

Chemical Analysis Report

NE-DIST-2022-02-11-01

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

Event Description: **LSJR North 2022**
Request ID: **RQ-2022-02-07-24**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Colin Wright, Program Administrator

Date Certified: 01-MAR-2022 08:47

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

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: Ribault River at US-1

Collection Date/Time: 02/10/2022 10:25

Field ID: 20030133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305362	EPA 8321B	2,4-D	0.016		ug/L	P409839	
		Acesulfame K	0.16	I	ug/L	P409687	
		2,4,5-T	0.0040	U	ug/L	P409839	
		AMPA	0.31	I	ug/L	P409687	
		Acetaminophen	0.0091	I	ug/L	P409839	
		Acetamiprid	0.0020	U	ug/L	P409839	
		Endothall	0.25	U	ug/L	P409687	
		Glufosinate	0.10	U	ug/L	P409687	
		Glyphosate	0.78		ug/L	P409687	
		Afidopyropen	0.0020	U	ug/L	P409839	
		Bentazon	0.0071		ug/L	P409839	
		Sucralose	0.21		ug/L	P409687	
		Benzovindiflupyr	0.0020	U	ug/L	P409839	
		Carbamazepine	8.0E-04	U	ug/L	P409839	
		Clothianidin	0.0020	U	ug/L	P409839	
		Dinotefuran	0.0020	U	ug/L	P409839	
		Diuron	0.064		ug/L	P409839	
		Fenuron	0.016	U	ug/L	P409839	
		Fluridone	0.0044		ug/L	P409839	
		Imazapyr	0.17		ug/L	P409839	
		Hydrocodone	0.0020	U	ug/L	P409839	
		Ibuprofen	0.020	U	ug/L	P409839	
		Imidacloprid	0.0095		ug/L	P409839	
		Linuron	0.0040	U	ug/L	P409839	
		Mandestrobin	0.0020	U	ug/L	P409839	
		MCPP	0.0040	U	ug/L	P409839	
		Naproxen	0.0080	U	ug/L	P409839	
		Primidone	0.0040	U	ug/L	P409839	
		Pyraclostrobin	0.0020	U	ug/L	P409839	
		Silvex	0.0040	U	ug/L	P409839	
		Thiamethoxam	0.0020	U	ug/L	P409839	
		Tolfenpyrad	0.0020	U	ug/L	P409839	
		Triclopyr	0.0040	U	ug/L	P409839	
2305364	EPA 200.7 Rev. 4.4	Calcium	35.8		mg/L	P409769	
		Iron	610		ug/L	P409769	
		Magnesium	5.53		mg/L	P409769	
		Strontium	245		ug/L	P409769	
		Tin	3.0	U	ug/L	P409769	
		Vanadium	2.1	I	ug/L	P409769	
		Zinc	11	I	ug/L	P409769	
	EPA 200.8 Rev. 5.4	Aluminum	203		ug/L	P409769	
		Antimony	0.24		ug/L	P409769	
		Arsenic	0.57		ug/L	P409769	
		Beryllium	0.014	I	ug/L	P409769	

Field ID: 20030133

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305364	EPA 200.8 Rev. 5.4	Cadmium	0.020	U	ug/L	P409769	MS
		Chromium	0.53	I	ug/L	P409769	
		Cobalt	0.103		ug/L	P409769	
		Copper	1.73		ug/L	P409769	
		Lead	0.60		ug/L	P409769	
		Manganese	15.4		ug/L	P409769	
		Molybdenum	0.82		ug/L	P409769	
		Nickel	0.74	I	ug/L	P409769	
		Selenium	0.20	U	ug/L	P409769	
		Silver	0.010	U	ug/L	P409769	

