

Chemical Analysis Report

SE-DIST-2017-05-31-01

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

Event Description: **SMP-Broward Yellow**

Request ID: **RQ-2017-05-29-16**

Customer: **SE-DIST**

Project ID: **SMP**

Send Reports to:

FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 23-JUN-2017 12:29



Case Narrative

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

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

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 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: Middle R LNL NW 31 Ave Ft. Laud.

Collection Date/Time: 05/30/2017 11:15

Field ID: 28030516

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902385	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P326052	
	EPA 300.0 Rev. 2.1	Chloride	62		mg Cl/L	P326781	
		Sulfate	2.6		mg SO4/L	P326783	MS
	SM 2120 B	Color (true)	33		PCU	P326047	
	SM 2320 B-97	Total Alkalinity	187		mg CaCO3/L	P326247	
	SM 2540 C-97	TDS	319		mg/L	P326285	
	SM 2540 D-97	TSS	3	I	mg/L	P326610	
	SM 4500 F-C-97	Fluoride	0.31		mg F/L	P326250	RPD
1902388	EPA 350.1 Rev. 2.0	Ammonia-N	0.025		mg N/L	P326128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.0		mg N/L	P326056	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.049		mg N/L	P326151	
	EPA 365.1 Rev. 2.0	Total-P	0.013		mg P/L	P326064	
	SM 5310 B-00	Organic Carbon	14		mg C/L	P326080	
1902391	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P326040	
1902433	EPA 8321B	Sucralose**	0.010	U	ug/L	P326155	
	USGS O-2060-01	2,4-D	0.10		ug/L	P325956	
		Diuron	0.0063		ug/L	P325956	
		Fenuron	0.0040	U	ug/L	P325956	
		Imidacloprid	0.0060		ug/L	P325956	MS
		Bentazon	0.0082		ug/L	P325956	MS
		Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCP	0.0020	U	ug/L	P325956	
		Carbamazepine**	4.0E-04	U	ug/L	P325956	
		Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	0.0040		ug/L	P325956	

Ref. Method and Comment:

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

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

Sample Location: C-13 East (Middle River Canal) / NW 21st Ave Brd

Collection Date/Time: 05/30/2017 11:40

Field ID: G4SEB011

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902394	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P326052	
	SM 2320 B-97	Total Alkalinity	189		mg CaCO3/L	P326144	
	SM 2540 D-97	TSS	4	I	mg/L	P326615	
	SM 4500 F-C-97	Fluoride	0.45		mg F/L	P326357	
1902395	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P326127	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P326058	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.006	I	mg N/L	P326087	
	EPA 365.1 Rev. 2.0	Total-P	0.090		mg P/L	P326063	
	SM 5310 B-00	Organic Carbon	8.7		mg C/L	P326241	

Field ID: G4SEB011

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902396	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.047		mg P/L	P326039	
1902436	EPA 8321B	Sucralose**	0.056		ug/L	P326155	
	USGS O-2060-01	2,4-D	0.0042		ug/L	P325956	
		Diuron	0.019		ug/L	P325956	
		Fenuron	0.0040	U	ug/L	P325956	
		Imidacloprid	0.019		ug/L	P325956	MS
		Bentazon	0.0099		ug/L	P325956	MS
		Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCCP	0.0020	U	ug/L	P325956	
		Carbamazepine**	0.0035		ug/L	P325956	
		Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	0.0046		ug/L	P325956	
1902438	EPA 200.7 Rev. 4.4	Iron	120	U	ug/L	P326226	
	EPA 200.8 Rev. 5.4	Arsenic	2.01		ug/L	P326226	
		Cadmium	0.080	U	ug/L	P326226	
		Chromium	1.6	U	ug/L	P326226	
		Copper	1.1	I	ug/L	P326226	
		Lead	0.20	U	ug/L	P326226	
		Nickel	0.80	U	ug/L	P326226	
		Silver	0.040	U	ug/L	P326226	
		Zinc	4.0	U	ug/L	P326226	

Ref. Method and Comment:

