

Chemical Analysis Report

NW-DIST-2016-04-28-01

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

Event Description: **WBID 24AA 10G 11a 635**

Request ID: **RQ-2016-04-25-65**

Customer: **NW-DIST**

Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 W Government st
Suite 208A
Pensacola, FL 32502-5794
Attn: Michael King

For additional information please contact
Timothy W. Fitzpatrick
Liang-Tsair Lin, Ph.D.
Colin Wright, Ph.D.
Thekkekalathil Chandrasekhar, PhD, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 24-MAY-2016 16:11



Case Narrative

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

Results for the following analytical groups are included in this report: 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: WEST FORK @ HWY 87

Collection Date/Time: 04/27/2016 11:20

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793637	EPA 180.1 Rev. 2.0	Turbidity	3.0	A	NTU	P303203	
	EPA 300.0 Rev. 2.1	Chloride	5.7		mg Cl/L	P303647	
		Sulfate	0.85		mg SO4/L	P303650	
	SM 2120 B	Color (true)	25		PCU	P303186	
	SM 2320 B-97	Total Alkalinity	2.8		mg CaCO3/L	P303986	
	SM 2540 C-97	TDS	36		mg/L	P303909	
	SM 2540 D-97	TSS	3	I	mg/L	P303786	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P303819	
1793641	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P303796	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P304142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.7		mg N/L	P303836	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P303918	
	SM 5310 B-00	Organic Carbon	2.1		mg C/L	P304637	
1793645	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P303176	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: SEVENMILE CREEK UPSTREAM OF QUINTETTE ROAD

Collection Date/Time: 04/27/2016 12:30

Field ID: G4NW0344

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793638	EPA 180.1 Rev. 2.0	Turbidity	0.80		NTU	P303203	
	EPA 300.0 Rev. 2.1	Chloride	6.6		mg Cl/L	P303647	
		Sulfate	0.87		mg SO4/L	P303650	
	SM 2120 B	Color (true)	5.7	I	PCU	P303186	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P303986	
	SM 2540 C-97	TDS	33		mg/L	P303909	
	SM 2540 D-97	TSS	4	I	mg/L	P303786	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P303819	
1793642	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P303796	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P304142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.6		mg N/L	P303836	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P303918	
	SM 5310 B-00	Organic Carbon	0.95	I	mg C/L	P304637	
1793646	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P303176	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: SEVENMILE CREEK UPSTREAM OF ALDERBROOK BLVD.

Collection Date/Time: 04/27/2016 13:00

Field ID: G4NW0345

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793639	EPA 180.1 Rev. 2.0	Turbidity	0.95		NTU	P303203	

Field ID: G4NW0345

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793639	EPA 300.0 Rev. 2.1	Chloride	6.5		mg Cl/L	P303647	
		Sulfate	0.85		mg SO4/L	P303650	
	SM 2120 B	Color (true)	8.2		PCU	P303186	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P303986	
	SM 2540 C-97	TDS	28		mg/L	P303909	
	SM 2540 D-97	TSS	2	I	mg/L	P303786	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P303819	
1793643	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P303796	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.18	I	mg N/L	P304142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.4		mg N/L	P304002	
	EPA 365.1 Rev. 2.0	Total-P	0.003	I	mg P/L	P303918	
	SM 5310 B-00	Organic Carbon	1.1		mg C/L	P304637	
1793647	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P303176	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: CLEAR CREEK UPSTREAM OF PAT BROWN ROAD

Collection Date/Time: 04/27/2016 13:50

Field ID: G4NW0360

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793640	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P303203	
	EPA 300.0 Rev. 2.1	Chloride	3.9		mg Cl/L	P303647	
		Sulfate	0.41	I	mg SO4/L	P303650	
	SM 2120 B	Color (true)	11		PCU	P303186	
	SM 2320 B-97	Total Alkalinity	2.4	I	mg CaCO3/L	P303986	
	SM 2540 C-97	TDS	18	I	mg/L	P303909	
	SM 2540 D-97	TSS	4	I	mg/L	P303786	
1793644	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P303819	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P303796	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21		mg N/L	P304142	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P304002	
	EPA 365.1 Rev. 2.0	Total-P	0.005		mg P/L	P303918	
1793648	SM 5310 B-00	Organic Carbon	1.1		mg C/L	P304637	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P303177	

Ref. Method and Comment:

SM 2540 D-97: The precision data is unavailable due to the low analyte concentration in the QC sample.

Sample Location: WEST FORK @ HWY 87

Collection Date/Time: 04/27/2016 11:20

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793697	EPA 8321B	Glyphosate**	10	U	ug/L	P303155	MS
	USGS O-2060-01	2,4-D	0.0020	U	ug/L	P302924	MS
		Diuron	0.0020	U	ug/L	P302924	
		2,4-DB	0.0020	U	ug/L	P302924	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793697	USGS O-2060-01	Fenuron	0.0080	U	ug/L	P302924	
		2,4,5-T	0.0020	U	ug/L	P302924	
		Acifluorfen	0.0020	U	ug/L	P302924	
		Imidacloprid	0.0040	U	ug/L	P302924	MS
		Bentazon	0.0070	I	ug/L	P302924	
		Linuron	0.0040	U	ug/L	P302924	
		Dichlorprop	0.0020	U	ug/L	P302924	
		Dinoseb	0.020	U	ug/L	P302924	
		MCPA	0.0040	U	ug/L	P302924	
		MCP	0.0040	U	ug/L	P302924	
		Silvex	0.0020	U	ug/L	P302924	MS
1793698	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P303153	
1793711	DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	0.0020	U	ug/L	P303450	
		Alpha-BHC	0.0020	U	ug/L	P303450	
		Beta-BHC	0.0020	U	ug/L	P303450	
		Delta-BHC	0.0020	U	ug/L	P303450	
		Gamma-BHC	0.0020	U	ug/L	P303450	
		Carbophenothion	0.0060	UJ	ug/L	P303450	CCV
		Chlorothalonil	0.0080	UJ	ug/L	P303450	CCV
		Cypermethrin	0.012	UJ	ug/L	P303450	CCV
		DDD-p,p'	0.0040	U	ug/L	P303450	
		DDE-p,p'	0.0040	U	ug/L	P303450	
		DDT-p,p'	0.0040	U	ug/L	P303450	
		Dicofol	0.024	UJ	ug/L	P303450	CCV
		Dieldrin	0.0020	U	ug/L	P303450	
		Endosulfan I	0.0020	U	ug/L	P303450	
		Endosulfan II	0.0020	U	ug/L	P303450	
		Endosulfan Sulfate	0.0040	U	ug/L	P303450	
		Endrin	0.0040	U	ug/L	P303450	
		Endrin Aldehyde	0.0040	U	ug/L	P303450	
		Heptachlor	0.0020	U	ug/L	P303450	
		Heptachlor Epoxide	0.0020	U	ug/L	P303450	
		Methoxychlor	0.010	U	ug/L	P303450	
		Mirex	0.0040	UJ	ug/L	P303450	CCV
		Permethrin	0.010	UJ	ug/L	P303450	CCV
1793712	EPA 8270D	Ametryn**	0.32	U	ng/L	P303196	
		Atrazine**	0.84	I	ng/L	P303196	
		Chlorpyrifos Ethyl**	0.10	U	ng/L	P303196	
		Chlorpyrifos Methyl**	0.10	U	ng/L	P303196	
		Disulfoton**	0.32	U	ng/L	P303196	
		Ethion**	0.15	U	ng/L	P303196	
		Ethoprop**	0.10	U	ng/L	P303196	
		Hexazinone**	4.1		ng/L	P303196	
		Malathion**	0.35	U	ng/L	P303196	

