

Chemical Analysis Report

NE-DIST-2016-07-21-01

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

Event Description: **Suwannee 2**
Request ID: **RQ-2016-07-18-09**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 15-AUG-2016 16:07



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 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: 21030302 Rocky Creek at 235

Collection Date/Time: 07/20/2016 09:30

Field ID: 21030302 Rocky Creek at 235

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818087	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P308446	
	EPA 300.0 Rev. 2.1	Chloride	18		mg Cl/L	P309181	
		Sulfate	18		mg SO4/L	P309184	
	SM 2120 B	Color (true)	240		PCU	P308385	
	SM 2320 B-97	Total Alkalinity	32		mg CaCO3/L	P308880	
	SM 2540 C-97	TDS	142		mg/L	P309152	
	SM 2540 D-97	TSS	2	U	mg/L	P308905	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P308883	
1818090	EPA 350.1 Rev. 2.0	Ammonia-N	0.040		mg N/L	P308508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P308789	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.32		mg N/L	P308891	
	EPA 365.1 Rev. 2.0	Total-P	0.41		mg P/L	P308676	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P309106	
1818093	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.35		mg P/L	P308380	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: 21030126 Mill Creek Bellamy rd

Collection Date/Time: 07/20/2016 10:00

Field ID: 21030126 Mill Creek Bellamy rd

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818088	EPA 180.1 Rev. 2.0	Turbidity	5.6		NTU	P308446	
	EPA 300.0 Rev. 2.1	Chloride	13	A	mg Cl/L	P309181	
		Sulfate	4.5	A	mg SO4/L	P309184	
	SM 2120 B	Color (true)	200		PCU	P308385	
	SM 2320 B-97	Total Alkalinity	14		mg CaCO3/L	P308880	
	SM 2540 C-97	TDS	82		mg/L	P309153	
	SM 2540 D-97	TSS	6	I	mg/L	P308906	
	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P308883	
1818091	EPA 350.1 Rev. 2.0	Ammonia-N	0.039		mg N/L	P308508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P308789	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.13		mg N/L	P308891	
	EPA 365.1 Rev. 2.0	Total-P	0.80		mg P/L	P308676	
	SM 5310 B-00	Organic Carbon	18		mg C/L	P309106	
1818094	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.61		mg P/L	P308380	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: 21020009 Olustee at 238

Collection Date/Time: 07/20/2016 10:40

Field ID: 21020009 Olustee at 238

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818096	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P308446	
	EPA 300.0 Rev. 2.1	Chloride	7.9		mg Cl/L	P309181	
		Sulfate	0.57		mg SO4/L	P309184	

Field ID: 21020009 Olustee at 238

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818096	SM 2120 B	Color (true)	590		PCU	P308385	
	SM 2320 B-97	Total Alkalinity	6.4		mg CaCO3/L	P308880	
	SM 2540 C-97	TDS	92		mg/L	P309153	
	SM 2540 D-97	TSS	4	I	mg/L	P308906	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P308883	
1818097	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P308508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P308789	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.14		mg N/L	P308847	
	EPA 365.1 Rev. 2.0	Total-P	0.36		mg P/L	P308693	
	SM 5310 B-00	Organic Carbon	41		mg C/L	P309106	
1818098	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.29		mg P/L	P308380	
1818103	EPA 8321B	Glyphosate**	10	U	ug/L	P308589	
	USGS O-2060-01	2,4-D	0.0040	U	ug/L	P308360	MS
		Diuron	0.0040	U	ug/L	P308360	MS
		Fenuron	0.0080	U	ug/L	P308360	
		2,4,5-T	0.0020	U	ug/L	P308360	
		Acifluorfen	0.0020	U	ug/L	P308360	
		Imidacloprid	0.0040	U	ug/L	P308360	
		Bentazon	0.0020	U	ug/L	P308360	MS
		Linuron	0.0040	U	ug/L	P308360	
		Acetaminophen**	0.0040	U	ug/L	P308360	
		Carbamazepine**	4.0E-04	U	ug/L	P308360	
		Silvex	0.0020	U	ug/L	P308360	MS
		Primidone**	0.0080	U	ug/L	P308360	
		Fluridone**	4.0E-04	U	ug/L	P308360	
1818104	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P308662	
1818105	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0020	U	ug/L	P308655	
		Alpha-BHC	0.0020	U	ug/L	P308655	
		Beta-BHC	0.0020	U	ug/L	P308655	
		Carbophenothion	0.0060	UJ	ug/L	P308655	CCV
		Chlorothalonil	0.0080	U	ug/L	P308655	
		Cypermethrin	0.012	UJ	ug/L	P308655	CCV
		DDD-p,p'	0.0040	U	ug/L	P308655	
		DDE-p,p'	0.0040	U	ug/L	P308655	
		DDT-p,p'	0.0040	UJ	ug/L	P308655	LCS
		Dicofol	0.024	UJ	ug/L	P308655	CCV
		Dieldrin	0.0020	U	ug/L	P308655	
		Endosulfan I	0.0020	U	ug/L	P308655	
		Endosulfan II	0.0020	U	ug/L	P308655	
		Endosulfan Sulfate	0.0040	U	ug/L	P308655	
		Endrin	0.0040	U	ug/L	P308655	
		Endrin Aldehyde	0.0040	U	ug/L	P308655	
		Heptachlor	0.0020	U	ug/L	P308655	