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

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

Sample Location: Sospiro Canal at Las Olas Blvd

Collection Date/Time: 05/30/2017 12:55

Field ID: 420011013

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902397	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P326052	
	SM 2320 B-97	Total Alkalinity	152		mg CaCO3/L	P326247	
	SM 2540 D-97	TSS	5	I	mg/L	P326612	
	SM 4500 F-C-97	Fluoride	0.97		mg F/L	P326656	
1902398	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P326408	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P326659	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P326338	
	EPA 365.1 Rev. 2.0	Total-P	0.027		mg P/L	P326429	
	SM 5310 B-00	Organic Carbon	5.0		mg C/L	P326724	
1902399	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P326040	
1902437	EPA 8321B	Sucralose**	0.078		ug/L	P326155	
	USGS O-2060-01	2,4-D	0.0095		ug/L	P325956	
		Diuron	0.057		ug/L	P325956	
		Fenuron	0.0040	U	ug/L	P325956	

Field ID: 420011013

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902437	USGS O-2060-01	Imidacloprid	0.014		ug/L	P325956	MS
		Bentazon	0.011		ug/L	P325956	MS
		Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCP	0.0020	U	ug/L	P325956	
		Carbamazepine**	0.0013	I	ug/L	P325956	
		Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	0.014		ug/L	P325956	
1902439	EPA 200.7 Rev. 4.4	Iron	30	U	ug/L	P326217	
		Zinc	5.0	U	ug/L	P326217	
	EPA 200.8 Rev. 5.4	Arsenic	1.49		ug/L	P326217	
		Cadmium	0.020	U	ug/L	P326217	
		Chromium	0.40	U	ug/L	P326217	
		Copper	0.49	I	ug/L	P326217	
		Lead	0.15	I	ug/L	P326217	
		Nickel	0.20	U	ug/L	P326217	
		Silver	0.010	U	ug/L	P326217	

Ref. Method and Comment:

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

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

Sample Location: Pompano Canal @ SR 811

Collection Date/Time: 05/30/2017 13:30

Field ID: 28030591

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902386	EPA 180.1 Rev. 2.0	Turbidity	1.8		NTU	P326052	
	EPA 300.0 Rev. 2.1	Chloride	69		mg Cl/L	P326781	
		Sulfate	19		mg SO4/L	P326783	MS
		Color (true)	52		PCU	P326044	
	SM 2320 B-97	Total Alkalinity	169		mg CaCO3/L	P326247	
	SM 2540 C-97	TDS	346		mg/L	P326285	
	SM 2540 D-97	TSS	3	I	mg/L	P326610	
	SM 4500 F-C-97	Fluoride	0.31		mg F/L	P326250	RPD
	EPA 350.1 Rev. 2.0	Ammonia-N	0.005	I	mg N/L	P326128	
		Kjeldahl Nitrogen	1.0		mg N/L	P326059	
1902389	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P326151	
	EPA 365.1 Rev. 2.0	Total-P	0.054		mg P/L	P326064	
	SM 5310 B-00	Organic Carbon	17		mg C/L	P326080	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.021		mg P/L	P326040	
	EPA 8321B	Sucralose**	0.037	I	ug/L	P326155	
		2,4-D	0.079		ug/L	P325956	
	USGS O-2060-01	Diuron	0.0019	I	ug/L	P325956	
		Fenuron	0.0040	U	ug/L	P325956	
		Imidacloprid	0.039		ug/L	P325956	MS
		Bentazon	0.032		ug/L	P325956	MS

Field ID: 28030591

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902434	USGS O-2060-01	Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCP	0.0041	I	ug/L	P325956	
		Carbamazepine**	4.0E-04	U	ug/L	P325956	
		Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	0.010		ug/L	P325956	

Ref. Method and Comment:

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

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

Sample Location: Cyprs CR LNL 441 BRDG Margare

Collection Date/Time: 05/30/2017 14:00

Field ID: 28030508

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1902387	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P326052	
	EPA 300.0 Rev. 2.1	Chloride	110		mg Cl/L	P326781	
		Sulfate	32		mg SO4/L	P326783	MS
	SM 2120 B	Color (true)	92	A	PCU	P326044	
	SM 2320 B-97	Total Alkalinity	202		mg CaCO3/L	P326247	
	SM 2540 C-97	TDS	541		mg/L	P326285	
	SM 2540 D-97	TSS	3	I	mg/L	P326610	
	SM 4500 F-C-97	Fluoride	0.52		mg F/L	P326250	RPD
1902390	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P326128	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P326059	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P326151	
	EPA 365.1 Rev. 2.0	Total-P	0.019		mg P/L	P326064	
	SM 5310 B-00	Organic Carbon	29		mg C/L	P326080	
1902393	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P326040	
1902435	EPA 8321B	Sucralose**	0.011	I	ug/L	P326155	
	USGS O-2060-01	2,4-D	0.0036		ug/L	P325956	
		Diuron	8.0E-04	U	ug/L	P325956	
		Fenuron	0.0040	U	ug/L	P325956	
		Imidacloprid	0.0021	I	ug/L	P325956	MS
		Bentazon	0.14		ug/L	P325956	MS
		Linuron	0.0040	U	ug/L	P325956	
		Acetaminophen**	0.0080	U	ug/L	P325956	
		MCP	0.0020	U	ug/L	P325956	
		Carbamazepine**	4.0E-04	U	ug/L	P325956	
		Triclopyr**	0.0040	U	ug/L	P325956	
		Primidone**	0.0040	U	ug/L	P325956	
		Fluridone**	8.8E-04	I	ug/L	P325956	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P326052