Field ID: G4NW0017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1793712	EPA 8270D	Metribuzin**	0.20	U	ng/L	P303196	
		Mevinphos**	0.50	U	ng/L	P303196	
		Norflurazon**	1.4	I	ng/L	P303196	
		Phorate**	0.25	U	ng/L	P303196	
		Prometryn**	0.20	U	ng/L	P303196	
		Simazine**	0.50	U	ng/L	P303196	
		Atrazine Desethyl**	1.5	U	ng/L	P303196	
		Prometon**	0.90	U	ng/L	P303196	
		Fipronil**	0.25	U	ng/L	P303196	
		Molinate**	0.30	U	ng/L	P303196	MS
		Pendimethalin**	2.1	I	ng/L	P303196	
		Terbufos**	0.10	U	ng/L	P303196	
		EPTC**	1.2	U	ng/L	P303196	MS
		Terbuthylazine**	0.42	U	ng/L	P303196	
		Bromacil**	1.4	I	ng/L	P303196	
		Fipronil Sulfide**	0.15	U	ng/L	P303196	
		Fipronil Sulfone**	0.15	U	ng/L	P303196	
		Alachlor**	1.9		ng/L	P303196	
		Azinphos Methyl**	2.2	U	ng/L	P303196	
		Butylate**	0.40	U	ng/L	P303196	
		Demeton**	1.0	U	ng/L	P303196	
		Diazinon**	0.12	U	ng/L	P303196	
		Fenamiphos**	0.25	U	ng/L	P303196	
		Fonofos**	0.20	U	ng/L	P303196	
		Metalaxyl**	0.24	I	ng/L	P303196	MS
		Metolachlor**	9.2		ng/L	P303196	
		Acetochlor**	0.25	U	ng/L	P303196	
		Cyanazine**	0.50	UJ	ng/L	P303196	CCV, LCS
		Parathion Ethyl**	0.25	U	ng/L	P303196	
		Parathion Methyl**	0.25	U	ng/L	P303196	

Ref. Method and Comment:

USGS O-2060-01: MS accuracy for bentazon could not be assessed due to high concentration of parameter in the spiked sample.

DEP SOP: GC-011-5 (based on EPA 608 and 617): Refer to the narrative for an explanation of QC Codes.

EPA 8270D: MS accuracy for Atrazine, Ametryn and Metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

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

Batch ID: P303450

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

Quality Assurance Report Method Blank Results

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

Batch ID: P303450

Component	Result	Code	Units
DDD-p,p'	0.0040	U	ug/L
DDE-p,p'	0.0040	U	ug/L
DDT-p,p'	0.0040	U	ug/L
Delta-BHC	0.0020	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
Gamma-BHC	0.0020	U	ug/L
Heptachlor	0.0020	U	ug/L
Heptachlor Epoxide	0.0020	U	ug/L
Methoxychlor	0.010	U	ug/L
Mirex	0.0040	U	ug/L
Permethrin	0.010	U	ug/L

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P303203

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P303647

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P303650

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P303796

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P304142

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P303836

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P303836

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304002

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P303918

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303176

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303177

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

Reference Method: EPA 8270D
Batch ID: P303196

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	0.10	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P303196

Component	Result	Code	Units
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

Reference Method: EPA 8321B
Batch ID: P303153

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P303155

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P303186

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P303986

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

Reference Method: SM 2540 C-97
Batch ID: P303909

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P303786

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P303786

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P303819

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P304637

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

Reference Method: USGS O-2060-01
Batch ID: P302924

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0020	U	ug/L
2,4-DB	0.0020	U	ug/L
Acifluorfen	0.0020	U	ug/L
Bentazon	0.0020	U	ug/L
Dichlorprop	0.0020	U	ug/L
Dinoseb	0.020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.0080	U	ug/L
Imidacloprid	0.0040	U	ug/L
Linuron	0.0040	U	ug/L
MCPA	0.0040	U	ug/L
MCPP	0.0040	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: P303450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	87.2	94.5	P/P	70 - 130
Alpha-BHC	97.5	109	P/P	70 - 130
Beta-BHC	113	123	P/P	70 - 130
DDD-p,p'	89.8	105	P/P	70 - 130
DDE-p,p'	88.9	101	P/P	70 - 130
DDT-p,p'	94.9	109	P/P	70 - 130
Delta-BHC	93.7	105	P/P	70 - 130
Dieldrin	86.3	97.0	P/P	70 - 130
Endosulfan I	90.6	102	P/P	70 - 130
Endosulfan II	92.9	106	P/P	70 - 130
Endosulfan Sulfate	97.2	107	P/P	70 - 130

