

Chemical Analysis Report

NE-DIST-2016-07-13-01

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

Event Description: **Gville South**
Request ID: **RQ-2016-07-11-15**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

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: 05-AUG-2016 14:09



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: G3NE0014 W HAWTHORNE@FISH CAMP

Collection Date/Time: 07/12/2016 10:50

Field ID: G3NE0014 W HAWTHORNE@FISH CAMP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815564	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P308871	
		Sulfate	2.1		mg SO4/L	P308874	
	SM 2120 B	Color (true)	780		PCU	P307824	
	SM 2320 B-97	Total Alkalinity	22		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	132		mg/L	P308586	
	SM 2540 D-97	TSS	8	I	mg/L	P308396	
1815570	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P308422	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.55		mg N/L	P308342	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.3		mg N/L	P308569	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	UJ	mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.74		mg P/L	P308014	
1815576	SM 5310 B-00	Organic Carbon	61		mg C/L	P308412	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.60		mg P/L	P307858	

Ref. Method and Comment:

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

EPA 353.2 Rev. 2.0: Refer to the narrative for an explanation of QC Codes.

Sample Location: 20020121 PRAIRIE CR @ SR 20

Collection Date/Time: 07/12/2016 13:20

Field ID: 20020121 PRAIRIE CR @ SR 20

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815565	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P308871	
		Sulfate	2.9		mg SO4/L	P308874	
	SM 2120 B	Color (true)	100	A	PCU	P307849	
	SM 2320 B-97	Total Alkalinity	13		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	78		mg/L	P308586	
	SM 2540 D-97	TSS	39		mg/L	P308396	
1815571	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P308422	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P308342	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.1		mg N/L	P308570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P308014	
1815577	SM 5310 B-00	Organic Carbon	26		mg C/L	P308412	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	I	mg P/L	P307858	

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: G3NE0015 LOCHLOOSA @ FISH CAMP

Collection Date/Time: 07/12/2016 11:10

Field ID: G3NE0015 LOCHLOOSA @ FISH CAMP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815566	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	8.7		mg Cl/L	P308871	

Field ID: G3NE0015 LOCHLOOSA @ FISH CAMP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815566	EPA 300.0 Rev. 2.1	Sulfate	2.2		mg SO4/L	P308874	
	SM 2120 B	Color (true)	330		PCU	P307824	
	SM 2320 B-97	Total Alkalinity	63		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	129		mg/L	P308586	
	SM 2540 D-97	TSS	3	I	mg/L	P308396	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P308422	
1815572	EPA 350.1 Rev. 2.0	Ammonia-N	0.079		mg N/L	P308342	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.97		mg N/L	P308570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.15		mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P308014	
	SM 5310 B-00	Organic Carbon	26		mg C/L	P308412	
1815578	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.15		mg P/L	P307858	

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: 20020132 RIVER STYX @ SR 346

Collection Date/Time: 07/12/2016 12:50

Field ID: 20020132 RIVER STYX @ SR 346

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815567	EPA 180.1 Rev. 2.0	Turbidity	4.0		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	12		mg Cl/L	P308871	
		Sulfate	2.0		mg SO4/L	P308874	
	SM 2120 B	Color (true)	210		PCU	P307824	
	SM 2320 B-97	Total Alkalinity	28		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	96		mg/L	P308586	
1815573	SM 2540 D-97	TSS	3	I	mg/L	P308396	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P308422	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.63		mg N/L	P308343	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.9		mg N/L	P308570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.21		mg P/L	P308014	
1815579	SM 5310 B-00	Organic Carbon	30		mg C/L	P308412	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.15		mg P/L	P307859	

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: G3NE0013 LOCHLOOSA SLOUGH@ 301

Collection Date/Time: 07/12/2016 11:40

Field ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815568	EPA 180.1 Rev. 2.0	Turbidity	4.1		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	7.2		mg Cl/L	P308925	
		Sulfate	0.90		mg SO4/L	P308929	
	SM 2120 B	Color (true)	340		PCU	P307824	
	SM 2320 B-97	Total Alkalinity	32		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	106		mg/L	P308586	

