

Chemical Analysis Report

CEN-DIST-2018-07-12-01

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

Event Description: **Wekiva (W) / Six / Gee / Soldier / Howell**

Request ID: **RQ-2018-07-09-47**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

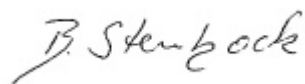
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 30-JUL-2018 11:40



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: HOWELL CREEK @ US OF LAKE HOWELL LN Collection Date/Time: 07/11/2018 11:34

Field ID: G2CE0138

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006693	EPA 8321B	2,4-D	0.038		ug/L	P348297	
		Bentazon	0.082		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.0055	I	ug/L	P348297	
		Diuron	0.0032	I	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.014	I	ug/L	P348297	
		Carbamazepine**	4.0E-04	U	ug/L	P348297	
		Fluridone**	0.082		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	0.21		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

**Sample Location: HOWELL CREEK @ 150M US OF LAKE
HOWELL**

Collection Date/Time: 07/11/2018 11:50

Field ID: G2CE0072

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006694	EPA 8321B	2,4-D	0.034		ug/L	P348297	
		Bentazon	0.078		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.0066	I	ug/L	P348297	
		Diuron	0.0028	I	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.020		ug/L	P348297	
		Carbamazepine**	4.0E-04	U	ug/L	P348297	
		Fluridone**	0.072		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	0.26		ug/L	P348298	MS, RPD

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: GEE CREEK @ SR HWY 419

Collection Date/Time: 07/11/2018 12:24

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006687	EPA 8321B	2,4-D	0.059		ug/L	P348297	
		Bentazon	0.055		ug/L	P348297	
		MCP	0.0020	I	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.018		ug/L	P348297	
		Diuron	0.0020	U	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.090		ug/L	P348297	
		Carbamazepine**	0.0013	I	ug/L	P348297	
		Fluridone**	0.034		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	1.0		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: GEE CREEK @ ALTON RD.

Collection Date/Time: 07/11/2018 12:42

Field ID: G2CE0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006688	EPA 8321B	2,4-D	0.067		ug/L	P348297	
		Bentazon	0.028		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.043		ug/L	P348297	
		Diuron	0.0022	I	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.089		ug/L	P348297	
		Carbamazepine**	0.0012	I	ug/L	P348297	
		Fluridone**	0.041		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	0.98		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: SOLDIER CREEK @ JUST DOWNSTREAM OF SR HWY 419 **Collection Date/Time: 07/11/2018 13:02**

Field ID: G2CE0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006691	EPA 8321B	2,4-D	0.0078	I	ug/L	P348297	
		Bentazon	0.061		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.024		ug/L	P348297	
		Diuron	0.0020	U	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.23		ug/L	P348297	
		Carbamazepine**	0.0033		ug/L	P348297	
		Fluridone**	0.013		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	1.9		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: SOLDIER CREEK @ 150M UPSTREAM OF SR HWY 419 **Collection Date/Time: 07/11/2018 13:10**

Field ID: G2CE0071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006692	EPA 8321B	2,4-D	0.0046	I	ug/L	P348297	
		Bentazon	0.056		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.023		ug/L	P348297	
		Diuron	0.0020	U	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0040	U	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.22		ug/L	P348297	
		Carbamazepine**	0.0019		ug/L	P348297	
		Fluridone**	0.014		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	1.4		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: SIX MILE @ 400M US OF LAKE JESSUP

Collection Date/Time: 07/11/2018 13:29

Field ID: G2CE0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006689	EPA 8321B	2,4-D	0.0031	I	ug/L	P348297	
		Bentazon	0.017		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.010		ug/L	P348297	
		Diuron	0.0020	U	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0055	I	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.10		ug/L	P348297	
		Carbamazepine**	4.0E-04	U	ug/L	P348297	
		Fluridone**	0.016		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	0.25		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: ELDER SPRINGS RUN @ US OF MYRTLE ST. Collection Date/Time: 07/11/2018 13:36

