Chemical Analysis Report

WAS-SECT-2020-03-17-01

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

Event Description: **NWQI - Alligator Creek**
Request ID: **RQ-2020-03-02-48**
Customer: **WAS-SECT**
Project ID: **NWQI**

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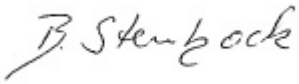
Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator Date Certified: 07-APR-2020 16:12



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 by the Florida Department of Health Environmental Laboratory Certification Program 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: Pine Barn Creek At Woodrest Rd. **Collection Date/Time: 03/17/2020 12:25**

Field ID: G3WA0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165872	EPA 180.1 Rev. 2.0	Turbidity	4.3		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.7		mg Cl/L	P381006	
		Sulfate	0.20	U	mg SO4/L	P381010	
	SM 2120 B-2011	Color (true)	140		PCU	P380858	
	SM 2320 B-2011	Total Alkalinity	9.5		mg CaCO3/L	P381065	
	SM 2540 C-2011	TDS	51		mg/L	P381480	
	SM 2540 D-2011	TSS	4	I	mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165878	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.76		mg N/L	P381138	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P381022	
2165884	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P380888	
2165908	EPA 8321B	2,4-D	0.0031	I	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380867	
		Bentazon	8.0E-04	U	ug/L	P380867	
		Benzovindiflupyr**	0.0022	I J	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0020	U	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.028	I	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.0040	U	ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0020	U	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0011 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165908	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Alligator Creek Upstream Of Bentley Rd. **Collection Date/Time: 03/17/2020 10:45**

Field ID: G3WA0004 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165873	EPA 180.1 Rev. 2.0	Turbidity	23		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.8		mg Cl/L	P381006	
		Sulfate	0.66		mg SO4/L	P381010	
	SM 2120 B-2011	Color (true)	68		PCU	P380934	
	SM 2320 B-2011	Total Alkalinity	12		mg CaCO3/L	P381065	
	SM 2540 C-2011	TDS	66		mg/L	P381480	
	SM 2540 D-2011	TSS	7	I	mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165879	EPA 350.1 Rev. 2.0	Ammonia-N	0.10		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P381138	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.061		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P381022	
2165885	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.024		mg P/L	P380888	
2165909	EPA 8321B	2,4-D	0.0020	U	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380867	
		Bentazon	8.0E-04	U	ug/L	P380867	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0020	U	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.016	U	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.0079	I	ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0024	I	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0004 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165909	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Unnamed Creek At Woodrest Rd. **Collection Date/Time: 03/17/2020 12:50**

Field ID: G3WA0010 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165874	EPA 180.1 Rev. 2.0	Turbidity	28		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.0		mg Cl/L	P381006	
		Sulfate	0.47	I	mg SO4/L	P381010	
	SM 2120 B-2011	Color (true)	160		PCU	P380934	
	SM 2320 B-2011	Total Alkalinity	4.0		mg CaCO3/L	P381065	
	SM 2540 C-2011	TDS	68		mg/L	P381480	
	SM 2540 D-2011	TSS	17		mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165880	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P381165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	18		mg C/L	P381022	
2165886	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P380888	
2165910	EPA 8321B	2,4-D	0.0022	I	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0026	I J	ug/L	P380867	
		Bentazon	0.0033		ug/L	P380867	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0021	I	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.016	U	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.025		ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0063	I	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0010 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165910	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Unnamed Creek At Palmview Rd. **Collection Date/Time: 03/17/2020 13:25**

Field ID: G3WA0013 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165875	EPA 180.1 Rev. 2.0	Turbidity	17		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.4		mg Cl/L	P381007	
		Sulfate	0.68		mg SO4/L	P381011	
	SM 2120 B-2011	Color (true)	83		PCU	P380934	
	SM 2320 B-2011	Total Alkalinity	5.8		mg CaCO3/L	P381065	
	SM 2540 C-2011	TDS	64		mg/L	P381480	
	SM 2540 D-2011	TSS	8	I	mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165881	EPA 350.1 Rev. 2.0	Ammonia-N	0.092		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P381165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.014		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.085		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P381022	
2165887	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.016		mg P/L	P380888	
2165911	EPA 8321B	2,4-D	0.0020	U	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380867	
		Bentazon	0.0042		ug/L	P380867	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0020	U	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.016	U	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.0040	U	ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0022	I	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0013 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165911	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Minnow Creek At Lovewood Rd. **Collection Date/Time: 03/17/2020 09:40**

Field ID: G3WA0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165866	EPA 180.1 Rev. 2.0	Turbidity	11	A	NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.8		mg Cl/L	P381006	
		Sulfate	0.52		mg SO4/L	P381010	
	SM 2120 B-2011	Color (true)	120	A	PCU	P380858	
	SM 2320 B-2011	Total Alkalinity	9.5		mg CaCO3/L	P381069	
	SM 2540 C-2011	TDS	53		mg/L	P381480	
	SM 2540 D-2011	TSS	4	I	mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165868	EPA 350.1 Rev. 2.0	Ammonia-N	0.052		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P381138	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.028		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.040		mg P/L	P381218	
	SM 5310 B-2011	Organic Carbon	11		mg C/L	P381022	
2165870	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P380888	
2165906	EPA 8321B	2,4-D	0.0020	U	ug/L	P380839	
		Acesulfame K**	0.10	UJ	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380839	
		Acetamiprid**	0.0020	U	ug/L	P380839	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380839	
		Bentazon	8.0E-04	U	ug/L	P380839	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380839	
		Carbamazepine**	8.0E-04	U	ug/L	P380839	
		Clothianidin**	0.0020	U	ug/L	P380839	
		Dinotefuran**	0.0020	U	ug/L	P380839	
		Diuron	0.0020	U	ug/L	P380839	
		Fenuron	0.016	U	ug/L	P380839	
		Fluridone**	8.0E-04	U	ug/L	P380839	
		Imazapyr**	0.0053	I	ug/L	P380839	
		Hydrocodone**	0.0020	U	ug/L	P380839	
		Ibuprofen**	0.020	U	ug/L	P380839	
		Imidacloprid	0.0037	I	ug/L	P380839	MS
		Linuron	0.0040	U	ug/L	P380839	
		Mandestrobin**	0.0020	UJ	ug/L	P380839	
		MCPP	0.0020	U	ug/L	P380839	MS
		Naproxen**	0.0080	U	ug/L	P380839	
		Primidone**	0.0040	U	ug/L	P380839	
		Pyraclostrobin**	0.0020	U	ug/L	P380839	
		Thiamethoxam**	0.0020	U	ug/L	P380839	

Field ID: G3WA0008 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165906	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380839	
		Triclopyr**	0.0040	U	ug/L	P380839	
2165914	EPA 200.7 Rev. 4.4	Barium	20.4		ug/L	P380894	
		Calcium	4.36		mg/L	P380894	
		Iron	1.60E+03		ug/L	P380894	
		Magnesium	1.43		mg/L	P380894	
		Potassium	1.5		mg/L	P380894	
		Sodium	2.2		mg/L	P380894	
		Zinc	5.0	U	ug/L	P380894	
	EPA 200.8 Rev. 5.4	Aluminum	636		ug/L	P380894	
		Antimony	0.052	I	ug/L	P380894	
		Arsenic	0.78		ug/L	P380894	
		Boron**	13.3		ug/L	P380894	
		Cadmium	0.020	U	ug/L	P380894	
		Chromium	0.74	I	ug/L	P380894	
		Copper	0.80		ug/L	P380894	
		Lead	0.76		ug/L	P380894	
		Nickel	0.50	U	ug/L	P380894	
		Selenium	0.20	U	ug/L	P380894	
		Silver	0.010	U	ug/L	P380894	
		Thallium	0.10	U	ug/L	P380894	
	SM 2340B	Hardness	16.8		mg/L	P380894	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. J - second source check standards for some analytes were not available for analysis.
EPA 8321B: Refer to the Lab Analysis Report for an explanation of QC Codes.
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 03/27/2020.