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326217

Component	Result	Code	Units
Iron	30	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326226

Component	Result	Code	Units
Iron	30	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326217

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326226

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L
Zinc	1.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326781

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326783

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326128

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326408

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326056

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326058

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326059

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326659

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326087

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326151

Component	Result	Code	Units
NO ₂ NO ₃ -N	0.004	U	mg N/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326338

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326063

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326064

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326429

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326039

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326040

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

Reference Method: EPA 8321B
Batch ID: P326155

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P326044

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P326047

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P326144

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

Reference Method: SM 2320 B-97
Batch ID: P326247

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

Reference Method: SM 2540 C-97
Batch ID: P326285

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326610

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326612

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P326615

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P326250

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P326357

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P326656

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
 Batch ID: P326080

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

Reference Method: SM 5310 B-00
 Batch ID: P326241

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

Reference Method: SM 5310 B-00
 Batch ID: P326724

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

Reference Method: USGS O-2060-01
 Batch ID: P325956

Component	Result	Code	Units
2,4-D	8.0E-04	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0040	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P326217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	106		P	85 - 115
Zinc	99.8		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P326226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	99.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P326217

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326217

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	91.0		P	85 - 115
Cadmium	98.7		P	85 - 115
Chromium	90.5		P	85 - 115
Copper	96.5		P	85 - 115
Lead	91.6		P	85 - 115
Nickel	97.9		P	85 - 115
Silver	94.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326226

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	97.9		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	100		P	85 - 115
Copper	97.5		P	85 - 115
Lead	97.7		P	85 - 115
Nickel	98.5		P	85 - 115
Silver	99.2		P	85 - 115
Zinc	99.6		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326781

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326783

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	92.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326128

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326408

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326056

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326058

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326059

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326659

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326087

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	103		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326151

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	98.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326338

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326063

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326064

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
Batch ID: P326429

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326040

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

Reference Method: EPA 8321B
Batch ID: P326155

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	49.0		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P326144

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

Reference Method: SM 2320 B-97
Batch ID: P326247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P326250

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.0		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P326357

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.6		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P326656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.5		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P326080

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.1		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326241

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326724

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

Reference Method: USGS O-2060-01
Batch ID: P325956

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	90.0		P	40 - 140
Acetaminophen	119		P	40 - 140
Bentazon	71.6		P	40 - 140
Carbamazepine	127		P	40 - 140
Diuron	129		P	40 - 140
Fenuron	111		P	40 - 140
Fluridone	127		P	40 - 140
Imidacloprid	110		P	40 - 160
Linuron	117		P	40 - 140
MCP	101		P	40 - 140
Primidone	112		P	40 - 140
Triclopyr	101		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902426	Iron	104		P	80 - 120
1902426	Zinc	96.3		P	80 - 120
1903011	Iron	106	105	P/P	80 - 120
1903011	Zinc	98.5	98.7	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902438	Iron	102	102	P/P	70 - 130
1903254	Iron	97.6		P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326217

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902426	Arsenic	95.1		P	80 - 120
1902426	Cadmium	99.0		P	80 - 120
1902426	Chromium	95.1		P	80 - 120
1902426	Copper	91.9		P	80 - 120
1902426	Lead	94.3		P	80 - 120
1902426	Nickel	93.3		P	80 - 120
1902426	Silver	95.0		P	80 - 120
1903011	Arsenic	97.4	98.4	P/P	80 - 120
1903011	Cadmium	101	103	P/P	80 - 120
1903011	Chromium	94.0	94.8	P/P	80 - 120
1903011	Copper	93.2	94.5	P/P	80 - 120
1903011	Lead	98.8	100	P/P	80 - 120
1903011	Nickel	95.0	95.9	P/P	80 - 120
1903011	Silver	94.7	95.6	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326226