Sample Location: Ribault R Moncrief Rd BR

Collection Date/Time: 02/10/2022 10:45

Field ID: 20030129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305363	EPA 8321B	2,4-D	0.028		ug/L	P409839	
		Acesulfame K	0.22	I	ug/L	P409687	
		2,4,5-T	0.0040	U	ug/L	P409839	
		AMPA	0.35	I	ug/L	P409687	
		Acetaminophen	0.024	I	ug/L	P409839	
		Acetamiprid	0.0020	U	ug/L	P409839	
		Endothall	0.25	U	ug/L	P409687	
		Glufosinate	0.10	U	ug/L	P409687	
		Glyphosate	1.2		ug/L	P409687	
		Afidopyropen	0.0020	U	ug/L	P409839	
		Bentazon	0.0043		ug/L	P409839	
		Sucralose	0.26		ug/L	P409687	
		Benzovindiflupyr	0.0020	U	ug/L	P409839	
		Carbamazepine	8.0E-04	U	ug/L	P409839	
		Clothianidin	0.0020	U	ug/L	P409839	
		Dinotefuran	0.0020	U	ug/L	P409839	
		Diuron	0.19		ug/L	P409839	
		Fenuron	0.016	U	ug/L	P409839	
		Fluridone	0.0037		ug/L	P409839	
		Imazapyr	0.27		ug/L	P409839	
		Hydrocodone	0.0020	U	ug/L	P409839	
		Ibuprofen	0.020	U	ug/L	P409839	
		Imidacloprid	0.017		ug/L	P409839	
		Linuron	0.0040	U	ug/L	P409839	
		Mandestrobin	0.0020	U	ug/L	P409839	
		MCPP	0.0040	U	ug/L	P409839	
		Naproxen	0.0080	U	ug/L	P409839	
		Primidone	0.0040	U	ug/L	P409839	
		Pyraclostrobin	0.0020	U	ug/L	P409839	
		Silvex	0.0040	U	ug/L	P409839	
		Thiamethoxam	0.0020	U	ug/L	P409839	
		Tolfenpyrad	0.0020	U	ug/L	P409839	
		Triclopyr	0.0040	U	ug/L	P409839	
2305365	EPA 200.7 Rev. 4.4	Calcium	37.7		mg/L	P409769	
		Iron	710		ug/L	P409769	
		Magnesium	8.30		mg/L	P409769	
		Strontium	286		ug/L	P409769	
		Tin	3.0	U	ug/L	P409769	
		Vanadium	2.2	I	ug/L	P409769	
		Zinc	14	I	ug/L	P409769	
	EPA 200.8 Rev. 5.4	Aluminum	232		ug/L	P409769	
		Antimony	0.29		ug/L	P409769	
		Arsenic	0.65		ug/L	P409769	
		Beryllium	0.017	I	ug/L	P409769	

Field ID: 20030129

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305365	EPA 200.8 Rev. 5.4	Cadmium	0.020	U	ug/L	P409769	MS
		Chromium	0.65	I	ug/L	P409769	
		Cobalt	0.116		ug/L	P409769	
		Copper	2.48		ug/L	P409769	
		Lead	1.02		ug/L	P409769	
		Manganese	19.2		ug/L	P409769	
		Molybdenum	1.12		ug/L	P409769	
		Nickel	0.86	I	ug/L	P409769	
		Selenium	0.20	U	ug/L	P409769	
		Silver	0.010	U	ug/L	P409769	

Sample Location: Cedar R @ San Juan Ave

Collection Date/Time: 02/10/2022 12:15

Field ID: 20030876

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305366	EPA 200.7 Rev. 4.4	Calcium	66.4		mg/L	P409946	
		Iron	290		ug/L	P409946	
		Magnesium	98.3		mg/L	P409946	
		Strontium	893		ug/L	P409946	
		Tin	30	U	ug/L	P409946	
		Vanadium	2.0	U	ug/L	P409946	
	EPA 200.8 Rev. 5.4	Zinc	11	I	ug/L	P409946	
		Aluminum	152		ug/L	P409946	
		Antimony	0.21		ug/L	P409946	
		Arsenic	1.36		ug/L	P409946	
		Beryllium	0.018	I	ug/L	P409946	
		Cadmium	0.020	U	ug/L	P409946	
		Chromium	0.55	I	ug/L	P409946	
		Cobalt	0.134		ug/L	P409946	
		Copper	2.16		ug/L	P409946	
		Lead	1.16		ug/L	P409946	
		Manganese	24.7		ug/L	P409946	
		Molybdenum	1.92		ug/L	P409946	
		Nickel	0.73	I	ug/L	P409946	
		Selenium	0.20	U	ug/L	P409946	MS
		Silver	0.010	U	ug/L	P409946	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for strontium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Cedar CR Blanding Blvd BR RT 21

