

Chemical Analysis Report

SO-DIST-2020-09-22-02

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

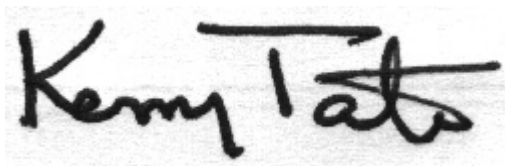
Event Description: **Hatchee Cricks PT1**
Request ID: **RQ-2020-09-21-39**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
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Fort Myers, FL 33901-3381
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 06-OCT-2020 12:47

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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 group are included in this report: 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: Powell Creek

Collection Date/Time: 09/21/2020 08:15

Field ID: G3SD0165

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2197435	EPA 8321B	2,4-D	0.014		ug/L	P387668	
		Acesulfame K**	0.10	U	ug/L	P387746	
		AMPA**	0.44		ug/L	P387746	
		Sucralose**	0.23		ug/L	P387746	
		Acetaminophen**	0.0080	U	ug/L	P387668	
		Acetamiprid**	0.0020	U	ug/L	P387668	
		Endothall**	0.25	U	ug/L	P387746	
		Glufosinate**	0.10	U	ug/L	P387746	
		Glyphosate**	0.61		ug/L	P387746	
		Afidopyropen**	0.0020	U	ug/L	P387668	
		Bentazon	8.0E-04	U	ug/L	P387668	
		Benzovindiflupyr**	0.0020	U	ug/L	P387668	
		Carbamazepine**	0.0032		ug/L	P387668	
		Clothianidin**	0.0020	U	ug/L	P387668	
		Dinotefuran**	0.0020	U	ug/L	P387668	
		Diuron	0.0020	U	ug/L	P387668	
		Fenuron	0.016	U	ug/L	P387668	
		Fluridone**	0.098		ug/L	P387668	
		Imazapyr**	0.046		ug/L	P387668	
		Hydrocodone**	0.0020	U	ug/L	P387668	
		Ibuprofen**	0.020	U	ug/L	P387668	
		Imidacloprid	0.0058	I	ug/L	P387668	
		Linuron	0.0040	U	ug/L	P387668	
		Mandestrobin**	0.0020	U	ug/L	P387668	
		MCPP	0.0020	U	ug/L	P387668	
		Naproxen**	0.0080	U	ug/L	P387668	
		Primidone**	0.0040	U	ug/L	P387668	
		Pyraclostrobin**	0.0020	U	ug/L	P387668	
		Thiamethoxam**	0.0020	U	ug/L	P387668	
		Tolfenpyrad**	0.0020	U	ug/L	P387668	
		Triclopyr**	0.0040	U	ug/L	P387668	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Popash Creek @ Pritchett Pkwy

Collection Date/Time: 09/21/2020 08:35

Field ID: G3SD0079

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2197436	EPA 8321B	2,4-D	0.0085		ug/L	P387668	
		Acesulfame K**	0.10	U	ug/L	P387746	
		AMPA**	0.43		ug/L	P387746	
		Sucralose**	0.010	U	ug/L	P387746	
		Acetaminophen**	0.0080	U	ug/L	P387668	
		Acetamiprid**	0.0020	U	ug/L	P387668	
		Endothall**	0.25	U	ug/L	P387746	
		Glufosinate**	0.10	U	ug/L	P387746	
		Glyphosate**	0.79		ug/L	P387746	
		Afidopyropen**	0.0020	U	ug/L	P387668	
		Bentazon	8.0E-04	U	ug/L	P387668	
		Benzovindiflupyr**	0.0020	U	ug/L	P387668	
		Carbamazepine**	8.0E-04	U	ug/L	P387668	
		Clothianidin**	0.0020	U	ug/L	P387668	
		Dinotefuran**	0.0020	U	ug/L	P387668	
		Diuron	0.0020	U	ug/L	P387668	
		Fenuron	0.016	U	ug/L	P387668	
		Fluridone**	8.0E-04	U	ug/L	P387668	
		Imazapyr**	0.0074	I	ug/L	P387668	
		Hydrocodone**	0.0020	U	ug/L	P387668	
		Ibuprofen**	0.020	U	ug/L	P387668	
		Imidacloprid	0.0040	I	ug/L	P387668	
		Linuron	0.0040	U	ug/L	P387668	
		Mandestrobin**	0.0020	U	ug/L	P387668	
		MCPP	0.0020	U	ug/L	P387668	
		Naproxen**	0.0080	U	ug/L	P387668	
		Primidone**	0.0040	U	ug/L	P387668	
		Pyraclostrobin**	0.0020	U	ug/L	P387668	
		Thiamethoxam**	0.0020	U	ug/L	P387668	
		Tolfenpyrad**	0.0020	U	ug/L	P387668	
		Triclopyr**	0.0040	U	ug/L	P387668	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Cypress Creek @ N River Rd