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902438	Arsenic	108	109	P/P	70 - 130
1902438	Cadmium	100	101	P/P	70 - 130
1902438	Chromium	90.8	90.9	P/P	70 - 130
1902438	Copper	97.3	98.9	P/P	70 - 130
1902438	Lead	104	105	P/P	70 - 130
1902438	Nickel	104	105	P/P	70 - 130
1902438	Silver	96.3	95.5	P/P	70 - 130
1902438	Zinc	101	102	P/P	70 - 130
1903254	Arsenic	104		P	70 - 130
1903254	Cadmium	92.1		P	70 - 130
1903254	Chromium	84.7		P	70 - 130
1903254	Copper	99.1		P	70 - 130
1903254	Lead	108		P	70 - 130
1903254	Nickel	105		P	70 - 130
1903254	Silver	90.9		P	70 - 130
1903254	Zinc	88.5		P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326781

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902501	Chloride	91.2		P	90 - 110
1902522	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326783

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902501	Sulfate	85.8		F	90 - 110
1902522	Sulfate	94.7		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901230	Ammonia-N	108	108	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326128

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902365	Ammonia-N	106	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326408

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1904112	Ammonia-N	103	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902365	Kjeldahl Nitrogen	92.4	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326058

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902330	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326059

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902401	Kjeldahl Nitrogen	98.0	98.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1904811	Kjeldahl Nitrogen	99.4	99.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326087

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902272	NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902367	NO2NO3-N	103	103	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1903803	NO2NO3-N	106	107	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326063

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902273	Total-P	99.4	98.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326064

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902366	Total-P	94.9	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326429

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1903515	Total-P	93.2	92.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902334	O-Phosphate-P	98.1	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326040

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902391	O-Phosphate-P	95.5	93.3	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P326155

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902433	Sucralose	108	93.0	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P326250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902522	Fluoride	98.8	103	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P326357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1902394	Fluoride	97.3	98.8	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P326656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1904221	Fluoride	99.1	99.1	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P326080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901839	Organic Carbon	92.7	92.6	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326241

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901719	Organic Carbon	93.9	93.0	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P326724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1903792	Organic Carbon	89.2	89.0	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P325956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1901733	2,4-D	98.6	131	P/P	40 - 140
1901733	Acetaminophen	119	126	P/P	40 - 140
1901733	Bentazon	36.8	41.0	F/P	40 - 140
1901733	Carbamazepine	76.8	92.0	P/P	40 - 140
1901733	Diuron	62.4	74.0	P/P	40 - 140
1901733	Imidacloprid	144	177	P/F	40 - 160
1901733	Linuron	91.0	104	P/P	40 - 140
1901733	MCP	72.0	75.4	P/P	40 - 140
1901733	Primidone	79.2	94.4	P/P	40 - 140
1901733	Triclopyr	84.8	85.8	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P326052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902363	Turbidity	2.97	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903011	Iron	0.847	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903011	Zinc	0.202	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P326226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902438	Iron	0.255	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326217

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903011	Arsenic	0.968	Spike	P	0 - 20
1903011	Cadmium	1.70	Spike	P	0 - 20
1903011	Chromium	0.895	Spike	P	0 - 20
1903011	Copper	1.24	Spike	P	0 - 20
1903011	Lead	1.20	Spike	P	0 - 20
1903011	Nickel	0.929	Spike	P	0 - 20
1903011	Silver	1.03	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P326226

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902438	Arsenic	0.750	Spike	P	0 - 20
1902438	Cadmium	1.03	Spike	P	0 - 20
1902438	Chromium	0.0954	Spike	P	0 - 20
1902438	Copper	1.51	Spike	P	0 - 20
1902438	Lead	0.787	Spike	P	0 - 20
1902438	Nickel	0.285	Spike	P	0 - 20
1902438	Silver	0.768	Spike	P	0 - 20
1902438	Zinc	1.24	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326781

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902522	Chloride	2.16	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P326783

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902522	Sulfate	1.99	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901230	Ammonia-N	0.236	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902365	Ammonia-N	1.00	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P326408

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1904112	Ammonia-N	1.64	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902365	Kjeldahl Nitrogen	4.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326058

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902330	Kjeldahl Nitrogen	1.06	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326059