Quality Assurance Report Laboratory Control Sample Accuracy

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

Batch ID: P303450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	101	119	P/P	81 - 147
Endrin Aldehyde	85.5	95.9	P/P	70 - 130
Gamma-BHC	93.0	101	P/P	70 - 130
Heptachlor	107	116	P/P	70 - 130
Heptachlor Epoxide	91.8	103	P/P	70 - 130
Methoxychlor	105	122	P/P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P303647

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

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P303650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	97.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P303796

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P304142

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P303836

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P304002

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P303918

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303176

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303177

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

Reference Method: EPA 8270D
Batch ID: P303196

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	101	89.8	P/P	84 - 119
Alachlor	101	91.1	P/P	84 - 121
Ametryn	108	104	P/P	66 - 127
Atrazine	104	93.5	P/P	72 - 119
Atrazine Desethyl	73.6	58.4	P/P	21 - 111
Azinphos Methyl	144	126	P/P	79 - 185
Bromacil	73.8	62.1	P/P	39 - 122
Butylate	57.9	55.8	P/P	36 - 94.0
Chlorpyrifos Ethyl	92.0	83.1	P/P	54 - 101
Chlorpyrifos Methyl	86.9	77.6	P/P	28 - 114
Cyanazine	214	183	F/P	58 - 201
Demeton	69.0	63.1	P/P	57 - 130
Diazinon	96.7	90.9	P/P	79 - 124
Disulfoton	95.0	78.9	P/P	45 - 140
EPTC	55.5	55.1	P/P	43 - 95.0
Ethion	95.8	87.7	P/P	65 - 125
Ethoprop	82.1	75.9	P/P	69 - 107
Fenamiphos	104	95.8	P/P	78 - 129
Fipronil	86.6	77.4	P/P	62 - 125
Fipronil Sulfide	75.6	69.2	P/P	65 - 119
Fipronil Sulfone	72.1	66.9	P/P	64 - 122
Fonofos	83.0	76.3	P/P	70 - 112
Hexazinone	105	90.1	P/P	44 - 147
Malathion	104	85.9	P/P	72 - 125
Metaxyl	93.0	85.1	P/P	83 - 113
Metolachlor	100	89.8	P/P	85 - 120
Metribuzin	109	91.7	P/P	68 - 129
Mevinphos	73.8	71.1	P/P	35 - 125
Molinate	66.4	64.3	P/P	51 - 100
Norflurazon	90.3	84.4	P/P	66 - 127
Parathion Ethyl	94.5	89.2	P/P	86 - 108
Parathion Methyl	103	98.3	P/P	87 - 125
Pendimethalin	81.0	75.8	P/P	53 - 136
Phorate	83.3	80.4	P/P	52 - 113
Prometon	96.3	87.2	P/P	67 - 125
Prometryn	99.2	85.5	P/P	73 - 114
Simazine	101	94.3	P/P	66 - 123
Terbufos	87.8	78.0	P/P	58 - 116
Terbutylazine	96.2	84.8	P/P	77 - 113

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
 Batch ID: P303153

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	106		P	40 - 140

Reference Method: EPA 8321B
 Batch ID: P303155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	116		P	40 - 140

Reference Method: SM 2320 B-97
 Batch ID: P303986

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

Reference Method: SM 4500 F-C-97
 Batch ID: P303819

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.0		P	92 - 103

Reference Method: SM 5310 B-00
 Batch ID: P304637

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	97.6		P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P302924

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	102	89.6	P/P	40 - 140
2,4-D	107	108	P/P	40 - 140
2,4-DB	81.6	74.4	P/P	40 - 140
Acifluorfen	98.8	105	P/P	40 - 140
Bentazon	86.4	85.2	P/P	40 - 140
Dichlorprop	106	99.6	P/P	40 - 140
Dinoseb	102	102	P/P	40 - 140
Diuron	112	131	P/P	40 - 140
Fenuron	114	120	P/P	40 - 140
Imidacloprid	129	125	P/P	40 - 160
Linuron	110	112	P/P	40 - 140
MCPA	98.0	95.2	P/P	40 - 140
MCPP	105	96.4	P/P	40 - 140
Silvex	116	114	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P303450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1794476	Aldrin	89.2	95.2	P/P	70 - 130
1794476	Alpha-BHC	103	96.7	P/P	70 - 130
1794476	Beta-BHC	108	104	P/P	70 - 130
1794476	DDD-p,p'	96.5	97.4	P/P	70 - 130
1794476	DDE-p,p'	94.9	95.2	P/P	70 - 130
1794476	DDT-p,p'	102	104	P/P	70 - 130
1794476	Delta-BHC	98.7	98.5	P/P	70 - 130
1794476	Dieldrin	91.9	92.0	P/P	70 - 130
1794476	Endosulfan I	95.7	95.7	P/P	70 - 130
1794476	Endosulfan II	99.2	101	P/P	70 - 130
1794476	Endosulfan Sulfate	101	103	P/P	70 - 130
1794476	Endrin	110	111	P/P	81 - 147
1794476	Endrin Aldehyde	87.7	94.1	P/P	70 - 130
1794476	Gamma-BHC	96.1	89.4	P/P	70 - 130
1794476	Heptachlor	110	119	P/P	70 - 130
1794476	Heptachlor Epoxide	97.4	97.2	P/P	70 - 130
1794476	Methoxychlor	114	117	P/P	86 - 145

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P303647

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793603	Chloride	101		P	90 - 110
1793617	Chloride	98.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P303650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793603	Sulfate	95.7		P	90 - 110
1793617	Sulfate	96.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303796

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793622	Ammonia-N	100	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304142

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793321	Kjeldahl Nitrogen	83.0	82.3	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P303836

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1792994	NO2NO3-N	99.0	99.6	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P304002

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793651	NO2NO3-N	94.5	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P303918

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793641	Total-P	98.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P303176

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793626	O-Phosphate-P	101	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P303177