Field ID: 21020009 Olustee at 238

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818105	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Heptachlor Epoxide	0.0020	U	ug/L	P308655	
		Methoxychlor	0.010	U	ug/L	P308655	
		Mirex	0.0040	U	ug/L	P308655	
		Permethrin	0.010	U	ug/L	P308655	
1818106	EPA 8270D	Trifluralin	0.0080	U	ug/L	P308655	
		Ametryn	0.32	U	ng/L	P308592	
		Atrazine	0.52	I	ng/L	P308592	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P308592	
		Chlorpyrifos Methyl	0.099	U	ng/L	P308592	
		Disulfoton	0.32	U	ng/L	P308592	
		Ethion	0.15	U	ng/L	P308592	
		Ethoprop	0.099	U	ng/L	P308592	
		Hexazinone	1.2	I	ng/L	P308592	
		Malathion	0.35	U	ng/L	P308592	
		Metribuzin	0.20	U	ng/L	P308592	
		Mevinphos	0.50	UJ	ng/L	P308592	CCV
		Norflurazon	0.50	U	ng/L	P308592	
		Phorate	0.25	U	ng/L	P308592	
		Prometryn	0.20	U	ng/L	P308592	
		Simazine	0.50	U	ng/L	P308592	
		Atrazine Desethyl	1.5	U	ng/L	P308592	
		Prometon	0.89	U	ng/L	P308592	
		Fipronil	0.25	U	ng/L	P308592	
		Molinate	0.30	U	ng/L	P308592	
		Pendimethalin	1.5	U	ng/L	P308592	
		Terbufos	0.099	U	ng/L	P308592	
		EPTC	1.2	U	ng/L	P308592	
		Terbuthylazine	0.42	U	ng/L	P308592	
		Bromacil	0.50	U	ng/L	P308592	
		Fipronil Sulfide	0.15	U	ng/L	P308592	
		Fipronil Sulfone	0.15	U	ng/L	P308592	
		Alachlor	0.99		ng/L	P308592	
		Azinphos Methyl	2.2	U	ng/L	P308592	
		Butylate	0.40	U	ng/L	P308592	
		Demeton	0.99	U	ng/L	P308592	
		Diazinon	0.12	U	ng/L	P308592	
		Fenamiphos	0.25	U	ng/L	P308592	
		Fonofos	0.20	U	ng/L	P308592	
		Metalaxyl	0.20	U	ng/L	P308592	
		Metolachlor	3.7		ng/L	P308592	
		Acetochlor	0.25	U	ng/L	P308592	
		Cyanazine	0.50	U	ng/L	P308592	
		Parathion Ethyl	0.25	U	ng/L	P308592	
		Parathion Methyl	0.25	U	ng/L	P308592	

Field ID: 21020009 Olustee at 238

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment: SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample. DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes. EPA 8270D: Refer to the narrative for an explanation of QC Codes.							

Sample Location: 21030130 FiveMile at 231A

Collection Date/Time: 07/20/2016 11:15

Field ID: 21030130 FiveMile at 231A

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1818089	EPA 180.1 Rev. 2.0	Turbidity	3.7		NTU	P308446	
	EPA 300.0 Rev. 2.1	Chloride	7.4		mg Cl/L	P309181	
		Sulfate	2.0		mg SO4/L	P309184	
	SM 2120 B	Color (true)	540		PCU	P308385	
	SM 2320 B-97	Total Alkalinity	6.7		mg CaCO3/L	P308880	
	SM 2540 C-97	TDS	104		mg/L	P309153	
	SM 2540 D-97	TSS	2	I	mg/L	P308906	
	SM 4500 F-C-97	Fluoride	0.075	I	mg F/L	P308883	
1818092	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P308508	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P308789	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P308847	
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P308676	
	SM 5310 B-00	Organic Carbon	49		mg C/L	P309106	
1818095	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P308380	

Ref. Method and Comment:
 SM 2540 D-97: 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: GC-011-5 (based on EPA 608 and 617)
 Batch ID: P308655

Component	Result	Code	Units
Aldrin	0.0020	U	ug/L
Alpha-BHC	0.0020	U	ug/L
Beta-BHC	0.0020	U	ug/L
Carbophenothion	0.0060	U	ug/L
Chlorothalonil	0.0080	U	ug/L
Cypermethrin	0.012	U	ug/L
DDD-p,p'	0.0040	U	ug/L
DDE-p,p'	0.0040	U	ug/L
DDT-p,p'	0.0040	U	ug/L
Dicofol	0.024	U	ug/L
Dieldrin	0.0020	U	ug/L
Endosulfan I	0.0020	U	ug/L
Endosulfan II	0.0020	U	ug/L
Endosulfan Sulfate	0.0040	U	ug/L
Endrin	0.0040	U	ug/L
Endrin Aldehyde	0.0040	U	ug/L
Heptachlor	0.0020	U	ug/L
Heptachlor Epoxide	0.0020	U	ug/L
Methoxychlor	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P308655

Component	Result	Code	Units
Mirex	0.0040	U	ug/L
Permethrin	0.010	U	ug/L
Trifluralin	0.0080	U	ug/L

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P308446

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P309181

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P309184

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P308508

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P308789

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P308847

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P308891

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P308676

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308693

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P308380

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

Reference Method: EPA 8270D
Batch ID: P308592

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	1.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.32	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P308589

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P308662

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: SM 2120 B
Batch ID: P308385

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P308880

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

Reference Method: SM 2540 C-97
Batch ID: P309152

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P309153

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P308905

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P308906

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P308883

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P309106

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

Reference Method: USGS O-2060-01
Batch ID: P308360

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0040	U	ug/L
Acetaminophen	0.0040	U	ug/L
Acifluorfen	0.0020	U	ug/L
Bentazon	0.0020	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0040	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
Primidone	0.0080	U	ug/L
Silvex	0.0020	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P308655

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	95.7	106	P/P	70 - 130
Alpha-BHC	91.8	103	P/P	70 - 130
Beta-BHC	111	118	P/P	70 - 130
DDD-p,p'	107	124	P/P	70 - 130
DDE-p,p'	110	126	P/P	70 - 130
DDT-p,p'	118	138	P/F	70 - 130
Dieldrin	101	115	P/P	70 - 130
Endosulfan I	107	119	P/P	70 - 130
Endosulfan II	108	122	P/P	70 - 130
Endosulfan Sulfate	128	129	P/P	70 - 130
Endrin	112	126	P/P	81 - 147
Endrin Aldehyde	97.8	115	P/P	70 - 130
Heptachlor	110	107	P/P	70 - 130
Heptachlor Epoxide	107	116	P/P	70 - 130
Methoxychlor	136	143	P/P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P309181