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902401	Kjeldahl Nitrogen	0.212	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P326659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1904811	Kjeldahl Nitrogen	0.148	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326087

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902272	NO2NO3-N	0.495	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902367	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P326338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903803	NO2NO3-N	0.372	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326063

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902273	Total-P	1.41	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326064

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902366	Total-P	8.58	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P326429

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903515	Total-P	0.833	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902334	O-Phosphate-P	1.13	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P326040

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902391	O-Phosphate-P	2.33	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P326155

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902433	Sucralose	14.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P326044

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902387	Color (true)	0.826	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P326047

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902364	Color (true)	0.618	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P326144

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902447	Total Alkalinity	0.0426	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P326247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902522	Total Alkalinity	0.332	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P326285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902364	TDS	3.49	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P326250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902522	Fluoride	3.32	Spike	F	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P326357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1902394	Fluoride	0.986	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P326656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1904221	Fluoride	0.0	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
 Batch ID: P326080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901839	Organic Carbon	0.0851	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P326241

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901719	Organic Carbon	0.927	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P326724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1903792	Organic Carbon	0.144	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P325956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1901733	2,4-D	2.71	Spike	P	0 - 30
1901733	Acetaminophen	5.38	Spike	P	0 - 30
1901733	Bentazon	4.39	Spike	P	0 - 30
1901733	Carbamazepine	18.0	Spike	P	0 - 30
1901733	Diuron	14.1	Spike	P	0 - 30
1901733	Fenuron	4.58	Spike	P	0 - 30
1901733	Fluridone	10.3	Spike	P	0 - 30
1901733	Imidacloprid	15.9	Spike	P	0 - 30
1901733	Linuron	12.9	Spike	P	0 - 30
1901733	MCP	4.61	Spike	P	0 - 30
1901733	Primidone	17.5	Spike	P	0 - 30
1901733	Triclopyr	1.17	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 1902433
 Field Sample ID: 28030516

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	102	P	40 - 150
USGS O-2060-01	2,4-D-d3	107	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	99.1	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	104	P	30 - 160
USGS O-2060-01	Diuron-d6	84.4	P	30 - 160
USGS O-2060-01	Primidone-d5	98.1	P	30 - 150

Quality Assurance Report Surrogates

Lab Sample ID: 1902434
Field Sample ID: 28030591

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	90.0	P	40 - 150
USGS O-2060-01	2,4-D-d3	99.4	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	83.7	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	91.9	P	30 - 160
USGS O-2060-01	Diuron-d6	66.6	P	30 - 160
USGS O-2060-01	Primidone-d5	85.3	P	30 - 150

Lab Sample ID: 1902435
Field Sample ID: 28030508

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	60.0	P	40 - 150
USGS O-2060-01	2,4-D-d3	98.2	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	128	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	88.4	P	30 - 160
USGS O-2060-01	Diuron-d6	68.8	P	30 - 160
USGS O-2060-01	Primidone-d5	75.6	P	30 - 150

Lab Sample ID: 1902436
Field Sample ID: G4SEB011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	60.8	P	40 - 150
USGS O-2060-01	2,4-D-d3	109	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	110	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	111	P	30 - 160
USGS O-2060-01	Diuron-d6	94.3	P	30 - 160
USGS O-2060-01	Primidone-d5	118	P	30 - 150

Lab Sample ID: 1902437
Field Sample ID: 420011013

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	107	P	40 - 150
USGS O-2060-01	2,4-D-d3	99.4	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	117	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	131	P	30 - 160
USGS O-2060-01	Diuron-d6	107	P	30 - 160
USGS O-2060-01	Primidone-d5	127	P	30 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A76783
Included Lab Sample IDs: 1902391, 1902392, 1902393, 1902396, 1902399

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

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A76785

Included Lab Sample IDs: 1902386, 1902387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	104	P/P	85 - 115

Reference Method: SM 2120 B

Run ID: A76786

Included Lab Sample IDs: 1902385

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A76787

Included Lab Sample IDs: 1902385, 1902386, 1902387, 1902394, 1902397

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

Reference Method: SM 5310 B-00

Run ID: A76794

Included Lab Sample IDs: 1902388, 1902389, 1902390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.3	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76797

Included Lab Sample IDs: 1902395

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76815

Included Lab Sample IDs: 1902388, 1902389, 1902390, 1902395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	103	104	P/P	90 - 110
Ammonia-N	104	105	P/P	90 - 110
Ammonia-N	105	104	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A76819