Field ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815568	SM 2540 D-97	TSS	6	I	mg/L	P308396	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P308422	
1815574	EPA 350.1 Rev. 2.0	Ammonia-N	0.24		mg N/L	P308343	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	2.0		mg N/L	P308570	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.30		mg P/L	P308316	
	SM 5310 B-00	Organic Carbon	37		mg C/L	P308412	
1815580	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.18		mg P/L	P307859	
1815597	EPA 8321B	Glyphosate**	10	U	ug/L	P307804	
	USGS O-2060-01	2,4-D	0.0097	I	ug/L	P307803	
		Diuron	0.0040	U	ug/L	P307803	
		2,4-DB	0.0020	U	ug/L	P307803	
		Fenuron	0.0080	U	ug/L	P307803	
		2,4,5-T	0.0020	U	ug/L	P307803	
		Acifluorfen	0.0020	U	ug/L	P307803	
		Imidacloprid	0.0040	U	ug/L	P307803	
		Bentazon	0.0020	U	ug/L	P307803	
		Linuron	0.0040	U	ug/L	P307803	
		Dichlorprop	0.0020	U	ug/L	P307803	
		Dinoseb	0.020	U	ug/L	P307803	
		MCPA	0.0040	U	ug/L	P307803	
		Acetaminophen**	0.0040	U	ug/L	P307803	
		MCPP	0.0040	U	ug/L	P307803	MS
		Picloram	0.050	U	ug/L	P307803	
		Carbamazepine**	4.0E-04	U	ug/L	P307803	
		Silvex	0.0020	U	ug/L	P307803	
		Triclopyr**	0.0040	U	ug/L	P307803	
		Primidone**	0.0080	U	ug/L	P307803	
		Fluridone**	0.0036		ug/L	P307803	
1815598	EPA 8270D	Dieldrin	0.40	UJ	ng/L	P307990	SUR
1815599		Ametryn	0.32	U	ng/L	P307909	
		Atrazine	0.25	U	ng/L	P307909	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P307909	
		Chlorpyrifos Methyl	0.099	U	ng/L	P307909	
		Disulfoton	0.32	U	ng/L	P307909	
		Ethion	0.15	U	ng/L	P307909	
		Ethoprop	0.099	U	ng/L	P307909	
		Hexazinone	1.1	I	ng/L	P307909	
		Malathion	0.35	U	ng/L	P307909	
		Metribuzin	0.28	I	ng/L	P307909	
		Mevinphos	0.49	U	ng/L	P307909	
		Norflurazon	0.49	U	ng/L	P307909	RPD
		Phorate	0.25	U	ng/L	P307909	
		Prometryn	0.20	U	ng/L	P307909	

Field ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815599	EPA 8270D	Simazine	0.49	U	ng/L	P307909	
		Atrazine Desethyl	1.5	U	ng/L	P307909	RPD
		Prometon	0.89	U	ng/L	P307909	
		Fipronil	0.25	U	ng/L	P307909	RPD
		Molinate	0.30	U	ng/L	P307909	
		Pendimethalin	1.5	U	ng/L	P307909	
		Terbufos	0.099	U	ng/L	P307909	
		EPTC	1.2	UJ	ng/L	P307909	LCS, RPD
		Terbuthylazine	0.42	U	ng/L	P307909	
		Bromacil	0.49	U	ng/L	P307909	
		Fipronil Sulfide	0.15	U	ng/L	P307909	RPD
		Fipronil Sulfone	0.15	U	ng/L	P307909	RPD
		Alachlor	0.25	U	ng/L	P307909	
		Azinphos Methyl	2.2	U	ng/L	P307909	
		Butylate	0.40	U	ng/L	P307909	
		Demeton	0.99	U	ng/L	P307909	
		Diazinon	0.12	U	ng/L	P307909	
		Fenamiphos	0.25	U	ng/L	P307909	
		Fonofos	0.20	U	ng/L	P307909	
		Metalaxyl	0.20	U	ng/L	P307909	
		Metolachlor	0.29	I	ng/L	P307909	
		Acetochlor	0.25	U	ng/L	P307909	
		Cyanazine	0.49	U	ng/L	P307909	
		Parathion Ethyl	0.25	U	ng/L	P307909	
		Parathion Methyl	0.25	U	ng/L	P307909	

Ref. Method and Comment:

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

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

EPA 8270D: Refer to the narrative for an explanation of QC Codes. Surrogate failure for Decachlorobiphenyl was observed in both original extraction and re-extraction. Analytical results were confirmed.

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

Sample Location: 20020131 CROSS CREEK @ SR 325

Collection Date/Time: 07/12/2016 12:15

Field ID: 20020131 CROSS CREEK @ SR 325

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815569	EPA 180.1 Rev. 2.0	Turbidity	8.6		NTU	P307901	
	EPA 300.0 Rev. 2.1	Chloride	9.4	A	mg Cl/L	P308925	
		Sulfate	2.1	A	mg SO4/L	P308929	
	SM 2120 B	Color (true)	99	A	PCU	P307824	
	SM 2320 B-97	Total Alkalinity	28		mg CaCO3/L	P308418	RPD
	SM 2540 C-97	TDS	79		mg/L	P308586	
	SM 2540 D-97	TSS	27		mg/L	P308396	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P308422	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P308343	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P308570	

Field ID: 20020131 CROSS CREEK @ SR 325

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1815575	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P308577	MS
	EPA 365.1 Rev. 2.0	Total-P	0.14		mg P/L	P308316	
	SM 5310 B-00	Organic Carbon	25		mg C/L	P308412	
1815581	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.012		mg P/L	P307859	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P307901

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P308871

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P308874

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P308925

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P308929

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P308342

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

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P308343

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308569

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308570

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308577

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308014

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308316

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307858

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307859

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

Reference Method: EPA 8270D
Batch ID: P307909

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P307909

Component	Result	Code	Units
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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P307990

Component	Result	Code	Units
Dieldrin	0.40	U	ng/L

Reference Method: EPA 8321B
Batch ID: P307804

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P307824

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P307849

Component	Result	Code	Units
-----------	--------	------	-------

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P307849

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P308418

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

Reference Method: SM 2540 C-97
Batch ID: P308586

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P308396

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P308422

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P308412

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

Reference Method: USGS O-2060-01
Batch ID: P307803

Component	Result	Code	Units
2,4,5-T	0.0020	U	ug/L
2,4-D	0.0040	U	ug/L
2,4-DB	0.0020	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
Dichlorprop	0.0020	U	ug/L
Dinoseb	0.020	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
MCPA	0.0040	U	ug/L
MCPP	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P307803