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P309184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308508

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308789

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308847

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308891

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308676

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308693

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P308380

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

Reference Method: EPA 8270D
Batch ID: P308592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	92.2	90.6	P/P	80 - 119
Alachlor	91.5	90.6	P/P	80 - 120
Ametryn	98.0	101	P/P	60 - 135
Atrazine	95.0	99.2	P/P	72 - 121

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P308592

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Atrazine Desethyl	66.4	70.0	P/P	14 - 124
Azinphos Methyl	145	149	P/P	74 - 186
Bromacil	82.8	80.9	P/P	38 - 125
Butylate	52.1	49.6	P/P	34 - 88.0
Chlorpyrifos Ethyl	92.1	96.4	P/P	53 - 108
Chlorpyrifos Methyl	82.9	82.6	P/P	29 - 119
Cyanazine	130	139	P/P	30 - 240
Demeton	75.5	79.8	P/P	35 - 127
Diazinon	95.4	93.7	P/P	75 - 121
Disulfoton	104	99.8	P/P	40 - 141
EPTC	47.4	50.4	P/P	36 - 96.0
Ethion	103	105	P/P	64 - 127
Ethoprop	83.5	84.2	P/P	65 - 108
Fenamiphos	121	125	P/P	62 - 140
Fipronil	100	101	P/P	59 - 127
Fipronil Sulfide	95.3	96.7	P/P	55 - 126
Fipronil Sulfone	99.2	100	P/P	56 - 127
Fonofos	90.5	88.2	P/P	64 - 111
Hexazinone	104	102	P/P	43 - 153
Malathion	113	112	P/P	70 - 129
Metalaxyl	96.3	97.2	P/P	49 - 135
Metolachlor	97.1	96.3	P/P	81 - 120
Metribuzin	90.3	96.3	P/P	66 - 133
Mevinphos	89.8	95.9	P/P	33 - 128
Molinate	56.8	56.9	P/P	46 - 101
Norflurazon	103	107	P/P	62 - 131
Parathion Ethyl	101	90.1	P/P	80 - 109
Parathion Methyl	97.4	105	P/P	76 - 126
Pendimethalin	85.9	84.6	P/P	47 - 137
Phorate	73.5	85.9	P/P	51 - 115
Prometon	89.6	97.2	P/P	67 - 123
Prometryn	99.1	98.5	P/P	66 - 122
Simazine	113	112	P/P	60 - 134
Terbufos	85.8	90.0	P/P	56 - 116
Terbuthylazine	90.7	91.7	P/P	77 - 114

Reference Method: EPA 8321B
 Batch ID: P308589

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	83.0		P	40 - 140

Reference Method: EPA 8321B
 Batch ID: P308662

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	60.8		P	40 - 140

Reference Method: SM 2320 B-97
 Batch ID: P308880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P308880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P308883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.8		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P309106

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	100		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P308360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	103		P	40 - 140
2,4-D	115		P	40 - 140
Acetaminophen	120		P	40 - 140
Acifluorfen	127		P	40 - 140
Bentazon	126		P	40 - 140
Carbamazepine	124		P	40 - 140
Diuron	68.0		P	40 - 140
Fenuron	108		P	40 - 140
Fluridone	104		P	40 - 140
Imidacloprid	108		P	40 - 160
Linuron	130		P	40 - 140
Primidone	73.6		P	40 - 140
Silvex	102		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P308655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818125	Aldrin	99.9	81.9	P/P	70 - 130
1818125	Alpha-BHC	94.1	91.2	P/P	70 - 130
1818125	Beta-BHC	115	97.1	P/P	70 - 130
1818125	DDD-p,p'	109	112	P/P	70 - 130
1818125	DDE-p,p'	117	117	P/P	70 - 130
1818125	DDT-p,p'	117	119	P/P	70 - 130
1818125	Dieldrin	107	107	P/P	70 - 130
1818125	Endosulfan I	108	103	P/P	70 - 130
1818125	Endosulfan II	111	111	P/P	70 - 130
1818125	Endosulfan Sulfate	123	129	P/P	70 - 130
1818125	Endrin	116	119	P/P	81 - 147
1818125	Endrin Aldehyde	100	105	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Batch ID: P308655

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818125	Heptachlor	128	120	P/P	70 - 130
1818125	Heptachlor Epoxide	92.7	97.6	P/P	70 - 130
1818125	Methoxychlor	133	135	P/P	86 - 145
1818691	Aldrin	84.0		P	70 - 130
1818691	Alpha-BHC	92.1		P	70 - 130
1818691	Beta-BHC	105		P	70 - 130
1818691	DDD-p,p'	115		P	70 - 130
1818691	DDE-p,p'	120		P	70 - 130
1818691	DDT-p,p'	122		P	70 - 130
1818691	Dieldrin	110		P	70 - 130
1818691	Endosulfan I	108		P	70 - 130
1818691	Endosulfan II	116		P	70 - 130
1818691	Endosulfan Sulfate	127		P	70 - 130
1818691	Endrin	118		P	81 - 147
1818691	Endrin Aldehyde	106		P	70 - 130
1818691	Heptachlor	121		P	70 - 130
1818691	Heptachlor Epoxide	108		P	70 - 130
1818691	Methoxychlor	133		P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P309181

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818087	Chloride	98.4		P	90 - 110
1818088	Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P309184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818087	Sulfate	95.6		P	90 - 110
1818088	Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P308508

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818090	Ammonia-N	99.0	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P308789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818090	Kjeldahl Nitrogen	104	109	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P308847

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1816769	NO2NO3-N	95.5		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P308891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818028	NO2NO3-N	107	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P308676