Sample Location: Alligator Creek Upstream Of SR 273 **Collection Date/Time: 03/17/2020 10:10**

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165867	EPA 180.1 Rev. 2.0	Turbidity	21		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P381006	
		Sulfate	0.48	I	mg SO4/L	P381010	
	SM 2120 B-2011	Color (true)	98	A	PCU	P380934	
	SM 2320 B-2011	Total Alkalinity	9.7		mg CaCO3/L	P381069	
	SM 2540 C-2011	TDS	61		mg/L	P381480	
	SM 2540 D-2011	TSS	15		mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381265	
2165869	EPA 350.1 Rev. 2.0	Ammonia-N	0.11		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.84		mg N/L	P381138	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.081		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.076		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P381022	
2165871	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.034		mg P/L	P380888	
2165907	EPA 8321B	2,4-D	0.0045	I	ug/L	P380839	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380839	
		Acetamiprid**	0.0020	U	ug/L	P380839	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380839	
		Bentazon	9.5E-04	I	ug/L	P380839	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380839	
		Carbamazepine**	8.0E-04	U	ug/L	P380839	
		Clothianidin**	0.0020	U	ug/L	P380839	
		Dinotefuran**	0.0020	U	ug/L	P380839	
		Diuron	0.0020	U	ug/L	P380839	
		Fenuron	0.11		ug/L	P380839	
		Fluridone**	8.0E-04	U	ug/L	P380839	
		Imazapyr**	0.023		ug/L	P380839	
		Hydrocodone**	0.0020	U	ug/L	P380839	
		Ibuprofen**	0.020	U	ug/L	P380839	
		Imidacloprid	0.0044	I	ug/L	P380839	MS
		Linuron	0.0040	U	ug/L	P380839	
		Mandestrobin**	0.0020	UJ	ug/L	P380839	
		MCPP	0.0020	U	ug/L	P380839	MS
		Naproxen**	0.0080	U	ug/L	P380839	
		Primidone**	0.0040	U	ug/L	P380839	
		Pyraclostrobin**	0.0020	U	ug/L	P380839	
		Thiamethoxam**	0.0020	U	ug/L	P380839	

Field ID: G3WA0005 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165907	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380839	
		Triclopyr**	0.0040	U	ug/L	P380839	
2165915	EPA 200.7 Rev. 4.4	Barium	19.4		ug/L	P380894	
		Calcium	4.90		mg/L	P380894	
		Iron	2.08E+03		ug/L	P380894	
		Magnesium	1.50		mg/L	P380894	
		Potassium	1.8		mg/L	P380894	
		Sodium	2.4		mg/L	P380894	
		Zinc	5.0	U	ug/L	P380894	
	EPA 200.8 Rev. 5.4	Aluminum	1.10E+03		ug/L	P380894	
		Antimony	0.058	I	ug/L	P380894	
		Arsenic	0.94		ug/L	P380894	
		Boron**	14.4		ug/L	P380894	
		Cadmium	0.020	U	ug/L	P380894	
		Chromium	1.1	I	ug/L	P380894	
		Copper	1.10		ug/L	P380894	
		Lead	1.48		ug/L	P380894	
		Nickel	0.73	I	ug/L	P380894	
		Selenium	0.20	U	ug/L	P380894	
		Silver	0.010	U	ug/L	P380894	
		Thallium	0.10	U	ug/L	P380894	
	SM 2340B	Hardness	18.4		mg/L	P380894	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500 F-C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.
EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. J - second source check standards for some analytes were not available for analysis.
EPA 200.8 Rev. 5.4: The lead result was confirmed in the undigested sample on 03/27/2020.

Sample Location: Little Alligator Creek At SR 273 **Collection Date/Time: 03/17/2020 11:20**

Field ID: G3WA0006 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165876	EPA 180.1 Rev. 2.0	Turbidity	25		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	5.5		mg Cl/L	P381007	
		Sulfate	0.70		mg SO4/L	P381011	
	SM 2120 B-2011	Color (true)	74		PCU	P380934	
	SM 2320 B-2011	Total Alkalinity	14		mg CaCO3/L	P381410	
	SM 2540 C-2011	TDS	61		mg/L	P381480	
	SM 2540 D-2011	TSS	7	I	mg/L	P381568	
	SM 4500 F-C-2011	Fluoride	0.036	I	mg F/L	P381454	
2165882	EPA 350.1 Rev. 2.0	Ammonia-N	0.090		mg N/L	P381054	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.95		mg N/L	P381165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.066		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	13		mg C/L	P381022	
2165888	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.023		mg P/L	P380888	
2165912	EPA 8321B	2,4-D	0.0020	U	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380867	
		Bentazon	8.0E-04	U	ug/L	P380867	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0020	U	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.016	U	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.0050	I	ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0030	I	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0006 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165912	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Sample Location: Scurlock Creek At Pilgrim Rd. **Collection Date/Time: 03/17/2020 11:50**

Field ID: G3WA0009 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165877	EPA 180.1 Rev. 2.0	Turbidity	8.3		NTU	P380989	
	EPA 300.0 Rev. 2.1	Chloride	4.1		mg Cl/L	P381007	
		Sulfate	0.33	I	mg SO4/L	P381011	
	SM 2120 B-2011	Color (true)	200		PCU	P380858	
	SM 2320 B-2011	Total Alkalinity	6.6		mg CaCO3/L	P381410	
	SM 2540 C-2011	TDS	63		mg/L	P381562	
	SM 2540 D-2011	TSS	12		mg/L	P381569	RPD
	SM 4500 F-C-2011	Fluoride	0.035	U	mg F/L	P381454	
2165883	EPA 350.1 Rev. 2.0	Ammonia-N	0.087		mg N/L	P381055	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P381165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P381362	
	EPA 365.1 Rev. 2.0	Total-P	0.050		mg P/L	P381278	
	SM 5310 B-2011	Organic Carbon	24		mg C/L	P381022	
2165889	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P380888	
2165913	EPA 8321B	2,4-D	0.0020	U	ug/L	P380867	
		Acesulfame K**	0.10	U	ug/L	P380764	MS
		AMPA**	0.10	U	ug/L	P380764	
		Sucralose**	0.010	U	ug/L	P380764	
		Acetaminophen**	0.0080	U	ug/L	P380867	
		Acetamiprid**	0.0020	U	ug/L	P380867	
		Endothall**	0.25	U	ug/L	P380764	
		Glufosinate**	0.10	U	ug/L	P380764	
		Glyphosate**	0.10	U	ug/L	P380764	
		Afidopyropen**	0.0020	UJ	ug/L	P380867	
		Bentazon	8.0E-04	U	ug/L	P380867	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P380867	
		Carbamazepine**	8.0E-04	U	ug/L	P380867	
		Clothianidin**	0.0020	U	ug/L	P380867	
		Dinotefuran**	0.0020	U	ug/L	P380867	
		Diuron	0.0020	U	ug/L	P380867	
		Fenuron	0.016	U	ug/L	P380867	
		Fluridone**	8.0E-04	U	ug/L	P380867	
		Imazapyr**	0.021		ug/L	P380867	
		Hydrocodone**	0.0020	U	ug/L	P380867	
		Ibuprofen**	0.020	U	ug/L	P380867	
		Imidacloprid	0.0020	U	ug/L	P380867	
		Linuron	0.0040	U	ug/L	P380867	
		Mandestrobin**	0.0020	UJ	ug/L	P380867	
		MCPP	0.0020	U	ug/L	P380867	
		Naproxen**	0.0080	U	ug/L	P380867	
		Primidone**	0.0040	U	ug/L	P380867	
		Pyraclostrobin**	0.0020	U	ug/L	P380867	
		Thiamethoxam**	0.0020	U	ug/L	P380867	

