

Chemical Analysis Report

NE-DIST-2019-11-21-03

Florida Department of Environmental Protection
Central Laboratory
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DOH Accreditation E31780

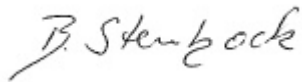
Event Description: **ACEPD sample November for FDEP**
Request ID: **RQ-2019-11-04-26**
Customer: **NE-DIST**
Project ID: **SMP**

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

Date Certified: 09-DEC-2019 17:10



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 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: Paroners Branch-E of CR 1491, S of NW 276th Ln Collection Date/Time: 11/20/2019 10:20

Field ID: G1NE0906

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138415	EPA 8321B	2,4-D	0.0020	U	ug/L	P374613	MS
		Acesulfame K**	0.10	U	ug/L	P374626	
		AMPA**	0.17	I	ug/L	P374626	
		Sucralose**	0.042		ug/L	P374626	
		Acetaminophen**	0.028	I	ug/L	P374613	
		Acetamiprid**	0.0020	U	ug/L	P374613	
		Endothall**	0.25	U	ug/L	P374626	
		Glufosinate**	0.10	U	ug/L	P374626	
		Glyphosate**	0.14	I	ug/L	P374626	
		Afidopyropen**	0.0020	UJ	ug/L	P374613	
		Bentazon	8.0E-04	U	ug/L	P374613	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374613	
		Carbamazepine**	8.0E-04	U	ug/L	P374613	
		Clothianidin**	0.014		ug/L	P374613	
		Dinotefuran**	0.0020	U	ug/L	P374613	
		Diuron	0.021		ug/L	P374613	
		Fenuron	0.031	I	ug/L	P374613	
		Fluridone**	9.8E-04	I	ug/L	P374613	
		Imazapyr**	0.0040	U	ug/L	P374613	
		Hydrocodone**	0.0020	U	ug/L	P374613	
		Ibuprofen**	0.020	U	ug/L	P374613	
		Imidacloprid	0.0020	U	ug/L	P374613	
		Linuron	0.0040	U	ug/L	P374613	
		Mandestrobin**	0.0020	UJ	ug/L	P374613	
		MCP	0.0020	U	ug/L	P374613	
		Naproxen**	0.0080	U	ug/L	P374613	
		Primidone**	0.0040	U	ug/L	P374613	
		Pyraclostrobin**	0.0020	U	ug/L	P374613	
		Thiamethoxam**	0.0020	U	ug/L	P374613	
		Tolfenpyrad**	0.0020	U	ug/L	P374613	
		Triclopyr**	0.0040	U	ug/L	P374613	
2138420	EPA 200.7 Rev. 4.4	Barium	4.9		ug/L	P374877	
		Calcium	23.7		mg/L	P374877	
		Iron	110	I	ug/L	P374877	
		Magnesium	8.37		mg/L	P374877	
		Potassium	2.1		mg/L	P374877	
		Sodium	7.9		mg/L	P374877	
		Zinc	5.0	U	ug/L	P374877	
	EPA 200.8 Rev. 5.4	Aluminum	135		ug/L	P374877	
		Antimony	0.084	I	ug/L	P374877	
		Arsenic	0.46		ug/L	P374877	
		Boron**	24.1		ug/L	P374877	
		Cadmium	0.045	I	ug/L	P374877	

Field ID: G1NE0906

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138420	EPA 200.8 Rev. 5.4	Chromium	0.40	U	ug/L	P374877	
		Copper	0.66	I	ug/L	P374877	
		Lead	0.20	U	ug/L	P374877	
		Nickel	0.50	U	ug/L	P374877	
		Selenium	0.27	I	ug/L	P374877	
		Silver	0.010	U	ug/L	P374877	
		Thallium	0.10	U	ug/L	P374877	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Duplicate Paranners Br E of CR1491