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818080	Total-P	98.6	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P308693

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818172	Total-P	95.9	95.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P308380

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818037	O-Phosphate-P	98.3	100	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P308592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818106	Acetochlor	95.1	97.7	P/P	77 - 125
1818106	Alachlor	93.6	96.3	P/P	75 - 127
1818106	Ametryn	104	94.3	P/P	53 - 150
1818106	Atrazine	99.0	99.2	P/P	70 - 126
1818106	Atrazine Desethyl	49.4	58.6	P/P	8.0 - 105
1818106	Azinphos Methyl	129	136	P/P	63 - 204
1818106	Bromacil	89.2	87.8	P/P	43 - 132
1818106	Butylate	18.4	19.8	P/P	7.0 - 87.0
1818106	Chlorpyrifos Ethyl	93.1	95.5	P/P	53 - 111
1818106	Chlorpyrifos Methyl	78.5	76.8	P/P	38 - 117
1818106	Cyanazine	105	96.2	P/P	18 - 222
1818106	Demeton	60.6	56.2	P/P	10 - 157
1818106	Diazinon	91.5	96.2	P/P	73 - 127
1818106	Disulfoton	77.0	75.5	P/P	43 - 141
1818106	EPTC	15.3	17.4	P/P	11 - 86.0
1818106	Ethion	96.4	93.4	P/P	68 - 130
1818106	Ethoprop	77.1	76.3	P/P	60 - 108
1818106	Fenamiphos	118	126	P/P	56 - 139
1818106	Fipronil	87.6	82.5	P/P	29 - 143
1818106	Fipronil Sulfide	82.9	74.7	P/P	35 - 129
1818106	Fipronil Sulfone	69.0	65.6	P/P	16 - 146
1818106	Fonofos	77.3	80.2	P/P	59 - 112
1818106	Hexazinone	92.6	86.2	P/P	68 - 145
1818106	Malathion	107	106	P/P	69 - 131
1818106	Metalaxyl	98.9	95.4	P/P	67 - 119
1818106	Metolachlor	99.9	101	P/P	77 - 124
1818106	Metribuzin	97.8	95.3	P/P	63 - 134
1818106	Mevinphos	86.7	80.2	P/P	40 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P308592

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818106	Molinate	32.9	35.0	P/P	27 - 98.0
1818106	Norflurazon	91.3	84.7	P/P	39 - 141
1818106	Parathion Ethyl	90.4	94.8	P/P	74 - 113
1818106	Parathion Methyl	94.0	89.2	P/P	61 - 133
1818106	Pendimethalin	84.8	79.8	P/P	26 - 179
1818106	Phorate	64.0	64.0	P/P	44 - 126
1818106	Prometon	102	94.4	P/P	43 - 147
1818106	Prometryn	102	97.5	P/P	68 - 126
1818106	Simazine	100	104	P/P	47 - 156
1818106	Terbufos	75.8	78.2	P/P	53 - 125
1818106	Terbutylazine	91.7	89.2	P/P	76 - 113

Reference Method: EPA 8321B
Batch ID: P308589

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818004	Glyphosate	51.2	47.2	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P308662

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818104	Pyraclostrobin	75.6	68.0	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P308883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818312	Fluoride	96.3	96.8	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P309106

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1818014	Organic Carbon	96.4	96.2	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P308360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817617	2,4,5-T	99.2	106	P/P	40 - 140
1817617	2,4-D	137	142	P/F	40 - 140
1817617	Acetaminophen	42.4	48.8	P/P	40 - 140
1817617	Acifluorfen	99.2	99.6	P/P	40 - 140
1817617	Bentazon	205	196	F/F	40 - 140
1817617	Carbamazepine	56.8	58.8	P/P	40 - 140
1817617	Diuron	35.0	35.7	F/F	40 - 140
1817617	Fenuron	53.6	57.6	P/P	40 - 140
1817617	Fluridone	62.0	62.0	P/P	40 - 140
1817617	Imidacloprid	134	129	P/P	40 - 160
1817617	Linuron	77.6	75.6	P/P	40 - 140
1817617	Primidone	42.4	42.4	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P308360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817617	Silvex	137	145	P/F	40 - 140

Quality Assurance Report Precision

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P308655

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818125	Aldrin	19.8	Spike	P	0 - 30
1818125	Alpha-BHC	3.17	Spike	P	0 - 30
1818125	Beta-BHC	17.1	Spike	P	0 - 30
1818125	DDD-p,p'	2.70	Spike	P	0 - 30
1818125	DDE-p,p'	0.0508	Spike	P	0 - 30
1818125	DDT-p,p'	1.44	Spike	P	0 - 30
1818125	Dieldrin	0.0455	Spike	P	0 - 30
1818125	Endosulfan I	5.03	Spike	P	0 - 30
1818125	Endosulfan II	0.203	Spike	P	0 - 30
1818125	Endosulfan Sulfate	4.33	Spike	P	0 - 30
1818125	Endrin	2.78	Spike	P	0 - 30
1818125	Endrin Aldehyde	4.78	Spike	P	0 - 30
1818125	Heptachlor	6.58	Spike	P	0 - 30
1818125	Heptachlor Epoxide	5.09	Spike	P	0 - 30
1818125	Methoxychlor	0.915	Spike	P	0 - 30
LFB	Aldrin	9.79	LCS	P	0 - 30
LFB	Alpha-BHC	11.9	LCS	P	0 - 30
LFB	Beta-BHC	6.61	LCS	P	0 - 30
LFB	DDD-p,p'	15.0	LCS	P	0 - 30
LFB	DDE-p,p'	13.1	LCS	P	0 - 30
LFB	DDT-p,p'	15.6	LCS	P	0 - 30
LFB	Dieldrin	13.1	LCS	P	0 - 30
LFB	Endosulfan I	10.7	LCS	P	0 - 30
LFB	Endosulfan II	11.7	LCS	P	0 - 30
LFB	Endosulfan Sulfate	1.29	LCS	P	0 - 30
LFB	Endrin	12.2	LCS	P	0 - 30
LFB	Endrin Aldehyde	15.8	LCS	P	0 - 30
LFB	Heptachlor	2.81	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.80	LCS	P	0 - 30
LFB	Methoxychlor	5.06	LCS	P	0 - 30

