

Chemical Analysis Report

NW-DIST-2017-05-11-02

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

Event Description: **Eglin West WBID 468A 495 644 786A 620 843A**

Request ID: **RQ-2017-05-08-49**

Customer: **NW-DIST**

Project ID: **SMP**

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

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator Date Certified: 07-JUN-2017 10:07



Case Narrative

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

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

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Choctawhatchee Bay, Lower Sect. B Background

Collection Date/Time: 05/10/2017 12:30

Field ID: G3NW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898669	EPA 180.1 Rev. 2.0	Turbidity	0.70		NTU	P325131	
	SM 2320 B-97	Total Alkalinity	88		mg CaCO3/L	P325592	
	SM 2540 D-97	TSS	3	U	mg/L	P325534	
	SM 4500 F-C-97	Fluoride	0.81		mg F/L	P325882	
1898671	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P325120	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21	I	mg N/L	P325451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	U	mg N/L	P325490	
	EPA 365.1 Rev. 2.0	Total-P	0.008	I	mg P/L	P325747	
	SM 5310 B-00	Organic Carbon	2.5		mg C/L	P326008	
1898673	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325175	

Ref. Method and Comment:

EPA 353.2 Rev. 2.0: NO2NO3-N: The MDL was elevated due to sample matrix interference.

Sample Location: Choctawhatchee Bay, Lower Sect. B Background

Collection Date/Time: 05/10/2017 12:30

Field ID: G3NW0089

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898719	EPA 8321B	Sucralose**	0.055		ug/L	P325291	
	USGS O-2060-01	2,4-D	0.0013	I	ug/L	P324958	
		Diuron	8.0E-04	U	ug/L	P324958	
		Fenuron	0.0040	U	ug/L	P324958	
		Imidacloprid	8.0E-04	U	ug/L	P324958	MS
		Bentazon	8.0E-04	U	ug/L	P324958	
		Linuron	0.0040	U	ug/L	P324958	
		Acetaminophen**	0.0080	U	ug/L	P324958	
		MCPPE	8.0E-04	U	ug/L	P324958	
		Carbamazepine**	4.0E-04	U	ug/L	P324958	
		Triclopyr**	0.0040	U	ug/L	P324958	
		Primidone**	0.0040	U	ug/L	P324958	
		Fluridone**	4.0E-04	U	ug/L	P324958	

Sample Location: Choctaw. Bay Lower Sect. B. Background

Collection Date/Time: 05/10/2017 12:35

Field ID: G3NW0089DUPLICATE

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898670	EPA 180.1 Rev. 2.0	Turbidity	0.45		NTU	P325131	
	SM 2320 B-97	Total Alkalinity	89		mg CaCO3/L	P325592	
	SM 2540 D-97	TSS	3	U	mg/L	P325535	
	SM 4500 F-C-97	Fluoride	0.81		mg F/L	P325882	
1898672	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P325120	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.25	I	mg N/L	P325451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	U	mg N/L	P325490	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P325747	

Field ID: G3NW0089DUPLICATE

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898672	SM 5310 B-00	Organic Carbon	2.5		mg C/L	P326008	
1898674	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P325175	

Ref. Method and Comment:

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

EPA 353.2 Rev. 2.0: NO2NO3-N: The MDL was elevated due to sample matrix interference.

Sample Location: Choctaw. Bay Lower Sect. B. Background

Collection Date/Time: 05/10/2017 12:35

Field ID: G3NW0089DUPLICATE

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898720	EPA 8321B	Sucralose**	0.072		ug/L	P325291	
	USGS O-2060-01	2,4-D	8.8E-04	I	ug/L	P325285	
		Diuron	8.0E-04	U	ug/L	P325285	
		Fenuron	0.0040	U	ug/L	P325285	
		Imidacloprid	8.0E-04	U	ug/L	P325285	MS
		Bentazon	8.0E-04	U	ug/L	P325285	
		Linuron	0.0040	U	ug/L	P325285	
		Acetaminophen**	0.0080	U	ug/L	P325285	
		MCP	8.0E-04	U	ug/L	P325285	
		Carbamazepine**	4.0E-04	U	ug/L	P325285	
		Triclopyr**	0.0040	U	ug/L	P325285	
		Primidone**	0.0040	U	ug/L	P325285	
		Fluridone**	4.0E-04	U	ug/L	P325285	