Collection Date/Time: 11/20/2019 10:25

Field ID: G1NE0906DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138416	EPA 8321B	2,4-D	0.0020	U	ug/L	P374613	
		Acesulfame K**	0.10	U	ug/L	P374626	
		AMPA**	0.16	I	ug/L	P374626	
		Sucralose**	0.047		ug/L	P374626	MS
		Acetaminophen**	0.038		ug/L	P374613	
		Acetamiprid**	0.0020	U	ug/L	P374613	
		Endothall**	0.25	U	ug/L	P374626	
		Glufosinate**	0.10	U	ug/L	P374626	
		Glyphosate**	0.16	I	ug/L	P374626	
		Afidopyropen**	0.0020	UJ	ug/L	P374613	
		Bentazon	8.0E-04	U	ug/L	P374613	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374613	
		Carbamazepine**	8.0E-04	U	ug/L	P374613	
		Clothianidin**	0.013		ug/L	P374613	
		Dinotefuran**	0.0020	U	ug/L	P374613	
		Diuron	0.021		ug/L	P374613	
		Fenuron	0.029	I	ug/L	P374613	
		Fluridone**	8.0E-04	U	ug/L	P374613	
		Imazapyr**	0.0040	U	ug/L	P374613	
		Hydrocodone**	0.0020	U	ug/L	P374613	
		Ibuprofen**	0.020	U	ug/L	P374613	
		Imidacloprid	0.0020	U	ug/L	P374613	
		Linuron	0.0040	U	ug/L	P374613	
		Mandestrobin**	0.0020	UJ	ug/L	P374613	
		MCP	0.0020	U	ug/L	P374613	
		Naproxen**	0.0080	U	ug/L	P374613	
		Primidone**	0.0040	U	ug/L	P374613	
		Pyraclostrobin**	0.0020	U	ug/L	P374613	
		Thiamethoxam**	0.0020	U	ug/L	P374613	
		Tolfenpyrad**	0.0020	U	ug/L	P374613	
		Triclopyr**	0.0040	U	ug/L	P374613	
2138421	EPA 200.7 Rev. 4.4	Barium	5.0		ug/L	P374877	
		Calcium	24.0		mg/L	P374877	
		Iron	110	I	ug/L	P374877	
		Magnesium	8.58		mg/L	P374877	
		Potassium	2.1		mg/L	P374877	
		Sodium	7.9		mg/L	P374877	
		Zinc	5.0	U	ug/L	P374877	
	EPA 200.8 Rev. 5.4	Aluminum	135		ug/L	P374877	
		Antimony	0.078	I	ug/L	P374877	
		Arsenic	0.44		ug/L	P374877	
		Boron**	22.3		ug/L	P374877	
		Cadmium	0.041	I	ug/L	P374877	
		Chromium	0.45	I	ug/L	P374877	

Field ID: G1NE0906DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138421	EPA 200.8 Rev. 5.4	Copper	0.70	I	ug/L	P374877	
		Lead	0.20	U	ug/L	P374877	
		Nickel	0.50	U	ug/L	P374877	
		Selenium	0.25	I	ug/L	P374877	
		Silver	0.010	U	ug/L	P374877	
		Thallium	0.10	U	ug/L	P374877	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Paroners Branch

Collection Date/Time: 11/20/2019 11:20

Field ID: G1NE0917

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138417	EPA 8321B	2,4-D	0.0051	I	ug/L	P374613	
		Acesulfame K**	0.10	U	ug/L	P374626	
		AMPA**	0.16	I	ug/L	P374626	
		Sucralose**	0.045		ug/L	P374626	MS
		Acetaminophen**	0.028	I	ug/L	P374613	
		Acetamiprid**	0.0020	U	ug/L	P374613	
		Endothall**	0.25	U	ug/L	P374626	
		Glufosinate**	0.10	U	ug/L	P374626	
		Glyphosate**	0.12	I	ug/L	P374626	
		Afidopyropen**	0.0020	UJ	ug/L	P374613	
		Bentazon	8.0E-04	U	ug/L	P374613	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374613	
		Carbamazepine**	8.0E-04	U	ug/L	P374613	
		Clothianidin**	0.016		ug/L	P374613	
		Dinotefuran**	0.0020	U	ug/L	P374613	
		Diuron	0.020		ug/L	P374613	
		Fenuron	0.016	U	ug/L	P374613	
		Fluridone**	8.0E-04	U	ug/L	P374613	
		Imazapyr**	0.0040	U	ug/L	P374613	
		Hydrocodone**	0.0020	U	ug/L	P374613	
		Ibuprofen**	0.020	U	ug/L	P374613	
		Imidacloprid	0.0020	U	ug/L	P374613	
		Linuron	0.0040	U	ug/L	P374613	
		Mandestrobin**	0.0020	UJ	ug/L	P374613	
		MCPP	0.0020	U	ug/L	P374613	
		Naproxen**	0.0080	U	ug/L	P374613	
		Primidone**	0.0040	U	ug/L	P374613	
		Pyraclostrobin**	0.0020	U	ug/L	P374613	
		Thiamethoxam**	0.0020	U	ug/L	P374613	
		Tolfenpyrad**	0.0020	U	ug/L	P374613	
		Triclopyr**	0.0040	U	ug/L	P374613	
2138422	EPA 200.7 Rev. 4.4	Barium	9.1		ug/L	P374877	
		Calcium	26.0		mg/L	P374877	
		Iron	220		ug/L	P374877	
		Magnesium	9.11		mg/L	P374877	
		Potassium	2.6		mg/L	P374877	
		Sodium	8.4		mg/L	P374877	
		Zinc	5.0	U	ug/L	P374877	
	EPA 200.8 Rev. 5.4	Aluminum	316		ug/L	P374877	
		Antimony	0.079	I	ug/L	P374877	
		Arsenic	0.43		ug/L	P374877	
		Boron**	20.7		ug/L	P374877	
		Cadmium	0.120		ug/L	P374877	
		Chromium	0.95	I	ug/L	P374877	