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793731	O-Phosphate-P	100	102	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P303196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1792870	Acetochlor	90.9	96.5	P/P	84 - 119
1792870	Alachlor	89.5	99.8	P/P	84 - 121
1792870	Atrazine Desethyl	46.5	46.1	P/P	21 - 111
1792870	Azinphos Methyl	131	130	P/P	79 - 185
1792870	Bromacil	87.1	85.2	P/P	39 - 122
1792870	Butylate	42.1	36.8	P/P	36 - 94.0
1792870	Chlorpyrifos Ethyl	78.4	92.8	P/P	54 - 101
1792870	Chlorpyrifos Methyl	78.6	81.6	P/P	28 - 114
1792870	Cyanazine	163	172	P/P	58 - 201
1792870	Demeton	63.0	72.1	P/P	57 - 130
1792870	Diazinon	88.4	90.5	P/P	79 - 124
1792870	Disulfoton	83.7	79.5	P/P	45 - 140
1792870	EPTC	37.5	30.8	F/F	43 - 95.0
1792870	Ethion	100	104	P/P	65 - 125
1792870	Ethoprop	71.4	74.7	P/P	69 - 107
1792870	Fenamiphos	93.7	95.3	P/P	78 - 129
1792870	Fipronil	80.4	81.5	P/P	62 - 125
1792870	Fipronil Sulfide	73.0	73.1	P/P	65 - 119
1792870	Fipronil Sulfone	66.2	65.8	P/P	64 - 122
1792870	Fonofos	75.5	77.2	P/P	70 - 112
1792870	Hexazinone	98.4	101	P/P	44 - 147
1792870	Malathion	95.2	99.5	P/P	72 - 125
1792870	Metalaxyl	82.5	89.8	F/P	83 - 113
1792870	Metolachlor	90.4	98.1	P/P	85 - 120
1792870	Mevinphos	61.7	63.8	P/P	35 - 125
1792870	Molinate	47.1	43.9	F/F	51 - 100
1792870	Norflurazon	74.9	77.2	P/P	66 - 127
1792870	Parathion Ethyl	88.4	89.2	P/P	86 - 108

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P303196

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1792870	Parathion Methyl	104	99.9	P/P	87 - 125
1792870	Pendimethalin	80.2	81.4	P/P	53 - 136
1792870	Phorate	64.4	72.3	P/P	52 - 113
1792870	Prometon	101	91.6	P/P	67 - 125
1792870	Prometryn	90.5	95.9	P/P	73 - 114
1792870	Simazine	106	104	P/P	66 - 123
1792870	Terbufos	74.3	78.2	P/P	58 - 116
1792870	Terbutylazine	87.5	94.6	P/P	77 - 113

Reference Method: EPA 8321B
Batch ID: P303153

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793698	Pyraclostrobin	138	138	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P303155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1792633	Glyphosate	33.0	35.4	F/F	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P303819

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793618	Fluoride	95.6	95.6	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P304637

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1793556	Organic Carbon	95.9	97.6	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P302924

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1792860	2,4,5-T	106	107	P/P	40 - 140
1792860	2,4-D	154	154	F/F	40 - 140
1792860	2,4-DB	72.0	71.2	P/P	40 - 140
1792860	Acifluorfen	93.6	93.6	P/P	40 - 140
1792860	Dichlorprop	139	136	P/P	40 - 140
1792860	Dinoseb	101	105	P/P	40 - 140
1792860	Diuron	67.2	64.4	P/P	40 - 140
1792860	Fenuron	62.8	61.2	P/P	40 - 140
1792860	Imidacloprid	232	222	F/F	40 - 160
1792860	Linuron	86.8	81.2	P/P	40 - 140
1792860	MCPA	118	116	P/P	40 - 140
1792860	MCPP	122	124	P/P	40 - 140
1792860	Silvex	139	146	P/F	40 - 140

Quality Assurance Report Precision

Reference Method: DEP SOP: GC-011-5 (based on EPA 608 and 617)
Batch ID: P303450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1794476	Aldrin	6.51	Spike	P	0 - 30
1794476	Alpha-BHC	6.75	Spike	P	0 - 30
1794476	Beta-BHC	4.38	Spike	P	0 - 30
1794476	DDD-p,p'	0.895	Spike	P	0 - 30
1794476	DDE-p,p'	0.342	Spike	P	0 - 30
1794476	DDT-p,p'	2.78	Spike	P	0 - 30
1794476	Delta-BHC	0.170	Spike	P	0 - 30
1794476	Dieldrin	0.104	Spike	P	0 - 30
1794476	Endosulfan I	0.0345	Spike	P	0 - 30
1794476	Endosulfan II	1.66	Spike	P	0 - 30
1794476	Endosulfan Sulfate	2.61	Spike	P	0 - 30
1794476	Endrin	1.03	Spike	P	0 - 30
1794476	Endrin Aldehyde	7.09	Spike	P	0 - 30
1794476	Gamma-BHC	7.22	Spike	P	0 - 30
1794476	Heptachlor	8.11	Spike	P	0 - 30
1794476	Heptachlor Epoxide	0.223	Spike	P	0 - 30
1794476	Methoxychlor	2.91	Spike	P	0 - 30
LFB	Aldrin	8.00	LCS	P	0 - 30
LFB	Alpha-BHC	10.9	LCS	P	0 - 30
LFB	Beta-BHC	8.84	LCS	P	0 - 30
LFB	DDD-p,p'	15.3	LCS	P	0 - 30
LFB	DDE-p,p'	13.0	LCS	P	0 - 30
LFB	DDT-p,p'	13.6	LCS	P	0 - 30
LFB	Delta-BHC	11.5	LCS	P	0 - 30
LFB	Dieldrin	11.7	LCS	P	0 - 30
LFB	Endosulfan I	11.9	LCS	P	0 - 30
LFB	Endosulfan II	13.0	LCS	P	0 - 30
LFB	Endosulfan Sulfate	9.82	LCS	P	0 - 30
LFB	Endrin	17.2	LCS	P	0 - 30
LFB	Endrin Aldehyde	11.5	LCS	P	0 - 30
LFB	Gamma-BHC	8.63	LCS	P	0 - 30
LFB	Heptachlor	7.92	LCS	P	0 - 30
LFB	Heptachlor Epoxide	11.9	LCS	P	0 - 30
LFB	Methoxychlor	14.6	LCS	P	0 - 30