Component	Result	Code	Units
Picloram	0.050	U	ug/L
Primidone	0.0080	U	ug/L
Silvex	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308871

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308925

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308929

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308342

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.5		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308343

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308569

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308570

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	98.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308577

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308014

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308316

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307858

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307859

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

Reference Method: EPA 8270D
Batch ID: P307909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	92.3	94.0	P/P	80 - 119
Alachlor	81.6	82.4	P/P	80 - 120
Ametryn	116	122	P/P	60 - 135
Atrazine	106	102	P/P	72 - 121
Atrazine Desethyl	78.3	82.4	P/P	14 - 124
Azinphos Methyl	167	172	P/P	74 - 186
Bromacil	79.2	89.0	P/P	38 - 125
Butylate	46.8	36.7	P/P	34 - 88.0
Chlorpyrifos Ethyl	103	97.5	P/P	53 - 108
Chlorpyrifos Methyl	101	96.1	P/P	29 - 119
Cyanazine	98.2	118	P/P	30 - 240
Demeton	68.0	66.0	P/P	35 - 127
Diazinon	95.1	99.4	P/P	75 - 121
Disulfoton	126	114	P/P	40 - 141
EPTC	46.2	31.3	P/F	36 - 96.0
Ethion	106	96.6	P/P	64 - 127

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P307909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ethoprop	85.2	81.7	P/P	65 - 108
Fenamiphos	108	103	P/P	62 - 140
Fipronil	79.2	82.3	P/P	59 - 127
Fipronil Sulfide	90.3	88.1	P/P	55 - 126
Fipronil Sulfone	84.7	83.5	P/P	56 - 127
Fonofos	99.3	92.7	P/P	64 - 111
Hexazinone	100	99.3	P/P	43 - 153
Malathion	112	111	P/P	70 - 129
Metalaxyl	73.6	77.5	P/P	49 - 135
Metolachlor	81.8	82.9	P/P	81 - 120
Metribuzin	98.1	93.1	P/P	66 - 133
Mevinphos	95.9	89.3	P/P	33 - 128
Molinate	90.0	72.8	P/P	46 - 101
Norflurazon	80.6	82.1	P/P	62 - 131
Parathion Ethyl	88.2	91.7	P/P	80 - 109
Parathion Methyl	126	124	P/P	76 - 126
Pendimethalin	76.6	74.3	P/P	47 - 137
Phorate	84.2	77.4	P/P	51 - 115
Prometon	104	111	P/P	67 - 123
Prometryn	94.9	97.8	P/P	66 - 122
Simazine	114	129	P/P	60 - 134
Terbufos	103	103	P/P	56 - 116
Terbutylazine	88.1	91.8	P/P	77 - 114

Reference Method: EPA 8270D
Batch ID: P307990

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dieldrin	95.5	96.1	P/P	79 - 121

Reference Method: EPA 8321B
Batch ID: P307804

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	87.8		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P308418

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

Reference Method: SM 4500 F-C-97
Batch ID: P308422

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.3		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P308412

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P308412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.7		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P307803

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4,5-T	90.4		P	40 - 140
2,4-D	95.2		P	40 - 140
2,4-DB	104		P	40 - 140
Acetaminophen	110		P	40 - 140
Acifluorfen	104		P	40 - 140
Bentazon	102		P	40 - 140
Carbamazepine	114		P	40 - 140
Dichlorprop	101		P	40 - 140
Dinoseb	97.2		P	40 - 140
Diuron	66.4		P	40 - 140
Fenuron	96.0		P	40 - 140
Fluridone	87.2		P	40 - 140
Imidacloprid	103		P	40 - 160
Linuron	102		P	40 - 140
MCPA	100		P	40 - 140
MCPP	109		P	40 - 140
Picloram	43.6		P	40 - 140
Primidone	92.0		P	40 - 140
Silvex	94.8		P	40 - 140
Triclopyr	78.4		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308871

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815347	Chloride	100		P	90 - 110
1815541	Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815347	Sulfate	96.1		P	90 - 110
1815541	Sulfate	94.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308925

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815569	Chloride	100		P	90 - 110
1815756	Chloride	100		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308929

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815569	Sulfate	97.4		P	90 - 110
1815756	Sulfate	97.7		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308342

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815542	Ammonia-N	94.4	96.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308343

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815575	Ammonia-N	95.9	98.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815441	Kjeldahl Nitrogen	98.9	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308570

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1817178	Kjeldahl Nitrogen	96.9	99.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308577

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815570	NO2NO3-N	88.0	88.5	F/F	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308014

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815549	Total-P	99.5	94.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308316

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815641	Total-P	100	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307858

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815543	O-Phosphate-P	100	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P307859