Included Lab Sample IDs: 1902394

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	104	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76822

Included Lab Sample IDs: 1902388, 1902389, 1902390

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A76822
Included Lab Sample IDs: 1902388, 1902389, 1902390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A76824
Included Lab Sample IDs: 1902389

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A76829
Included Lab Sample IDs: 1902388, 1902390, 1902395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.0	P/P	90 - 110
Total-P	99.8	99.2	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A76868
Included Lab Sample IDs: 1902395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	96.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A76869
Included Lab Sample IDs: 1902388, 1902395

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	102	102	P/P	90 - 110
Kjeldahl Nitrogen	99.4	99.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A76870
Included Lab Sample IDs: 1902389, 1902390

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.8	99.5	P/P	90 - 110

Reference Method: SM 2320 B-97
Run ID: A76873
Included Lab Sample IDs: 1902385, 1902386, 1902387, 1902397

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

Reference Method: SM 4500 F-C-97
Run ID: A76873
Included Lab Sample IDs: 1902385, 1902386, 1902387

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

Reference Method: SM 4500 F-C-97

Run ID: A76873

Included Lab Sample IDs: 1902385, 1902386, 1902387

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

Reference Method: EPA 8321B

Run ID: A76878

Included Lab Sample IDs: 1902433, 1902436, 1902437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	67.5	87.5	P/P	60 - 150
Sucralose	80.0	114	P/P	60 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76899

Included Lab Sample IDs: 1902439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	91.4	92.9	P/P	90 - 110
Cadmium	96.0	96.2	P/P	90 - 110
Silver	95.4	95.0	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A76900

Included Lab Sample IDs: 1902439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	104	103	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A76906

Included Lab Sample IDs: 1902438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	97.8	97.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76909

Included Lab Sample IDs: 1902398

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

Reference Method: SM 4500 F-C-97

Run ID: A76915

Included Lab Sample IDs: 1902394

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.6	98.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A76921

Included Lab Sample IDs: 1902433, 1902434, 1902435, 1902436, 1902437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	103	98.8	P/P	50 - 150
2,4-D	98.8	100	P/P	50 - 150
Acetaminophen	101	112	P/P	60 - 150
Acetaminophen	110	101	P/P	60 - 150
Bentazon	114	116	P/P	50 - 150
Bentazon	120	114	P/P	50 - 150
Carbamazepine	113	112	P/P	60 - 150
Carbamazepine	115	113	P/P	60 - 150
Diuron	113	114	P/P	60 - 150
Diuron	114	110	P/P	60 - 150
Fenuron	102	104	P/P	60 - 150
Fenuron	104	105	P/P	60 - 150
Fluridone	114	122	P/P	60 - 160
Fluridone	122	123	P/P	60 - 160
Imidacloprid	102	110	P/P	60 - 150
Imidacloprid	99.6	102	P/P	60 - 150
Linuron	104	108	P/P	60 - 150
Linuron	106	104	P/P	60 - 150
MCPP	95.6	94.8	P/P	50 - 150
MCPP	96.4	95.6	P/P	50 - 150
Primidone	102	104	P/P	60 - 150
Primidone	104	101	P/P	60 - 150
Triclopyr	95.2	98.0	P/P	50 - 150
Triclopyr	98.0	92.8	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76933

Included Lab Sample IDs: 1902398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	99.7	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76936

Included Lab Sample IDs: 1902439

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	95.4	94.8	P/P	90 - 110
Copper	95.0	94.6	P/P	90 - 110
Lead	94.2	94.0	P/P	90 - 110
Nickel	94.6	93.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76984

Included Lab Sample IDs: 1902398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A77029

Included Lab Sample IDs: 1902397

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	98.5	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A77054

Included Lab Sample IDs: 1902398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.2	95.4	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77055

Included Lab Sample IDs: 1902438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	99.5	97.2	P/P	90 - 110
Chromium	99.5	94.3	P/P	90 - 110
Copper	98.4	102	P/P	90 - 110
Lead	92.3	93.4	P/P	90 - 110
Nickel	97.6	101	P/P	90 - 110
Silver	98.2	98.3	P/P	90 - 110
Zinc	99.5	99.8	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A77072

Included Lab Sample IDs: 1902385, 1902386, 1902387

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.2	99.4	P/P	90 - 110
Chloride	99.4	95.5	P/P	90 - 110
Sulfate	104	98.0	P/P	90 - 110
Sulfate	98.0	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A77117