Collection Date/Time: 09/21/2020 09:15

Field ID: G3SD0084

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2197437	EPA 8321B	2,4-D	0.0024	I	ug/L	P387668	
		Acesulfame K**	0.10	U	ug/L	P387746	
		AMPA**	0.21	I	ug/L	P387746	
		Sucralose**	0.010	U	ug/L	P387746	
		Acetaminophen**	0.0080	U	ug/L	P387668	
		Acetamiprid**	0.0020	U	ug/L	P387668	
		Endothall**	0.25	U	ug/L	P387746	
		Glufosinate**	0.10	U	ug/L	P387746	
		Glyphosate**	0.55		ug/L	P387746	
		Afidopyropen**	0.0020	U	ug/L	P387668	
		Bentazon	8.0E-04	U	ug/L	P387668	
		Benzovindiflupyr**	0.0020	U	ug/L	P387668	
		Carbamazepine**	8.0E-04	U	ug/L	P387668	
		Clothianidin**	0.0020	U	ug/L	P387668	
		Dinotefuran**	0.0020	U	ug/L	P387668	
		Diuron	0.0020	U	ug/L	P387668	
		Fenuron	0.016	U	ug/L	P387668	
		Fluridone**	8.0E-04	U	ug/L	P387668	
		Imazapyr**	0.63		ug/L	P387668	
		Hydrocodone**	0.0020	U	ug/L	P387668	
		Ibuprofen**	0.020	U	ug/L	P387668	
		Imidacloprid	0.0031	I	ug/L	P387668	
		Linuron	0.0040	U	ug/L	P387668	
		Mandestrobin**	0.0020	U	ug/L	P387668	
		MCPP	0.0020	U	ug/L	P387668	
		Naproxen**	0.0080	U	ug/L	P387668	
		Primidone**	0.0040	U	ug/L	P387668	
		Pyraclostrobin**	0.0020	U	ug/L	P387668	
		Thiamethoxam**	0.0020	U	ug/L	P387668	
		Tolfenpyrad**	0.0020	U	ug/L	P387668	
		Triclopyr**	0.0040	U	ug/L	P387668	

Ref. Method and Comment:

EPA 8321B: MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P387668

Component	Result	Code	Units
2,4-D	0.25	U	ug/L
Acetaminophen	1.0	U	ug/L
Acetamiprid	0.25	U	ug/L
Afidopyropen	0.25	U	ug/L
Bentazon	0.10	U	ug/L
Benzovindiflupyr	0.25	U	ug/L
Carbamazepine	0.10	U	ug/L
Clothianidin	0.25	U	ug/L
Dinotefuran	0.25	U	ug/L
Diuron	0.25	U	ug/L
Fenuron	2.0	U	ug/L
Fluridone	0.10	U	ug/L
Hydrocodone	0.25	U	ug/L
Ibuprofen	2.5	U	ug/L
Imazapyr	0.50	U	ug/L
Imidacloprid	0.25	U	ug/L
Linuron	0.50	U	ug/L
Mandestrobin	0.25	U	ug/L
MCPP	0.25	U	ug/L
Naproxen	1.0	U	ug/L
Primidone	0.50	U	ug/L
Pyraclostrobin	0.25	U	ug/L
Thiamethoxam	0.25	U	ug/L
Tolfenpyrad	0.25	U	ug/L
Triclopyr	0.50	U	ug/L