Collection Date/Time: 02/10/2022 11:55

Field ID: 20030083

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2305367	EPA 200.7 Rev. 4.4	Calcium	53.1		mg/L	P409946	
		Iron	380		ug/L	P409946	
		Magnesium	54.3		mg/L	P409946	
		Strontium	570		ug/L	P409946	
		Tin	3.0	U	ug/L	P409946	
		Vanadium	2.0	U	ug/L	P409946	
	EPA 200.8 Rev. 5.4	Zinc	9.6	I	ug/L	P409946	
		Aluminum	118		ug/L	P409946	
		Antimony	0.24		ug/L	P409946	
		Arsenic	1.03		ug/L	P409946	
		Beryllium	0.013	I	ug/L	P409946	
		Cadmium	0.020	U	ug/L	P409946	
		Chromium	0.48	I	ug/L	P409946	
		Cobalt	0.123		ug/L	P409946	
		Copper	1.93		ug/L	P409946	
		Lead	0.81		ug/L	P409946	
		Manganese	24.5		ug/L	P409946	
		Molybdenum	1.49		ug/L	P409946	
		Nickel	0.74	I	ug/L	P409946	
		Selenium	0.20	U	ug/L	P409946	MS
		Silver	0.010	U	ug/L	P409946	

Ref. Method and Comment:

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for strontium are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409946

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409946

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Beryllium	0.010	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409946

Component	Result	Code	Units
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P409687

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: P409839

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	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	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	106		P	85 - 115
Iron	107		P	85 - 115
Magnesium	106		P	85 - 115
Strontium	105		P	85 - 115
Tin	109		P	85 - 115
Vanadium	99.4		P	85 - 115
Zinc	105		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	102		P	85 - 115
Strontium	101		P	85 - 115
Tin	103		P	85 - 115
Vanadium	96.7		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	98.9		P	85 - 115
Arsenic	102		P	85 - 115
Beryllium	98.8		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	96.5		P	85 - 115
Cobalt	102		P	85 - 115
Copper	98.4		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	98.3		P	85 - 115
Molybdenum	101		P	85 - 115
Nickel	104		P	85 - 115
Selenium	101		P	85 - 115
Silver	99.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	100		P	85 - 115
Arsenic	100		P	85 - 115
Beryllium	99.0		P	85 - 115
Cadmium	98.0		P	85 - 115
Chromium	99.2		P	85 - 115
Cobalt	99.8		P	85 - 115
Copper	98.8		P	85 - 115
Lead	95.8		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Manganese	99.5		P	85 - 115
Molybdenum	99.0		P	85 - 115
Nickel	100		P	85 - 115
Selenium	99.3		P	85 - 115
Silver	102		P	85 - 115