Sample Location: Lake Earl, Center

Collection Date/Time: 05/10/2017 13:10

Field ID: G3NW0090

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898755	EPA 180.1 Rev. 2.0	Turbidity	2.0	A	NTU	P325308	
	SM 2320 B-97	Total Alkalinity	92		mg CaCO3/L	P325592	
	SM 2540 D-97	TSS	4	I	mg/L	P325681	
	SM 4500 F-C-97	Fluoride	0.84		mg F/L	P325882	
1898758	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P325280	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P325451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P325491	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P325250	
	SM 5310 B-00	Organic Carbon	3.4		mg C/L	P326008	
1898761	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.020		mg P/L	P325224	

Ref. Method and Comment:

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

Sample Location: Garnier Bayou @ Paradise Point

Collection Date/Time: 05/10/2017 13:50

Field ID: G3NW0087

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898756	EPA 180.1 Rev. 2.0	Turbidity	0.45		NTU	P325308	

Field ID: G3NW0087

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898756	SM 2320 B-97	Total Alkalinity	82		mg CaCO3/L	P325592	
	SM 2540 D-97	TSS	3	U	mg/L	P325681	
	SM 4500 F-C-97	Fluoride	0.76		mg F/L	P325882	
1898759	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P325280	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24	I	mg N/L	P325451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P325491	
	EPA 365.1 Rev. 2.0	Total-P	0.009	I	mg P/L	P325250	
	SM 5310 B-00	Organic Carbon	2.2		mg C/L	P326008	
1898762	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325224	

Ref. Method and Comment:

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

Sample Location: Poquito Bayou

Collection Date/Time: 05/10/2017 13:50

Field ID: G3NW0086

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898757	EPA 180.1 Rev. 2.0	Turbidity	0.60		NTU	P325308	
	SM 2320 B-97	Total Alkalinity	85		mg CaCO3/L	P325592	
	SM 2540 D-97	TSS	3	UA	mg/L	P325681	
	SM 4500 F-C-97	Fluoride	0.81		mg F/L	P325882	
1898760	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P325280	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.20	I	mg N/L	P325451	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P325491	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P325338	
	SM 5310 B-00	Organic Carbon	2.1		mg C/L	P326008	
1898763	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325224	

Ref. Method and Comment:

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

Sample Location: Poquito Bayou

Collection Date/Time: 05/10/2017 13:50

Field ID: G3NW0086

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1898769	EPA 8321B	Sucralose**	0.13		ug/L	P325291	
	USGS O-2060-01	2,4-D	9.6E-04	I	ug/L	P325285	
		Diuron	8.0E-04	U	ug/L	P325285	
		Fenuron	0.0040	U	ug/L	P325285	
		Imidacloprid	0.0079	J	ug/L	P325285	MS
		Bentazon	8.0E-04	U	ug/L	P325285	
		Linuron	0.0040	U	ug/L	P325285	
		Acetaminophen**	0.0080	U	ug/L	P325285	
		MCP	8.0E-04	U	ug/L	P325285	
		Carbamazepine**	5.6E-04	I	ug/L	P325285	
		Triclopyr**	0.0040	U	ug/L	P325285	
		Primidone**	0.0040	U	ug/L	P325285	
		Fluridone**	4.0E-04	U	ug/L	P325285	

Field ID: G3NW0086

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:

USGS O-2060-01: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P325131

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P325308

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P325120

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

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P325280

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P325451

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P325490

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P325491

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

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P325250

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325338

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325747

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325175

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325224

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

Reference Method: EPA 8321B
Batch ID: P325291

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P325592

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

Reference Method: SM 2540 D-97
Batch ID: P325534

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P325535

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P325681

Component	Result	Code	Units
TSS	3	U	mg/L

Quality Assurance Report Method Blank Results

Reference Method: SM 4500 F-C-97
 Batch ID: P325882

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
 Batch ID: P326008

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

Reference Method: USGS O-2060-01
 Batch ID: P324958

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	8.0E-04	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: USGS O-2060-01
 Batch ID: P325285