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006690	EPA 8321B	2,4-D	0.0023	I	ug/L	P348297	
		Bentazon	0.018		ug/L	P348297	
		MCP	0.0020	U	ug/L	P348297	
		Triclopyr**	0.0040	U	ug/L	P348297	
		Imidacloprid	0.010		ug/L	P348297	
		Diuron	0.0020	U	ug/L	P348297	
		Pyraclostrobin**	0.0020	U	ug/L	P348297	
		Primidone**	0.0071	I	ug/L	P348297	
		Linuron	0.0040	U	ug/L	P348297	
		Acetaminophen**	0.0080	U	ug/L	P348297	RPD
		Fenuron	0.016	U	ug/L	P348297	
		Imazapyr**	0.11		ug/L	P348297	
		Carbamazepine**	4.0E-04	U	ug/L	P348297	
		Fluridone**	0.018		ug/L	P348297	
		Hydrocodone**	8.0E-04	U	ug/L	P348297	
		Naproxen**	0.0080	U	ug/L	P348297	
		Ibuprofen**	0.020	U	ug/L	P348297	
		Sucralose**	0.34		ug/L	P348187	

Ref. Method and Comment:

EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: LITTLE WEKIVA (WEST) @ 150M EAST OF NORTHWESTERN AVE

Collection Date/Time: 07/11/2018 14:26

Field ID: G2CE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2006665	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P348339	
	EPA 300.0 Rev. 2.1	Chloride	12	A	mg Cl/L	P348902	
		Sulfate	6.2	A	mg SO4/L	P348910	
	SM 2120 B	Color (true)	56		PCU	P348331	
	SM 2320 B-97	Total Alkalinity	53		mg CaCO3/L	P348512	
	SM 2540 C-97	TDS	106	A	mg/L	P348621	
	SM 2540 D-97	TSS	3	IA	mg/L	P348616	
	SM 4500 F-C-97	Fluoride	0.086	I	mg F/L	P348516	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.034		mg N/L	P348706	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P348767	
2006666	EPA 353.2 Rev. 2.0	NO2NO3-N	0.069		mg N/L	P348417	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P348500	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P348458	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.016		mg P/L	P348345	
	dissolved						

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P348339

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348902

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348910

Component	Result	Code	Units
Sulfate	0.20	U	mg SO ₄ /L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348706

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348767

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348417

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348500

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348345

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

Reference Method: EPA 8321B
Batch ID: P348187

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P348297

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P348298

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P348331

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P348512

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

Reference Method: SM 2540 C-97
Batch ID: P348621

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P348616

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P348516

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P348516

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P348458

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348902

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348910

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348706

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348767

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	95.4		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348417

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: P348500

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.8		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348345

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.8		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P348187

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	123		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P348297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	104		P	40 - 150
Acetaminophen	98.4		P	30 - 150
Bentazon	107		P	30 - 150
Carbamazepine	93.9		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P348297

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	105		P	40 - 150
Fenuron	108		P	40 - 150
Fluridone	96.7		P	40 - 150
Hydrocodone	105		P	40 - 150
Ibuprofen	100		P	40 - 150
Imazapyr	96.8		P	40 - 150
Imidacloprid	97.7		P	40 - 160
Linuron	91.3		P	40 - 150
MCPP	100		P	40 - 150
Naproxen	95.0		P	40 - 150
Primidone	92.1		P	40 - 150
Pyraclostrobin	95.8		P	40 - 150
Triclopyr	103		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P348298

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	116		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P348331

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.9		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P348512

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P348516

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.4		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348458

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.9		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348902

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006665	Chloride	104		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006665	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006542	Ammonia-N	99.1	98.5	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348767

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006744	Kjeldahl Nitrogen	102	99.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348417

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006666	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348500

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006666	Total-P	94.6	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348345

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006667	O-Phosphate-P	94.9	95.1	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P348187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006352	Sucralose	108	110	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P348297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006852	Acetaminophen	96.9	70.1	P/P	30 - 150
2006852	Bentazon	74.0	74.1	P/P	30 - 150
2006852	Carbamazepine	85.0	69.5	P/P	40 - 150
2006852	Diuron	89.0	68.9	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P348297

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006852	Fenuron	95.8	83.9	P/P	40 - 150
2006852	Fluridone	99.5	73.7	P/P	40 - 150
2006852	Hydrocodone	60.6	80.9	P/P	40 - 150
2006852	Ibuprofen	86.5	72.5	P/P	40 - 150
2006852	Imazapyr	113	109	P/P	40 - 150
2006852	Imidacloprid	156	132	P/P	40 - 160
2006852	Linuron	73.0	70.5	P/P	40 - 150
2006852	MCPP	139	136	P/P	40 - 150
2006852	Naproxen	105	103	P/P	40 - 150
2006852	Primidone	102	83.0	P/P	40 - 150
2006852	Pyraclostrobin	93.5	94.0	P/P	40 - 150
2006852	Triclopyr	137	136	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P348298