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P308446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818020	Turbidity	1.59	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P309181

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818088	Chloride	0.0777	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P309184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818088	Sulfate	0.751	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308508

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818090	Ammonia-N	0.313	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308789

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818090	Kjeldahl Nitrogen	2.78	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308847

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1816769	NO2NO3-N	0.731	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818028	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308676

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818080	Total-P	1.06	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308693

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818172	Total-P	0.317	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P308380

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818037	O-Phosphate-P	1.71	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P308592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818106	Acetochlor	2.69	Spike	P	0 - 30
1818106	Alachlor	2.65	Spike	P	0 - 30
1818106	Ametryn	10.2	Spike	P	0 - 30
1818106	Atrazine	0.237	Spike	P	0 - 30
1818106	Atrazine Desethyl	17.1	Spike	P	0 - 30
1818106	Azinphos Methyl	5.40	Spike	P	0 - 30
1818106	Bromacil	1.62	Spike	P	0 - 30
1818106	Butylate	7.28	Spike	P	0 - 30
1818106	Chlorpyrifos Ethyl	2.53	Spike	P	0 - 30
1818106	Chlorpyrifos Methyl	2.17	Spike	P	0 - 30
1818106	Cyanazine	9.07	Spike	P	0 - 30
1818106	Demeton	7.49	Spike	P	0 - 30
1818106	Diazinon	4.98	Spike	P	0 - 30
1818106	Disulfoton	2.05	Spike	P	0 - 30
1818106	EPTC	12.8	Spike	P	0 - 30
1818106	Ethion	3.14	Spike	P	0 - 30
1818106	Ethoprop	0.982	Spike	P	0 - 30
1818106	Fenamiphos	6.45	Spike	P	0 - 30
1818106	Fipronil	5.90	Spike	P	0 - 30
1818106	Fipronil Sulfide	10.5	Spike	P	0 - 30
1818106	Fipronil Sulfone	5.04	Spike	P	0 - 30
1818106	Fonofos	3.65	Spike	P	0 - 30
1818106	Hexazinone	6.54	Spike	P	0 - 30
1818106	Malathion	0.896	Spike	P	0 - 30
1818106	Metalaxyl	3.59	Spike	P	0 - 30
1818106	Metolachlor	1.11	Spike	P	0 - 30
1818106	Metribuzin	2.60	Spike	P	0 - 30
1818106	Mevinphos	7.82	Spike	P	0 - 30
1818106	Molinate	6.12	Spike	P	0 - 30
1818106	Norflurazon	7.57	Spike	P	0 - 30
1818106	Parathion Ethyl	4.75	Spike	P	0 - 30
1818106	Parathion Methyl	5.26	Spike	P	0 - 30
1818106	Pendimethalin	6.07	Spike	P	0 - 30
1818106	Phorate	0.0453	Spike	P	0 - 30
1818106	Prometon	7.83	Spike	P	0 - 30
1818106	Prometryn	4.10	Spike	P	0 - 30
1818106	Simazine	3.90	Spike	P	0 - 30
1818106	Terbufos	3.13	Spike	P	0 - 30
1818106	Terbutylazine	2.79	Spike	P	0 - 30
LFB	Acetochlor	1.70	LCS	P	0 - 30
LFB	Alachlor	0.924	LCS	P	0 - 30
LFB	Ametryn	3.02	LCS	P	0 - 30
LFB	Atrazine	4.37	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.30	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P308592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	2.15	LCS	P	0 - 30
LFB	Bromacil	2.31	LCS	P	0 - 30
LFB	Butylate	4.75	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.49	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.321	LCS	P	0 - 30
LFB	Cyanazine	6.54	LCS	P	0 - 30
LFB	Demeton	5.52	LCS	P	0 - 30
LFB	Diazinon	1.82	LCS	P	0 - 30
LFB	Disulfoton	3.84	LCS	P	0 - 30
LFB	EPTC	6.17	LCS	P	0 - 30
LFB	Ethion	1.79	LCS	P	0 - 30
LFB	Ethoprop	0.799	LCS	P	0 - 30
LFB	Fenamiphos	3.19	LCS	P	0 - 30
LFB	Fipronil	0.665	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.38	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.03	LCS	P	0 - 30
LFB	Fonofos	2.55	LCS	P	0 - 30
LFB	Hexazinone	2.15	LCS	P	0 - 30
LFB	Malathion	0.407	LCS	P	0 - 30
LFB	Metalaxyl	0.868	LCS	P	0 - 30
LFB	Metolachlor	0.808	LCS	P	0 - 30
LFB	Metribuzin	6.47	LCS	P	0 - 30
LFB	Mevinphos	6.54	LCS	P	0 - 30
LFB	Molinate	0.226	LCS	P	0 - 30
LFB	Norflurazon	3.16	LCS	P	0 - 30
LFB	Parathion Ethyl	11.2	LCS	P	0 - 30
LFB	Parathion Methyl	7.44	LCS	P	0 - 30
LFB	Pendimethalin	1.62	LCS	P	0 - 30
LFB	Phorate	15.6	LCS	P	0 - 30
LFB	Prometon	8.08	LCS	P	0 - 30
LFB	Prometryn	0.611	LCS	P	0 - 30
LFB	Simazine	0.179	LCS	P	0 - 30
LFB	Terbufos	4.81	LCS	P	0 - 30
LFB	Terbutylazine	1.14	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P308589

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818004	Glyphosate	8.13	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P308662

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818104	Pyraclostrobin	10.6	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P308385