Reference Method: EPA 8321B
Batch ID: P387746

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 8321B
 Batch ID: P387668

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	97.8		P	30 - 160
Acetaminophen	70.1		P	30 - 160
Acetamiprid	67.5		P	30 - 160
Afidopyropen	55.4		P	30 - 160
Bentazon	53.6		P	30 - 160
Benzovindiflupyr	53.1		P	30 - 160
Carbamazepine	56.4		P	30 - 160
Clothianidin	69.8		P	30 - 160
Dinotefuran	80.4		P	30 - 160
Diuron	47.0		P	30 - 160
Fenuron	82.8		P	30 - 160
Fluridone	69.4		P	30 - 160
Hydrocodone	59.9		P	30 - 160
Ibuprofen	53.9		P	30 - 160
Imazapyr	75.6		P	30 - 160
Imidacloprid	86.5		P	30 - 160
Linuron	59.3		P	30 - 160
Mandestrobin	66.1		P	30 - 160
MCPP	97.5		P	30 - 160
Naproxen	75.2		P	30 - 160
Primidone	67.8		P	30 - 160
Pyraclostrobin	53.7		P	30 - 160
Thiamethoxam	69.2		P	30 - 160
Tolfenpyrad	35.4		P	30 - 160
Triclopyr	70.8		P	30 - 160

Reference Method: EPA 8321B
 Batch ID: P387746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.1		P	40 - 150
AMPA	82.5		P	40 - 150
Endothall	94.7		P	40 - 150
Glufosinate	89.8		P	40 - 150
Glyphosate	101		P	40 - 140
Sucralose	95.8		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P387668

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2197057	Acetaminophen	77.2	72.4	P/P	30 - 160
2197057	Acetamiprid	65.3	59.4	P/P	30 - 160
2197057	Afidopyropen	54.6	50.4	P/P	30 - 160
2197057	Benzovindiflupyr	60.5	57.8	P/P	30 - 160
2197057	Carbamazepine	49.7	46.7	P/P	30 - 160
2197057	Clothianidin	61.0	61.2	P/P	30 - 160
2197057	Dinotefuran	89.2	81.2	P/P	30 - 160
2197057	Diuron	39.4	41.2	P/P	30 - 160
2197057	Fenuron	75.4	73.8	P/P	30 - 160
2197057	Hydrocodone	70.1	66.4	P/P	30 - 160
2197057	Ibuprofen	52.5	50.9	P/P	30 - 160
2197057	Linuron	50.4	54.0	P/P	30 - 160
2197057	Mandestrobin	65.5	66.3	P/P	30 - 160
2197057	MCP	94.0	86.9	P/P	30 - 160
2197057	Naproxen	116	109	P/P	30 - 160
2197057	Primidone	75.0	71.4	P/P	30 - 160
2197057	Pyraclostrobin	59.9	54.1	P/P	30 - 160
2197057	Thiamethoxam	88.4	86.8	P/P	30 - 160
2197057	Tolfenpyrad	44.2	38.0	P/P	30 - 160
2197057	Triclopyr	72.9	78.7	P/P	30 - 160