Reference Method: EPA 8321B

Batch ID: P409687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	95.6		P	40 - 150
Endothall	68.0		P	40 - 150
Glufosinate	108		P	40 - 150
Glyphosate	101		P	40 - 150
Sucralose	93.5		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P409839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	115		P	40 - 150
2,4,5-T	69.2		P	40 - 150
Acetaminophen	88.3		P	30 - 150
Acetamiprid	109		P	40 - 150
Afidopyropen	91.0		P	40 - 150
Bentazon	85.0		P	30 - 150
Benzovindiflupyr	66.3		P	40 - 150
Carbamazepine	107		P	40 - 150
Clothianidin	92.1		P	40 - 150
Dinotefuran	106		P	40 - 150
Diuron	73.5		P	40 - 150
Fenuron	102		P	40 - 150
Fluridone	99.3		P	40 - 150
Hydrocodone	109		P	40 - 150
Ibuprofen	76.7		P	40 - 150
Imazapyr	106		P	40 - 150
Imidacloprid	107		P	40 - 150
Linuron	81.5		P	40 - 150
Mandestrobin	99.2		P	40 - 150
MCPP	98.7		P	40 - 150
Naproxen	66.5		P	40 - 150
Primidone	84.7		P	40 - 150
Pyraclostrobin	72.0		P	40 - 150
Silvex	64.0		P	40 - 150
Thiamethoxam	115		P	40 - 150
Tolfenpyrad	36.2		P	30 - 150
Triclopyr	72.7		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304833	Calcium	110		P	80 - 120
2304833	Iron	111	107	P/P	80 - 120
2304833	Magnesium	108		P	80 - 120
2304833	Strontium	107	101	P/P	80 - 120
2304833	Tin	110	105	P/P	80 - 120
2304833	Vanadium	103	98.0	P/P	80 - 120
2304833	Zinc	106	100	P/P	80 - 120
2305312	Calcium	109		P	80 - 120
2305312	Iron	109		P	80 - 120
2305312	Magnesium	109		P	80 - 120
2305312	Strontium	105		P	80 - 120
2305312	Tin	108		P	80 - 120
2305312	Vanadium	99.5		P	80 - 120
2305312	Zinc	104		P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P409946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305378	Calcium	103		P	80 - 120
2305378	Iron	103	103	P/P	80 - 120
2305378	Magnesium	101		P	80 - 120
2305378	Tin	101	99.7	P/P	80 - 120
2305378	Vanadium	98.0	97.2	P/P	80 - 120
2305378	Zinc	98.4	97.3	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2304833	Aluminum	102	102	P/P	80 - 120
2304833	Antimony	103	102	P/P	80 - 120
2304833	Arsenic	103	103	P/P	80 - 120
2304833	Beryllium	95.6	97.6	P/P	80 - 120
2304833	Cadmium	102	104	P/P	80 - 120
2304833	Chromium	100	101	P/P	80 - 120
2304833	Cobalt	103	102	P/P	80 - 120
2304833	Copper	98.7	99.3	P/P	80 - 120
2304833	Lead	99.7	101	P/P	80 - 120
2304833	Manganese	101	102	P/P	80 - 120
2304833	Molybdenum	105	105	P/P	80 - 120
2304833	Nickel	102	101	P/P	80 - 120
2304833	Selenium	79.5	79.2	F/F	80 - 120
2304833	Silver	102	102	P/P	80 - 120
2305312	Aluminum	102		P	80 - 120
2305312	Antimony	99.9		P	80 - 120
2305312	Arsenic	99.7		P	80 - 120
2305312	Beryllium	93.3		P	80 - 120
2305312	Cadmium	102		P	80 - 120
2305312	Chromium	99.0		P	80 - 120
2305312	Cobalt	99.9		P	80 - 120
2305312	Copper	97.8		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409769

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305312	Lead	100		P	80 - 120
2305312	Manganese	97.7		P	80 - 120
2305312	Molybdenum	101		P	80 - 120
2305312	Nickel	98.4		P	80 - 120
2305312	Selenium	99.7		P	80 - 120
2305312	Silver	98.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409946

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305378	Aluminum	101	101	P/P	80 - 120
2305378	Antimony	106	106	P/P	80 - 120
2305378	Arsenic	109	109	P/P	80 - 120
2305378	Beryllium	93.0	92.8	P/P	80 - 120
2305378	Cadmium	103	102	P/P	80 - 120
2305378	Chromium	95.2	95.3	P/P	80 - 120
2305378	Cobalt	108	108	P/P	80 - 120
2305378	Copper	102	102	P/P	80 - 120
2305378	Lead	100	100	P/P	80 - 120
2305378	Manganese	103	103	P/P	80 - 120
2305378	Molybdenum	108	107	P/P	80 - 120
2305378	Nickel	104	104	P/P	80 - 120
2305378	Selenium	59.1	64.0	F/F	80 - 120
2305378	Silver	100	99.6	P/P	80 - 120

Reference Method: EPA 8321B

Batch ID: P409687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305124	Acesulfame K	102	94.3	P/P	40 - 150
2305124	AMPA	98.8	97.3	P/P	40 - 150
2305124	Endothall	76.4	82.9	P/P	40 - 150
2305124	Glufosinate	107	105	P/P	40 - 150
2305124	Glyphosate	93.0	90.3	P/P	40 - 150
2305124	Sucralose	80.0	83.2	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P409839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305308	2,4-D	94.5	81.9	P/P	40 - 150
2305308	2,4,5-T	60.7	77.5	P/P	40 - 150
2305308	Acetaminophen	83.5	93.5	P/P	30 - 150
2305308	Acetamiprid	76.7	91.7	P/P	40 - 150
2305308	Afidopyrophen	59.3	57.9	P/P	40 - 150
2305308	Bentazon	76.2	62.5	P/P	30 - 150
2305308	Benzovindiflupyr	92.9	97.4	P/P	40 - 150
2305308	Carbamazepine	96.7	88.7	P/P	40 - 150
2305308	Clothianidin	92.0	76.2	P/P	40 - 150
2305308	Dinotefuran	115	120	P/P	40 - 150
2305308	Diuron	64.9	81.8	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P409839