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006741	Sucralose	162	107	F/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P348516

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006737	Fluoride	99.5	100	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P348458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2006666	Organic Carbon	97.4	99.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P348339

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006619	Turbidity	6.81	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006665	Chloride	7.94	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P348910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006665	Sulfate	7.10	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P348706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006542	Ammonia-N	0.483	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P348767

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006744	Kjeldahl Nitrogen	2.50	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P348417

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006666	NO2NO3-N	0.367	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P348500

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006666	Total-P	4.21	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P348345

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006667	O-Phosphate-P	0.179	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P348187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006352	Sucralose	1.90	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P348297

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006852	2,4-D	2.38	Spike	P	0 - 30
2006852	Acetaminophen	32.1	Spike	F	0 - 30
2006852	Bentazon	0.226	Spike	P	0 - 30
2006852	Carbamazepine	20.1	Spike	P	0 - 30
2006852	Diuron	25.5	Spike	P	0 - 30
2006852	Fenuron	13.2	Spike	P	0 - 30
2006852	Fluridone	29.0	Spike	P	0 - 30
2006852	Hydrocodone	28.7	Spike	P	0 - 30
2006852	Ibuprofen	17.6	Spike	P	0 - 30
2006852	Imazapyr	3.55	Spike	P	0 - 30
2006852	Imidacloprid	17.1	Spike	P	0 - 30
2006852	Linuron	3.52	Spike	P	0 - 30
2006852	MCP	2.04	Spike	P	0 - 30
2006852	Naproxen	1.56	Spike	P	0 - 30
2006852	Primidone	20.4	Spike	P	0 - 30
2006852	Pyraclostrobin	0.472	Spike	P	0 - 30
2006852	Triclopyr	0.447	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P348298

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006741	Sucralose	34.5	Spike	F	0 - 30

Reference Method: SM 2120 B
 Batch ID: P348331

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006564	Color (true)	0.212	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P348512

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006737	Total Alkalinity	0.472	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P348621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P348621

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006665	TDS	4.69	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P348516

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006737	Fluoride	0.519	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P348458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2006666	Organic Carbon	1.05	Spike	P	0 - 20

* 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: 2006687
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	117	P	30 - 160
EPA 8321B	Acetaminophen-d4	73.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	66.4	P	30 - 160
EPA 8321B	Diuron-d6	58.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	94.6	P	40 - 160
EPA 8321B	Primidone-d5	79.4	P	30 - 160
EPA 8321B	Sucralose-d6	109	P	40 - 160

Lab Sample ID: 2006688
Field Sample ID: G2CE0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	77.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	67.8	P	30 - 160
EPA 8321B	Diuron-d6	62.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	86.9	P	40 - 160
EPA 8321B	Primidone-d5	85.8	P	30 - 160
EPA 8321B	Sucralose-d6	104	P	40 - 160

Lab Sample ID: 2006689
Field Sample ID: G2CE0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	71.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.9	P	30 - 160
EPA 8321B	Diuron-d6	52.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.8	P	40 - 160
EPA 8321B	Primidone-d5	74.4	P	30 - 160
EPA 8321B	Sucralose-d6	108	P	40 - 160

Lab Sample ID: 2006690
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	105	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	60.8	P	30 - 160
EPA 8321B	Diuron-d6	52.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	98.1	P	40 - 160
EPA 8321B	Primidone-d5	73.8	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	40 - 160

Lab Sample ID: 2006691
Field Sample ID: G2CE0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	119	P	30 - 160
EPA 8321B	Acetaminophen-d4	75.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	63.8	P	30 - 160
EPA 8321B	Diuron-d6	56.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2006691
Field Sample ID: G2CE0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Ibuprofen-d3	107	P	40 - 160
EPA 8321B	Primidone-d5	70.6	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	40 - 160

Lab Sample ID: 2006692
Field Sample ID: G2CE0071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	107	P	30 - 160
EPA 8321B	Acetaminophen-d4	76.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	65.4	P	30 - 160
EPA 8321B	Diuron-d6	54.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	96.4	P	40 - 160
EPA 8321B	Primidone-d5	74.9	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	40 - 160

Lab Sample ID: 2006693
Field Sample ID: G2CE0138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	130	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.0	P	30 - 160
EPA 8321B	Diuron-d6	69.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.5	P	40 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	96.1	P	40 - 160