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815596	O-Phosphate-P	97.0	98.3	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P307909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815526	Acetochlor	94.0	93.7	P/P	77 - 125
1815526	Alachlor	78.7	82.4	P/P	75 - 127
1815526	Ametryn	99.8	113	P/P	53 - 150
1815526	Atrazine Desethyl	57.5	31.2	P/P	8.0 - 105
1815526	Azinphos Methyl	166	159	P/P	63 - 204
1815526	Bromacil	81.4	65.0	P/P	43 - 132
1815526	Butylate	20.4	17.9	P/P	7.0 - 87.0
1815526	Chlorpyrifos Ethyl	92.0	92.9	P/P	53 - 111
1815526	Chlorpyrifos Methyl	88.5	88.2	P/P	38 - 117
1815526	Cyanazine	90.0	70.9	P/P	18 - 222
1815526	Demeton	96.7	86.4	P/P	10 - 157
1815526	Diazinon	91.9	96.4	P/P	73 - 127
1815526	Disulfoton	105	84.2	P/P	43 - 141
1815526	EPTC	19.6	16.4	P/P	11 - 86.0
1815526	Ethion	106	101	P/P	68 - 130
1815526	Ethoprop	79.3	84.9	P/P	60 - 108
1815526	Fenamiphos	108	79.9	P/P	56 - 139
1815526	Fipronil	83.8	50.5	P/P	29 - 143
1815526	Fipronil Sulfide	83.2	47.1	P/P	35 - 129
1815526	Fipronil Sulfone	74.9	29.2	P/P	16 - 146
1815526	Fonofos	85.6	102	P/P	59 - 112
1815526	Hexazinone	102	99.7	P/P	68 - 145
1815526	Malathion	112	103	P/P	69 - 131
1815526	Metalaxyl	73.9	74.7	P/P	67 - 119
1815526	Metolachlor	82.0	80.6	P/P	77 - 124
1815526	Metribuzin	94.7	92.4	P/P	63 - 134
1815526	Mevinphos	67.5	70.0	P/P	40 - 127
1815526	Molinate	32.3	28.1	P/P	27 - 98.0
1815526	Norflurazon	76.2	43.7	P/P	39 - 141
1815526	Parathion Ethyl	88.0	86.3	P/P	74 - 113
1815526	Parathion Methyl	116	118	P/P	61 - 133
1815526	Pendimethalin	65.1	65.1	P/P	26 - 179
1815526	Phorate	68.0	83.2	P/P	44 - 126
1815526	Prometryn	94.4	95.5	P/P	68 - 126
1815526	Simazine	93.7	75.0	P/P	47 - 156
1815526	Terbufos	93.1	108	P/P	53 - 125
1815526	Terbuthylazine	91.9	83.4	P/P	76 - 113

Reference Method: EPA 8270D
 Batch ID: P307990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815525	Dieldrin	96.3	96.2	P/P	79 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P307804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815787	Glyphosate	41.4	41.8	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P308422

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815541	Fluoride	104	104	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P308412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815471	Organic Carbon	93.6	93.0	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P307803

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1815504	2,4,5-T	91.2	98.4	P/P	40 - 140
1815504	2,4-D	64.0	108	P/P	40 - 140
1815504	2,4-DB	104	120	P/P	40 - 140
1815504	Acetaminophen	54.0	58.4	P/P	40 - 140
1815504	Acifluorfen	96.8	100	P/P	40 - 140
1815504	Carbamazepine	72.0	76.0	P/P	40 - 140
1815504	Dichlorprop	123	132	P/P	40 - 140
1815504	Dinoseb	112	124	P/P	40 - 140
1815504	Diuron	45.6	47.2	P/P	40 - 140
1815504	Fenuron	63.2	67.2	P/P	40 - 140
1815504	Fluridone	58.8	69.2	P/P	40 - 140
1815504	Imidacloprid	157	159	P/P	40 - 160
1815504	Linuron	70.0	73.2	P/P	40 - 140
1815504	MCPA	109	115	P/P	40 - 140
1815504	MCPP	132	143	P/F	40 - 140
1815504	Picloram	84.0	98.4	P/P	40 - 140
1815504	Primidone	72.4	66.8	P/P	40 - 140
1815504	Silvex	118	128	P/P	40 - 140
1815504	Triclopyr	93.2	111	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P307901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815547	Turbidity	3.92	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815347	Chloride	0.132	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815347	Sulfate	0.285	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308925

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815569	Chloride	0.0930	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P308929

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815569	Sulfate	0.436	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308342

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815542	Ammonia-N	2.48	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P308343

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815575	Ammonia-N	1.94	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815441	Kjeldahl Nitrogen	0.548	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P308570

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1817178	Kjeldahl Nitrogen	1.72	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P308577

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815570	NO2NO3-N	0.567	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815549	Total-P	4.90	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P308316