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2305308	Fenuron	93.6	99.7	P/P	40 - 150
2305308	Fluridone	96.3	96.5	P/P	40 - 150
2305308	Hydrocodone	103	99.8	P/P	40 - 150
2305308	Ibuprofen	65.1	57.6	P/P	40 - 150
2305308	Imazapyr	99.9	99.8	P/P	40 - 150
2305308	Imidacloprid	140	106	P/P	40 - 150
2305308	Linuron	103	79.4	P/P	40 - 150
2305308	Mandestrobin	91.9	92.1	P/P	40 - 150
2305308	MCPP	85.6	105	P/P	40 - 150
2305308	Naproxen	59.3	55.0	P/P	40 - 150
2305308	Primidone	86.5	111	P/P	40 - 150
2305308	Pyraclostrobin	92.2	86.3	P/P	40 - 150
2305308	Silvex	55.1	62.6	P/P	40 - 150
2305308	Thiamethoxam	122	116	P/P	40 - 150
2305308	Tolfenpyrad	41.5	49.0	P/P	30 - 150
2305308	Triclopyr	70.0	70.7	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304833	Calcium	4.87	Spike	P	0 - 20
2304833	Iron	4.13	Spike	P	0 - 20
2304833	Magnesium	4.40	Spike	P	0 - 20
2304833	Strontium	4.68	Spike	P	0 - 20
2304833	Tin	4.72	Spike	P	0 - 20
2304833	Vanadium	5.25	Spike	P	0 - 20
2304833	Zinc	5.10	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P409946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305378	Calcium	2.29	Spike	P	0 - 20
2305378	Iron	0.877	Spike	P	0 - 20
2305378	Magnesium	2.97	Spike	P	0 - 20
2305378	Strontium	0.772	Spike	P	0 - 20
2305378	Tin	1.14	Spike	P	0 - 20
2305378	Vanadium	0.854	Spike	P	0 - 20
2305378	Zinc	1.06	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409769

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2304833	Aluminum	0.613	Spike	P	0 - 20
2304833	Antimony	1.04	Spike	P	0 - 20
2304833	Arsenic	0.462	Spike	P	0 - 20
2304833	Beryllium	2.05	Spike	P	0 - 20
2304833	Cadmium	2.02	Spike	P	0 - 20
2304833	Chromium	0.394	Spike	P	0 - 20
2304833	Cobalt	0.196	Spike	P	0 - 20
2304833	Copper	0.663	Spike	P	0 - 20
2304833	Lead	1.68	Spike	P	0 - 20
2304833	Manganese	0.733	Spike	P	0 - 20
2304833	Molybdenum	0.118	Spike	P	0 - 20
2304833	Nickel	0.784	Spike	P	0 - 20
2304833	Selenium	0.347	Spike	P	0 - 20
2304833	Silver	0.265	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P409946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305378	Aluminum	0.440	Spike	P	0 - 20
2305378	Antimony	0.121	Spike	P	0 - 20
2305378	Arsenic	0.0253	Spike	P	0 - 20
2305378	Beryllium	0.162	Spike	P	0 - 20
2305378	Cadmium	1.18	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P409946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305378	Chromium	0.0531	Spike	P	0 - 20
2305378	Cobalt	0.530	Spike	P	0 - 20
2305378	Copper	0.561	Spike	P	0 - 20
2305378	Lead	0.132	Spike	P	0 - 20
2305378	Manganese	0.374	Spike	P	0 - 20
2305378	Molybdenum	0.644	Spike	P	0 - 20
2305378	Nickel	0.0643	Spike	P	0 - 20
2305378	Selenium	7.99	Spike	P	0 - 20
2305378	Silver	0.591	Spike	P	0 - 20