Reference Method: EPA 8321B
 Batch ID: P387746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2197190	Acesulfame K	114	119	P/P	40 - 150
2197190	AMPA	114	117	P/P	40 - 150
2197190	Endothall	107	93.8	P/P	40 - 150
2197190	Glufosinate	83.8	94.5	P/P	40 - 150
2197190	Glyphosate	82.6	80.4	P/P	40 - 140
2197190	Sucralose	99.1	102	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P387668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2197057	2,4-D	4.75	Spike	P	0 - 30
2197057	Acetaminophen	6.44	Spike	P	0 - 30
2197057	Acetamiprid	9.37	Spike	P	0 - 30
2197057	Afidopyropen	8.08	Spike	P	0 - 30
2197057	Bentazon	11.1	Spike	P	0 - 30
2197057	Benzovindiflupyr	4.71	Spike	P	0 - 30
2197057	Carbamazepine	6.15	Spike	P	0 - 30
2197057	Clothianidin	0.184	Spike	P	0 - 30
2197057	Dinotefuran	9.31	Spike	P	0 - 30
2197057	Diuron	3.77	Spike	P	0 - 30
2197057	Fenuron	2.08	Spike	P	0 - 30
2197057	Fluridone	5.52	Spike	P	0 - 30
2197057	Hydrocodone	5.47	Spike	P	0 - 30
2197057	Ibuprofen	3.12	Spike	P	0 - 30
2197057	Imazapyr	7.01	Spike	P	0 - 30
2197057	Imidacloprid	3.58	Spike	P	0 - 30
2197057	Linuron	6.85	Spike	P	0 - 30
2197057	Mandestrobin	1.24	Spike	P	0 - 30
2197057	MCPP	7.90	Spike	P	0 - 30
2197057	Naproxen	6.51	Spike	P	0 - 30
2197057	Primidone	4.95	Spike	P	0 - 30
2197057	Pyraclostrobin	10.3	Spike	P	0 - 30
2197057	Thiamethoxam	1.64	Spike	P	0 - 30
2197057	Tolfenpyrad	15.3	Spike	P	0 - 30
2197057	Triclopyr	7.62	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P387746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2197190	Acesulfame K	4.24	Spike	P	0 - 30
2197190	AMPA	1.86	Spike	P	0 - 30
2197190	Endothall	13.0	Spike	P	0 - 30
2197190	Glufosinate	12.0	Spike	P	0 - 30
2197190	Glyphosate	2.62	Spike	P	0 - 30
2197190	Sucralose	2.90	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2197435
Field Sample ID: G3SD0165

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	76.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	58.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	39.5	P	30 - 160
EPA 8321B	Diuron-d6	38.8	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Endothall-d6	108	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	67.0	P	30 - 160
EPA 8321B	Primidone-d5	66.3	P	30 - 160
EPA 8321B	Sucralose-d6	42.3	P	30 - 160
EPA 8321B	Sucralose-d6	42.3	P	30 - 160

Lab Sample ID: 2197436
Field Sample ID: G3SD0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	79.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	63.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	42.3	P	30 - 160
EPA 8321B	Diuron-d6	35.8	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Endothall-d6	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	100	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	100	P	30 - 160
EPA 8321B	Ibuprofen-d3	74.0	P	30 - 160
EPA 8321B	Primidone-d5	60.9	P	30 - 160
EPA 8321B	Sucralose-d6	67.0	P	30 - 160
EPA 8321B	Sucralose-d6	67.0	P	30 - 160

Lab Sample ID: 2197437
Field Sample ID: G3SD0084

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	63.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	53.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	39.3	P	30 - 160
EPA 8321B	Diuron-d6	31.2	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Endothall-d6	116	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.9	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.2	P	30 - 160
EPA 8321B	Primidone-d5	57.7	P	30 - 160
EPA 8321B	Sucralose-d6	65.4	P	30 - 160
EPA 8321B	Sucralose-d6	65.4	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A101191

Included Lab Sample IDs: 2197435, 2197436, 2197437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	88.1	90.8	P/P	60 - 160
Endothall	107	112	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A101224

Included Lab Sample IDs: 2197435, 2197436, 2197437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.8	71.8	P/P	60 - 160
Glufosinate	96.7	94.0	P/P	60 - 160
Glyphosate	97.1	97.5	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A101289