Field ID: G1NE0917

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138422	EPA 200.8 Rev. 5.4	Copper	0.44	I	ug/L	P374877	
		Lead	0.26	I	ug/L	P374877	
		Nickel	0.53	I	ug/L	P374877	
		Selenium	0.20	U	ug/L	P374877	
		Silver	0.010	U	ug/L	P374877	
		Thallium	0.10	U	ug/L	P374877	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Mill Creek-E of Old Belamy Rd

Collection Date/Time: 11/20/2019 12:00

Field ID: G1NE0907

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138418	EPA 8321B	2,4-D	0.0020	U	ug/L	P374613	
		Acesulfame K**	0.10	U	ug/L	P374626	
		AMPA**	0.10	U	ug/L	P374626	
		Sucralose**	0.010	U	ug/L	P374626	MS
		Acetaminophen**	0.0080	U	ug/L	P374613	
		Acetamiprid**	0.0020	U	ug/L	P374613	
		Endothall**	0.25	U	ug/L	P374626	
		Glufosinate**	0.10	U	ug/L	P374626	
		Glyphosate**	0.10	U	ug/L	P374626	
		Afidopyropen**	0.0020	UJ	ug/L	P374613	
		Bentazon	8.0E-04	U	ug/L	P374613	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374613	
		Carbamazepine**	8.0E-04	U	ug/L	P374613	
		Clothianidin**	0.0020	U	ug/L	P374613	
		Dinotefuran**	0.0020	U	ug/L	P374613	
		Diuron	0.0020	U	ug/L	P374613	
		Fenuron	0.016	U	ug/L	P374613	
		Fluridone**	8.0E-04	U	ug/L	P374613	
		Imazapyr**	0.0040	U	ug/L	P374613	
		Hydrocodone**	0.0020	U	ug/L	P374613	
		Ibuprofen**	0.020	U	ug/L	P374613	
		Imidacloprid	0.0020	U	ug/L	P374613	
		Linuron	0.0040	U	ug/L	P374613	
		Mandestrobin**	0.0020	UJ	ug/L	P374613	
		MCPP	0.0020	U	ug/L	P374613	
		Naproxen**	0.0080	U	ug/L	P374613	
		Primidone**	0.0040	U	ug/L	P374613	
		Pyraclostrobin**	0.0020	U	ug/L	P374613	
		Thiamethoxam**	0.0020	U	ug/L	P374613	
		Tolfenpyrad**	0.0020	U	ug/L	P374613	
		Triclopyr**	0.0040	U	ug/L	P374613	
2138423	EPA 200.7 Rev. 4.4	Barium	1.6	I	ug/L	P374877	
		Calcium	11.0		mg/L	P374877	
		Iron	160		ug/L	P374877	
		Magnesium	4.11		mg/L	P374877	
		Potassium	0.44	I	mg/L	P374877	
		Sodium	4.7		mg/L	P374877	
		Zinc	5.0	U	ug/L	P374877	
	EPA 200.8 Rev. 5.4	Aluminum	99		ug/L	P374877	
		Antimony	0.050	U	ug/L	P374877	
		Arsenic	0.34		ug/L	P374877	
		Boron**	13.3		ug/L	P374877	
		Cadmium	0.020	U	ug/L	P374877	
		Chromium	0.77	I	ug/L	P374877	