Reference Method: EPA 8321B

Batch ID: P409687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305124	Acesulfame K	7.82	Spike	P	0 - 30
2305124	AMPA	1.46	Spike	P	0 - 30
2305124	Endothall	8.18	Spike	P	0 - 30
2305124	Glufosinate	1.83	Spike	P	0 - 30
2305124	Glyphosate	2.99	Spike	P	0 - 30
2305124	Sucralose	3.66	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P409839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305308	2,4-D	14.2	Spike	P	0 - 30
2305308	2,4,5-T	24.4	Spike	P	0 - 30
2305308	Acetaminophen	11.3	Spike	P	0 - 30
2305308	Acetamiprid	17.9	Spike	P	0 - 30
2305308	Afidopyropen	2.32	Spike	P	0 - 30
2305308	Bentazon	13.7	Spike	P	0 - 30
2305308	Benzovindiflupyr	4.76	Spike	P	0 - 30
2305308	Carbamazepine	8.71	Spike	P	0 - 30
2305308	Clothianidin	18.1	Spike	P	0 - 30
2305308	Dinotefuran	3.84	Spike	P	0 - 30
2305308	Diuron	23.1	Spike	P	0 - 30
2305308	Fenuron	6.38	Spike	P	0 - 30
2305308	Fluridone	0.199	Spike	P	0 - 30
2305308	Hydrocodone	2.80	Spike	P	0 - 30
2305308	Ibuprofen	12.2	Spike	P	0 - 30
2305308	Imazapyr	0.0729	Spike	P	0 - 30
2305308	Imidacloprid	26.9	Spike	P	0 - 30
2305308	Linuron	26.3	Spike	P	0 - 30
2305308	Mandestrobin	0.196	Spike	P	0 - 30
2305308	MCPP	20.0	Spike	P	0 - 30
2305308	Naproxen	7.57	Spike	P	0 - 30
2305308	Primidone	25.1	Spike	P	0 - 30
2305308	Pyraclostrobin	6.59	Spike	P	0 - 30
2305308	Silvex	12.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P409839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2305308	Thiamethoxam	5.32	Spike	P	0 - 30
2305308	Tolfenpyrad	16.6	Spike	P	0 - 30
2305308	Triclopyr	0.904	Spike	P	0 - 30

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

Quality Assurance Report Surrogates

Lab Sample ID: 2305362
Field Sample ID: 20030133

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	90.4	P	30 - 160
EPA 8321B	Acetaminophen-d4	89.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	99.9	P	30 - 160
EPA 8321B	Diuron-d6	65.2	P	30 - 160
EPA 8321B	Endothall-d6	82.4	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	93.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	57.2	P	30 - 160
EPA 8321B	Primidone-d5	134	P	30 - 160
EPA 8321B	Sucralose-d6	73.9	P	30 - 160

Lab Sample ID: 2305363
Field Sample ID: 20030129

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	86.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	90.5	P	30 - 160
EPA 8321B	Diuron-d6	90.2	P	30 - 160
EPA 8321B	Endothall-d6	81.3	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	84.5	P	30 - 160
EPA 8321B	Ibuprofen-d3	59.2	P	30 - 160
EPA 8321B	Primidone-d5	87.3	P	30 - 160
EPA 8321B	Sucralose-d6	87.3	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110387

Included Lab Sample IDs: 2305362, 2305363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	98.1	97.2	P/P	60 - 160
Glufosinate	103	105	P/P	60 - 160
Glyphosate	98.1	95.7	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A110393

Included Lab Sample IDs: 2305362, 2305363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	85.2	90.0	P/P	60 - 160
Endothall	66.8	62.5	P/P	60 - 160
Sucralose	84.9	72.8	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110425

Included Lab Sample IDs: 2305364, 2305365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	102	103	P/P	90 - 110
Antimony	96.6	95.9	P/P	90 - 110
Arsenic	99.0	100	P/P	90 - 110
Beryllium	96.1	96.2	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Chromium	98.2	98.9	P/P	90 - 110
Cobalt	99.4	101	P/P	90 - 110
Copper	98.4	99.1	P/P	90 - 110
Lead	98.6	98.5	P/P	90 - 110
Manganese	98.3	99.0	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110
Nickel	100	100	P/P	90 - 110
Selenium	99.6	100	P/P	90 - 110
Silver	92.4	93.2	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110503

Included Lab Sample IDs: 2305366, 2305367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	105	P/P	90 - 110
Antimony	96.9	97.7	P/P	90 - 110
Arsenic	99.9	102	P/P	90 - 110
Beryllium	97.9	98.8	P/P	90 - 110
Cadmium	99.6	100	P/P	90 - 110
Chromium	99.9	99.3	P/P	90 - 110
Cobalt	99.3	103	P/P	90 - 110
Copper	100	105	P/P	90 - 110
Lead	95.8	95.9	P/P	90 - 110
Manganese	99.7	102	P/P	90 - 110
Molybdenum	100	101	P/P	90 - 110
Nickel	101	105	P/P	90 - 110
Selenium	99.0	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110503

