

Chemical Analysis Report

SO-DIST-2020-08-27-01

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

Event Description: **Orange River, telegraph creek**
Request ID: **RQ-2020-08-24-33**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: Nicole Reistad

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 08-SEP-2020 09:51



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: Telegraph Creek Sonde @ Usgs Sonde Station Collection Date/Time: 08/26/2020 08:10

Field ID: G3SD0129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2192803	EPA 8321B	2,4-D	0.0020	U	ug/L	P386628	
		Acesulfame K**	0.10	U	ug/L	P386663	
		AMPA**	0.10	U	ug/L	P386663	
		Sucralose**	0.010	U	ug/L	P386663	
		Acetaminophen**	0.0080	U	ug/L	P386628	
		Acetamiprid**	0.0020	U	ug/L	P386628	
		Endothall**	0.25	U	ug/L	P386663	
		Glufosinate**	0.10	U	ug/L	P386663	
		Glyphosate**	0.10	U	ug/L	P386663	
		Afidopyropen**	0.0020	U	ug/L	P386628	
		Bentazon	8.0E-04	U	ug/L	P386628	
		Benzovindiflupyr**	0.0020	U	ug/L	P386628	
		Carbamazepine**	8.0E-04	U	ug/L	P386628	
		Clothianidin**	0.0020	U	ug/L	P386628	
		Dinotefuran**	0.0020	U	ug/L	P386628	
		Diuron	0.0020	U	ug/L	P386628	
		Fenuron	0.016	U	ug/L	P386628	
		Fluridone**	8.0E-04	U	ug/L	P386628	
		Imazapyr**	0.025		ug/L	P386628	
		Hydrocodone**	0.0020	U	ug/L	P386628	
		Ibuprofen**	0.020	U	ug/L	P386628	
		Imidacloprid	0.0020	U	ug/L	P386628	
		Linuron	0.0040	U	ug/L	P386628	
		Mandestrobin**	0.0020	U	ug/L	P386628	
		MCPP	0.0020	U	ug/L	P386628	
		Naproxen**	0.0080	U	ug/L	P386628	
		Primidone**	0.0040	U	ug/L	P386628	
		Pyraclostrobin**	0.0020	U	ug/L	P386628	
		Thiamethoxam**	0.0020	U	ug/L	P386628	
		Tolfenpyrad**	0.0020	U	ug/L	P386628	
		Triclopyr**	0.0040	U	ug/L	P386628	

Sample Location: Orange River at Boat Ramp

Collection Date/Time: 08/26/2020 08:45

Field ID: G3SD0128

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2192804	EPA 8321B	2,4-D	0.046		ug/L	P386628	
		Acesulfame K**	0.10	U	ug/L	P386663	
		AMPA**	0.32	I	ug/L	P386663	
		Sucralose**	0.91		ug/L	P386663	
		Acetaminophen**	0.0080	U	ug/L	P386628	
		Acetamiprid**	0.0020	U	ug/L	P386628	
		Endothall**	0.25	U	ug/L	P386663	
		Glufosinate**	0.10	U	ug/L	P386663	
		Glyphosate**	1.4		ug/L	P386663	
		Afidopyropen**	0.0020	U	ug/L	P386628	
		Bentazon	0.017		ug/L	P386628	
		Benzovindiflupyr**	0.0020	U	ug/L	P386628	
		Carbamazepine**	0.0035		ug/L	P386628	
		Clothianidin**	0.0020	U	ug/L	P386628	
		Dinotefuran**	0.0020	U	ug/L	P386628	
		Diuron	0.0020	U	ug/L	P386628	
		Fenuron	0.016	U	ug/L	P386628	
		Fluridone**	0.0082		ug/L	P386628	
		Imazapyr**	0.93		ug/L	P386628	
		Hydrocodone**	0.0020	U	ug/L	P386628	
		Ibuprofen**	0.020	U	ug/L	P386628	
		Imidacloprid	0.032		ug/L	P386628	
		Linuron	0.0040	U	ug/L	P386628	
		Mandestrobin**	0.0020	U	ug/L	P386628	
		MCPP	0.0020	U	ug/L	P386628	
		Naproxen**	0.0080	U	ug/L	P386628	
		Primidone**	0.0040	U	ug/L	P386628	
		Pyraclostrobin**	0.0020	U	ug/L	P386628	
		Thiamethoxam**	0.0021	I	ug/L	P386628	
		Tolfenpyrad**	0.0020	U	ug/L	P386628	
		Triclopyr**	0.0040	U	ug/L	P386628	