Included Lab Sample IDs: 2197435, 2197436, 2197437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	123	134	P/P	50 - 150
Acetaminophen	125	124	P/P	60 - 160
Acetamiprid	122	126	P/P	50 - 150
Afidopyropen	95.6	102	P/P	50 - 150
Bentazon	106	102	P/P	50 - 160
Benzovindiflupyr	107	110	P/P	50 - 150
Carbamazepine	103	110	P/P	60 - 150
Clothianidin	117	124	P/P	60 - 150
Dinotefuran	111	122	P/P	50 - 150
Diuron	104	113	P/P	60 - 160
Fenuron	121	122	P/P	60 - 150
Fluridone	113	120	P/P	60 - 160
Hydrocodone	113	119	P/P	60 - 150
Ibuprofen	87.5	74.3	P/P	50 - 160
Imazapyr	130	115	P/P	50 - 160
Imidacloprid	109	113	P/P	60 - 150
Linuron	112	107	P/P	60 - 150
Mandestrobin	104	109	P/P	50 - 150
MCPP	136	133	P/P	50 - 150
Naproxen	102	79.5	P/P	50 - 160
Primidone	127	115	P/P	60 - 150
Pyraclostrobin	103	115	P/P	60 - 150
Thiamethoxam	137	138	P/P	50 - 150
Tolfenpyrad	106	119	P/P	60 - 150
Triclopyr	130	133	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A101350

Included Lab Sample IDs: 2197435, 2197436, 2197437

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	98.7	93.3	P/P	60 - 160

Quality Assurance Report

Calibration Verification

* 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 8321B	2,4-D	97.8				4.75
	Acesulfame K	98.1	114	119		4.24
	Acetaminophen	70.1	77.2	72.4		6.44
	Acetamiprid	67.5	65.3	59.4		9.37
	Afidopyropen	55.4	54.6	50.4		8.08
	AMPA	82.5	114	117		1.86
	Bentazon	53.6				11.1
	Benzovindiflupyr	53.1	60.5	57.8		4.71
	Carbamazepine	56.4	49.7	46.7		6.15
	Clothianidin	69.8	61.0	61.2		0.184
	Dinotefuran	80.4	89.2	81.2		9.31
	Diuron	47.0	39.4	41.2		3.77
	Endothall	94.7	107	93.8		13.0
	Fenuron	82.8	75.4	73.8		2.08
	Fluridone	69.4				5.52
	Glufosinate	89.8	83.8	94.5		12.0
	Glyphosate	101	82.6	80.4		2.62
	Hydrocodone	59.9	70.1	66.4		5.47
	Ibuprofen	53.9	52.5	50.9		3.12
	Imazapyr	75.6				7.01
	Imidacloprid	86.5				3.58
	Linuron	59.3	50.4	54.0		6.85
	Mandestrobin	66.1	65.5	66.3		1.24
	MCPP	97.5	94.0	86.9		7.90
	Naproxen	75.2	116	109		6.51
	Primidone	67.8	75.0	71.4		4.95
	Pyraclostrobin	53.7	59.9	54.1		10.3
	Sucralose	95.8	99.1	102		2.90
	Thiamethoxam	69.2	88.4	86.8		1.64
	Tolfenpyrad	35.4	44.2	38.0		15.3
	Triclopyr	70.8	72.9	78.7		7.62

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2197435, 2197436, 2197437
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2197435, 2197436, 2197437

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	09/22/2020	09/23/2020 12:15	Hoor Shaik	09/25/2020 15:51	Juyoung Kim	2197435
	09/22/2020	09/23/2020 12:15	Hoor Shaik	09/25/2020 16:26	Juyoung Kim	2197436
	09/22/2020	09/23/2020 12:15	Hoor Shaik	09/25/2020 17:01	Juyoung Kim	2197437
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/24/2020 16:15	Rebecca Ware	2197435
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/24/2020 16:29	Rebecca Ware	2197436
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/24/2020 16:42	Rebecca Ware	2197437
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/25/2020 13:25	Rebecca Ware	2197435
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/25/2020 13:36	Rebecca Ware	2197436
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/25/2020 13:46	Rebecca Ware	2197437
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/30/2020 15:58	Rebecca Ware	2197435
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/30/2020 16:10	Rebecca Ware	2197436
	09/22/2020	09/24/2020 09:45	Rebecca Ware	09/30/2020 16:22	Rebecca Ware	2197437