Field ID: G3WA0009 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2165913	EPA 8321B	Tolfenpyrad**	0.0020	U	ug/L	P380867	
		Triclopyr**	0.0040	U	ug/L	P380867	

Ref. Method and Comment:
EPA 8321B: J - second source check standards for some analytes were not available for analysis.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P380989

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380894

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380894

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381006

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381007

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381010

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381011

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381054

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381055

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381138

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381165

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381362

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381218

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381278

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P380888

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P380764

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P380839

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	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
Mandestrobin	0.0020	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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P380867

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8321B
Batch ID: P380867

Component	Result	Code	Units
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	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
Mandestrobin	0.0020	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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P380858

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P380934

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P381065

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

Reference Method: SM 2320 B-2011
Batch ID: P381069

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

Reference Method: SM 2320 B-2011
Batch ID: P381410

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

Reference Method: SM 2540 C-2011
Batch ID: P381480

Component	Result	Code	Units
TDS	15	U	mg/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P381562

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P381568

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P381569

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P381265

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P381454

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P381022

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	101		P	85 - 115
Calcium	104		P	85 - 115
Iron	98.4		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	95.8		P	85 - 115
Sodium	99.9		P	85 - 115
Zinc	102		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	100		P	80 - 120
Antimony	100		P	85 - 115
Arsenic	101		P	80 - 120
Boron	105		P	80 - 120
Cadmium	99.2		P	85 - 115
Chromium	102		P	80 - 120
Copper	100		P	80 - 120
Lead	101		P	80 - 120
Nickel	99.8		P	80 - 120
Selenium	94.3		P	80 - 120
Silver	102		P	85 - 115
Thallium	104		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381006

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381007

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381010

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381011

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381054

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381055

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.9		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381138

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381165

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381362

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381218

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381278

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P380888

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

Reference Method: EPA 8321B
Batch ID: P380764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	88.1		P	40 - 150
AMPA	103		P	40 - 150
Endothall	104		P	40 - 150
Glufosinate	115		P	40 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P380764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	112		P	40 - 140
Sucralose	89.6		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P380839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	132		P	30 - 160
Acetaminophen	87.9		P	30 - 160
Acetamiprid	81.5		P	30 - 160
Afidopyropen	101		P	30 - 160
Bentazon	112		P	30 - 160
Benzovindiflupyr	87.8		P	30 - 160
Carbamazepine	115		P	30 - 160
Clothianidin	91.5		P	30 - 160
Dinotefuran	74.8		P	30 - 160
Diuron	94.0		P	30 - 160
Fenuron	91.0		P	30 - 160
Fluridone	103		P	30 - 160
Hydrocodone	95.9		P	30 - 160
Ibuprofen	88.6		P	30 - 160
Imazapyr	92.3		P	30 - 160
Imidacloprid	115		P	30 - 160
Linuron	72.8		P	30 - 160
Mandestrobin	95.7		P	30 - 160
MCPP	151		P	30 - 160
Naproxen	77.7		P	30 - 160
Primidone	91.1		P	30 - 160
Pyraclostrobin	86.6		P	30 - 160
Thiamethoxam	95.6		P	30 - 160
Tolfenpyrad	61.7		P	30 - 160
Triclopyr	106		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P380867

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	133		P	30 - 160
Acetaminophen	89.8		P	30 - 160
Acetamiprid	90.8		P	30 - 160
Afidopyropen	92.0		P	30 - 160
Bentazon	94.0		P	30 - 160
Benzovindiflupyr	78.5		P	30 - 160
Carbamazepine	107		P	30 - 160
Clothianidin	88.1		P	30 - 160
Dinotefuran	91.8		P	30 - 160
Diuron	64.2		P	30 - 160
Fenuron	94.6		P	30 - 160
Fluridone	97.0		P	30 - 160
Hydrocodone	98.8		P	30 - 160
Ibuprofen	86.4		P	30 - 160
Imazapyr	92.4		P	30 - 160

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P380867

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	114		P	30 - 160
Linuron	80.9		P	30 - 160
Mandestrobin	91.9		P	30 - 160
MCPP	145		P	30 - 160
Naproxen	65.4		P	30 - 160
Primidone	91.8		P	30 - 160
Pyraclostrobin	85.9		P	30 - 160
Thiamethoxam	106		P	30 - 160
Tolfenpyrad	54.1		P	30 - 160
Triclopyr	96.4		P	30 - 160

Reference Method: SM 2120 B-2011
Batch ID: P380858

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2120 B-2011
Batch ID: P380934

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

Reference Method: SM 2320 B-2011
Batch ID: P381065

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 2320 B-2011
Batch ID: P381069

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	105		P	98 - 106

Reference Method: SM 2320 B-2011
Batch ID: P381410

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 107

Reference Method: SM 4500 F-C-2011
Batch ID: P381265

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.3		P	92 - 103

Reference Method: SM 4500 F-C-2011
Batch ID: P381454

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 104

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P381022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	101		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165291	Barium	101		P	80 - 120
2165291	Calcium	101		P	80 - 120
2165291	Iron	99.6		P	80 - 120
2165291	Magnesium	101		P	80 - 120
2165291	Potassium	97.4		P	80 - 120
2165291	Sodium	100		P	80 - 120
2165291	Zinc	103		P	80 - 120
2165532	Barium	101	102	P/P	80 - 120
2165532	Calcium	103		P	80 - 120
2165532	Iron	101	101	P/P	80 - 120
2165532	Magnesium	100	101	P/P	80 - 120
2165532	Potassium	94.8	97.6	P/P	80 - 120
2165532	Sodium	100		P	80 - 120
2165532	Zinc	102	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165291	Aluminum	96.6		P	80 - 120
2165291	Antimony	99.5		P	80 - 120
2165291	Arsenic	98.9		P	80 - 120
2165291	Boron	106		P	80 - 120
2165291	Cadmium	99.5		P	80 - 120
2165291	Chromium	98.9		P	80 - 120
2165291	Copper	100		P	80 - 120
2165291	Lead	100		P	80 - 120
2165291	Nickel	96.3		P	80 - 120
2165291	Selenium	90.2		P	80 - 120
2165291	Silver	100		P	80 - 120
2165291	Thallium	104		P	80 - 120
2165532	Aluminum	98.1	97.7	P/P	80 - 120
2165532	Antimony	101	99.1	P/P	80 - 120
2165532	Arsenic	99.6	100	P/P	80 - 120
2165532	Boron	106	107	P/P	80 - 120
2165532	Cadmium	98.6	97.2	P/P	80 - 120
2165532	Chromium	99.9	101	P/P	80 - 120
2165532	Copper	90.7	90.7	P/P	80 - 120
2165532	Lead	99.7	99.9	P/P	80 - 120
2165532	Nickel	97.4	96.9	P/P	80 - 120
2165532	Selenium	89.1	88.6	P/P	80 - 120
2165532	Silver	101	99.8	P/P	80 - 120
2165532	Thallium	104	105	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381006

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165314	Chloride	96.5		P	90 - 110
2165489	Chloride	98.6		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381007

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165875	Chloride	99.0		P	90 - 110
2166013	Chloride	102		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381010

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165314	Sulfate	97.0		P	90 - 110
2165489	Sulfate	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381011

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165875	Sulfate	99.5		P	90 - 110
2166013	Sulfate	98.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381054

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165878	Ammonia-N	99.5	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381055

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165991	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381138

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165879	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165942	Kjeldahl Nitrogen	105	96.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381362

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165868	NO2NO3-N	96.2	98.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381218

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165790	Total-P	109	106	P/P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381278

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165869	Total-P	110	109	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P380888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165870	O-Phosphate-P	91.9	92.7	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P380764