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815641	Total-P	3.51	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815543	O-Phosphate-P	0.147	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P307859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815596	O-Phosphate-P	1.23	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P307909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815526	Acetochlor	0.276	Spike	P	0 - 30
1815526	Alachlor	4.34	Spike	P	0 - 30
1815526	Ametryn	9.48	Spike	P	0 - 30
1815526	Atrazine	3.76	Spike	P	0 - 30
1815526	Atrazine Desethyl	40.1	Spike	F	0 - 30
1815526	Azinphos Methyl	4.72	Spike	P	0 - 30
1815526	Bromacil	22.3	Spike	P	0 - 30
1815526	Butylate	12.9	Spike	P	0 - 30
1815526	Chlorpyrifos Ethyl	0.875	Spike	P	0 - 30
1815526	Chlorpyrifos Methyl	0.397	Spike	P	0 - 30
1815526	Cyanazine	23.7	Spike	P	0 - 30
1815526	Demeton	11.2	Spike	P	0 - 30
1815526	Diazinon	4.80	Spike	P	0 - 30
1815526	Disulfoton	22.2	Spike	P	0 - 30
1815526	EPTC	17.9	Spike	P	0 - 30
1815526	Ethion	4.40	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P307909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815526	Ethoprop	6.81	Spike	P	0 - 30
1815526	Fenamiphos	29.8	Spike	P	0 - 30
1815526	Fipronil	49.7	Spike	F	0 - 30
1815526	Fipronil Sulfide	52.3	Spike	F	0 - 30
1815526	Fipronil Sulfone	70.6	Spike	F	0 - 30
1815526	Fonofos	17.5	Spike	P	0 - 30
1815526	Hexazinone	1.80	Spike	P	0 - 30
1815526	Malathion	8.43	Spike	P	0 - 30
1815526	Metalaxyl	1.06	Spike	P	0 - 30
1815526	Metolachlor	1.69	Spike	P	0 - 30
1815526	Metribuzin	2.38	Spike	P	0 - 30
1815526	Mevinphos	3.67	Spike	P	0 - 30
1815526	Molinate	13.9	Spike	P	0 - 30
1815526	Norflurazon	54.1	Spike	F	0 - 30
1815526	Parathion Ethyl	1.88	Spike	P	0 - 30
1815526	Parathion Methyl	1.38	Spike	P	0 - 30
1815526	Pendimethalin	0.00883	Spike	P	0 - 30
1815526	Phorate	20.2	Spike	P	0 - 30
1815526	Prometon	12.8	Spike	P	0 - 30
1815526	Prometryn	1.19	Spike	P	0 - 30
1815526	Simazine	17.3	Spike	P	0 - 30
1815526	Terbufos	14.9	Spike	P	0 - 30
1815526	Terbuthylazine	9.73	Spike	P	0 - 30
LFB	Acetochlor	1.84	LCS	P	0 - 30
LFB	Alachlor	0.994	LCS	P	0 - 30
LFB	Ametryn	5.57	LCS	P	0 - 30
LFB	Atrazine	3.93	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.09	LCS	P	0 - 30
LFB	Azinphos Methyl	2.53	LCS	P	0 - 30
LFB	Bromacil	11.7	LCS	P	0 - 30
LFB	Butylate	24.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	5.19	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	4.81	LCS	P	0 - 30
LFB	Cyanazine	18.7	LCS	P	0 - 30
LFB	Demeton	2.84	LCS	P	0 - 30
LFB	Diazinon	4.43	LCS	P	0 - 30
LFB	Disulfoton	10.2	LCS	P	0 - 30
LFB	EPTC	38.4	LCS	F	0 - 30
LFB	Ethion	9.58	LCS	P	0 - 30
LFB	Ethoprop	4.14	LCS	P	0 - 30
LFB	Fenamiphos	4.78	LCS	P	0 - 30
LFB	Fipronil	3.94	LCS	P	0 - 30
LFB	Fipronil Sulfide	2.41	LCS	P	0 - 30
LFB	Fipronil Sulfone	1.42	LCS	P	0 - 30
LFB	Fonofos	6.91	LCS	P	0 - 30
LFB	Hexazinone	0.787	LCS	P	0 - 30
LFB	Malathion	1.70	LCS	P	0 - 30
LFB	Metalaxyl	5.13	LCS	P	0 - 30
LFB	Metolachlor	1.33	LCS	P	0 - 30
LFB	Metribuzin	5.30	LCS	P	0 - 30
LFB	Mevinphos	7.16	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P307909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Molinate	21.1	LCS	P	0 - 30
LFB	Norflurazon	1.89	LCS	P	0 - 30
LFB	Parathion Ethyl	3.90	LCS	P	0 - 30
LFB	Parathion Methyl	1.16	LCS	P	0 - 30
LFB	Pendimethalin	3.11	LCS	P	0 - 30
LFB	Phorate	8.42	LCS	P	0 - 30
LFB	Prometon	6.20	LCS	P	0 - 30
LFB	Prometryn	3.09	LCS	P	0 - 30
LFB	Simazine	12.4	LCS	P	0 - 30
LFB	Terbufos	0.666	LCS	P	0 - 30
LFB	Terbuthylazine	4.07	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P307990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815525	Dieldrin	3.60	Spike	P	0 - 30
LFB	Dieldrin	0.545	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P307804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815787	Glyphosate	0.962	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P307824

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815569	Color (true)	1.90	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P307849

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815565	Color (true)	0.843	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P308418

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815541	Total Alkalinity	11.0	Sample	F	0 - 4.8

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P308586

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815546	TDS	1.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P308422

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815541	Fluoride	0.482	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P308412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815471	Organic Carbon	0.377	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P307803