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P303203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793637	Turbidity	0.671	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P303647

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793617	Chloride	0.115	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P303650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793617	Sulfate	0.406	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P303796

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793622	Ammonia-N	1.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P304142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793321	Kjeldahl Nitrogen	0.489	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P303836

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1792994	NO2NO3-N	0.477	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P304002

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793651	NO2NO3-N	2.05	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P303918

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793641	Total-P	0.966	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303176

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793626	O-Phosphate-P	1.48	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P303177

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793731	O-Phosphate-P	1.97	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P303196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1792870	Acetochlor	5.94	Spike	P	0 - 30
1792870	Alachlor	10.9	Spike	P	0 - 30
1792870	Ametryn	3.37	Spike	P	0 - 30
1792870	Atrazine	8.90	Spike	P	0 - 30
1792870	Atrazine Desethyl	0.450	Spike	P	0 - 30
1792870	Azinphos Methyl	1.17	Spike	P	0 - 30
1792870	Bromacil	2.28	Spike	P	0 - 30
1792870	Butylate	13.3	Spike	P	0 - 30
1792870	Chlorpyrifos Ethyl	16.8	Spike	P	0 - 30
1792870	Chlorpyrifos Methyl	3.75	Spike	P	0 - 30
1792870	Cyanazine	5.75	Spike	P	0 - 30
1792870	Demeton	13.4	Spike	P	0 - 30
1792870	Diazinon	2.29	Spike	P	0 - 30
1792870	Disulfoton	5.15	Spike	P	0 - 30
1792870	EPTC	19.6	Spike	P	0 - 30
1792870	Ethion	3.40	Spike	P	0 - 30
1792870	Ethoprop	4.57	Spike	P	0 - 30
1792870	Fenamiphos	1.64	Spike	P	0 - 30
1792870	Fipronil	1.43	Spike	P	0 - 30
1792870	Fipronil Sulfide	0.0541	Spike	P	0 - 30
1792870	Fipronil Sulfone	0.664	Spike	P	0 - 30
1792870	Fonofos	2.24	Spike	P	0 - 30
1792870	Hexazinone	2.32	Spike	P	0 - 30
1792870	Malathion	4.51	Spike	P	0 - 30
1792870	Metaxyl	8.22	Spike	P	0 - 30
1792870	Metolachlor	7.81	Spike	P	0 - 30
1792870	Metribuzin	5.95	Spike	P	0 - 30
1792870	Mevinphos	3.38	Spike	P	0 - 30
1792870	Molinate	6.95	Spike	P	0 - 30
1792870	Norflurazon	2.94	Spike	P	0 - 30
1792870	Parathion Ethyl	0.848	Spike	P	0 - 30
1792870	Parathion Methyl	4.45	Spike	P	0 - 30
1792870	Pendimethalin	1.56	Spike	P	0 - 30
1792870	Phorate	11.5	Spike	P	0 - 30
1792870	Prometon	9.59	Spike	P	0 - 30
1792870	Prometryn	5.32	Spike	P	0 - 30
1792870	Simazine	2.21	Spike	P	0 - 30
1792870	Terbufos	5.14	Spike	P	0 - 30
1792870	Terbuthylazine	7.73	Spike	P	0 - 30
LFB	Acetochlor	12.0	LCS	P	0 - 30
LFB	Alachlor	10.6	LCS	P	0 - 30
LFB	Ametryn	3.40	LCS	P	0 - 30
LFB	Atrazine	10.8	LCS	P	0 - 30
LFB	Atrazine Desethyl	23.1	LCS	P	0 - 30
LFB	Azinphos Methyl	13.5	LCS	P	0 - 30
LFB	Bromacil	17.1	LCS	P	0 - 30
LFB	Butylate	3.76	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	10.2	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	11.3	LCS	P	0 - 30
LFB	Cyanazine	15.5	LCS	P	0 - 30
LFB	Demeton	8.95	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P303196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Diazinon	6.14	LCS	P	0 - 30
LFB	Disulfoton	18.5	LCS	P	0 - 30
LFB	EPTC	0.745	LCS	P	0 - 30
LFB	Ethion	8.85	LCS	P	0 - 30
LFB	Ethoprop	7.78	LCS	P	0 - 30
LFB	Fenamiphos	8.16	LCS	P	0 - 30
LFB	Fipronil	11.1	LCS	P	0 - 30
LFB	Fipronil Sulfide	8.96	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.52	LCS	P	0 - 30
LFB	Fonofos	8.34	LCS	P	0 - 30
LFB	Hexazinone	14.9	LCS	P	0 - 30
LFB	Malathion	19.0	LCS	P	0 - 30
LFB	Metaxyl	8.93	LCS	P	0 - 30
LFB	Metolachlor	11.3	LCS	P	0 - 30
LFB	Metribuzin	17.3	LCS	P	0 - 30
LFB	Mevinphos	3.74	LCS	P	0 - 30
LFB	Molinate	3.12	LCS	P	0 - 30
LFB	Norflurazon	6.79	LCS	P	0 - 30
LFB	Parathion Ethyl	5.79	LCS	P	0 - 30
LFB	Parathion Methyl	4.88	LCS	P	0 - 30
LFB	Pendimethalin	6.60	LCS	P	0 - 30
LFB	Phorate	3.57	LCS	P	0 - 30
LFB	Prometon	9.89	LCS	P	0 - 30
LFB	Prometryn	14.8	LCS	P	0 - 30
LFB	Simazine	6.96	LCS	P	0 - 30
LFB	Terbufos	11.7	LCS	P	0 - 30
LFB	Terbutylazine	12.6	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P303153

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793698	Pyraclostrobin	0.0	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P303155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1792633	Glyphosate	7.02	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P303186

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793617	Color (true)	1.56	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P303986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793618	Total Alkalinity	0.134	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
 Batch ID: P303909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793650	TDS	2.19	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P303819

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793618	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P304637