Field ID: G1NE0907

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138423	EPA 200.8 Rev. 5.4	Copper	0.40	U	ug/L	P374877	
		Lead	0.20	U	ug/L	P374877	
		Nickel	0.50	U	ug/L	P374877	
		Selenium	0.20	U	ug/L	P374877	
		Silver	0.010	U	ug/L	P374877	
		Thallium	0.10	U	ug/L	P374877	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138419	EPA 8321B	2,4-D	0.0020	U	ug/L	P374613	MS
		Acesulfame K**	0.10	U	ug/L	P374626	
		AMPA**	0.27	I	ug/L	P374626	
		Sucralose**	0.20		ug/L	P374626	
		Acetaminophen**	0.0080	U	ug/L	P374613	
		Acetamiprid**	0.0020	U	ug/L	P374613	
		Endothall**	0.25	U	ug/L	P374626	
		Glufosinate**	0.10	U	ug/L	P374626	
		Glyphosate**	0.34	I	ug/L	P374626	
		Afidopyropen**	0.0020	UJ	ug/L	P374613	
		Bentazon	0.0058		ug/L	P374613	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P374613	
		Carbamazepine**	8.0E-04	U	ug/L	P374613	
		Clothianidin**	0.0020	U	ug/L	P374613	
		Dinotefuran**	0.0020	U	ug/L	P374613	
		Diuron	0.0020	U	ug/L	P374613	
		Fenuron	0.016	U	ug/L	P374613	
		Fluridone**	8.0E-04	U	ug/L	P374613	
		Imazapyr**	0.16		ug/L	P374613	
		Hydrocodone**	0.0020	U	ug/L	P374613	
		Ibuprofen**	0.020	U	ug/L	P374613	
		Imidacloprid	0.0059	I	ug/L	P374613	
		Linuron	0.0040	U	ug/L	P374613	
		Mandestrobin**	0.0020	UJ	ug/L	P374613	
		MCPP	0.0020	U	ug/L	P374613	
		Naproxen**	0.0080	U	ug/L	P374613	
		Primidone**	0.0040	U	ug/L	P374613	
		Pyraclostrobin**	0.0020	U	ug/L	P374613	
		Thiamethoxam**	0.0020	U	ug/L	P374613	
		Tolfenpyrad**	0.0020	U	ug/L	P374613	
Triclopyr**	0.0040	U	ug/L	P374613			
2138424	EPA 200.7 Rev. 4.4	Barium	4.9		ug/L	P374877	
		Calcium	39.5		mg/L	P374877	
		Iron	160		ug/L	P374877	
		Magnesium	11.7		mg/L	P374877	
		Potassium	1.2	I	mg/L	P374877	
		Sodium	9.5		mg/L	P374877	
		Zinc	5.0	U	ug/L	P374877	
	EPA 200.8 Rev. 5.4	Aluminum	61		ug/L	P374877	
		Antimony	0.099	I	ug/L	P374877	
		Arsenic	0.67		ug/L	P374877	
		Boron**	26.8		ug/L	P374877	
		Cadmium	0.020	U	ug/L	P374877	

Field ID: G1NE0915

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2138424	EPA 200.8 Rev. 5.4	Chromium	0.62	I	ug/L	P374877	
		Copper	0.40	I	ug/L	P374877	
		Lead	0.20	U	ug/L	P374877	
		Nickel	0.79	I	ug/L	P374877	
		Selenium	0.20	U	ug/L	P374877	
		Silver	0.010	U	ug/L	P374877	
		Thallium	0.10	U	ug/L	P374877	

Ref. Method and Comment:

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374877

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: P374877

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 8321B
Batch ID: P374613

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P374613

Component	Result	Code	Units
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P374626

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	99.0		P	85 - 115
Calcium	107		P	85 - 115
Iron	111		P	85 - 115
Magnesium	107		P	85 - 115
Potassium	108		P	85 - 115
Sodium	106		P	85 - 115
Zinc	99.1		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374877

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.8		P	85 - 115
Antimony	98.6		P	85 - 115
Arsenic	96.5		P	85 - 115
Boron	104		P	85 - 115
Cadmium	93.7		P	85 - 115
Chromium	96.7		P	85 - 115
Copper	96.1		P	85 - 115
Lead	99.1		P	85 - 115
Nickel	96.7		P	85 - 115
Selenium	93.4		P	85 - 115
Silver	102		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 8321B
Batch ID: P374613

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	152		P	40 - 160
Acetaminophen	80.7		P	30 - 160
Acetamiprid	103		P	40 - 160
Afidopyropen	112		P	40 - 160
Bentazon	83.4		P	30 - 160
Benzovindiflupyr	75.8		P	40 - 160
Carbamazepine	99.4		P	40 - 160
Clothianidin	90.1		P	40 - 160
Dinotefuran	96.3		P	40 - 160
Diuron	82.8		P	40 - 160
Fenuron	105		P	40 - 160
Fluridone	91.1		P	40 - 160
Hydrocodone	94.0		P	40 - 160
Ibuprofen	81.0		P	30 - 160
Imazapyr	102		P	40 - 160
Imidacloprid	111		P	40 - 160
Linuron	83.3		P	40 - 160
Mandestrobin	85.0		P	40 - 160
MCPP	146		P	40 - 160
Naproxen	97.4		P	40 - 160
Primidone	84.7		P	40 - 160
Pyraclostrobin	83.2		P	30 - 160
Thiamethoxam	99.2		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P374613

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tolfenpyrad	57.8		P	40 - 160
Triclopyr	91.4		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P374626

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	92.4		P	40 - 150
AMPA	116		P	40 - 150
Endothall	98.2		P	40 - 150
Glufosinate	109		P	40 - 150
Glyphosate	133		P	40 - 140
Sucralose	111		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2138268	Barium	95.4		P	80 - 120
2138268	Calcium	104		P	80 - 120
2138268	Iron	106		P	80 - 120
2138268	Magnesium	104		P	80 - 120
2138268	Potassium	101		P	80 - 120
2138268	Sodium	104		P	80 - 120
2138268	Zinc	94.9		P	80 - 120
2138420	Barium	98.3	99.6	P/P	80 - 120
2138420	Calcium	103		P	80 - 120
2138420	Iron	106	108	P/P	80 - 120
2138420	Magnesium	101		P	80 - 120
2138420	Potassium	99.3	105	P/P	80 - 120
2138420	Sodium	102		P	80 - 120
2138420	Zinc	98.4	99.2	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374877