Lab Sample ID: 2006694
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	120	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.7	P	30 - 160
EPA 8321B	Diuron-d6	62.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.3	P	40 - 160
EPA 8321B	Primidone-d5	87.3	P	30 - 160
EPA 8321B	Sucralose-d6	97.7	P	40 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
 Run ID: A85184
 Included Lab Sample IDs: 2006665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	99.7	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
 Run ID: A85185
 Included Lab Sample IDs: 2006665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.0	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Run ID: A85186
 Included Lab Sample IDs: 2006667

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.9	98.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Run ID: A85220
 Included Lab Sample IDs: 2006666

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

Reference Method: EPA 8321B
 Run ID: A85232
 Included Lab Sample IDs: 2006687, 2006688, 2006689, 2006690, 2006691, 2006692, 2006693, 2006694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	100	96.1	P/P	50 - 150
2,4-D	96.1	107	P/P	50 - 150
Acetaminophen	104	107	P/P	60 - 160
Acetaminophen	110	104	P/P	60 - 160
Bentazon	121	121	P/P	50 - 150
Bentazon	129	121	P/P	50 - 150
Carbamazepine	110	111	P/P	60 - 160
Carbamazepine	110	110	P/P	60 - 160
Diuron	119	119	P/P	60 - 150
Diuron	120	119	P/P	60 - 150
Fenuron	107	110	P/P	60 - 150
Fenuron	110	109	P/P	60 - 150
Fluridone	109	111	P/P	60 - 160
Fluridone	112	109	P/P	60 - 160
Hydrocodone	110	107	P/P	60 - 150
Hydrocodone	113	110	P/P	60 - 150
Ibuprofen	85.9	119	P/P	50 - 150
Ibuprofen	93.6	85.9	P/P	50 - 150
Imazapyr	103	85.6	P/P	50 - 150
Imazapyr	85.6	97.7	P/P	50 - 150
Imidacloprid	94.4	95.5	P/P	60 - 150
Imidacloprid	96.4	94.4	P/P	60 - 150
Linuron	104	106	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A85232

Included Lab Sample IDs: 2006687, 2006688, 2006689, 2006690, 2006691, 2006692, 2006693, 2006694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Linuron	106	106	P/P	60 - 150
MCP	97.4	97.6	P/P	50 - 150
MCP	97.6	95.7	P/P	50 - 150
Naproxen	115	67.8	P/P	60 - 150
Naproxen	67.8	90.4	P/P	60 - 150
Primidone	92.9	96.4	P/P	60 - 150
Primidone	96.4	97.4	P/P	60 - 150
Pyraclostrobin	104	109	P/P	60 - 150
Pyraclostrobin	105	104	P/P	60 - 150
Triclopyr	84.8	89.9	P/P	50 - 160
Triclopyr	89.9	97.7	P/P	50 - 160

Reference Method: SM 5310 B-00

Run ID: A85237

Included Lab Sample IDs: 2006666

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

Reference Method: SM 2320 B-97

Run ID: A85254

Included Lab Sample IDs: 2006665

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

Reference Method: SM 4500 F-C-97

Run ID: A85254

Included Lab Sample IDs: 2006665

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A85262

Included Lab Sample IDs: 2006666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.4	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A85319

Included Lab Sample IDs: 2006687, 2006688, 2006689, 2006690, 2006691, 2006692, 2006693, 2006694

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	113	129	P/P	60 - 160
Sucralose	122	113	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A85320

Included Lab Sample IDs: 2006666

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A85337

Included Lab Sample IDs: 2006665

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.0	96.8	P/P	90 - 110
Sulfate	97.1	97.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A85379