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165906	Acesulfame K	138	152	P/F	40 - 150
2165906	AMPA	103	112	P/P	40 - 150
2165906	Endothall	116	119	P/P	40 - 150
2165906	Glufosinate	110	106	P/P	40 - 150
2165906	Glyphosate	107	108	P/P	40 - 140
2165906	Sucralose	127	105	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P380839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165334	2,4-D	141	131	P/P	30 - 160
2165334	Acetaminophen	109	94.8	P/P	30 - 160
2165334	Acetamiprid	106	105	P/P	30 - 160
2165334	Afidopyropen	111	98.5	P/P	30 - 160
2165334	Benzovindiflupyr	79.8	74.5	P/P	30 - 160
2165334	Carbamazepine	107	103	P/P	30 - 160
2165334	Clothianidin	102	94.3	P/P	30 - 160
2165334	Dinotefuran	119	119	P/P	30 - 160
2165334	Diuron	68.8	77.6	P/P	30 - 160
2165334	Fenuron	85.4	81.7	P/P	30 - 160
2165334	Hydrocodone	113	108	P/P	30 - 160
2165334	Ibuprofen	75.0	76.9	P/P	30 - 160
2165334	Imazapyr	112	112	P/P	30 - 160
2165334	Imidacloprid	182	165	F/F	30 - 160
2165334	Linuron	76.7	72.5	P/P	30 - 160
2165334	Mandestrobin	90.1	87.6	P/P	30 - 160
2165334	MCPP	164	153	F/P	30 - 160
2165334	Naproxen	138	124	P/P	30 - 160
2165334	Primidone	103	96.9	P/P	30 - 160
2165334	Pyraclostrobin	88.2	83.6	P/P	30 - 160
2165334	Thiamethoxam	155	141	P/P	30 - 160
2165334	Tolfenpyrad	61.8	59.4	P/P	30 - 160
2165334	Triclopyr	126	108	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P380867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165908	2,4-D	121	91.7	P/P	30 - 160

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P380867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165908	Acetaminophen	92.2	76.3	P/P	30 - 160
2165908	Acetamiprid	75.6	84.8	P/P	30 - 160
2165908	Afidopyropen	98.3	92.5	P/P	30 - 160
2165908	Bentazon	48.7	46.5	P/P	30 - 160
2165908	Benzovindiflupyr	69.0	63.8	P/P	30 - 160
2165908	Carbamazepine	85.6	75.2	P/P	30 - 160
2165908	Clothianidin	97.2	81.1	P/P	30 - 160
2165908	Dinotefuran	104	96.5	P/P	30 - 160
2165908	Diuron	64.8	60.3	P/P	30 - 160
2165908	Fenuron	74.1	73.8	P/P	30 - 160
2165908	Fluridone	87.8	82.5	P/P	30 - 160
2165908	Hydrocodone	97.1	87.1	P/P	30 - 160
2165908	Ibuprofen	72.7	72.1	P/P	30 - 160
2165908	Imazapyr	106	88.9	P/P	30 - 160
2165908	Imidacloprid	154	141	P/P	30 - 160
2165908	Linuron	55.6	48.7	P/P	30 - 160
2165908	Mandestrobin	74.8	77.9	P/P	30 - 160
2165908	MCPP	140	146	P/P	30 - 160
2165908	Naproxen	81.4	78.6	P/P	30 - 160
2165908	Primidone	81.3	84.0	P/P	30 - 160
2165908	Pyraclostrobin	78.5	73.8	P/P	30 - 160
2165908	Thiamethoxam	110	122	P/P	30 - 160
2165908	Tolfenpyrad	53.4	51.2	P/P	30 - 160
2165908	Triclopyr	135	137	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
Batch ID: P381454

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2167134	Fluoride	101	104	P/P	91 - 105

Reference Method: SM 5310 B-2011
Batch ID: P381022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2165862	Organic Carbon	100	102	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P380989

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165866	Turbidity	2.69	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P380894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165532	Barium	0.847	Spike	P	0 - 20
2165532	Calcium	0.474	Spike	P	0 - 20
2165532	Iron	0.523	Spike	P	0 - 20
2165532	Magnesium	0.479	Spike	P	0 - 20
2165532	Potassium	2.13	Spike	P	0 - 20
2165532	Sodium	2.30	Spike	P	0 - 20
2165532	Zinc	0.814	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165532	Aluminum	0.387	Spike	P	0 - 20
2165532	Antimony	1.58	Spike	P	0 - 20
2165532	Arsenic	0.515	Spike	P	0 - 20
2165532	Boron	0.867	Spike	P	0 - 20
2165532	Cadmium	1.46	Spike	P	0 - 20
2165532	Chromium	0.742	Spike	P	0 - 20
2165532	Copper	0.00493	Spike	P	0 - 20
2165532	Lead	0.141	Spike	P	0 - 20
2165532	Nickel	0.520	Spike	P	0 - 20
2165532	Selenium	0.545	Spike	P	0 - 20
2165532	Silver	1.58	Spike	P	0 - 20
2165532	Thallium	1.00	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381006

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165314	Chloride	0.799	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381007

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2166013	Chloride	0.662	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381010

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165314	Sulfate	0.566	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P381011

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2166013	Sulfate	0.645	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381054

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165878	Ammonia-N	0.784	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P381055

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165991	Ammonia-N	0.791	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381138

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165879	Kjeldahl Nitrogen	0.688	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P381165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165942	Kjeldahl Nitrogen	4.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P381362

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165868	NO2NO3-N	1.80	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381218

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165790	Total-P	2.08	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P381278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165869	Total-P	0.782	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P380888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165870	O-Phosphate-P	0.791	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P380764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165906	Acesulfame K	9.76	Spike	P	0 - 30
2165906	AMPA	9.13	Spike	P	0 - 30
2165906	Endothall	2.04	Spike	P	0 - 30
2165906	Glufosinate	4.41	Spike	P	0 - 30
2165906	Glyphosate	0.961	Spike	P	0 - 30
2165906	Sucralose	18.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P380839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165334	2,4-D	7.55	Spike	P	0 - 30
2165334	Acetaminophen	14.1	Spike	P	0 - 30
2165334	Acetamiprid	0.588	Spike	P	0 - 30
2165334	Afidopyropen	11.7	Spike	P	0 - 30
2165334	Bentazon	4.85	Spike	P	0 - 30
2165334	Benzovindiflupyr	6.87	Spike	P	0 - 30
2165334	Carbamazepine	3.90	Spike	P	0 - 30
2165334	Clothianidin	7.02	Spike	P	0 - 30
2165334	Dinotefuran	0.554	Spike	P	0 - 30
2165334	Diuron	6.25	Spike	P	0 - 30
2165334	Fenuron	2.31	Spike	P	0 - 30
2165334	Fluridone	4.29	Spike	P	0 - 30
2165334	Hydrocodone	4.53	Spike	P	0 - 30
2165334	Ibuprofen	2.33	Spike	P	0 - 30
2165334	Imazapyr	0.00892	Spike	P	0 - 30
2165334	Imidacloprid	7.11	Spike	P	0 - 30
2165334	Linuron	5.62	Spike	P	0 - 30
2165334	Mandestrobin	2.80	Spike	P	0 - 30
2165334	MCPP	6.95	Spike	P	0 - 30
2165334	Naproxen	11.1	Spike	P	0 - 30
2165334	Primidone	5.70	Spike	P	0 - 30
2165334	Pyraclostrobin	5.36	Spike	P	0 - 30
2165334	Thiamethoxam	9.01	Spike	P	0 - 30
2165334	Tolfenpyrad	4.03	Spike	P	0 - 30
2165334	Triclopyr	15.3	Spike	P	0 - 30