Included Lab Sample IDs: 2305366, 2305367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	93.0	93.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A110526

Included Lab Sample IDs: 2305367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.8	100	P/P	90 - 110
Beryllium	99.0	95.2	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110559

Included Lab Sample IDs: 2305364, 2305365

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	103	P/P	90 - 110
Iron	101	103	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Strontium	103	102	P/P	90 - 110
Tin	105	104	P/P	90 - 110
Vanadium	104	103	P/P	90 - 110
Zinc	104	102	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A110578

Included Lab Sample IDs: 2305366, 2305367

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	98.0	P/P	95 - 105
Iron	103	99.4	P/P	95 - 105
Magnesium	102	98.6	P/P	95 - 105
Strontium	100	99.6	P/P	95 - 105
Tin	101	102	P/P	95 - 105
Vanadium	101	102	P/P	95 - 105
Zinc	100	102	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A110620

Included Lab Sample IDs: 2305362, 2305363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.0	103	P/P	50 - 150
2,4,5-T	86.1	86.7	P/P	50 - 150
Acetaminophen	111	109	P/P	60 - 160
Acetamiprid	106	121	P/P	50 - 150
Afidopyropen	88.4	123	P/P	50 - 150
Bentazon	111	120	P/P	50 - 160
Benzovindiflupyr	97.7	84.7	P/P	50 - 150
Carbamazepine	100	104	P/P	60 - 150
Clothianidin	97.4	99.7	P/P	60 - 150
Dinotefuran	101	104	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A110620

Included Lab Sample IDs: 2305362, 2305363

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	114	113	P/P	60 - 160
Fenuron	99.5	106	P/P	60 - 150
Fluridone	116	104	P/P	60 - 160
Hydrocodone	112	101	P/P	60 - 150
Ibuprofen	114	62.7	P/P	50 - 160
Imazapyr	93.5	91.2	P/P	50 - 150
Imidacloprid	99.1	103	P/P	60 - 150
Linuron	92.0	99.0	P/P	60 - 150
Mandestrobin	96.8	99.4	P/P	50 - 150
MCPP	95.4	96.3	P/P	50 - 150
Naproxen	89.5	91.0	P/P	50 - 160
Primidone	94.1	68.5	P/P	60 - 150
Pyraclostrobin	94.5	101	P/P	60 - 150
Silvex	102	87.7	P/P	50 - 150
Thiamethoxam	108	99.3	P/P	50 - 150
Tolfenpyrad	114	105	P/P	60 - 150
Triclopyr	96.2	93.3	P/P	50 - 150

* 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			LCS	Precision SMP	MS
EPA 200.7 Rev. 4.4	Calcium	106	110	109				4.87
	Calcium	103	103					2.29
	Iron	107	111	107	109			4.13
	Iron	105	103	103				0.877
	Magnesium	106	108	109				4.40
	Magnesium	102	101					2.97
	Strontium	105	107	101	105			4.68
	Strontium	101						0.772
	Tin	109	110	105	108			4.72
	Tin	103	101	99.7				1.14
	Vanadium	99.4	103	98.0	99.5			5.25
	Vanadium	96.7	98.0	97.2				0.854
	Zinc	105	106	100	104			5.10
	Zinc	101	98.4	97.3				1.06
EPA 200.8 Rev. 5.4	Aluminum	101	102	102	102			0.613
	Aluminum	102	101	101				0.440
	Antimony	98.9	103	102	99.9			1.04
	Antimony	100	106	106				0.121
	Arsenic	102	103	103	99.7			0.462
	Arsenic	100	109	109				0.0253
	Beryllium	98.8	95.6	97.6	93.3			2.05
	Beryllium	99.0	93.0	92.8				0.162
	Cadmium	100	102	104	102			2.02
	Cadmium	98.0	103	102				1.18
	Chromium	96.5	100	101	99.0			0.394
	Chromium	99.2	95.2	95.3				0.0531
	Cobalt	102	103	102	99.9			0.196
	Cobalt	99.8	108	108				0.530
	Copper	98.4	98.7	99.3	97.8			0.663
	Copper	98.8	102	102				0.561
	Lead	99.1	99.7	101	100			1.68
	Lead	95.8	100	100				0.132
	Manganese	98.3	101	102	97.7			0.733
	Manganese	99.5	103	103				0.374
	Molybdenum	101	105	105	101			0.118
	Molybdenum	99.0	108	107				0.644
	Nickel	104	102	101	98.4			0.784
	Nickel	100	104	104				0.0643
	Selenium	101	79.5	79.2	99.7			0.347
	Selenium	99.3	59.1	64.0				7.99
	Silver	99.9	102	102	98.6			0.265
	Silver	102	100	99.6				0.591
EPA 8321B	2,4-D	115	94.5	81.9				14.2
	2,4,5-T	69.2	60.7	77.5				24.4
	Acesulfame K	102	102	94.3				7.82
	Acetaminophen	88.3	83.5	93.5				11.3
	Acetamiprid	109	76.7	91.7				17.9
	Afidopyropen	91.0	59.3	57.9				2.32
	AMPA	95.6	98.8	97.3				1.46
	Bentazon	85.0	76.2	62.5				13.7
	Benzovindiflupyr	66.3	92.9	97.4				4.76
	Carbamazepine	107	96.7	88.7				8.71
	Clothianidin	92.1	92.0	76.2				18.1
	Dinotefuran	106	115	120				3.84