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1793556	Organic Carbon	1.58	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P302924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1792860	2,4,5-T	0.375	Spike	P	0 - 30
1792860	2,4-D	0.519	Spike	P	0 - 30
1792860	2,4-DB	1.12	Spike	P	0 - 30
1792860	Acifluorfen	0.0	Spike	P	0 - 30
1792860	Bentazon	7.69	Spike	P	0 - 30
1792860	Dichlorprop	2.04	Spike	P	0 - 30
1792860	Dinoseb	3.88	Spike	P	0 - 30
1792860	Diuron	4.26	Spike	P	0 - 30
1792860	Fenuron	2.58	Spike	P	0 - 30
1792860	Imidacloprid	4.59	Spike	P	0 - 30
1792860	Linuron	6.67	Spike	P	0 - 30
1792860	MCPA	1.71	Spike	P	0 - 30
1792860	MCP	1.95	Spike	P	0 - 30
1792860	Silvex	5.06	Spike	P	0 - 30
LFB	2,4,5-T	12.6	LCS	P	0 - 30
LFB	2,4-D	1.11	LCS	P	0 - 30
LFB	2,4-DB	9.23	LCS	P	0 - 30
LFB	Acifluorfen	6.27	LCS	P	0 - 30
LFB	Bentazon	1.40	LCS	P	0 - 30
LFB	Dichlorprop	5.85	LCS	P	0 - 30
LFB	Dinoseb	0.0	LCS	P	0 - 30
LFB	Diuron	16.1	LCS	P	0 - 30
LFB	Fenuron	5.48	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P302924

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Imidacloprid	2.83	LCS	P	0 - 30
LFB	Linuron	1.08	LCS	P	0 - 30
LFB	MCPA	2.90	LCS	P	0 - 30
LFB	MCP	8.73	LCS	P	0 - 30
LFB	Silvex	1.73	LCS	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: 1793697
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	113	P	50 - 150
USGS O-2060-01	2,4-D-d3	103	P	40 - 150
USGS O-2060-01	Diuron-d6	123	P	40 - 150

Lab Sample ID: 1793698
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	105	P	40 - 150

Lab Sample ID: 1793711
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Decachlorobiphenyl	77.8	P	44 - 128

Lab Sample ID: 1793712
Field Sample ID: G4NW0017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	95.3	P	67 - 131
EPA 8270D	Simazine-d10	98.9	P	75 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A69156
Included Lab Sample IDs: 1793645, 1793646, 1793647, 1793648

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A69157

Included Lab Sample IDs: 1793637, 1793638, 1793639, 1793640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.7	100	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A69165

Included Lab Sample IDs: 1793637, 1793638, 1793639, 1793640

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

Reference Method: EPA 8321B

Run ID: A69170

Included Lab Sample IDs: 1793697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	88.4	105	P/P	70 - 130

Reference Method: USGS O-2060-01

Run ID: A69216

Included Lab Sample IDs: 1793697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	93.6	104	P/P	60 - 150
Fenuron	114	116	P/P	60 - 150
Imidacloprid	130	128	P/P	60 - 150
Linuron	115	118	P/P	60 - 150

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A69217

Included Lab Sample IDs: 1793637, 1793638, 1793639, 1793640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	102	102	P/P	90 - 110
Sulfate	101	98.9	P/P	90 - 110
Sulfate	98.9	101	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A69227

Included Lab Sample IDs: 1793697

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	92.4	92.0	P/P	50 - 150
2,4-D	103	102	P/P	50 - 150
2,4-DB	88.4	88.8	P/P	50 - 150
Acifluorfen	109	111	P/P	50 - 150
Bentazon	85.4	85.2	P/P	50 - 150
Dichlorprop	95.8	98.4	P/P	50 - 150
Dinoseb	97.0	95.4	P/P	50 - 150
MCPA	97.2	104	P/P	50 - 150
MCP	99.2	105	P/P	50 - 150
Silvex	110	114	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A69296

Included Lab Sample IDs: 1793698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	101	108	P/P	60 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A69333

Included Lab Sample IDs: 1793641, 1793642, 1793643, 1793644

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

Reference Method: SM 4500 F-C-97

Run ID: A69345

Included Lab Sample IDs: 1793637, 1793638, 1793639, 1793640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	97.0	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A69353

Included Lab Sample IDs: 1793641, 1793642

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A69390

Included Lab Sample IDs: 1793712

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.2		P	80 - 120
Alachlor	98.3		P	80 - 120
Ametryn	95.3		P	80 - 120
Atrazine	95.9		P	80 - 120
Atrazine Desethyl	92.9		P	80 - 120
Azinphos Methyl	94.7		P	80 - 120
Bromacil	99.0		P	80 - 120
Butylate	102		P	80 - 120
Chlorpyrifos Ethyl	98.4		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Cyanazine	120*		F	80 - 120
Demeton	96.3		P	80 - 120
Diazinon	93.4		P	80 - 120
Disulfoton	95.9		P	80 - 120
EPTC	100		P	80 - 120
Ethion	97.8		P	80 - 120
Ethoprop	98.4		P	80 - 120
Fenamiphos	101		P	80 - 120
Fipronil	91.2		P	80 - 120
Fipronil Sulfide	95.3		P	80 - 120
Fipronil Sulfone	95.1		P	80 - 120
Fonofos	94.1		P	80 - 120
Hexazinone	99.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A69390

Included Lab Sample IDs: 1793712

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Malathion	94.7		P	80 - 120
Metalaxyl	95.5		P	80 - 120
Metolachlor	98.9		P	80 - 120
Metribuzin	92.9		P	80 - 120
Mevinphos	94.9		P	80 - 120
Molinate	98.9		P	80 - 120
Norflurazon	94.8		P	80 - 120
Parathion Ethyl	98.1		P	80 - 120
Parathion Methyl	97.9		P	80 - 120
Pendimethalin	92.5		P	80 - 120
Phorate	97.8		P	80 - 120
Prometon	102		P	80 - 120
Prometryn	97.4		P	80 - 120
Simazine	95.0		P	80 - 120
Terbufos	97.5		P	80 - 120
Terbutylazine	97.3		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A69399