Quality Assurance Report
Precision

Reference Method: EPA 8321B
Batch ID: P380867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165908	2,4-D	26.2	Spike	P	0 - 30
2165908	Acetaminophen	18.8	Spike	P	0 - 30
2165908	Acetamiprid	11.6	Spike	P	0 - 30
2165908	Afidopyropen	6.13	Spike	P	0 - 30
2165908	Bentazon	4.66	Spike	P	0 - 30
2165908	Benzovindiflupyr	7.50	Spike	P	0 - 30
2165908	Carbamazepine	13.0	Spike	P	0 - 30
2165908	Clothianidin	18.0	Spike	P	0 - 30
2165908	Dinotefuran	7.10	Spike	P	0 - 30
2165908	Diuron	7.21	Spike	P	0 - 30
2165908	Fenuron	0.257	Spike	P	0 - 30
2165908	Fluridone	6.18	Spike	P	0 - 30
2165908	Hydrocodone	10.8	Spike	P	0 - 30
2165908	Ibuprofen	0.811	Spike	P	0 - 30
2165908	Imazapyr	17.3	Spike	P	0 - 30
2165908	Imidacloprid	8.49	Spike	P	0 - 30
2165908	Linuron	13.3	Spike	P	0 - 30
2165908	Mandestrobin	4.07	Spike	P	0 - 30
2165908	MCPP	4.33	Spike	P	0 - 30
2165908	Naproxen	3.49	Spike	P	0 - 30
2165908	Primidone	3.33	Spike	P	0 - 30
2165908	Pyraclostrobin	6.20	Spike	P	0 - 30
2165908	Thiamethoxam	9.96	Spike	P	0 - 30
2165908	Tolfenpyrad	4.25	Spike	P	0 - 30
2165908	Triclopyr	1.22	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P380858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165866	Color (true)	0.218	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P380934

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165867	Color (true)	7.74	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P381065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165407	Total Alkalinity	0.325	Sample	P	0 - 2.8

Quality Assurance Report
Precision

Reference Method: SM 2320 B-2011
Batch ID: P381069

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165344	Total Alkalinity	0.0890	Sample	P	0 - 2.8

Reference Method: SM 2320 B-2011
Batch ID: P381410

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167134	Total Alkalinity	0.0254	Sample	P	0 - 3.3

Reference Method: SM 2540 C-2011
Batch ID: P381480

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165941	TDS	4.44	Sample	P	0 - 10

Reference Method: SM 2540 C-2011
Batch ID: P381562

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165980	TDS	5.18	Sample	P	0 - 10

Reference Method: SM 2540 D-2011
Batch ID: P381569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165980	TSS	13.3	Sample	F	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P381265

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165344	Fluoride	1.41	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-2011
Batch ID: P381454

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2167134	Fluoride	1.43	Spike	P	0 - 2.0

Reference Method: SM 5310 B-2011
Batch ID: P381022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2165862	Organic Carbon	2.12	Spike	P	0 - 20

Quality Assurance Report
Precision

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report
Surrogates

Lab Sample ID: 2165906
Field Sample ID: G3WA0008

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	114	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.1	P	30 - 160
EPA 8321B	Diuron-d6	91.1	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Endothall-d6	105	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	96.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	62.7	P	30 - 160
EPA 8321B	Primidone-d5	96.5	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2165907
Field Sample ID: G3WA0005

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	106	P	30 - 160
EPA 8321B	Acetaminophen-d4	92.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.4	P	30 - 160
EPA 8321B	Diuron-d6	82.0	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Endothall-d6	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	106	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.1	P	30 - 160
EPA 8321B	Primidone-d5	93.4	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160
EPA 8321B	Sucralose-d6	95.5	P	30 - 160

Lab Sample ID: 2165908
Field Sample ID: G3WA0011

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	71.1	P	30 - 160
EPA 8321B	Diuron-d6	71.3	P	30 - 160
EPA 8321B	Endothall-d6	125	P	30 - 160
EPA 8321B	Endothall-d6	125	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	115	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.3	P	30 - 160
EPA 8321B	Primidone-d5	89.2	P	30 - 160
EPA 8321B	Sucralose-d6	95.1	P	30 - 160
EPA 8321B	Sucralose-d6	95.1	P	30 - 160

Lab Sample ID: 2165909
Field Sample ID: G3WA0004

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	130	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2165909
Field Sample ID: G3WA0004

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	92.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.0	P	30 - 160
EPA 8321B	Diuron-d6	86.2	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Endothall-d6	117	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.7	P	30 - 160
EPA 8321B	Primidone-d5	93.1	P	30 - 160
EPA 8321B	Sucralose-d6	92.5	P	30 - 160
EPA 8321B	Sucralose-d6	92.5	P	30 - 160

Lab Sample ID: 2165910
Field Sample ID: G3WA0010

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	123	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.7	P	30 - 160
EPA 8321B	Diuron-d6	92.3	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	118	P	30 - 160
EPA 8321B	Ibuprofen-d3	78.9	P	30 - 160
EPA 8321B	Primidone-d5	96.2	P	30 - 160
EPA 8321B	Sucralose-d6	85.0	P	30 - 160
EPA 8321B	Sucralose-d6	85.0	P	30 - 160

Lab Sample ID: 2165911
Field Sample ID: G3WA0013

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	102	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.7	P	30 - 160
EPA 8321B	Diuron-d6	79.0	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Endothall-d6	119	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.0	P	30 - 160
EPA 8321B	Primidone-d5	90.9	P	30 - 160
EPA 8321B	Sucralose-d6	92.0	P	30 - 160
EPA 8321B	Sucralose-d6	92.0	P	30 - 160

Lab Sample ID: 2165912
Field Sample ID: G3WA0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	121	P	30 - 160
EPA 8321B	Acetaminophen-d4	98.6	P	30 - 160

Quality Assurance Report
Surrogates

Lab Sample ID: 2165912
Field Sample ID: G3WA0006

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbamazepine-d10	49.3	P	30 - 160
EPA 8321B	Diuron-d6	81.1	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	114	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	114	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.0	P	30 - 160
EPA 8321B	Primidone-d5	101	P	30 - 160
EPA 8321B	Sucralose-d6	90.3	P	30 - 160
EPA 8321B	Sucralose-d6	90.3	P	30 - 160

Lab Sample ID: 2165913
Field Sample ID: G3WA0009

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	94.9	P	30 - 160
EPA 8321B	Carbamazepine-d10	72.6	P	30 - 160
EPA 8321B	Diuron-d6	65.9	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Endothall-d6	122	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	101	P	30 - 160
EPA 8321B	Ibuprofen-d3	72.7	P	30 - 160
EPA 8321B	Primidone-d5	80.8	P	30 - 160
EPA 8321B	Sucralose-d6	78.2	P	30 - 160
EPA 8321B	Sucralose-d6	78.2	P	30 - 160

Quality Assurance Report
Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A98259
Included Lab Sample IDs: 2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.9	99.9	P/P	90 - 110
Chloride	99.5	98.9	P/P	90 - 110
Chloride	99.9	100	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110
Sulfate	99.3	100	P/P	90 - 110
Sulfate	99.6	99.3	P/P	90 - 110

Reference Method: SM 2120 B-2011
Run ID: A98263
Included Lab Sample IDs: 2165866, 2165872, 2165877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	101	P/P	90 - 115
Color (true)	99.8	103	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A98278
Included Lab Sample IDs: 2165870, 2165871, 2165884, 2165885, 2165886, 2165887, 2165888, 2165889

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.1	97.0	P/P	90 - 110
O-Phosphate-P	99.2	98.1	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A98286
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	113	P/P	60 - 160
Sucralose	65.1	102	P/P	60 - 160

Reference Method: SM 2120 B-2011
Run ID: A98294
Included Lab Sample IDs: 2165867, 2165873, 2165874, 2165875, 2165876