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P386628

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: P386663

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: P386628

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	120		P	30 - 160
Acetaminophen	79.4		P	30 - 160
Acetamiprid	67.8		P	30 - 160
Afidopyropen	41.3		P	30 - 160
Bentazon	81.7		P	30 - 160
Benzovindiflupyr	66.7		P	30 - 160
Carbamazepine	57.6		P	30 - 160
Clothianidin	75.5		P	30 - 160
Dinotefuran	87.3		P	30 - 160
Diuron	56.0		P	30 - 160
Fenuron	87.4		P	30 - 160
Fluridone	85.9		P	30 - 160
Hydrocodone	78.3		P	30 - 160
Ibuprofen	93.7		P	30 - 160
Imazapyr	115		P	30 - 160
Imidacloprid	88.9		P	30 - 160
Linuron	64.9		P	30 - 160
Mandestrobin	70.1		P	30 - 160
MCPP	120		P	30 - 160
Naproxen	68.7		P	30 - 160
Primidone	84.7		P	30 - 160
Pyraclostrobin	59.9		P	30 - 160
Thiamethoxam	91.2		P	30 - 160
Tolfenpyrad	44.4		P	30 - 160
Triclopyr	92.4		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P386663

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	104		P	40 - 150
AMPA	75.5		P	40 - 150
Endothall	101		P	40 - 150
Glufosinate	95.1		P	40 - 150
Glyphosate	116		P	40 - 140
Sucralose	101		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P386628

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2192762	2,4-D	109	101	P/P	30 - 160
2192762	Acetaminophen	98.0	97.9	P/P	30 - 160
2192762	Acetamiprid	75.2	76.2	P/P	30 - 160
2192762	Afidopyropen	51.8	50.0	P/P	30 - 160
2192762	Bentazon	49.0	46.4	P/P	30 - 160
2192762	Benzovindiflupyr	68.0	67.2	P/P	30 - 160
2192762	Carbamazepine	44.4	44.8	P/P	30 - 160
2192762	Clothianidin	77.0	84.7	P/P	30 - 160
2192762	Dinotefuran	103	103	P/P	30 - 160
2192762	Diuron	51.9	51.7	P/P	30 - 160
2192762	Fenuron	85.5	82.7	P/P	30 - 160
2192762	Fluridone	72.5	82.1	P/P	30 - 160
2192762	Hydrocodone	79.0	78.9	P/P	30 - 160
2192762	Ibuprofen	78.2	67.8	P/P	30 - 160
2192762	Imazapyr	72.7	74.5	P/P	30 - 160
2192762	Imidacloprid	123	134	P/P	30 - 160
2192762	Linuron	59.7	65.1	P/P	30 - 160
2192762	Mandestrobin	67.6	67.9	P/P	30 - 160
2192762	MCPP	118	109	P/P	30 - 160
2192762	Naproxen	62.5	43.6	P/P	30 - 160
2192762	Primidone	90.4	89.0	P/P	30 - 160
2192762	Pyraclostrobin	59.4	57.8	P/P	30 - 160
2192762	Thiamethoxam	108	112	P/P	30 - 160
2192762	Tolfenpyrad	50.2	47.4	P/P	30 - 160
2192762	Triclopyr	90.6	95.8	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P386663

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2192461	Acesulfame K	106	102	P/P	40 - 150
2192461	AMPA	51.1	53.9	P/P	40 - 150
2192461	Endothall	146	132	P/P	40 - 150
2192461	Glufosinate	100	93.9	P/P	40 - 150
2192461	Glyphosate	84.6	90.2	P/P	40 - 140
2192461	Sucralose	100	107	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P386628