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818025	Color (true)	5.03	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P308880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818312	Total Alkalinity	0.378	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P309152

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817994	TDS	0.930	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P309153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818265	TDS	0.274	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P308883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818312	Fluoride	0.482	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P309106

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1818014	Organic Carbon	0.286	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P308360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817617	2,4,5-T	7.00	Spike	P	0 - 30
1817617	2,4-D	3.73	Spike	P	0 - 30
1817617	Acetaminophen	14.0	Spike	P	0 - 30
1817617	Acifluorfen	0.402	Spike	P	0 - 30
1817617	Bentazon	3.06	Spike	P	0 - 30
1817617	Carbamazepine	3.46	Spike	P	0 - 30
1817617	Diuron	1.92	Spike	P	0 - 30
1817617	Fenuron	7.19	Spike	P	0 - 30
1817617	Fluridone	0.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P308360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817617	Imidacloprid	3.66	Spike	P	0 - 30
1817617	Linuron	2.61	Spike	P	0 - 30
1817617	Primidone	0.0	Spike	P	0 - 30
1817617	Silvex	5.39	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 1818103
Field Sample ID: 21020009 Olustee at 238

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	69.6	P	50 - 150
USGS O-2060-01	2,4-D-d3	111	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	73.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	64.4	P	40 - 160
USGS O-2060-01	Diuron-d6	48.8	P	40 - 150
USGS O-2060-01	Primidone-d5	56.8	P	40 - 150

Lab Sample ID: 1818104
Field Sample ID: 21020009 Olustee at 238

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	84.0	P	40 - 150

Lab Sample ID: 1818105
Field Sample ID: 21020009 Olustee at 238

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	44.1	P	44 - 128

Lab Sample ID: 1818106
Field Sample ID: 21020009 Olustee at 238

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	97.6	P	65 - 132
EPA 8270D	Simazine-d10	89.1	P	72 - 128

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A70684
Included Lab Sample IDs: 1818093, 1818094, 1818095, 1818098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A70684

Included Lab Sample IDs: 1818093, 1818094, 1818095, 1818098

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.6	97.8	P/P	90 - 110
O-Phosphate-P	97.8	98.1	P/P	90 - 110
O-Phosphate-P	99.4	97.7	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A70685

Included Lab Sample IDs: 1818087, 1818088, 1818089, 1818096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.0	99.1	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A70697

Included Lab Sample IDs: 1818087, 1818088, 1818089, 1818096

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70718

Included Lab Sample IDs: 1818090, 1818091, 1818092, 1818097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.1	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A70719

Included Lab Sample IDs: 1818103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	86.4	78.0	P/P	60 - 150
Carbamazepine	122	125	P/P	60 - 150
Diuron	71.2	78.4	P/P	60 - 150
Fenuron	116	118	P/P	60 - 150
Fluridone	102	100	P/P	60 - 150
Imidacloprid	114	95.6	P/P	60 - 150
Linuron	140	140	P/P	60 - 150
Primidone	67.2	74.4	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A70736

Included Lab Sample IDs: 1818103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	110	110	P/P	50 - 150
2,4-D	110	122	P/P	50 - 150
Acifluorfen	121	139	P/P	50 - 150
Bentazon	121	122	P/P	50 - 150
Silvex	107	116	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A70764

Included Lab Sample IDs: 1818103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	105	108	P/P	70 - 130

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70804

Included Lab Sample IDs: 1818090, 1818091, 1818092, 1818097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	102	P/P	90 - 110
Total-P	105	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70824

Included Lab Sample IDs: 1818092, 1818097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	101	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A70836

Included Lab Sample IDs: 1818087, 1818088, 1818089, 1818096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A70836

Included Lab Sample IDs: 1818087, 1818088, 1818089, 1818096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.6	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70838

Included Lab Sample IDs: 1818090, 1818091

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

Reference Method: EPA 8321B

Run ID: A70870

Included Lab Sample IDs: 1818104

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	64.0	61.2	P/P	60 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A70874

Included Lab Sample IDs: 1818090, 1818091, 1818092, 1818097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A70874

Included Lab Sample IDs: 1818090, 1818091, 1818092, 1818097

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A70885

Included Lab Sample IDs: 1818087, 1818088, 1818089, 1818096

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.9	P/P	90 - 110
Chloride	99.9	101	P/P	90 - 110
Sulfate	96.1	97.1	P/P	90 - 110
Sulfate	98.1	96.1	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A70922

Included Lab Sample IDs: 1818090, 1818091, 1818092, 1818097

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.8	98.9	P/P	90 - 110
Organic Carbon	98.9	97.6	P/P	90 - 110

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)

Run ID: A71017

Included Lab Sample IDs: 1818105

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.2	94.6	P/P	85 - 115
Alpha-BHC	94.2	95.1	P/P	85 - 115
Beta-BHC	97.4	98.2	P/P	85 - 115
Carbophenothion	165*	148*	F/F	90 - 110
Chlorothalonil	104	107	P/P	90 - 110
Cypermethrin	123*	137*	F/F	85 - 115
DDD-p,p'	106	109	P/P	85 - 115
DDE-p,p'	103	105	P/P	85 - 115
DDT-p,p'	92.5	87.8	P/P	85 - 115
Dicofol	97.3	74.6*	P/F	90 - 110
Dieldrin	94.5	95.9	P/P	85 - 115
Endosulfan I	94.3	96.1	P/P	85 - 115
Endosulfan II	96.8	97.8	P/P	85 - 115
Endosulfan Sulfate	102	102	P/P	85 - 115
Endrin	98.5	99.0	P/P	85 - 115
Endrin Aldehyde	99.0	99.5	P/P	85 - 115
Heptachlor	101	104	P/P	85 - 115
Heptachlor Epoxide	94.2	96.5	P/P	85 - 115
Methoxychlor	105	101	P/P	90 - 110
Mirex	105	109	P/P	90 - 110
Permethrin	90.1	94.1	P/P	90 - 110
Trifluralin	105	108	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A71064
Included Lab Sample IDs: 1818106

