/2022 11:59	Beverly Y. Sanders	2367528
	11/04/2022			11/15/2022 12:00	Beverly Y. Sanders	2367530
EPA 365.1 Rev. 2.0	11/04/2022	11/10/2022 11:40	Simonne.V. Calhoun	11/14/2022 11:02	Simonne.V. Calhoun	2367532
	11/04/2022	11/10/2022 11:40	Simonne.V. Calhoun	11/14/2022 15:55	James L Waggeberby	2367528
	11/04/2022	11/10/2022 11:40	Simonne.V. Calhoun	11/14/2022 15:56	James L Waggeberby	2367530
EPA 8270E	11/04/2022	11/08/2022 08:30	Rasheda Ghaffari	11/09/2022 18:56	Michael Poppell	2367538
	11/04/2022	11/08/2022 08:30	Rasheda Ghaffari	11/10/2022 00:03	Michael Poppell	2367539
	11/04/2022	11/08/2022 08:30	Rasheda Ghaffari	11/10/2022 16:09	Arthur Maknenko	2367538
	11/04/2022	11/08/2022 08:30	Rasheda Ghaffari	11/10/2022 16:29	Arthur Maknenko	2367539
SM 2320 B-2011	11/04/2022			11/08/2022 21:30	Dale L. Simmons	2367529
	11/04/2022			11/08/2022 23:06	Dale L. Simmons	2367527
	11/04/2022			11/10/2022 11:56	Adam P Silver	2367531
SM 2540 C-2015	11/04/2022			11/09/2022 16:35	Yijie Li	2367531
SM 2540 D-2015	11/04/2022			11/09/2022 16:35	Yijie Li	2367527, 2367529, 2367531
SM 4500-F- C-2011	11/04/2022			11/08/2022 19:35	Dale L. Simmons	2367529
	11/04/2022			11/08/2022 20:45	Dale L. Simmons	2367527
	11/04/2022			11/30/2022 07:05	Dale L. Simmons	2367531
SM 5310 B-2011	11/04/2022			11/17/2022 22:21	Khloe J Berg	2367530
	11/04/2022			11/18/2022 06:07	Khloe J Berg	2367528
	11/04/2022			11/18/2022 11:49	Khloe J Berg	2367532