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1815504	2,4,5-T	7.59	Spike	P	0 - 30
1815504	2,4-D	5.25	Spike	P	0 - 30
1815504	2,4-DB	14.6	Spike	P	0 - 30
1815504	Acetaminophen	7.83	Spike	P	0 - 30
1815504	Acifluorfen	3.65	Spike	P	0 - 30
1815504	Bentazon	4.44	Spike	P	0 - 30
1815504	Carbamazepine	5.41	Spike	P	0 - 30
1815504	Dichlorprop	7.20	Spike	P	0 - 30
1815504	Dinoseb	10.2	Spike	P	0 - 30
1815504	Diuron	3.45	Spike	P	0 - 30
1815504	Fenuron	6.13	Spike	P	0 - 30
1815504	Fluridone	5.42	Spike	P	0 - 30
1815504	Imidacloprid	1.04	Spike	P	0 - 30
1815504	Linuron	4.47	Spike	P	0 - 30
1815504	MCPA	5.37	Spike	P	0 - 30
1815504	MCPP	8.14	Spike	P	0 - 30
1815504	Picloram	15.8	Spike	P	0 - 30
1815504	Primidone	8.05	Spike	P	0 - 30
1815504	Silvex	7.79	Spike	P	0 - 30
1815504	Triclopyr	17.6	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

Quality Assurance Report Surrogates

Lab Sample ID: 1815597

Field Sample ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	87.0	P	50 - 150
USGS O-2060-01	2,4-D-d3	106	P	40 - 150
USGS O-2060-01	Acetaminophen-d4	55.8	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	55.2	P	40 - 160
USGS O-2060-01	Diuron-d6	42.4	P	40 - 150
USGS O-2060-01	Primidone-d5	49.8	P	40 - 150

Lab Sample ID: 1815598

Field Sample ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	45.8	F	58 - 128
EPA 8270D	Tetrachloro-m-xylene	61.3	P	51 - 93.0

Lab Sample ID: 1815599

Field Sample ID: G3NE0013 LOCHLOOSA SLOUGH@ 301

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	83.6	P	67 - 131
EPA 8270D	Simazine-d10	102	P	75 - 130

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A70524

Included Lab Sample IDs: 1815564, 1815566, 1815567, 1815568, 1815569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	95.6	96.8	P/P	90 - 115
Color (true)	97.5	95.6	P/P	90 - 115

Reference Method: SM 2120 B

Run ID: A70531

Included Lab Sample IDs: 1815565

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.2	94.4	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A70533

Included Lab Sample IDs: 1815576, 1815577, 1815578, 1815579, 1815580, 1815581

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	101	P/P	90 - 110
O-Phosphate-P	100	98.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A70544

Included Lab Sample IDs: 1815564, 1815565, 1815566, 1815567, 1815568, 1815569

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

Reference Method: EPA 8321B

Run ID: A70592

Included Lab Sample IDs: 1815597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	86.0	84.8	P/P	70 - 130

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A70606

Included Lab Sample IDs: 1815570, 1815571, 1815572, 1815573, 1815574, 1815575

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70617

Included Lab Sample IDs: 1815570, 1815571, 1815572, 1815573

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	102	P/P	90 - 110
Total-P	97.4	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A70675

Included Lab Sample IDs: 1815570, 1815571, 1815572, 1815573, 1815574, 1815575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	101	P/P	90 - 110
Ammonia-N	102	104	P/P	90 - 110
Ammonia-N	99.8	100	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A70693

Included Lab Sample IDs: 1815570, 1815571, 1815572, 1815573, 1815574, 1815575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.4	98.5	P/P	90 - 110
Organic Carbon	98.5	98.4	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A70694

Included Lab Sample IDs: 1815564, 1815565, 1815566, 1815567, 1815568, 1815569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A70694

Included Lab Sample IDs: 1815564, 1815565, 1815566, 1815567, 1815568, 1815569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A70700

Included Lab Sample IDs: 1815574, 1815575

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

Reference Method: EPA 8270D

Run ID: A70704

Included Lab Sample IDs: 1815598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dieldrin	103		P	80 - 120

Reference Method: USGS O-2060-01

Run ID: A70719

Included Lab Sample IDs: 1815597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	83.6	92.4	P/P	60 - 150
Carbamazepine	116	125	P/P	60 - 150
Diuron	81.2	91.2	P/P	60 - 150
Fenuron	109	112	P/P	60 - 150
Fluridone	94.0	98.4	P/P	60 - 150
Imidacloprid	99.2	100	P/P	60 - 150
Linuron	137	146	P/P	60 - 150
Primidone	114	110	P/P	60 - 150