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192762	2,4-D	7.20	Spike	P	0 - 30
2192762	Acetaminophen	0.0857	Spike	P	0 - 30
2192762	Acetamiprid	1.33	Spike	P	0 - 30
2192762	Afidopyropen	3.67	Spike	P	0 - 30
2192762	Bentazon	1.50	Spike	P	0 - 30
2192762	Benzovindiflupyr	1.18	Spike	P	0 - 30
2192762	Carbamazepine	0.601	Spike	P	0 - 30
2192762	Clothianidin	9.44	Spike	P	0 - 30
2192762	Dinotefuran	0.0268	Spike	P	0 - 30
2192762	Diuron	0.231	Spike	P	0 - 30
2192762	Fenuron	3.35	Spike	P	0 - 30
2192762	Fluridone	10.4	Spike	P	0 - 30
2192762	Hydrocodone	0.0358	Spike	P	0 - 30
2192762	Ibuprofen	14.3	Spike	P	0 - 30
2192762	Imazapyr	1.62	Spike	P	0 - 30
2192762	Imidacloprid	8.34	Spike	P	0 - 30
2192762	Linuron	8.66	Spike	P	0 - 30
2192762	Mandestrobin	0.505	Spike	P	0 - 30
2192762	MCPP	8.29	Spike	P	0 - 30
2192762	Naproxen	28.7	Spike	P	0 - 30
2192762	Primidone	1.55	Spike	P	0 - 30
2192762	Pyraclostrobin	2.58	Spike	P	0 - 30
2192762	Thiamethoxam	3.04	Spike	P	0 - 30
2192762	Tolfenpyrad	5.85	Spike	P	0 - 30
2192762	Triclopyr	5.62	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P386663

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2192461	Acesulfame K	3.94	Spike	P	0 - 30
2192461	AMPA	5.38	Spike	P	0 - 30
2192461	Endothall	10.1	Spike	P	0 - 30
2192461	Glufosinate	6.64	Spike	P	0 - 30
2192461	Glyphosate	6.48	Spike	P	0 - 30
2192461	Sucralose	6.56	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2192803
Field Sample ID: G3SD0129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.5	P	30 - 160
EPA 8321B	Diuron-d6	49.0	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.7	P	30 - 160
EPA 8321B	Ibuprofen-d3	104	P	30 - 160
EPA 8321B	Primidone-d5	73.2	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	30 - 160
EPA 8321B	Sucralose-d6	111	P	30 - 160

Lab Sample ID: 2192804
Field Sample ID: G3SD0128

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	95.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.5	P	30 - 160
EPA 8321B	Carbamazepine-d10	49.7	P	30 - 160
EPA 8321B	Diuron-d6	50.4	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Endothall-d6	109	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.8	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.8	P	30 - 160
EPA 8321B	Ibuprofen-d3	91.8	P	30 - 160
EPA 8321B	Primidone-d5	94.9	P	30 - 160
EPA 8321B	Sucralose-d6	89.4	P	30 - 160
EPA 8321B	Sucralose-d6	89.4	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100723

Included Lab Sample IDs: 2192803, 2192804

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

Reference Method: EPA 8321B

Run ID: A100738

Included Lab Sample IDs: 2192803, 2192804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	71.2	68.7	P/P	60 - 160
Endothall	102	109	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A100758

Included Lab Sample IDs: 2192803, 2192804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	124	143	P/P	50 - 150
Acetaminophen	126	123	P/P	60 - 160
Acetamiprid	128	134	P/P	50 - 150
Afidopyropen	82.2	85.8	P/P	50 - 150
Benzovindiflupyr	114	112	P/P	50 - 150
Carbamazepine	103	111	P/P	60 - 150
Clothianidin	111	106	P/P	60 - 150
Dinotefuran	110	108	P/P	50 - 150
Diuron	113	109	P/P	60 - 160
Fenuron	126	131	P/P	60 - 150
Hydrocodone	123	114	P/P	60 - 150
Ibuprofen	124	125	P/P	50 - 160
Imidacloprid	116	101	P/P	60 - 150
Linuron	111	127	P/P	60 - 150
Mandestrobin	121	124	P/P	50 - 150
MCPP	126	129	P/P	50 - 150
Naproxen	106	109	P/P	50 - 160
Primidone	113	118	P/P	60 - 150
Pyraclostrobin	118	119	P/P	60 - 150
Thiamethoxam	134	123	P/P	50 - 150
Tolfenpyrad	116	114	P/P	60 - 150
Triclopyr	122	107	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A100779