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	8.0E-04	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 350.1 Rev. 2.0
 Batch ID: P325120

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325280

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325451

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325490

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	94.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325491

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325250

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325338

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325747

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325175

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325224

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P325291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	78.3		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P325592

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

Reference Method: SM 4500 F-C-97
Batch ID: P325882

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.3		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P326008

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P324958

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	65.0		P	40 - 140
Acetaminophen	81.3		P	40 - 140
Bentazon	56.7		P	40 - 140
Carbamazepine	88.2		P	40 - 140
Diuron	117		P	40 - 140
Fenuron	117		P	40 - 140
Fluridone	94.2		P	40 - 140
Imidacloprid	113		P	40 - 160
Linuron	111		P	40 - 140
MCPP	69.0		P	40 - 140
Primidone	101		P	40 - 140
Triclopyr	66.6		P	40 - 140

Reference Method: USGS O-2060-01
Batch ID: P325285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.4		P	40 - 140
Acetaminophen	86.2		P	40 - 140
Bentazon	70.6		P	40 - 140
Carbamazepine	107		P	40 - 140
Diuron	108		P	40 - 140
Fenuron	93.2		P	40 - 140
Fluridone	103		P	40 - 140
Imidacloprid	92.0		P	40 - 160
Linuron	100		P	40 - 140
MCPP	91.4		P	40 - 140
Primidone	98.0		P	40 - 140

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: USGS O-2060-01
 Batch ID: P325285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Triclopyr	94.8		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P325120

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898348	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P325280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898929	Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P325451

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898759	Kjeldahl Nitrogen	102	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P325490

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898672	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P325491

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898759	NO2NO3-N	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898671	Total-P	92.7	93.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325338

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898791	Total-P	90.0	90.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325747

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900358	Total-P	96.4	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P325175

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898673	O-Phosphate-P	98.1	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P325224

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898761	O-Phosphate-P	97.4	97.2	P/P	90 - 110

Reference Method: EPA 8321B
 Batch ID: P325291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898904	Sucralose	59.7	55.5	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P325882

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898426	Fluoride	92.2	93.0	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P326008

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898609	Organic Carbon	92.6	92.1	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P324958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1897361	2,4-D	67.6	62.2	P/P	40 - 140
1897361	Acetaminophen	80.7	96.1	P/P	40 - 140
1897361	Bentazon	64.4	58.9	P/P	40 - 140
1897361	Carbamazepine	76.0	76.4	P/P	40 - 140
1897361	Diuron	89.9	83.7	P/P	40 - 140
1897361	Fenuron	80.1	77.8	P/P	40 - 140
1897361	Fluridone	66.7	54.6	P/P	40 - 140
1897361	Imidacloprid	201	188	F/F	40 - 160
1897361	Linuron	101	95.8	P/P	40 - 140
1897361	MCP	59.3	55.9	P/P	40 - 140
1897361	Primidone	100	97.5	P/P	40 - 140
1897361	Triclopyr	58.8	57.9	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: USGS O-2060-01
Batch ID: P325285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898769	2,4-D	81.2	80.8	P/P	40 - 140
1898769	Acetaminophen	97.0	95.4	P/P	40 - 140
1898769	Bentazon	45.6	45.4	P/P	40 - 140
1898769	Carbamazepine	110	122	P/P	40 - 140
1898769	Diuron	111	97.2	P/P	40 - 140
1898769	Fenuron	85.0	88.2	P/P	40 - 140
1898769	Fluridone	46.0	45.0	P/P	40 - 140
1898769	Imidacloprid	156	161	P/F	40 - 160
1898769	Linuron	97.6	102	P/P	40 - 140
1898769	MCP	82.0	75.4	P/P	40 - 140
1898769	Primidone	102	112	P/P	40 - 140
1898769	Triclopyr	83.2	82.4	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325131

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898481	Turbidity	0.861	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325308

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898755	Turbidity	0.0	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325120

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898348	Ammonia-N	1.31	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898929	Ammonia-N	0.149	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325451

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898759	Kjeldahl Nitrogen	0.884	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325490

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898672	NO2NO3-N	0.990	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325491