Included Lab Sample IDs: 1902398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	97.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A77154

Included Lab Sample IDs: 1902438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	96.6	99.1	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						2.97	
EPA 200.7 Rev. 4.4	Iron	106	104	106	105			0.847
	Iron	99.0	102	102	97.6			0.255
	Zinc	99.8	96.3	98.5	98.7			0.202
EPA 200.8 Rev. 5.4	Arsenic	91.0	95.1	97.4	98.4			0.968
	Arsenic	97.9	108	109	104			0.750
	Cadmium	98.7	99.0	101	103			1.70
	Cadmium	102	100	101	92.1			1.03
	Chromium	90.5	95.1	94.0	94.8			0.895
	Chromium	100	90.8	90.9	84.7			0.0954
	Copper	96.5	91.9	93.2	94.5			1.24
	Copper	97.5	97.3	98.9	99.1			1.51
	Lead	91.6	94.3	98.8	100			1.20
	Lead	97.7	104	105	108			0.787
	Nickel	97.9	93.3	95.0	95.9			0.929
	Nickel	98.5	104	105	105			0.285
	Silver	94.8	95.0	94.7	95.6			1.03
	Silver	99.2	96.3	95.5	90.9			0.768
	Zinc	99.6	101	102	88.5			1.24
EPA 300.0 Rev. 2.1	Chloride	95.5	102	91.2			2.16	
	Sulfate	92.1	94.7	85.8			1.99	
EPA 350.1 Rev. 2.0	Ammonia-N	103	108	108				0.236
	Ammonia-N	106	106	105				1.00
	Ammonia-N	97.4	103	101				1.64
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.5	92.4	101				4.45
	Kjeldahl Nitrogen	100	101	102				1.06
	Kjeldahl Nitrogen	100	98.0	98.3				0.212
	Kjeldahl Nitrogen	100	99.4	99.6				0.148
EPA 353.2 Rev. 2.0	NO2NO3-N	103	101	101				0.495
	NO2NO3-N	98.5	103	103				0.0
	NO2NO3-N	105	106	107				0.372
EPA 365.1 Rev. 2.0	Total-P	100	99.4	98.0				1.41
	Total-P	101	94.9	105				8.58
	Total-P	99.8	93.2	92.4				0.833
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2	98.1	97.0				1.13
	O-Phosphate-P	98.3	95.5	93.3				2.33
EPA 8321B	Sucralose	49.0	108	93.0				14.9
SM 2120 B	Color (true)						0.826	
	Color (true)						0.618	
SM 2320 B-97	Total Alkalinity	103					0.0426	
	Total Alkalinity	104					0.332	
SM 2540 C-97	TDS						3.49	
SM 4500 F-C-97	Fluoride	96.0	98.8	103				3.32
	Fluoride	96.6	97.3	98.8				0.986
	Fluoride	96.5	99.1	99.1				0.0
SM 5310 B-00	Organic Carbon	96.1	92.7	92.6				0.0851
	Organic Carbon	94.6	93.9	93.0				0.927
	Organic Carbon	90.9	89.2	89.0				0.144
USGS O-2060-01	2,4-D	90.0	98.6	131				2.71
	Acetaminophen	119	119	126				5.38
	Bentazon	71.6	36.8	41.0				4.39
	Carbamazepine	127	76.8	92.0				18.0
	Diuron	129	62.4	74.0				14.1
	Fenuron	111						4.58

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Fluridone	127				10.3
	Imidacloprid	110	144	177		15.9
	Linuron	117	91.0	104		12.9
	MCP	101	72.0	75.4		4.61
	Primidone	112	79.2	94.4		17.5
	Triclopyr	101	84.8	85.8		1.17

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1902385, 1902386, 1902387, 1902394, 1902397
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1902438, 1902439
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1902438, 1902439
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1902385, 1902386, 1902387
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1902385, 1902386, 1902387
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1902388, 1902389, 1902390, 1902395, 1902398
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1902388, 1902389, 1902390, 1902395, 1902398
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1902388, 1902389, 1902390, 1902395, 1902398
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1902388, 1902389, 1902390, 1902395, 1902398
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1902391, 1902392, 1902393, 1902396, 1902399
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1902433, 1902434, 1902435, 1902436, 1902437
SM 2120 B / E31780	True Color measured at 450 nm	1902385, 1902386, 1902387
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1902385, 1902386, 1902387, 1902394, 1902397
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1902385, 1902386, 1902387
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1902385, 1902386, 1902387, 1902394, 1902397
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1902385, 1902386, 1902387, 1902394, 1902397
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1902388, 1902389, 1902390, 1902395, 1902398
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1902433, 1902434, 1902435, 1902436, 1902437
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1902433, 1902434, 1902435, 1902436, 1902437