Included Lab Sample IDs: 2192803, 2192804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	82.6	81.6	P/P	60 - 160
Glufosinate	96.4	93.7	P/P	60 - 160
Glyphosate	108	107	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A100781

Included Lab Sample IDs: 2192803, 2192804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bentazon	154	151	P/P	50 - 160
Fluridone	118	111	P/P	60 - 160
Imazapyr	150	145	P/P	50 - 160
Imazapyr	155	98.3	P/P	50 - 160

* 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	120	109	101		7.20
	Acesulfame K	104	106	102		3.94
	Acetaminophen	79.4	98.0	97.9		0.0857
	Acetamiprid	67.8	75.2	76.2		1.33
	Afidopyropen	41.3	51.8	50.0		3.67
	AMPA	75.5	51.1	53.9		5.38
	Bentazon	81.7	49.0	46.4		1.50
	Benzovindiflupyr	66.7	68.0	67.2		1.18
	Carbamazepine	57.6	44.4	44.8		0.601
	Clothianidin	75.5	77.0	84.7		9.44
	Dinotefuran	87.3	103	103		0.0268
	Diuron	56.0	51.9	51.7		0.231
	Endothall	101	146	132		10.1
	Fenuron	87.4	85.5	82.7		3.35
	Fluridone	85.9	72.5	82.1		10.4
	Glufosinate	95.1	100	93.9		6.64
	Glyphosate	116	84.6	90.2		6.48
	Hydrocodone	78.3	79.0	78.9		0.0358
	Ibuprofen	93.7	78.2	67.8		14.3
	Imazapyr	115	72.7	74.5		1.62
	Imidacloprid	88.9	123	134		8.34
	Linuron	64.9	59.7	65.1		8.66
	Mandestrobin	70.1	67.6	67.9		0.505
	MCPP	120	118	109		8.29
	Naproxen	68.7	62.5	43.6		28.7
	Primidone	84.7	90.4	89.0		1.55
	Pyraclostrobin	59.9	59.4	57.8		2.58
	Sucralose	101	100	107		6.56
	Thiamethoxam	91.2	108	112		3.04
	Tolfenpyrad	44.4	50.2	47.4		5.85
	Triclopyr	92.4	90.6	95.8		5.62

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2192803, 2192804
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2192803, 2192804

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	08/27/2020	08/28/2020 11:00	Rebecca Ware	08/28/2020 14:19	Rebecca Ware	2192803
	08/27/2020	08/28/2020 11:00	Rebecca Ware	08/28/2020 14:31	Rebecca Ware	2192804
	08/27/2020	08/28/2020 11:00	Rebecca Ware	08/31/2020 17:27	Rebecca Ware	2192803
	08/27/2020	08/28/2020 11:00	Rebecca Ware	08/31/2020 17:40	Rebecca Ware	2192804
	08/27/2020	08/28/2020 11:00	Rebecca Ware	09/01/2020 15:06	Rebecca Ware	2192803
	08/27/2020	08/28/2020 11:00	Rebecca Ware	09/01/2020 15:17	Rebecca Ware	2192804
	08/27/2020	08/28/2020 13:20	Hoor Shaik	08/30/2020 06:48	Juyoung Kim	2192803
	08/27/2020	08/28/2020 13:20	Hoor Shaik	08/30/2020 07:22	Juyoung Kim	2192804
	08/27/2020	08/28/2020 13:20	Hoor Shaik	09/02/2020 03:07	Juyoung Kim	2192803
	08/27/2020	08/28/2020 13:20	Hoor Shaik	09/02/2020 03:41	Juyoung Kim	2192804
	08/27/2020	08/28/2020 13:20	Hoor Shaik	09/02/2020 13:31	Juyoung Kim	2192804