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	106	P/P	90 - 115
Color (true)	104	106	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A98314
Included Lab Sample IDs: 2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	99.5	P/P	95 - 105

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A98320
Included Lab Sample IDs: 2165914, 2165915

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

Quality Assurance Report
Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A98320
Included Lab Sample IDs: 2165914, 2165915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	106	105	P/P	90 - 110
Calcium	103	106	P/P	90 - 110
Iron	102	105	P/P	90 - 110
Magnesium	103	105	P/P	90 - 110
Potassium	98.3	100	P/P	90 - 110
Sodium	102	103	P/P	90 - 110
Zinc	106	105	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A98321
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	92.8	95.2	P/P	60 - 160
Acesulfame K	97.3	94.5	P/P	60 - 160
Endothall	101	122	P/P	60 - 160
Endothall	121	125	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A98324
Included Lab Sample IDs: 2165914, 2165915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	102	P/P	90 - 110
Arsenic	101	101	P/P	90 - 110
Boron	102	106	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Copper	95.1	92.0	P/P	90 - 110
Lead	102	102	P/P	90 - 110
Nickel	101	102	P/P	90 - 110
Selenium	98.7	98.5	P/P	90 - 110
Thallium	98.9	97.7	P/P	90 - 110

Reference Method: SM 5310 B-2011
Run ID: A98330
Included Lab Sample IDs: 2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A98342
Included Lab Sample IDs: 2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 2320 B-2011
Run ID: A98350
Included Lab Sample IDs: 2165866, 2165867, 2165872, 2165873, 2165874, 2165875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	106	103	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A98362
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	100	P/P	40 - 200
AMPA	113	118	P/P	40 - 200
Glufosinate	121	119	P/P	40 - 200
Glufosinate	127	116	P/P	40 - 200
Glyphosate	125	128	P/P	40 - 200
Glyphosate	133	122	P/P	40 - 200

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A98393
Included Lab Sample IDs: 2165868, 2165869, 2165878, 2165879

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	94.4	P/P	90 - 110
Kjeldahl Nitrogen	94.4	99.4	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A98394
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	96.9	P/P	50 - 150
2,4-D	110	105	P/P	50 - 150
2,4-D	96.9	99.6	P/P	50 - 150
Acetaminophen	103	104	P/P	60 - 160
Acetaminophen	104	102	P/P	60 - 160
Acetaminophen	99.7	103	P/P	60 - 160
Acetamiprid	102	98.1	P/P	50 - 150
Acetamiprid	97.0	90.7	P/P	50 - 150
Acetamiprid	98.1	97.0	P/P	50 - 150
Afidopyropen	106	83.8	P/P	50 - 150
Afidopyropen	120	106	P/P	50 - 150
Afidopyropen	83.8	106	P/P	50 - 150
Bentazon	114	114	P/P	50 - 160
Bentazon	115	90.1	P/P	50 - 160
Bentazon	90.1	114	P/P	50 - 160
Benzovindiflupyr	101	107	P/P	50 - 150
Benzovindiflupyr	107	101	P/P	50 - 150
Benzovindiflupyr	107	101	P/P	50 - 150
Carbamazepine	104	105	P/P	60 - 150
Carbamazepine	113	104	P/P	60 - 150
Carbamazepine	71.1	113	P/P	60 - 150
Clothianidin	87.9	92.0	P/P	60 - 150
Clothianidin	90.8	87.9	P/P	60 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A98394
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Clothianidin	92.0	110	P/P	60 - 150
Dinotefuran	107	89.5	P/P	50 - 150
Dinotefuran	81.7	107	P/P	50 - 150
Dinotefuran	93.8	81.7	P/P	50 - 150
Diuron	111	114	P/P	60 - 150
Diuron	114	103	P/P	60 - 150
Diuron	116	111	P/P	60 - 150
Fenuron	104	101	P/P	60 - 150
Fenuron	91.1	95.6	P/P	60 - 150
Fenuron	95.6	104	P/P	60 - 150
Fluridone	106	110	P/P	60 - 160
Fluridone	106	107	P/P	60 - 160
Fluridone	107	106	P/P	60 - 160
Hydrocodone	102	103	P/P	60 - 150
Hydrocodone	103	97.0	P/P	60 - 150
Hydrocodone	98.5	102	P/P	60 - 150
Ibuprofen	102	104	P/P	50 - 160
Ibuprofen	110	102	P/P	50 - 160
Ibuprofen	95.2	110	P/P	50 - 160
Imazapyr	73.2	90.9	P/P	50 - 150
Imazapyr	90.9	97.4	P/P	50 - 150
Imazapyr	97.4	92.0	P/P	50 - 150
Imidacloprid	88.2	97.6	P/P	60 - 150
Imidacloprid	95.9	88.2	P/P	60 - 150
Imidacloprid	97.6	94.3	P/P	60 - 150
Linuron	106	99.4	P/P	60 - 150
Linuron	114	106	P/P	60 - 150
Linuron	117	114	P/P	60 - 150
Mandestrobin	105	105	P/P	50 - 150
Mandestrobin	105	106	P/P	50 - 150
Mandestrobin	106	107	P/P	50 - 150
MCPP	101	97.0	P/P	50 - 150
MCPP	84.9	91.7	P/P	50 - 150
MCPP	97.0	84.9	P/P	50 - 150
Naproxen	114	103	P/P	50 - 160
Naproxen	123	114	P/P	50 - 160
Naproxen	64.6	123	P/P	50 - 160
Primidone	86.3	93.9	P/P	60 - 150
Primidone	87.7	86.3	P/P	60 - 150
Primidone	93.9	92.6	P/P	60 - 150
Pyraclostrobin	106	111	P/P	60 - 150
Pyraclostrobin	108	111	P/P	60 - 150
Pyraclostrobin	111	108	P/P	60 - 150
Thiamethoxam	102	107	P/P	50 - 150
Thiamethoxam	107	90.5	P/P	50 - 150
Thiamethoxam	98.0	102	P/P	50 - 150
Tolfenpyrad	107	107	P/P	60 - 150
Tolfenpyrad	107	112	P/P	60 - 150
Tolfenpyrad	112	107	P/P	60 - 150
Triclopyr	105	89.5	P/P	50 - 150
Triclopyr	96.2	105	P/P	50 - 150

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8321B
Run ID: A98394
Included Lab Sample IDs: 2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Triclopyr	96.7	96.2	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A98422
Included Lab Sample IDs: 2165880, 2165881, 2165882, 2165883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	101	P/P	90 - 110

Reference Method: SM 4500 F-C-2011
Run ID: A98428
Included Lab Sample IDs: 2165866, 2165867, 2165872, 2165873, 2165874, 2165875

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	96.7	95.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A98429
Included Lab Sample IDs: 2165868

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.8	100	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A98446
Included Lab Sample IDs: 2165914, 2165915

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	97.1	104	P/P	90 - 110
Cadmium	98.1	103	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A98466
Included Lab Sample IDs: 2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.0	98.5	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A98490
Included Lab Sample IDs: 2165876, 2165877

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

Reference Method: SM 4500 F-C-2011
Run ID: A98495
Included Lab Sample IDs: 2165876, 2165877

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

Quality Assurance Report
Calibration Verification

Reference Method: SM 4500 F-C-2011
Run ID: A98495
Included Lab Sample IDs: 2165876, 2165877

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

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A98519
Included Lab Sample IDs: 2165869, 2165878, 2165879, 2165881, 2165882, 2165883

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	103	P/P	90 - 110
Total-P	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A98544
Included Lab Sample IDs: 2165880