Reference Method: USGS O-2060-01

Run ID: A70736

Included Lab Sample IDs: 1815597

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4,5-T	108	105	P/P	50 - 150
2,4-D	85.2	106	P/P	50 - 150
2,4-DB	90.2	109	P/P	50 - 150
Acifluorfen	122	127	P/P	50 - 150
Bentazon	90.2	110	P/P	50 - 150
Dichlorprop	101	102	P/P	50 - 150
Dinoseb	120	124	P/P	50 - 150
MCPA	104	116	P/P	50 - 150
MCPP	116	126	P/P	50 - 150
Picloram	133	141	P/P	50 - 150
Silvex	111	108	P/P	50 - 150
Triclopyr	123	98.8	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A70753
Included Lab Sample IDs: 1815599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.7		P	80 - 120
Alachlor	97.8		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	93.7		P	80 - 120
Atrazine Desethyl	84.5		P	80 - 120
Azinphos Methyl	86.7		P	80 - 120
Bromacil	97.2		P	80 - 120
Butylate	98.6		P	80 - 120
Chlorpyrifos Ethyl	102		P	80 - 120
Chlorpyrifos Methyl	85.5		P	80 - 120
Cyanazine	94.8		P	80 - 120
Demeton	108		P	80 - 120
Diazinon	91.5		P	80 - 120
Disulfoton	85.6		P	80 - 120
EPTC	99.9		P	80 - 120
Ethion	87.1		P	80 - 120
Ethoprop	96.9		P	80 - 120
Fenamiphos	98.8		P	80 - 120
Fipronil	89.7		P	80 - 120
Fipronil Sulfide	95.8		P	80 - 120
Fipronil Sulfone	95.2		P	80 - 120
Fonofos	96.4		P	80 - 120
Hexazinone	96.9		P	80 - 120
Malathion	91.0		P	80 - 120
Metaxyl	101		P	80 - 120
Metolachlor	99.1		P	80 - 120
Metribuzin	100		P	80 - 120
Mevinphos	103		P	80 - 120
Molinate	110		P	80 - 120
Norflurazon	96.4		P	80 - 120
Parathion Ethyl	106		P	80 - 120
Parathion Methyl	115		P	80 - 120
Pendimethalin	109		P	80 - 120
Phorate	90.5		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	86.9		P	80 - 120
Simazine	105		P	80 - 120
Terbufos	102		P	80 - 120
Terbutylazine	89.3		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A70772
Included Lab Sample IDs: 1815570, 1815571, 1815572, 1815573, 1815574, 1815575

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	95.2	P/P	90 - 110
Kjeldahl Nitrogen	95.2	98.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A70802

Included Lab Sample IDs: 1815564, 1815565, 1815566, 1815567, 1815568, 1815569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	104	102	P/P	90 - 110
Chloride	105	104	P/P	90 - 110
Sulfate	101	99.8	P/P	90 - 110
Sulfate	96.9	95.9	P/P	90 - 110
Sulfate	99.8	98.8	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
EPA 180.1 Rev. 2.0	Turbidity						3.92	
EPA 300.0 Rev. 2.1	Chloride	100		100	98.3		0.132	
	Chloride	102		100	100		0.0930	
	Sulfate	95.9		96.1	94.5		0.285	
	Sulfate	97.9		97.4	97.7		0.436	
EPA 350.1 Rev. 2.0	Ammonia-N	95.5		94.4	96.9			2.48
	Ammonia-N	97.4		95.9	98.1			1.94
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105		98.9	99.5			0.548
	Kjeldahl Nitrogen	98.0		96.9	99.0			1.72
EPA 353.2 Rev. 2.0	NO2NO3-N	104		88.0	88.5			0.567
EPA 365.1 Rev. 2.0	Total-P	93.6		99.5	94.4			4.90
	Total-P	99.1		100	96.0			3.51
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	105		100	101			0.147
	O-Phosphate-P	102		97.0	98.3			1.23
EPA 8270D	Acetochlor	92.3	94.0	94.0	93.7	1.84		0.276
	Alachlor	81.6	82.4	78.7	82.4	0.994		4.34
	Ametryn	116	122	99.8	113	5.57		9.48
	Atrazine	106	102			3.93		3.76
	Atrazine Desethyl	78.3	82.4	57.5	31.2	5.09		40.1
	Azinphos Methyl	167	172	166	159	2.53		4.72
	Bromacil	79.2	89.0	81.4	65.0	11.7		22.3
	Butylate	46.8	36.7	20.4	17.9	24.3		12.9
	Chlorpyrifos Ethyl	103	97.5	92.0	92.9	5.19		0.875
	Chlorpyrifos Methyl	101	96.1	88.5	88.2	4.81		0.397
	Cyanazine	98.2	118	90.0	70.9	18.7		23.7
	Demeton	68.0	66.0	96.7	86.4	2.84		11.2
	Diazinon	95.1	99.4	91.9	96.4	4.43		4.80
	Dieldrin	95.5	96.1	96.3	96.2	0.545		3.60
	Disulfoton	126	114	105	84.2	10.2		22.2
	EPTC	46.2	31.3	19.6	16.4	38.4		17.9
	Ethion	106	96.6	106	101	9.58		4.40
	Ethoprop	85.2	81.7	79.3	84.9	4.14		6.81
	Fenamiphos	108	103	108	79.9	4.78		29.8
	Fipronil	79.2	82.3	83.8	50.5	3.94		49.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fipronil Sulfide	90.3	88.1	47.1	83.2	2.41	52.3
	Fipronil Sulfone	84.7	83.5	74.9	29.2	1.42	70.6
	Fonofos	99.3	92.7	85.6	102	6.91	17.5
	Hexazinone	100	99.3	102	99.7	0.787	1.80
	Malathion	112	111	112	103	1.70	8.43
	Metalaxyl	73.6	77.5	73.9	74.7	5.13	1.06
	Metolachlor	81.8	82.9	82.0	80.6	1.33	1.69
	Metribuzin	98.1	93.1	94.7	92.4	5.30	2.38
	Mevinphos	95.9	89.3	67.5	70.0	7.16	3.67
	Molinate	90.0	72.8	32.3	28.1	21.1	13.9
	Norflurazon	80.6	82.1	76.2	43.7	1.89	54.1
	Parathion Ethyl	88.2	91.7	88.0	86.3	3.90	1.88
	Parathion Methyl	126	124	116	118	1.16	1.38
	Pendimethalin	76.6	74.3	65.1	65.1	3.11	0.0088
	Phorate	84.2	77.4	68.0	83.2	8.42	20.2
	Prometon	104	111			6.20	12.8
	Prometryn	94.9	97.8	94.4	95.5	3.09	1.19
	Simazine	114	129	93.7	75.0	12.4	17.3
	Terbufos	103	103	93.1	108	0.666	14.9
	Terbuthylazine	88.1	91.8	91.9	83.4	4.07	9.73
EPA 8321B	Glyphosate	87.8		41.4	41.8		0.962
SM 2120 B	Color (true)					1.90	
	Color (true)					0.843	
SM 2320 B-97	Total Alkalinity	103				11.0	
SM 2540 C-97	TDS					1.67	
SM 4500 F-C-97	Fluoride	99.3		104	104		0.482
SM 5310 B-00	Organic Carbon	96.7		93.6	93.0		0.377
USGS O-2060-01	2,4,5-T	90.4		91.2	98.4		7.59
	2,4-D	95.2		64.0	108		5.25
	2,4-DB	104		104	120		14.6
	Acetaminophen	110		54.0	58.4		7.83
	Acifluorfen	104		96.8	100		3.65
	Bentazon	102					4.44
	Carbamazepine	114		76.0	72.0		5.41
	Dichlorprop	101		123	132		7.20
	Dinoseb	97.2		112	124		10.2
	Diuron	66.4		47.2	45.6		3.45
	Fenuron	96.0		67.2	63.2		6.13
	Fluridone	87.2		69.2	58.8		5.42
	Imidacloprid	103		159	157		1.04
	Linuron	102		73.2	70.0		4.47
	MCPA	100		109	115		5.37
	MCPP	109		132	143		8.14
	Picloram	43.6		84.0	98.4		15.8
	Primidone	92.0		66.8	72.4		8.05
	Silvex	94.8		118	128		7.79
	Triclopyr	78.4		93.2	111		17.6