Included Lab Sample IDs: 1793637, 1793638, 1793639, 1793640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	99.0	P/P	90 - 110
Total Alkalinity	99.1	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A69407

Included Lab Sample IDs: 1793643, 1793644

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A69422

Included Lab Sample IDs: 1793641, 1793642, 1793643, 1793644

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

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

Run ID: A69458

Included Lab Sample IDs: 1793711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101	102	P/P	85 - 115
Alpha-BHC	112	112	P/P	85 - 115
Beta-BHC	102	102	P/P	85 - 115
Carbophenothion	94.4	115*	P/F	90 - 110
Chlorothalonil	87.4*	107	F/P	90 - 110
Cypermethrin	95.5	116*	P/F	85 - 115
DDD-p,p'	102	102	P/P	85 - 115

Quality Assurance Report Calibration Verification

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

Run ID: A69458

Included Lab Sample IDs: 1793711

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDE-p,p'	101	102	P/P	85 - 115
DDT-p,p'	103	101	P/P	85 - 115
Delta-BHC	94.4	94.2	P/P	85 - 115
Dicofol	117*	105	F/P	90 - 110
Dieldrin	102	102	P/P	85 - 115
Endosulfan I	102	102	P/P	85 - 115
Endosulfan II	103	103	P/P	85 - 115
Endosulfan Sulfate	101	100	P/P	85 - 115
Endrin	101	94.2	P/P	85 - 115
Endrin Aldehyde	103	106	P/P	85 - 115
Gamma-BHC	103	103	P/P	85 - 115
Heptachlor	102	104	P/P	85 - 115
Heptachlor Epoxide	102	103	P/P	85 - 115
Methoxychlor	107	106	P/P	90 - 110
Mirex	95.3	112*	P/F	90 - 110
Permethrin	95.4	113*	P/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A69472

Included Lab Sample IDs: 1793641, 1793642, 1793643, 1793644

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.2	95.1	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A69584

Included Lab Sample IDs: 1793641, 1793642, 1793643, 1793644

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.7	98.2	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 SMP	MS
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Aldrin	87.2	94.5	89.2	95.2	8.00		6.51
	Alpha-BHC	97.5	109	103	96.7	10.9		6.75
	Beta-BHC	113	123	108	104	8.84		4.38
	DDD-p,p'	89.8	105	96.5	97.4	15.3		0.895
	DDE-p,p'	88.9	101	94.9	95.2	13.0		0.342
	DDT-p,p'	94.9	109	102	104	13.6		2.78
	Delta-BHC	93.7	105	98.7	98.5	11.5		0.170
	Dieldrin	86.3	97.0	91.9	92.0	11.7		0.104
	Endosulfan I	90.6	102	95.7	95.7	11.9		0.0345

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
DEP SOP: GC-011-5 (based on EPA 608 and 617)	Endosulfan II	92.9	106	99.2	101	13.0		1.66
	Endosulfan Sulfate	97.2	107	101	103	9.82		2.61
	Endrin	101	119	110	111	17.2		1.03
	Endrin Aldehyde	85.5	95.9	87.7	94.1	11.5		7.09
	Gamma-BHC	93.0	101	96.1	89.4	8.63		7.22
	Heptachlor	107	116	110	119	7.92		8.11
	Heptachlor Epoxide	91.8	103	97.4	97.2	11.9		0.223
	Methoxychlor	105	122	114	117	14.6		2.91
EPA 180.1 Rev. 2.0	Turbidity						0.671	
EPA 300.0 Rev. 2.1	Chloride	100		98.5	101		0.115	
	Sulfate	97.5		96.8	95.7		0.406	
EPA 350.1 Rev. 2.0	Ammonia-N	102		100	102			1.13
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106		83.0	82.3			0.489
EPA 353.2 Rev. 2.0	NO2NO3-N	101		99.0	99.6			0.477
	NO2NO3-N	100		94.5	96.5			2.05
EPA 365.1 Rev. 2.0	Total-P	101		98.4	99.4			0.966
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	101		101	102			1.48
	O-Phosphate-P	105		100	102			1.97
EPA 8270D	Acetochlor	101	89.8	90.9	96.5	12.0		5.94
	Alachlor	101	91.1	89.5	99.8	10.6		10.9
	Ametryn	108	104			3.40		3.37
	Atrazine	104	93.5			10.8		8.90
	Atrazine Desethyl	73.6	58.4	46.5	46.1	23.1		0.450
	Azinphos Methyl	144	126	131	130	13.5		1.17
	Bromacil	73.8	62.1	87.1	85.2	17.1		2.28
	Butylate	57.9	55.8	42.1	36.8	3.76		13.3
	Chlorpyrifos Ethyl	92.0	83.1	78.4	92.8	10.2		16.8
	Chlorpyrifos Methyl	86.9	77.6	78.6	81.6	11.3		3.75
	Cyanazine	214	183	163	172	15.5		5.75
	Demeton	69.0	63.1	63.0	72.1	8.95		13.4
	Diazinon	96.7	90.9	88.4	90.5	6.14		2.29
	Disulfoton	95.0	78.9	83.7	79.5	18.5		5.15
	EPTC	55.5	55.1	37.5	30.8	0.745		19.6
	Ethion	95.8	87.7	100	104	8.85		3.40
	Ethoprop	82.1	75.9	71.4	74.7	7.78		4.57
	Fenamiphos	104	95.8	93.7	95.3	8.16		1.64
	Fipronil	86.6	77.4	80.4	81.5	11.1		1.43
	Fipronil Sulfide	75.6	69.2	73.0	73.1	8.96		0.0541
	Fipronil Sulfone	72.1	66.9	66.2	65.8	7.52		0.664
	Fonofos	83.0	76.3	75.5	77.2	8.34		2.24
	Hexazinone	105	90.1	98.4	101	14.9		2.32
	Malathion	104	85.9	95.2	99.5	19.0		4.51
	Metaxyl	93.0	85.1	82.5	89.8	8.93		8.22
	Metolachlor	100	89.8	90.4	98.1	11.3		7.81
	Metribuzin	109	91.7			17.3		5.95
	Mevinphos	73.8	71.1	61.7	63.8	3.74		3.38
	Molinate	66.4	64.3	47.1	43.9	3.12		6.95
	Norflurazon	90.3	84.4	74.9	77.2	6.79		2.94
	Parathion Ethyl	94.5	89.2	88.4	89.2	5.79		0.848
	Parathion Methyl	103	98.3	104	99.9	4.88		4.45
	Pendimethalin	81.0	75.8	80.2	81.4	6.60		1.56
	Phorate	83.3	80.4	64.4	72.3	3.57		11.5
	Prometon	96.3	87.2	101	91.6	9.89		9.59