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	102		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	109		P	80 - 120
Atrazine	95.4		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	93.9		P	80 - 120
Bromacil	112		P	80 - 120
Butylate	103		P	80 - 120
Chlorpyrifos Ethyl	96.8		P	80 - 120
Chlorpyrifos Methyl	97.8		P	80 - 120
Cyanazine	107		P	80 - 120
Demeton	99.2		P	80 - 120
Diazinon	102		P	80 - 120
Disulfoton	99.4		P	80 - 120
EPTC	106		P	80 - 120
Ethion	92.7		P	80 - 120
Ethoprop	94.9		P	80 - 120
Fenamiphos	104		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Sulfide	105		P	80 - 120
Fipronil Sulfone	105		P	80 - 120
Fonofos	98.2		P	80 - 120
Hexazinone	98.6		P	80 - 120
Malathion	90.8		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	99.2		P	80 - 120
Mevinphos	79.4*		F	80 - 120
Molinate	107		P	80 - 120
Norflurazon	104		P	80 - 120
Parathion Ethyl	108		P	80 - 120
Parathion Methyl	99.5		P	80 - 120
Pendimethalin	102		P	80 - 120
Phorate	97.4		P	80 - 120
Prometon	109		P	80 - 120
Prometryn	111		P	80 - 120
Simazine	99.9		P	80 - 120
Terbufos	96.8		P	80 - 120
Terbutylazine	98.1		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	Precision	
				LCS	SMP
					MS

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery				LCS	Precision SMP	MS
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	95.7	106	84.0	99.9	81.9	9.79			19.8
	Alpha-BHC	91.8	103	92.1	94.1	91.2	11.9			3.17
	Beta-BHC	111	118	105	115	97.1	6.61			17.1
	DDD-p,p'	107	124	115	109	112	15.0			2.70
	DDE-p,p'	110	126	120	117	117	13.1			0.0508
	DDT-p,p'	118	138	122	117	119	15.6			1.44
	Dieldrin	101	115	110	107	107	13.1			0.0455
	Endosulfan I	107	119	108	108	103	10.7			5.03
	Endosulfan II	108	122	116	111	111	11.7			0.203
	Endosulfan Sulfate	128	129	127	123	129	1.29			4.33
	Endrin	112	126	118	116	119	12.2			2.78
	Endrin Aldehyde	97.8	115	106	100	105	15.8			4.78
	Heptachlor	110	107	121	128	120	2.81			6.58
	Heptachlor Epoxide	107	116	108	92.7	97.6	7.80			5.09
	Methoxychlor	136	143	133	133	135	5.06			0.915
EPA 180.1 Rev. 2.0	Turbidity								1.59	
EPA 300.0 Rev. 2.1	Chloride	99.8		98.8	98.4				0.0777	
	Sulfate	95.6		95.8	95.6				0.751	
EPA 350.1 Rev. 2.0	Ammonia-N	96.5		99.0	99.5					0.313
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105		104	109					2.78
EPA 353.2 Rev. 2.0	NO2NO3-N	104		95.5						0.731
	NO2NO3-N	107		107	107					0.0
EPA 365.1 Rev. 2.0	Total-P	98.4		98.6	101					1.06
	Total-P	99.6		95.9	95.6					0.317
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		98.3	100					1.71
EPA 8270D	Acetochlor	92.2	90.6	95.1	97.7		1.70			2.69
	Alachlor	91.5	90.6	93.6	96.3		0.924			2.65
	Ametryn	98.0	101	104	94.3		3.02			10.2
	Atrazine	95.0	99.2	99.0	99.2		4.37			0.237
	Atrazine Desethyl	66.4	70.0	49.4	58.6		5.30			17.1
	Azinphos Methyl	145	149	129	136		2.15			5.40
	Bromacil	82.8	80.9	89.2	87.8		2.31			1.62
	Butylate	52.1	49.6	18.4	19.8		4.75			7.28
	Chlorpyrifos Ethyl	92.1	96.4	93.1	95.5		4.49			2.53
	Chlorpyrifos Methyl	82.9	82.6	78.5	76.8		0.321			2.17
	Cyanazine	130	139	105	96.2		6.54			9.07
	Demeton	75.5	79.8	60.6	56.2		5.52			7.49
	Diazinon	95.4	93.7	91.5	96.2		1.82			4.98
	Disulfoton	104	99.8	77.0	75.5		3.84			2.05
	EPTC	47.4	50.4	15.3	17.4		6.17			12.8
	Ethion	103	105	96.4	93.4		1.79			3.14
	Ethoprop	83.5	84.2	77.1	76.3		0.799			0.982
	Fenamiphos	121	125	118	126		3.19			6.45
	Fipronil	100	101	87.6	82.5		0.665			5.90
	Fipronil Sulfide	95.3	96.7	82.9	74.7		1.38			10.5
	Fipronil Sulfone	99.2	100	69.0	65.6		1.03			5.04
	Fonofos	90.5	88.2	77.3	80.2		2.55			3.65
	Hexazinone	104	102	92.6	86.2		2.15			6.54
	Malathion	113	112	107	106		0.407			0.896
	Metalaxyl	96.3	97.2	98.9	95.4		0.868			3.59
	Metolachlor	97.1	96.3	99.9	101		0.808			1.11
	Metribuzin	90.3	96.3	97.8	95.3		6.47			2.60
	Mevinphos	89.8	95.9	86.7	80.2		6.54			7.82