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	98.2	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision		
						LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						2.69	
EPA 200.7 Rev. 4.4	Barium	101	101	101	102			0.847
	Calcium	104	101	103				0.474
	Iron	98.4	99.6	101	101			0.523
	Magnesium	101	101	100	101			0.479
	Potassium	95.8	97.4	94.8	97.6			2.13
	Sodium	99.9	100	100				2.30
	Zinc	102	103	102	103			0.814
EPA 200.8 Rev. 5.4	Aluminum	100	96.6	98.1	97.7			0.387
	Antimony	100	99.5	101	99.1			1.58
	Arsenic	101	98.9	99.6	100			0.515
	Boron	105	106	106	107			0.867
	Cadmium	99.2	99.5	98.6	97.2			1.46
	Chromium	102	98.9	99.9	101			0.742
	Copper	100	100	90.7	90.7			0.0049
	Lead	101	100	99.7	99.9			0.141
	Nickel	99.8	96.3	97.4	96.9			0.520
	Selenium	94.3	90.2	89.1	88.6			0.545
	Silver	102	100	101	99.8			1.58
	Thallium	104	104	104	105			1.00
EPA 300.0 Rev. 2.1	Chloride	99.4	96.5	98.6			0.799	
	Chloride	101	102	99.0			0.662	
	Sulfate	99.2	97.0	98.1			0.566	
	Sulfate	101	98.6	99.5			0.645	
EPA 350.1 Rev. 2.0	Ammonia-N	101	99.5	100				0.784
	Ammonia-N	99.9	101	100				0.791
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.8	101	102				0.688
	Kjeldahl Nitrogen	105	105	96.6				4.46
EPA 353.2 Rev. 2.0	NO2NO3-N	98.5	96.2	98.2				1.80
EPA 365.1 Rev. 2.0	Total-P	105	109	106				2.08
	Total-P	106	110	109				0.782
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	91.9	92.7				0.791
EPA 8321B	2,4-D	132	141	131				7.55
	2,4-D	133	91.7	121				26.2
	Acesulfame K	88.1	138	152				9.76
	Acetaminophen	87.9	109	94.8				14.1
	Acetaminophen	89.8	92.2	76.3				18.8
	Acetamiprid	81.5	106	105				0.588
	Acetamiprid	90.8	84.8	75.6				11.6
	Afidopyropen	101	111	98.5				11.7
	Afidopyropen	92.0	92.5	98.3				6.13
	AMPA	103	103	112				9.13
	Bentazon	112						4.85
	Bentazon	94.0	46.5	48.7				4.66
	Benzovindiflupyr	87.8	79.8	74.5				6.87
	Benzovindiflupyr	78.5	63.8	69.0				7.50
	Carbamazepine	115	107	103				3.90
	Carbamazepine	107	75.2	85.6				13.0
	Clothianidin	91.5	102	94.3				7.02
	Clothianidin	88.1	81.1	97.2				18.0
	Dinotefuran	74.8	119	119				0.554
	Dinotefuran	91.8	104	96.5				7.10
	Diuron	94.0	68.8	77.6				6.25
	Diuron	64.2	60.3	64.8				7.21

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8321B	Endothall	104	116	119			2.04
	Fenuron	91.0	85.4	81.7			2.31
	Fenuron	94.6	73.8	74.1			0.257
	Fluridone	103					4.29
	Fluridone	97.0	82.5	87.8			6.18
	Glufosinate	115	110	106			4.41
	Glyphosate	112	107	108			0.961
	Hydrocodone	95.9	113	108			4.53
	Hydrocodone	98.8	97.1	87.1			10.8
	Ibuprofen	88.6	75.0	76.9			2.33
	Ibuprofen	86.4	72.1	72.7			0.811
	Imazapyr	92.3	112	112			0.0089
	Imazapyr	92.4	88.9	106			17.3
	Imidacloprid	115	182	165			7.11
	Imidacloprid	114	141	154			8.49
	Linuron	72.8	76.7	72.5			5.62
	Linuron	80.9	48.7	55.6			13.3
	Mandestrobin	95.7	90.1	87.6			2.80
	Mandestrobin	91.9	77.9	74.8			4.07
	MCPP	151	164	153			6.95
	MCPP	145	146	140			4.33
	Naproxen	77.7	138	124			11.1
	Naproxen	65.4	78.6	81.4			3.49
	Primidone	91.1	103	96.9			5.70
	Primidone	91.8	81.3	84.0			3.33
	Pyraclostrobin	86.6	88.2	83.6			5.36
	Pyraclostrobin	85.9	73.8	78.5			6.20
	Sucralose	89.6	127	105			18.9
	Thiamethoxam	95.6	155	141			9.01
	Thiamethoxam	106	110	122			9.96
	Tolfenpyrad	61.7	61.8	59.4			4.03
	Tolfenpyrad	54.1	51.2	53.4			4.25
	Triclopyr	106	126	108			15.3
	Triclopyr	96.4	137	135			1.22
SM 2120 B-2011	Color (true)	100				0.218	
	Color (true)	103				7.74	
SM 2320 B-2011	Total Alkalinity	104				0.325	
	Total Alkalinity	105				0.0890	
	Total Alkalinity	103				0.0254	
SM 2540 C-2011	TDS					4.44	
	TDS					5.18	
SM 2540 D-2011	TSS					13.3	
SM 4500 F-C-2011	Fluoride	94.3					1.41
	Fluoride	97.3	101	104			1.43
SM 5310 B-2011	Organic Carbon	101	100	102			2.12

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2165914, 2165915

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2165914, 2165915
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2165870, 2165871, 2165884, 2165885, 2165886, 2165887, 2165888, 2165889
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2165906, 2165907, 2165908, 2165909, 2165910, 2165911, 2165912, 2165913
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	2165914, 2165915
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2165868, 2165869, 2165878, 2165879, 2165880, 2165881, 2165882, 2165883

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	03/17/2020			03/18/2020 16:33	Yen Ta	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
EPA 200.7 Rev. 4.4	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/19/2020 21:00	Betina Topolski	2165914
	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/19/2020 21:08	Betina Topolski	2165915
EPA 200.8 Rev. 5.4	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/19/2020 18:27	Alexander Thompson	2165914
	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/19/2020 18:36	Alexander Thompson	2165915
	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/24/2020 14:47	Justin Cutchin	2165914
	03/17/2020	03/18/2020 17:30	Elliott D. Healy	03/24/2020 14:52	Justin Cutchin	2165915
EPA 300.0 Rev. 2.1	03/17/2020			03/19/2020 19:24	Lipi Saha	2165866
	03/17/2020			03/19/2020 19:36	Lipi Saha	2165867
	03/17/2020			03/19/2020 20:12	Lipi Saha	2165872
	03/17/2020			03/19/2020 20:24	Lipi Saha	2165873
	03/17/2020			03/19/2020 20:37	Lipi Saha	2165874
	03/17/2020			03/19/2020 22:25	Lipi Saha	2165875
	03/17/2020			03/19/2020 22:50	Lipi Saha	2165876
	03/17/2020			03/19/2020 23:02	Lipi Saha	2165877
EPA 350.1 Rev. 2.0	03/17/2020			03/21/2020 14:43	Ping Hua	2165878
	03/17/2020			03/21/2020 14:48	Ping Hua	2165882
	03/17/2020			03/21/2020 14:51	Ping Hua	2165868
	03/17/2020			03/21/2020 14:58	Ping Hua	2165869
	03/17/2020			03/21/2020 15:00	Ping Hua	2165879
	03/17/2020			03/21/2020 15:01	Ping Hua	2165880
	03/17/2020			03/21/2020 15:03	Ping Hua	2165881
	03/17/2020			03/21/2020 15:28	Ping Hua	2165883
EPA 351.2 Rev. 2.0	03/17/2020	03/23/2020 12:20	Sima Feizi	03/24/2020 10:32	Jhamieka S. Greenwood	2165879
	03/17/2020	03/23/2020 12:20	Sima Feizi	03/24/2020 10:49	Jhamieka S. Greenwood	2165868
	03/17/2020	03/23/2020 12:20	Sima Feizi	03/24/2020 10:51	Jhamieka S. Greenwood	2165869
	03/17/2020	03/23/2020 12:20	Sima Feizi	03/24/2020 10:53	Jhamieka S. Greenwood	2165878
	03/17/2020	03/24/2020 09:20	Sima Feizi	03/25/2020 09:38	Jhamieka S. Greenwood	2165880
	03/17/2020	03/24/2020 09:20	Sima Feizi	03/25/2020 09:40	Jhamieka S. Greenwood	2165881
	03/17/2020	03/24/2020 09:20	Sima Feizi	03/25/2020 09:42	Jhamieka S. Greenwood	2165882
	03/17/2020	03/24/2020 09:20	Sima Feizi	03/25/2020 09:43	Jhamieka S. Greenwood	2165883
EPA 353.2 Rev. 2.0	03/17/2020			03/26/2020 17:08	Lauren Lees	2165868
	03/17/2020			03/26/2020 17:17	Lauren Lees	2165869
	03/17/2020			03/26/2020 17:18	Lauren Lees	2165878
	03/17/2020			03/26/2020 17:19	Lauren Lees	2165879
	03/17/2020			03/26/2020 17:20	Lauren Lees	2165880
	03/17/2020			03/26/2020 17:21	Lauren Lees	2165881
	03/17/2020			03/26/2020 17:22	Lauren Lees	2165882
	03/17/2020			03/26/2020 17:24	Lauren Lees	2165883