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	05/31/2017			05/31/2017 17:24	Sima Feizi	1902385, 1902386, 1902387, 1902394, 1902397
EPA 200.7 Rev. 4.4	05/31/2017	06/05/2017	Elliott D. Healy	06/06/2017	Betina Topolski	1902438, 1902439
EPA 200.8 Rev. 5.4	05/31/2017	06/05/2017	Elliott D. Healy	06/07/2017	Robert K Palmer	1902439
	05/31/2017	06/05/2017	Elliott D. Healy	06/14/2017	Robert K Palmer	1902438
	05/31/2017	06/05/2017	Elliott D. Healy	06/16/2017	Robert K Palmer	1902438
EPA 300.0 Rev. 2.1	05/31/2017			06/14/2017	Julia Storbeck	1902385, 1902386, 1902387
EPA 350.1 Rev. 2.0	05/31/2017			06/01/2017	Julie Michelle Frank	1902388, 1902389, 1902390, 1902395
	05/31/2017			06/07/2017	Julie Michelle Frank	1902398
EPA 351.2 Rev. 2.0	05/31/2017	06/01/2017	Adrian Shelby	06/05/2017	Joseph Suarez	1902388, 1902389, 1902390, 1902395
	05/31/2017	06/13/2017	Adrian Shelby	06/15/2017	Joseph Suarez	1902398
EPA 353.2 Rev. 2.0	05/31/2017			06/01/2017	Beverly Y. Sanders	1902395
	05/31/2017			06/02/2017	Beverly Y. Sanders	1902388, 1902389, 1902390
	05/31/2017			06/07/2017	Beverly Y. Sanders	1902398
EPA 365.1 Rev. 2.0	05/31/2017	06/01/2017	Adrian Shelby	06/02/2017	Lipi Saha	1902388, 1902389, 1902390, 1902395
	05/31/2017	06/08/2017	Adrian Shelby	06/09/2017	Lipi Saha	1902398
EPA 365.1 Rev. 2.0 dissolved	05/31/2017			05/31/2017 14:08	Lipi Saha	1902391
	05/31/2017			05/31/2017 14:21	Lipi Saha	1902396
	05/31/2017			05/31/2017 14:32	Lipi Saha	1902392
	05/31/2017			05/31/2017 14:33	Lipi Saha	1902393
	05/31/2017			05/31/2017 14:34	Lipi Saha	1902399
EPA 8321B	05/31/2017	06/05/2017	Mohammad Ghaffari	06/05/2017	Mohammad Ghaffari	1902436, 1902437
	05/31/2017	06/05/2017	Mohammad Ghaffari	06/06/2017	Mohammad Ghaffari	1902433, 1902434, 1902435
SM 2120 B	05/31/2017			05/31/2017 15:58	Tanya Welborn	1902386
	05/31/2017			05/31/2017 16:00	Tanya Welborn	1902387
	05/31/2017			05/31/2017 16:08	Tanya Welborn	1902385
SM 2320 B-97	05/31/2017			06/01/2017	Dale L. Simmons	1902394
	05/31/2017			06/03/2017	Dale L. Simmons	1902385, 1902386, 1902387, 1902397
SM 2540 C-97	05/31/2017			06/02/2017	Yijie Li	1902385, 1902386, 1902387
SM 2540 D-97	05/31/2017			06/02/2017	Yijie Li	1902385, 1902386, 1902387, 1902394, 1902397
SM 4500 F-C-97	05/31/2017			06/03/2017	Dale L. Simmons	1902385, 1902386, 1902387
	05/31/2017			06/06/2017	Dale L. Simmons	1902394
	05/31/2017			06/12/2017	Dale L. Simmons	1902397
SM 5310 B-00	05/31/2017			05/31/2017	Julie Michelle Frank	1902388, 1902389, 1902390
	05/31/2017			06/05/2017	Christopher Armour	1902395
	05/31/2017			06/13/2017	Christopher Armour	1902398
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