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8270D	Molinate	56.8	56.9	32.9	35.0	0.226	6.12
	Norflurazon	103	107	91.3	84.7	3.16	7.57
	Parathion Ethyl	101	90.1	90.4	94.8	11.2	4.75
	Parathion Methyl	97.4	105	94.0	89.2	7.44	5.26
	Pendimethalin	85.9	84.6	84.8	79.8	1.62	6.07
	Phorate	73.5	85.9	64.0	64.0	15.6	0.0453
	Prometon	89.6	97.2	102	94.4	8.08	7.83
	Prometryn	99.1	98.5	102	97.5	0.611	4.10
	Simazine	113	112	100	104	0.179	3.90
	Terbufos	85.8	90.0	75.8	78.2	4.81	3.13
	Terbutylazine	90.7	91.7	91.7	89.2	1.14	2.79
	Glyphosate	83.0		51.2	47.2		8.13
EPA 8321B	Pyraclostrobin	60.8		75.6	68.0		10.6
SM 2120 B	Color (true)					5.03	
SM 2320 B-97	Total Alkalinity	103				0.378	
SM 2540 C-97	TDS					0.930	
	TDS					0.274	
SM 4500 F-C-97	Fluoride	97.8		96.3	96.8		0.482
SM 5310 B-00	Organic Carbon	100		96.4	96.2		0.286
USGS O-2060-01	2,4,5-T	103		99.2	106		7.00
	2,4-D	115		137	142		3.73
	Acetaminophen	120		42.4	48.8		14.0
	Acifluorfen	127		99.2	99.6		0.402
	Bentazon	126		205	196		3.06
	Carbamazepine	124		56.8	58.8		3.46
	Diuron	68.0		35.0	35.7		1.92
	Fenuron	108		53.6	57.6		7.19
	Fluridone	104		62.0	62.0		0.0
	Imidacloprid	108		134	129		3.66
	Linuron	130		77.6	75.6		2.61
	Primidone	73.6		42.4	42.4		0.0
	Silvex	102		137	145		5.39

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617) / E31780	Organochlorine pesticides (low levels) in water matrices by GC/ECD.	1818105
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1818087, 1818088, 1818089, 1818096
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1818087, 1818088, 1818089, 1818096
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1818087, 1818088, 1818089, 1818096
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1818090, 1818091, 1818092, 1818097
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1818090, 1818091, 1818092, 1818097
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1818090, 1818091, 1818092, 1818097
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1818090, 1818091, 1818092, 1818097
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1818093, 1818094, 1818095, 1818098

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1818106
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1818103
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1818104
SM 2120 B / E31780	True Color measured at 450 nm	1818087, 1818088, 1818089, 1818096
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1818087, 1818088, 1818089, 1818096
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1818087, 1818088, 1818089, 1818096
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1818087, 1818088, 1818089, 1818096
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1818087, 1818088, 1818089, 1818096
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1818090, 1818091, 1818092, 1818097
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1818103
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1818103

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: GC-011-5 (based on EPA 608 and 617)	07/21/2016	07/25/2016	Fe-Val Siddell	08/03/2016	Vandana T. Nagar	1818105
EPA 180.1 Rev. 2.0	07/21/2016			07/21/2016 16:17	Blanca Fach	1818087, 1818088, 1818089, 1818096
EPA 300.0 Rev. 2.1	07/21/2016			08/03/2016	Ping Hua	1818087, 1818088
	07/21/2016			08/04/2016	Ping Hua	1818089, 1818096
EPA 350.1 Rev. 2.0	07/21/2016			07/22/2016	Diana M. Turner	1818090, 1818091, 1818092, 1818097
EPA 351.2 Rev. 2.0	07/21/2016	07/28/2016	Sofia Elnemr	08/01/2016	Christopher Armour	1818090, 1818091, 1818092, 1818097
EPA 353.2 Rev. 2.0	07/21/2016			07/29/2016	Beverly Y. Sanders	1818092, 1818097
	07/21/2016			07/29/2016	Peter D. Kaus	1818090, 1818091
EPA 365.1 Rev. 2.0	07/21/2016	07/27/2016	Vijayalakshmi Reddy	07/28/2016	Lipi Saha	1818090, 1818091, 1818092, 1818097
EPA 365.1 Rev. 2.0 dissolved	07/21/2016			07/21/2016 14:37	Julia Storbeck	1818098
	07/21/2016			07/21/2016 15:25	Julia Storbeck	1818093
	07/21/2016			07/21/2016 15:26	Julia Storbeck	1818094
	07/21/2016			07/21/2016 15:40	Julia Storbeck	1818095
EPA 8270D	07/21/2016	07/26/2016	John Kaba	08/03/2016	Irina Carbone	1818106
EPA 8321B	07/21/2016	07/26/2016	Mohammad Ghaffari	07/26/2016	Mohammad Ghaffari	1818103
	07/21/2016	07/27/2016	Hoor Shaik	07/29/2016	Juyoung Kim	1818104
SM 2120 B	07/21/2016			07/21/2016 16:11	Rochelle Y Jackson	1818087
	07/21/2016			07/21/2016 16:12	Rochelle Y Jackson	1818088
	07/21/2016			07/21/2016 16:13	Rochelle Y Jackson	1818089, 1818096
SM 2320 B-97	07/21/2016			07/28/2016	Dale L. Simmons	1818087, 1818088, 1818089, 1818096
SM 2540 C-97	07/21/2016			07/25/2016	Sima Feizi	1818087, 1818088, 1818089, 1818096
SM 2540 D-97	07/21/2016			07/25/2016	Sima Feizi	1818087, 1818088, 1818089, 1818096
SM 4500 F-C-97	07/21/2016			07/28/2016	Dale L. Simmons	1818087, 1818088, 1818089, 1818096
SM 5310 B-00	07/21/2016			08/01/2016	Sofia Elnemr	1818090, 1818091, 1818092
	07/21/2016			08/02/2016	Sofia Elnemr	1818097
USGS O-2060-01	07/21/2016	07/22/2016	Hoor Shaik	07/24/2016	Juyoung Kim	1818103
	07/21/2016	07/22/2016	Hoor Shaik	07/25/2016	Juyoung Kim	1818103