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8270D	Prometryn	99.2	85.5	90.5	95.9	14.8	5.32
	Simazine	101	94.3	106	104	6.96	2.21
	Terbufos	87.8	78.0	74.3	78.2	11.7	5.14
	Terbutylazine	96.2	84.8	87.5	94.6	12.6	7.73
EPA 8321B	Glyphosate	116		33.0	35.4		7.02
	Pyraclostrobin	106		138	138		0.0
SM 2120 B	Color (true)					1.56	
SM 2320 B-97	Total Alkalinity	101				0.134	
SM 2540 C-97	TDS					2.19	
SM 4500 F-C-97	Fluoride	95.0		95.6	95.6		0.0
SM 5310 B-00	Organic Carbon	97.6		95.9	97.6		1.58
USGS O-2060-01	2,4,5-T	102	89.6	107	106	12.6	0.375
	2,4-D	107	108	154	154	1.11	0.519
	2,4-DB	81.6	74.4	71.2	72.0	9.23	1.12
	Acifluorfen	98.8	105	93.6	93.6	6.27	0.0
	Bentazon	86.4	85.2			1.40	7.69
	Dichlorprop	106	99.6	136	139	5.85	2.04
	Dinoseb	102	102	105	101	0.0	3.88
	Diuron	112	131	67.2	64.4	16.1	4.26
	Fenuron	114	120	62.8	61.2	5.48	2.58
	Imidacloprid	129	125	232	222	2.83	4.59
	Linuron	110	112	86.8	81.2	1.08	6.67
	MCPA	98.0	95.2	116	118	2.90	1.71
	MCPP	105	96.4	124	122	8.73	1.95
	Silvex	116	114	146	139	1.73	5.06

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.	1793711
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1793637, 1793638, 1793639, 1793640
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1793637, 1793638, 1793639, 1793640
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1793637, 1793638, 1793639, 1793640
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1793641, 1793642, 1793643, 1793644
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1793641, 1793642, 1793643, 1793644
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1793641, 1793642, 1793643, 1793644
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1793641, 1793642, 1793643, 1793644
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1793645, 1793646, 1793647, 1793648
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1793712
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1793697
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1793698
SM 2120 B / E31780	True Color measured at 450 nm	1793637, 1793638, 1793639, 1793640
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1793637, 1793638, 1793639, 1793640
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1793637, 1793638, 1793639, 1793640

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1793637, 1793638, 1793639, 1793640
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1793637, 1793638, 1793639, 1793640
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1793641, 1793642, 1793643, 1793644
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1793697
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1793697

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)	04/28/2016	05/04/2016	Fe-Val Siddell	05/11/2016	John P. Burgos	1793711
EPA 180.1 Rev. 2.0	04/28/2016			04/28/2016 15:12	Sima Feizi	1793637, 1793638, 1793639, 1793640
EPA 300.0 Rev. 2.1	04/28/2016			05/05/2016	Elisa J Lutz	1793637, 1793638, 1793639, 1793640
EPA 350.1 Rev. 2.0	04/28/2016			05/06/2016	Diana M. Turner	1793641, 1793642, 1793643, 1793644
EPA 351.2 Rev. 2.0	04/28/2016	05/12/2016	Christopher Armour	05/13/2016	Virginia P. Brown	1793641, 1793642, 1793643, 1793644
EPA 353.2 Rev. 2.0	04/28/2016			05/09/2016	Peter D. Kaus	1793641, 1793642
	04/28/2016			05/10/2016	Peter D. Kaus	1793643, 1793644
EPA 365.1 Rev. 2.0	04/28/2016	05/10/2016	Vijayalakshmi Reddy	05/11/2016	Lipi Saha	1793641, 1793642, 1793643, 1793644
EPA 365.1 Rev. 2.0 dissolved	04/28/2016			04/28/2016 14:53	Julia Storbeck	1793645
	04/28/2016			04/28/2016 14:54	Julia Storbeck	1793646, 1793647
	04/28/2016			04/28/2016 15:00	Julia Storbeck	1793648
EPA 8270D	04/28/2016	04/29/2016	John Kaba	05/05/2016	Irina Carbone	1793712
EPA 8321B	04/28/2016	04/29/2016	Mohammad Ghaffari	04/29/2016	Mohammad Ghaffari	1793697
	04/28/2016	05/04/2016	Hoor Shaik	05/04/2016	Juyoung Kim	1793698
SM 2120 B	04/28/2016			04/28/2016 13:51	Rochelle Y Jackson	1793637, 1793638
	04/28/2016			04/28/2016 13:52	Rochelle Y Jackson	1793639
	04/28/2016			04/28/2016 13:53	Rochelle Y Jackson	1793640
SM 2320 B-97	04/28/2016			05/10/2016	Dale L. Simmons	1793637, 1793638, 1793639, 1793640
SM 2540 C-97	04/28/2016			05/03/2016	Yijie Li	1793637, 1793638, 1793639, 1793640
SM 2540 D-97	04/28/2016			05/03/2016	Yijie Li	1793637, 1793638, 1793639, 1793640
SM 4500 F-C-97	04/28/2016			05/06/2016	Dale L. Simmons	1793637, 1793638, 1793639, 1793640
SM 5310 B-00	04/28/2016			05/19/2016	Diana M. Turner	1793641, 1793642, 1793643, 1793644
USGS O-2060-01	04/28/2016	04/28/2016	Hoor Shaik	04/30/2016	Juyoung Kim	1793697
	04/28/2016	04/28/2016	Hoor Shaik	05/01/2016	Juyoung Kim	1793697