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1815564, 1815565, 1815566, 1815567, 1815568, 1815569

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1815576, 1815577, 1815578, 1815579, 1815580, 1815581
EPA 8270D / E31780	Organochlorine pesticides (ultra low level) in water matrices by GC/MS/MS	1815598
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1815599
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1815597
SM 2120 B / E31780	True Color measured at 450 nm	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1815597
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1815597

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/13/2016			07/13/2016 15:26	Sima Feizi	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
EPA 300.0 Rev. 2.1	07/13/2016			07/29/2016	Ping Hua	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
EPA 350.1 Rev. 2.0	07/13/2016			07/20/2016	Diana M. Turner	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 351.2 Rev. 2.0	07/13/2016	07/25/2016	Martin Acosta	07/26/2016	Christopher Armour	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 353.2 Rev. 2.0	07/13/2016			07/18/2016	Beverly Y. Sanders	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
EPA 365.1 Rev. 2.0	07/13/2016	07/15/2016	Vijayalakshmi Reddy	07/19/2016	Lipi Saha	1815570, 1815571, 1815572, 1815573
	07/13/2016	07/21/2016	Vijayalakshmi Reddy	07/22/2016	Lipi Saha	1815574, 1815575
EPA 365.1 Rev. 2.0 dissolved	07/13/2016			07/13/2016 15:50	Julia Storbeck	1815577
	07/13/2016			07/13/2016 15:51	Julia Storbeck	1815578
	07/13/2016			07/13/2016 15:52	Julia Storbeck	1815579
	07/13/2016			07/13/2016 15:53	Julia Storbeck	1815580
	07/13/2016			07/13/2016 15:55	Julia Storbeck	1815581
	07/13/2016			07/13/2016 16:25	Julia Storbeck	1815576
EPA 8270D	07/13/2016	07/14/2016	John Kaba	07/19/2016	Irina Carbone	1815599
	07/13/2016	07/15/2016	Fe-Val Siddell	07/18/2016	Vandana T. Nagar	1815598
EPA 8321B	07/13/2016	07/18/2016	Mohammad Ghaffari	07/18/2016	Mohammad Ghaffari	1815597
SM 2120 B	07/13/2016			07/13/2016 12:46	Rochelle Y Jackson	1815569
	07/13/2016			07/13/2016 12:52	Rochelle Y Jackson	1815564, 1815566
	07/13/2016			07/13/2016 12:53	Rochelle Y Jackson	1815567
	07/13/2016			07/13/2016 12:54	Rochelle Y Jackson	1815568
	07/13/2016			07/13/2016 15:27	Rochelle Y Jackson	1815565
SM 2320 B-97	07/13/2016			07/20/2016	Dale L. Simmons	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 2540 C-97	07/13/2016			07/15/2016	Yijie Li	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 2540 D-97	07/13/2016			07/15/2016	Yijie Li	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 4500 F-C-97	07/13/2016			07/20/2016	Dale L. Simmons	1815564, 1815565, 1815566, 1815567, 1815568, 1815569
SM 5310 B-00	07/13/2016			07/20/2016	Sofia Elnemr	1815570, 1815571, 1815572, 1815573, 1815574, 1815575
USGS O-2060-01	07/13/2016	07/19/2016	Hoor Shaik	07/23/2016	Juyoung Kim	1815597
	07/13/2016	07/19/2016	Hoor Shaik	07/24/2016	Juyoung Kim	1815597