Included Lab Sample IDs: 2006666

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.9	97.0	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		Precision	
					LCS	MS
EPA 180.1 Rev. 2.0	Turbidity				6.81	
EPA 300.0 Rev. 2.1	Chloride	99.7	104		7.94	
	Sulfate	98.6	102		7.10	
EPA 350.1 Rev. 2.0	Ammonia-N	102	99.1	98.5		0.483
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	95.4	102	99.5		2.50
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	102	102		0.367
EPA 365.1 Rev. 2.0	Total-P	95.8	94.6	99.3		4.21
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.8	94.9	95.1		0.179
EPA 8321B	2,4-D	104				2.38
	Acetaminophen	98.4	70.1	96.9		32.1
	Bentazon	107	74.0	74.1		0.226
	Carbamazepine	93.9	69.5	85.0		20.1
	Diuron	105	68.9	89.0		25.5
	Fenuron	108	83.9	95.8		13.2
	Fluridone	96.7	73.7	99.5		29.0
	Hydrocodone	105	80.9	60.6		28.7
	Ibuprofen	100	86.5	72.5		17.6
	Imazapyr	96.8	113	109		3.55
	Imidacloprid	97.7	132	156		17.1
	Linuron	91.3	73.0	70.5		3.52
	MCPP	100	139	136		2.04
	Naproxen	95.0	105	103		1.56
	Primidone	92.1	83.0	102		20.4
	Pyraclostrobin	95.8	93.5	94.0		0.472
	Sucralose	123	108	110		1.90
	Sucralose	116	162	107		34.5
	Triclopyr	103	137	136		0.447
SM 2120 B	Color (true)	97.9			0.212	
SM 2320 B-97	Total Alkalinity	102			0.472	
SM 2540 C-97	TDS				4.69	
SM 4500 F-C-97	Fluoride	99.4	99.5	100		0.519
SM 5310 B-00	Organic Carbon	99.9	97.4	99.0		1.05

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2006665
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2006665
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2006665
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2006666
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2006666
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2006666
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2006666
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2006667
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2006687, 2006688, 2006689, 2006690, 2006691, 2006692, 2006693, 2006694
SM 2120 B / E31780	True Color measured at 450 nm	2006665

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2006665
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2006665
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2006665
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2006665
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2006666

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	07/12/2018			07/12/2018 17:20	William L. Brown IV	2006665
EPA 300.0 Rev. 2.1	07/12/2018			07/20/2018 13:15	Lipi Saha	2006665
EPA 350.1 Rev. 2.0	07/12/2018			07/18/2018 12:38	Ping Hua	2006666
EPA 351.2 Rev. 2.0	07/12/2018	07/19/2018 14:00	Adrian Shelby	07/20/2018 10:46	Joseph Suarez	2006666
EPA 353.2 Rev. 2.0	07/12/2018			07/13/2018 12:55	Lauren Bottorf	2006666
EPA 365.1 Rev. 2.0	07/12/2018	07/16/2018 13:20	Sima Feizi	07/17/2018 09:02	Beverly Y. Sanders	2006666
EPA 365.1 Rev. 2.0 dissolved	07/12/2018			07/12/2018 16:45	Julia Storbeck	2006667
EPA 8321B	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 16:47	Juyoung Kim	2006687
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 17:21	Juyoung Kim	2006688
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 17:56	Juyoung Kim	2006689
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 18:31	Juyoung Kim	2006690
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 19:05	Juyoung Kim	2006691
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 19:40	Juyoung Kim	2006692
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 20:14	Juyoung Kim	2006693
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/14/2018 21:24	Juyoung Kim	2006694
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 09:31	Juyoung Kim	2006687
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 10:05	Juyoung Kim	2006688
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 10:40	Juyoung Kim	2006689
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 11:14	Juyoung Kim	2006690
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 11:49	Juyoung Kim	2006691
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 12:58	Juyoung Kim	2006692
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 13:33	Juyoung Kim	2006693
	07/12/2018	07/13/2018 10:00	Hoor Shaik	07/15/2018 14:07	Juyoung Kim	2006694
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 02:16	Mohammad Ghaffari	2006687
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 02:31	Mohammad Ghaffari	2006688
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 02:46	Mohammad Ghaffari	2006689
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 03:00	Mohammad Ghaffari	2006690
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 03:15	Mohammad Ghaffari	2006691
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 03:30	Mohammad Ghaffari	2006692
	07/12/2018	07/16/2018 11:00	Juyoung Kim	07/17/2018 03:44	Mohammad Ghaffari	2006693
	07/12/2018	07/16/2018 11:30	Juyoung Kim	07/17/2018 04:43	Mohammad Ghaffari	2006694
SM 2120 B	07/12/2018			07/12/2018 14:55	Tanya Welborn	2006665
SM 2320 B-97	07/12/2018			07/14/2018 06:26	Dale L. Simmons	2006665
SM 2540 C-97	07/12/2018			07/13/2018 17:35	William L. Brown IV	2006665
SM 2540 D-97	07/12/2018			07/13/2018 17:35	William L. Brown IV	2006665
SM 4500 F-C-97	07/12/2018			07/14/2018 06:26	Dale L. Simmons	2006665
SM 5310 B-00	07/12/2018			07/13/2018 21:30	Megan Treadwell	2006666