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2138268	Aluminum	95.3		P	80 - 120
2138268	Antimony	100		P	80 - 120
2138268	Arsenic	96.7		P	80 - 120
2138268	Boron	100		P	80 - 120
2138268	Cadmium	95.9		P	80 - 120
2138268	Chromium	98.6		P	80 - 120
2138268	Copper	92.7		P	80 - 120
2138268	Lead	99.0		P	80 - 120
2138268	Nickel	93.5		P	80 - 120
2138268	Selenium	92.2		P	80 - 120
2138268	Silver	102		P	80 - 120
2138268	Thallium	104		P	80 - 120
2138420	Aluminum	99.3	95.2	P/P	80 - 120
2138420	Antimony	99.7	97.1	P/P	80 - 120
2138420	Arsenic	98.7	97.9	P/P	80 - 120
2138420	Boron	105	99.9	P/P	80 - 120
2138420	Cadmium	95.2	93.0	P/P	80 - 120
2138420	Chromium	100	97.5	P/P	80 - 120
2138420	Copper	96.6	94.9	P/P	80 - 120
2138420	Lead	101	98.4	P/P	80 - 120
2138420	Nickel	98.6	97.5	P/P	80 - 120
2138420	Selenium	91.9	90.3	P/P	80 - 120
2138420	Silver	103	100	P/P	80 - 120
2138420	Thallium	106	103	P/P	80 - 120

Reference Method: EPA 8321B
Batch ID: P374613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2137732	2,4-D	136	128	P/P	40 - 160
2137732	Acetaminophen	86.1	83.2	P/P	30 - 160
2137732	Acetamiprid	106	100	P/P	40 - 160
2137732	Afidopyropen	118	105	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P374613

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2137732	Benzovindiflupyr	80.3	80.1	P/P	40 - 160
2137732	Carbamazepine	83.6	83.5	P/P	40 - 160
2137732	Clothianidin	101	100	P/P	40 - 160
2137732	Dinotefuran	124	123	P/P	40 - 160
2137732	Diuron	66.9	62.8	P/P	40 - 160
2137732	Fenuron	99.5	95.8	P/P	40 - 160
2137732	Fluridone	81.2	72.8	P/P	40 - 160
2137732	Hydrocodone	101	98.1	P/P	40 - 160
2137732	Ibuprofen	72.5	74.8	P/P	30 - 160
2137732	Imidacloprid	158	158	P/P	40 - 160
2137732	Linuron	70.4	72.1	P/P	40 - 160
2137732	Mandestrobin	83.9	79.9	P/P	40 - 160
2137732	MCP	137	127	P/P	40 - 160
2137732	Naproxen	103	85.4	P/P	40 - 160
2137732	Primidone	94.8	93.4	P/P	40 - 160
2137732	Pyraclostrobin	86.1	85.6	P/P	30 - 160
2137732	Thiamethoxam	138	134	P/P	40 - 160
2137732	Tolfenpyrad	58.9	59.3	P/P	40 - 160
2137732	Triclopyr	110	101	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P374626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2138266	Acesulfame K	114	114	P/P	40 - 150
2138266	AMPA	119	132	P/P	40 - 150
2138266	Endothall	138	132	P/P	40 - 150
2138266	Glufosinate	97.5	94.1	P/P	40 - 150
2138266	Glyphosate	84.4	94.1	P/P	40 - 140
2138266	Sucralose	36.4	39.7	F/F	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P374877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2138420	Barium	1.37	Spike	P	0 - 20
2138420	Calcium	1.92	Spike	P	0 - 20
2138420	Iron	1.93	Spike	P	0 - 20
2138420	Magnesium	3.20	Spike	P	0 - 20
2138420	Potassium	3.59	Spike	P	0 - 20
2138420	Sodium	2.27	Spike	P	0 - 20
2138420	Zinc	0.823	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P374877