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	03/17/2020	03/24/2020 14:46	Lipi Saha	03/25/2020 12:06	Benjamin T. Nordmann	2165868
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 21:52	Benjamin T. Nordmann	2165869
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 21:55	Benjamin T. Nordmann	2165878
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 21:56	Benjamin T. Nordmann	2165879
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 21:58	Benjamin T. Nordmann	2165881
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 22:01	Benjamin T. Nordmann	2165882
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/27/2020 22:02	Benjamin T. Nordmann	2165883
	03/17/2020	03/25/2020 14:20	Lipi Saha	03/30/2020 17:49	Benjamin T. Nordmann	2165880
EPA 365.1 Rev. 2.0 dissolved	03/17/2020			03/18/2020 14:09	Carlos Miranda	2165870
	03/17/2020			03/18/2020 14:12	Carlos Miranda	2165871
	03/17/2020			03/18/2020 14:13	Carlos Miranda	2165884
	03/17/2020			03/18/2020 14:14	Carlos Miranda	2165885, 2165886
	03/17/2020			03/18/2020 14:15	Carlos Miranda	2165887
	03/17/2020			03/18/2020 14:16	Carlos Miranda	2165888
	03/17/2020			03/18/2020 14:21	Carlos Miranda	2165889
EPA 8321B	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 12:20	Mohammad Ghaffari	2165906
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 15:16	Mohammad Ghaffari	2165907
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 15:28	Mohammad Ghaffari	2165908
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 15:40	Mohammad Ghaffari	2165909
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 15:52	Mohammad Ghaffari	2165910
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 16:03	Mohammad Ghaffari	2165911
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 16:15	Mohammad Ghaffari	2165912
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/18/2020 16:27	Mohammad Ghaffari	2165913
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 10:13	Mohammad Ghaffari	2165906
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 13:40	Mohammad Ghaffari	2165907
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 13:54	Mohammad Ghaffari	2165908
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 14:08	Mohammad Ghaffari	2165909
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 14:22	Mohammad Ghaffari	2165910
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 14:36	Mohammad Ghaffari	2165911
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 14:50	Mohammad Ghaffari	2165912
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/19/2020 15:04	Mohammad Ghaffari	2165913
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 09:29	Mohammad Ghaffari	2165906
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 12:10	Mohammad Ghaffari	2165907
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 12:20	Mohammad Ghaffari	2165908
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 12:31	Mohammad Ghaffari	2165909
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 12:42	Mohammad Ghaffari	2165910
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 12:52	Mohammad Ghaffari	2165911
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 13:03	Mohammad Ghaffari	2165912
	03/17/2020	03/18/2020 11:00	Mohammad Ghaffari	03/20/2020 13:14	Mohammad Ghaffari	2165913
	03/17/2020	03/18/2020 14:00	Hoor Shaik	03/21/2020 05:10	Juyoung Kim	2165906

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/17/2020	03/18/2020 14:00	Hoor Shaik	03/21/2020 05:44	Juyoung Kim	2165907
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 09:12	Juyoung Kim	2165908
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 09:47	Juyoung Kim	2165909
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 10:22	Juyoung Kim	2165910
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 10:56	Juyoung Kim	2165911
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 12:06	Juyoung Kim	2165912
	03/17/2020	03/19/2020 10:00	Hoor Shaik	03/21/2020 12:41	Juyoung Kim	2165913
SM 2120 B-2011	03/17/2020			03/18/2020 10:51	Madeline Gruver	2165866
	03/17/2020			03/18/2020 10:52	Madeline Gruver	2165872
	03/17/2020			03/18/2020 11:26	Madeline Gruver	2165877
	03/17/2020			03/18/2020 18:24	Madeline Gruver	2165867, 2165873
	03/17/2020			03/18/2020 18:26	Madeline Gruver	2165875, 2165876
	03/17/2020			03/18/2020 18:55	Madeline Gruver	2165874
SM 2320 B-2011	03/17/2020			03/20/2020 21:05	Dale L. Simmons	2165872
	03/17/2020			03/20/2020 21:14	Dale L. Simmons	2165873
	03/17/2020			03/20/2020 21:24	Dale L. Simmons	2165874
	03/17/2020			03/20/2020 21:33	Dale L. Simmons	2165875
	03/17/2020			03/21/2020 14:18	Dale L. Simmons	2165866
	03/17/2020			03/21/2020 14:27	Dale L. Simmons	2165867
	03/17/2020			03/27/2020 00:51	Dale L. Simmons	2165876
	03/17/2020			03/27/2020 01:00	Dale L. Simmons	2165877
SM 2340B	03/17/2020			03/19/2020 21:00	Betina Topolski	2165914
	03/17/2020			03/19/2020 21:08	Betina Topolski	2165915
SM 2540 C-2011	03/17/2020			03/20/2020 15:21	Yijie Li	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 2540 D-2011	03/17/2020			03/20/2020 15:21	Yijie Li	2165866, 2165867, 2165872, 2165873, 2165874, 2165875, 2165876, 2165877
SM 4500 F-C-2011	03/17/2020			03/25/2020 03:09	Dale L. Simmons	2165866
	03/17/2020			03/25/2020 03:14	Dale L. Simmons	2165867
	03/17/2020			03/25/2020 03:19	Dale L. Simmons	2165872
	03/17/2020			03/25/2020 03:24	Dale L. Simmons	2165873
	03/17/2020			03/25/2020 03:30	Dale L. Simmons	2165874
	03/17/2020			03/25/2020 03:35	Dale L. Simmons	2165875
	03/17/2020			03/27/2020 20:32	Dale L. Simmons	2165876
	03/17/2020			03/27/2020 20:37	Dale L. Simmons	2165877
SM 5310 B-2011	03/17/2020			03/19/2020 15:23	Lauren Lees	2165881
	03/17/2020			03/19/2020 16:49	Lauren Lees	2165869
	03/17/2020			03/19/2020 17:01	Lauren Lees	2165868
	03/17/2020			03/19/2020 17:14	Lauren Lees	2165878
	03/17/2020			03/19/2020 17:28	Lauren Lees	2165879

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 5310 B-2011	03/17/2020			03/19/2020 17:40	Lauren Lees	2165880
	03/17/2020			03/19/2020 17:53	Lauren Lees	2165882
	03/17/2020			03/19/2020 18:05	Lauren Lees	2165883