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898759	NO2NO3-N	0.326	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898671	Total-P	1.23	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325338

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898791	Total-P	0.360	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900358	Total-P	3.92	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325175

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898673	O-Phosphate-P	1.72	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325224

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898761	O-Phosphate-P	0.170	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P325291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898904	Sucralose	6.94	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
Batch ID: P325592

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898380	Total Alkalinity	0.354	Sample	P	0 - 4.8

Reference Method: SM 2540 D-97
Batch ID: P325534

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898344	TSS	2.15	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P325882

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898426	Fluoride	0.483	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P326008

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898609	Organic Carbon	0.394	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P324958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1897361	2,4-D	7.18	Spike	P	0 - 30
1897361	Acetaminophen	17.4	Spike	P	0 - 30
1897361	Bentazon	6.98	Spike	P	0 - 30
1897361	Carbamazepine	0.466	Spike	P	0 - 30
1897361	Diuron	7.00	Spike	P	0 - 30
1897361	Fenuron	2.84	Spike	P	0 - 30
1897361	Fluridone	10.1	Spike	P	0 - 30
1897361	Imidacloprid	6.57	Spike	P	0 - 30
1897361	Linuron	4.89	Spike	P	0 - 30
1897361	MCP	5.68	Spike	P	0 - 30
1897361	Primidone	2.79	Spike	P	0 - 30
1897361	Triclopyr	1.58	Spike	P	0 - 30

Reference Method: USGS O-2060-01
Batch ID: P325285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898769	2,4-D	0.480	Spike	P	0 - 30
1898769	Acetaminophen	1.66	Spike	P	0 - 30
1898769	Bentazon	0.440	Spike	P	0 - 30
1898769	Carbamazepine	10.4	Spike	P	0 - 30
1898769	Diuron	12.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: USGS O-2060-01
Batch ID: P325285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898769	Fenuron	3.70	Spike	P	0 - 30
1898769	Fluridone	2.20	Spike	P	0 - 30
1898769	Imidacloprid	2.81	Spike	P	0 - 30
1898769	Linuron	4.21	Spike	P	0 - 30
1898769	MCP	8.39	Spike	P	0 - 30
1898769	Primidone	9.74	Spike	P	0 - 30
1898769	Triclopyr	0.966	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: 1898719
Field Sample ID: G3NW0089

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	85.5	P	40 - 150
USGS O-2060-01	2,4-D-d3	81.5	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	99.2	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	108	P	30 - 160
USGS O-2060-01	Diuron-d6	99.6	P	30 - 150
USGS O-2060-01	Primidone-d5	108	P	30 - 150

Lab Sample ID: 1898720
Field Sample ID: G3NW0089DUPLICATE

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	84.0	P	40 - 150
USGS O-2060-01	2,4-D-d3	80.8	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	97.7	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	115	P	30 - 160
USGS O-2060-01	Diuron-d6	96.6	P	30 - 150
USGS O-2060-01	Primidone-d5	97.0	P	30 - 150

Lab Sample ID: 1898769
Field Sample ID: G3NW0086

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	103	P	40 - 150
USGS O-2060-01	2,4-D-d3	81.5	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	63.7	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	121	P	30 - 160
USGS O-2060-01	Diuron-d6	91.5	P	30 - 150
USGS O-2060-01	Primidone-d5	101	P	30 - 150

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A76358
Included Lab Sample IDs: 1898671, 1898672

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A76360
Included Lab Sample IDs: 1898669, 1898670

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A76368
Included Lab Sample IDs: 1898673, 1898674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.8	99.4	P/P	90 - 110
O-Phosphate-P	98.1	96.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A76386
Included Lab Sample IDs: 1898761, 1898762, 1898763

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.9	98.4	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A76421
Included Lab Sample IDs: 1898758, 1898759, 1898760

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A76437
Included Lab Sample IDs: 1898755, 1898756, 1898757

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A76456
Included Lab Sample IDs: 1898758, 1898759

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A76491
Included Lab Sample IDs: 1898760

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76491

Included Lab Sample IDs: 1898760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76509

Included Lab Sample IDs: 1898671, 1898672, 1898758, 1898759, 1898760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110
NO2NO3-N	100	98.5	P/P	90 - 110
NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76559