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2138420	Aluminum	3.58	Spike	P	0 - 20
2138420	Antimony	2.67	Spike	P	0 - 20
2138420	Arsenic	0.877	Spike	P	0 - 20
2138420	Boron	4.11	Spike	P	0 - 20
2138420	Cadmium	2.25	Spike	P	0 - 20
2138420	Chromium	2.82	Spike	P	0 - 20
2138420	Copper	1.79	Spike	P	0 - 20
2138420	Lead	2.99	Spike	P	0 - 20
2138420	Nickel	1.10	Spike	P	0 - 20
2138420	Selenium	1.79	Spike	P	0 - 20
2138420	Silver	2.95	Spike	P	0 - 20
2138420	Thallium	2.34	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P374613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2137732	2,4-D	4.48	Spike	P	0 - 30
2137732	Acetaminophen	3.41	Spike	P	0 - 30
2137732	Acetamiprid	5.31	Spike	P	0 - 30
2137732	Afidopyropen	11.2	Spike	P	0 - 30
2137732	Bentazon	3.15	Spike	P	0 - 30
2137732	Benzovindiflupyr	0.191	Spike	P	0 - 30
2137732	Carbamazepine	0.121	Spike	P	0 - 30
2137732	Clothianidin	0.802	Spike	P	0 - 30
2137732	Dinotefuran	0.273	Spike	P	0 - 30
2137732	Diuron	3.78	Spike	P	0 - 30
2137732	Fenuron	3.81	Spike	P	0 - 30
2137732	Fluridone	5.82	Spike	P	0 - 30
2137732	Hydrocodone	3.00	Spike	P	0 - 30
2137732	Ibuprofen	3.07	Spike	P	0 - 30
2137732	Imazapyr	4.08	Spike	P	0 - 30
2137732	Imidacloprid	0.135	Spike	P	0 - 30
2137732	Linuron	2.34	Spike	P	0 - 30
2137732	Mandestrobin	4.87	Spike	P	0 - 30
2137732	MCP	7.46	Spike	P	0 - 30
2137732	Naproxen	19.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P374613

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2137732	Primidone	1.52	Spike	P	0 - 30
2137732	Pyraclostrobin	0.541	Spike	P	0 - 30
2137732	Thiamethoxam	3.11	Spike	P	0 - 30
2137732	Tolfenpyrad	0.634	Spike	P	0 - 30
2137732	Triclopyr	7.65	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P374626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2138266	Acesulfame K	0.411	Spike	P	0 - 30
2138266	AMPA	8.94	Spike	P	0 - 30
2138266	Endothall	4.62	Spike	P	0 - 30
2138266	Glufosinate	3.54	Spike	P	0 - 30
2138266	Glyphosate	7.89	Spike	P	0 - 30
2138266	Sucralose	8.77	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2138415
Field Sample ID: G1NE0906

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	156	P	30 - 160
EPA 8321B	Acetaminophen-d4	99.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.7	P	30 - 160
EPA 8321B	Diuron-d6	95.7	P	30 - 160
EPA 8321B	Endothall-d6	129	P	30 - 160
EPA 8321B	Endothall-d6	129	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	126	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	126	P	30 - 160
EPA 8321B	Ibuprofen-d3	87.9	P	30 - 160
EPA 8321B	Primidone-d5	95.9	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160
EPA 8321B	Sucralose-d6	101	P	30 - 160

Lab Sample ID: 2138416
Field Sample ID: G1NE0906DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	136	P	30 - 160
EPA 8321B	Acetaminophen-d4	97.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	98.7	P	30 - 160
EPA 8321B	Diuron-d6	93.7	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Endothall-d6	104	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	132	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	132	P	30 - 160
EPA 8321B	Ibuprofen-d3	95.6	P	30 - 160
EPA 8321B	Primidone-d5	90.5	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	30 - 160

Lab Sample ID: 2138417
Field Sample ID: G1NE0917

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	81.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	92.2	P	30 - 160
EPA 8321B	Diuron-d6	88.3	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	112	P	30 - 160
EPA 8321B	Ibuprofen-d3	75.1	P	30 - 160
EPA 8321B	Primidone-d5	92.8	P	30 - 160
EPA 8321B	Sucralose-d6	99.0	P	30 - 160
EPA 8321B	Sucralose-d6	99.0	P	30 - 160

Lab Sample ID: 2138418
Field Sample ID: G1NE0907

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	146	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2138418
Field Sample ID: G1NE0907

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	97.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	101	P	30 - 160
EPA 8321B	Diuron-d6	93.1	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Endothall-d6	101	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	82.9	P	30 - 160
EPA 8321B	Primidone-d5	90.5	P	30 - 160
EPA 8321B	Sucralose-d6	75.9	P	30 - 160
EPA 8321B	Sucralose-d6	75.9	P	30 - 160

Lab Sample ID: 2138419
Field Sample ID: G1NE0915

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	130	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.2	P	30 - 160
EPA 8321B	Diuron-d6	76.1	P	30 - 160
EPA 8321B	Endothall-d6	123	P	30 - 160
EPA 8321B	Endothall-d6	123	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	124	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	124	P	30 - 160
EPA 8321B	Ibuprofen-d3	73.9	P	30 - 160
EPA 8321B	Primidone-d5	91.3	P	30 - 160
EPA 8321B	Sucralose-d6	140	P	30 - 160
EPA 8321B	Sucralose-d6	140	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A95944

Included Lab Sample IDs: 2138415, 2138416, 2138417, 2138418, 2138419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	118	101	P/P	60 - 160
Glufosinate	102	80.3	P/P	60 - 160
Glyphosate	113	90.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A95960

Included Lab Sample IDs: 2138415, 2138416, 2138417, 2138418, 2138419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	82.2	88.2	P/P	60 - 160
Endothall	99.5	92.8	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A96024

Included Lab Sample IDs: 2138420, 2138421, 2138422, 2138423, 2138424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.1	101	P/P	90 - 110
Calcium	102	105	P/P	90 - 110
Iron	103	104	P/P	90 - 110
Magnesium	102	104	P/P	90 - 110
Potassium	103	104	P/P	90 - 110
Sodium	102	104	P/P	90 - 110
Zinc	100	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A96086

Included Lab Sample IDs: 2138415, 2138416, 2138417, 2138418, 2138419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	97.5	102	P/P	50 - 150
Acetaminophen	107	107	P/P	60 - 160
Acetamiprid	109	110	P/P	50 - 150
Afidopyropen	105	104	P/P	50 - 150
Bentazon	92.1	95.1	P/P	50 - 160
Benzovindiflupyr	103	105	P/P	50 - 150
Carbamazepine	105	99.1	P/P	60 - 150
Clothianidin	106	111	P/P	60 - 150
Dinotefuran	102	112	P/P	50 - 150
Diuron	93.4	91.4	P/P	60 - 150
Fenuron	118	116	P/P	60 - 150
Fluridone	104	103	P/P	60 - 160
Hydrocodone	101	97.5	P/P	60 - 150
Ibuprofen	74.1	100	P/P	50 - 160
Imazapyr	106	91.1	P/P	50 - 150
Imidacloprid	103	101	P/P	60 - 150
Linuron	101	89.2	P/P	60 - 150
Mandestrobin	115	119	P/P	50 - 150
MCPP	116	111	P/P	50 - 150
Naproxen	112	75.6	P/P	50 - 160
Primidone	99.2	97.6	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A96086

Included Lab Sample IDs: 2138415, 2138416, 2138417, 2138418, 2138419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	104	105	P/P	60 - 150
Thiamethoxam	107	109	P/P	50 - 150
Tolfenpyrad	115	114	P/P	60 - 150
Triclopyr	96.5	97.9	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A96127

Included Lab Sample IDs: 2138415, 2138416, 2138417, 2138418, 2138419

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	117	135	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A96141

Included Lab Sample IDs: 2138420, 2138421, 2138422, 2138423, 2138424

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	94.3	94.2	P/P	90 - 110
Aluminum	94.8	94.3	P/P	90 - 110
Antimony	95.1	94.8	P/P	90 - 110
Antimony	96.2	95.1	P/P	90 - 110
Arsenic	96.8	98.4	P/P	90 - 110
Arsenic	98.4	97.5	P/P	90 - 110
Boron	103	103	P/P	90 - 110
Boron	103	102	P/P	90 - 110
Cadmium	94.9	95.0	P/P	90 - 110
Cadmium	95.4	94.9	P/P	90 - 110
Chromium	101	99.7	P/P	90 - 110
Chromium	99.7	103	P/P	90 - 110
Copper	98.0	99.9	P/P	90 - 110
Copper	99.9	99.6	P/P	90 - 110
Lead	97.1	97.6	P/P	90 - 110
Lead	97.6	97.6	P/P	90 - 110
Nickel	98.0	99.6	P/P	90 - 110
Nickel	99.6	99.6	P/P	90 - 110
Selenium	96.1	96.1	P/P	90 - 110
Selenium	97.4	96.1	P/P	90 - 110
Silver	102	103	P/P	90 - 110
Silver	103	103	P/P	90 - 110
Thallium	94.4	95.1	P/P	90 - 110
Thallium	95.1	94.0	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 SMP	MS
			LCS				
EPA 200.7 Rev. 4.4	Barium	99.0	95.4	98.3	99.6		1.37
	Calcium	107	104	103			1.92
	Iron	111	106	106	108		1.93
	Magnesium	107	104	101			3.20
	Potassium	108	101	99.3	105		3.59
	Sodium	106	104	102			2.27
	Zinc	99.1	94.9	98.4	99.2		0.823
EPA 200.8 Rev. 5.4	Aluminum	97.8	95.3	99.3	95.2		3.58
	Antimony	98.6	100	99.7	97.1		2.67
	Arsenic	96.5	96.7	98.7	97.9		0.877
	Boron	104	100	105	99.9		4.11
	Cadmium	93.7	95.9	95.2	93.0		2.25
	Chromium	96.7	98.6	100	97.5		2.82
	Copper	96.1	92.7	96.6	94.9		1.79
	Lead	99.1	99.0	101	98.4		2.99
	Nickel	96.7	93.5	98.6	97.5		1.10
	Selenium	93.4	92.2	91.9	90.3		1.79
	Silver	102	102	103	100		2.95
	Thallium	101	104	106	103		2.34
	2,4-D	152	136	128			4.48
	Acesulfame K	92.4	114	114			0.411
EPA 8321B	Acetaminophen	80.7	86.1	83.2			3.41
	Acetamiprid	103	106	100			5.31
	Afidopyropen	112	118	105			11.2
	AMPA	116	119	132			8.94
	Bentazon	83.4					3.15
	Benzovindiflupyr	75.8	80.3	80.1			0.191
	Carbamazepine	99.4	83.6	83.5			0.121
	Clothianidin	90.1	101	100			0.802
	Dinotefuran	96.3	124	123			0.273
	Diuron	82.8	66.9	62.8			3.78
	Endothall	98.2	138	132			4.62
	Fenuron	105	99.5	95.8			3.81
	Fluridone	91.1	81.2	72.8			5.82
	Glufosinate	109	97.5	94.1			3.54
	Glyphosate	133	84.4	94.1			7.89
	Hydrocodone	94.0	101	98.1			3.00
	Ibuprofen	81.0	72.5	74.8			3.07
	Imazapyr	102					4.08
	Imidacloprid	111	158	158			0.135
	Linuron	83.3	70.4	72.1			2.34
	Mandestrobin	85.0	83.9	79.9			4.87
	MCPP	146	137	127			7.46
	Naproxen	97.4	103	85.4			19.0
	Primidone	84.7	94.8	93.4			1.52
	Pyraclostrobin	83.2	86.1	85.6			0.541
	Sucralose	111	36.4	39.7			8.77
	Thiamethoxam	99.2	138	134			3.11
	Tolfenpyrad	57.8	58.9	59.3			0.634
	Triclopyr	91.4	110	101			7.65