Included Lab Sample IDs: 1898719, 1898720, 1898769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	93.4	104	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A76561

Included Lab Sample IDs: 1898669, 1898670, 1898755, 1898756, 1898757

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	105	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76562

Included Lab Sample IDs: 1898671, 1898672, 1898758, 1898759, 1898760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	107	102	P/P	90 - 110
Kjeldahl Nitrogen	108	107	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A76569

Included Lab Sample IDs: 1898719, 1898720, 1898769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.6	93.6	P/P	50 - 150
2,4-D	98.4	95.6	P/P	50 - 150
Acetaminophen	94.8	89.6	P/P	60 - 150
Acetaminophen	95.6	94.8	P/P	60 - 150
Bentazon	101	98.8	P/P	50 - 150
Bentazon	98.8	101	P/P	50 - 150
Carbamazepine	105	96.0	P/P	60 - 150
Carbamazepine	111	105	P/P	60 - 150
Diuron	103	98.4	P/P	60 - 150
Diuron	98.4	88.0	P/P	60 - 150
Fenuron	103	96.0	P/P	60 - 150
Fenuron	107	103	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: USGS O-2060-01

Run ID: A76569

Included Lab Sample IDs: 1898719, 1898720, 1898769

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	101	94.4	P/P	60 - 150
Fluridone	111	101	P/P	60 - 150
Imidacloprid	95.6	99.2	P/P	60 - 150
Imidacloprid	99.2	82.4	P/P	60 - 150
Linuron	100	94.0	P/P	60 - 150
Linuron	94.0	83.2	P/P	60 - 150
MCPPP	92.8	94.8	P/P	50 - 150
MCPPP	94.8	88.8	P/P	50 - 150
Primidone	80.4	89.2	P/P	60 - 150
Primidone	97.6	80.4	P/P	60 - 150
Triclopyr	100	101	P/P	50 - 150
Triclopyr	101	95.2	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76677

Included Lab Sample IDs: 1898671, 1898672

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	94.2	92.8	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A76685

Included Lab Sample IDs: 1898669, 1898670, 1898755, 1898756, 1898757

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	101	101	P/P	90 - 110
Fluoride	97.1	101	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A76758

Included Lab Sample IDs: 1898671, 1898672, 1898758, 1898759, 1898760

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	94.8	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				0.861	
	Turbidity				0.0	
EPA 350.1 Rev. 2.0	Ammonia-N	106	105	104		1.31
	Ammonia-N	103	103	103		0.149
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	102	101		0.884
EPA 353.2 Rev. 2.0	NO2NO3-N	94.0	100	102		0.990

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 353.2 Rev. 2.0	NO2NO3-N	100	102	103		0.326
EPA 365.1 Rev. 2.0	Total-P	101	92.7	93.8		1.23
	Total-P	101	90.0	90.4		0.360
	Total-P	107	96.4	100		3.92
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	98.1	99.8		1.72
	O-Phosphate-P	104	97.4	97.2		0.170
EPA 8321B	Sucralose	78.3	59.7	55.5		6.94
SM 2320 B-97	Total Alkalinity	104			0.354	
SM 2540 D-97	TSS				2.15	
SM 4500 F-C-97	Fluoride	96.3	92.2	93.0		0.483
SM 5310 B-00	Organic Carbon	95.0	92.6	92.1		0.394
USGS O-2060-01	2,4-D	65.0	67.6	62.2		7.18
	2,4-D	88.4	81.2	80.8		0.480
	Acetaminophen	81.3	80.7	96.1		17.4
	Acetaminophen	86.2	97.0	95.4		1.66
	Bentazon	56.7	64.4	58.9		6.98
	Bentazon	70.6	45.6	45.4		0.440
	Carbamazepine	88.2	76.0	76.4		0.466
	Carbamazepine	107	110	122		10.4
	Diuron	117	89.9	83.7		7.00
	Diuron	108	111	97.2		12.9
	Fenuron	117	80.1	77.8		2.84
	Fenuron	93.2	85.0	88.2		3.70
	Fluridone	94.2	66.7	54.6		10.1
	Fluridone	103	46.0	45.0		2.20
	Imidacloprid	113	201	188		6.57
	Imidacloprid	92.0	156	161		2.81
	Linuron	111	101	95.8		4.89
	Linuron	100	97.6	102		4.21
	MCPP	69.0	59.3	55.9		5.68
	MCPP	91.4	82.0	75.4		8.39
	Primidone	101	100	97.5		2.79
	Primidone	98.0	102	112		9.74
	Triclopyr	66.6	58.8	57.9		1.58
	Triclopyr	94.8	83.2	82.4		0.966

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1898669, 1898670, 1898755, 1898756, 1898757
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1898671, 1898672, 1898758, 1898759, 1898760
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1898671, 1898672, 1898758, 1898759, 1898760
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1898671, 1898672, 1898758, 1898759, 1898760
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1898671, 1898672, 1898758, 1898759, 1898760
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1898673, 1898674, 1898761, 1898762, 1898763
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1898719, 1898720, 1898769
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1898669, 1898670, 1898755, 1898756, 1898757

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1898669, 1898670, 1898755, 1898756, 1898757
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1898669, 1898670, 1898755, 1898756, 1898757
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1898671, 1898672, 1898758, 1898759, 1898760
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1898719, 1898720, 1898769
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1898719, 1898720, 1898769

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	05/11/2017			05/11/2017 15:50	Sima Feizi	1898669, 1898670
	05/12/2017			05/12/2017 11:32	Blanca Fach	1898755, 1898756, 1898757
EPA 350.1 Rev. 2.0	05/11/2017			05/11/2017	Julie Michelle Frank	1898671, 1898672
	05/12/2017			05/15/2017	Julia Storbeck	1898758, 1898759, 1898760
EPA 351.2 Rev. 2.0	05/11/2017	05/18/2017	Adrian Shelby	05/19/2017	Joseph Suarez	1898671, 1898672
	05/12/2017	05/18/2017	Adrian Shelby	05/19/2017	Joseph Suarez	1898758, 1898759, 1898760
EPA 353.2 Rev. 2.0	05/11/2017			05/18/2017	Beverly Y. Sanders	1898671, 1898672
	05/12/2017			05/18/2017	Beverly Y. Sanders	1898758, 1898759, 1898760
EPA 365.1 Rev. 2.0	05/11/2017	05/24/2017	Vijayalakshmi Reddy	05/25/2017	Lipi Saha	1898671, 1898672
	05/12/2017	05/15/2017	Vijayalakshmi Reddy	05/16/2017	Lipi Saha	1898758, 1898759
	05/12/2017	05/16/2017	Adrian Shelby	05/17/2017	Lipi Saha	1898760
EPA 365.1 Rev. 2.0 dissolved	05/11/2017			05/11/2017 15:13	Anthony C. Onicha	1898673
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	05/12/2017			05/12/2017 12:29	Anthony C. Onicha	1898761
	05/12/2017			05/12/2017 12:32	Anthony C. Onicha	1898762, 1898763
EPA 8321B	05/11/2017	05/18/2017	Mohammad Ghaffari	05/18/2017	Mohammad Ghaffari	1898719, 1898720
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SM 2320 B-97	05/11/2017			05/20/2017	Dale L. Simmons	1898669, 1898670
	05/12/2017			05/20/2017	Dale L. Simmons	1898755, 1898756, 1898757
SM 2540 D-97	05/11/2017			05/15/2017	Sima Feizi	1898669, 1898670
	05/12/2017			05/17/2017	Yijie Li	1898755, 1898756, 1898757
SM 4500 F-C-97	05/11/2017			05/26/2017	Dale L. Simmons	1898669, 1898670
	05/12/2017			05/26/2017	Dale L. Simmons	1898755, 1898756, 1898757
SM 5310 B-00	05/11/2017			05/30/2017	Julie Michelle Frank	1898671, 1898672
	05/12/2017			05/30/2017	Julie Michelle Frank	1898758, 1898759, 1898760
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	05/11/2017	05/17/2017	Hoor Shaik	05/20/2017	Juyoung Kim	1898720
	05/12/2017	05/17/2017	Hoor Shaik	05/20/2017	Juyoung Kim	1898769