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2138420, 2138421, 2138422, 2138423, 2138424
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2138420, 2138421, 2138422, 2138423, 2138424
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2138415, 2138416, 2138417, 2138418, 2138419
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2138415, 2138416, 2138417, 2138418, 2138419

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 200.7 Rev. 4.4	11/21/2019	11/26/2019 15:05	Elliott D. Healy	11/27/2019 14:47	Betina Topolski	2138420
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	11/27/2019 15:08	Betina Topolski	2138421
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	11/27/2019 15:13	Betina Topolski	2138422
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	11/27/2019 15:20	Betina Topolski	2138423
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	11/27/2019 15:24	Betina Topolski	2138424
EPA 200.8 Rev. 5.4	11/21/2019	11/26/2019 15:05	Elliott D. Healy	12/05/2019 23:39	Alexander Thompson	2138420
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	12/06/2019 00:48	Alexander Thompson	2138421
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	12/06/2019 00:57	Alexander Thompson	2138422
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	12/06/2019 01:07	Alexander Thompson	2138423
	11/21/2019	11/26/2019 15:05	Elliott D. Healy	12/06/2019 01:17	Alexander Thompson	2138424
EPA 8321B	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/22/2019 14:48	Rebecca Ware	2138415
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/22/2019 15:02	Rebecca Ware	2138416
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/22/2019 15:16	Rebecca Ware	2138417
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/22/2019 15:30	Rebecca Ware	2138418
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/22/2019 15:44	Rebecca Ware	2138419
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/23/2019 14:33	Rebecca Ware	2138415
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/23/2019 14:43	Rebecca Ware	2138416
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/23/2019 14:54	Rebecca Ware	2138417
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/23/2019 15:05	Rebecca Ware	2138418
	11/21/2019	11/22/2019 10:15	Rebecca Ware	11/23/2019 15:16	Rebecca Ware	2138419
	11/21/2019	11/22/2019 10:15	Rebecca Ware	12/03/2019 23:26	Rebecca Ware	2138415
	11/21/2019	11/22/2019 10:15	Rebecca Ware	12/03/2019 23:38	Rebecca Ware	2138416
	11/21/2019	11/22/2019 10:15	Rebecca Ware	12/03/2019 23:49	Rebecca Ware	2138417
	11/21/2019	11/22/2019 10:15	Rebecca Ware	12/04/2019 00:01	Rebecca Ware	2138418
	11/21/2019	11/22/2019 10:15	Rebecca Ware	12/04/2019 00:13	Rebecca Ware	2138419
	11/21/2019	11/25/2019 09:00	Hoor Shaik	11/26/2019 17:38	Juyoung Kim	2138415
	11/21/2019	11/25/2019 09:00	Hoor Shaik	11/26/2019 18:13	Juyoung Kim	2138416
	11/21/2019	11/25/2019 09:00	Hoor Shaik	11/26/2019 18:47	Juyoung Kim	2138417
	11/21/2019	11/25/2019 09:00	Hoor Shaik	11/26/2019 19:22	Juyoung Kim	2138418
	11/21/2019	11/25/2019 09:00	Hoor Shaik	11/26/2019 19:57	Juyoung Kim	2138419