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Diuron	73.5	64.9	81.8			23.1
	Endothall	68.0	76.4	82.9			8.18
	Fenuron	102	93.6	99.7			6.38
	Fluridone	99.3	96.3	96.5			0.199
	Glufosinate	108	107	105			1.83
	Glyphosate	101	93.0	90.3			2.99
	Hydrocodone	109	103	99.8			2.80
	Ibuprofen	76.7	65.1	57.6			12.2
	Imazapyr	106	99.9	99.8			0.0729
	Imidacloprid	107	140	106			26.9
	Linuron	81.5	103	79.4			26.3
	Mandestrobin	99.2	91.9	92.1			0.196
	MCPP	98.7	85.6	105			20.0
	Naproxen	66.5	59.3	55.0			7.57
	Primidone	84.7	86.5	111			25.1
	Pyraclostrobin	72.0	92.2	86.3			6.59
	Silvex	64.0	55.1	62.6			12.7
	Sucralose	93.5	80.0	83.2			3.66
	Thiamethoxam	115	122	116			5.32
	Tolfenpyrad	36.2	41.5	49.0			16.6
	Triclopyr	72.7	70.0	70.7			0.904

Reference Method Descriptions

Method	Description	Associated Samples
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2305364, 2305365, 2305366, 2305367
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2305364, 2305365, 2305366, 2305367
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2305362, 2305363

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	02/11/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 17:28	Josef B Mick	2305364
	02/11/2022	02/14/2022 10:40	Megan Whitefoot	02/22/2022 17:35	Josef B Mick	2305365
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/23/2022 13:09	Josef B Mick	2305366
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/23/2022 13:17	Josef B Mick	2305366
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/23/2022 13:25	Josef B Mick	2305367
EPA 200.8 Rev. 5.4	02/11/2022	02/14/2022 10:40	Megan Whitefoot	02/15/2022 19:11	Alexander Thompson	2305364
	02/11/2022	02/14/2022 10:40	Megan Whitefoot	02/15/2022 19:21	Alexander Thompson	2305365
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/18/2022 15:33	Alexander Thompson	2305366
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/18/2022 15:43	Alexander Thompson	2305367
	02/11/2022	02/17/2022 10:12	Megan Whitefoot	02/21/2022 11:49	McKinley C Carter	2305367
EPA 8321B	02/11/2022	02/11/2022 14:00	Umesh Chiluwal	02/11/2022 18:01	Umesh Chiluwal	2305362
	02/11/2022	02/11/2022 14:00	Umesh Chiluwal	02/11/2022 18:12	Umesh Chiluwal	2305363
	02/11/2022	02/11/2022 14:00	Umesh Chiluwal	02/11/2022 23:57	Umesh Chiluwal	2305362
	02/11/2022	02/11/2022 14:00	Umesh Chiluwal	02/12/2022 00:12	Umesh Chiluwal	2305363
	02/11/2022	02/16/2022 09:00	June Rhew	02/17/2022 19:18	Juyoung Kim	2305362
	02/11/2022	02/16/2022 09:00	June Rhew	02/17/2022 19:53	Juyoung Kim	2305363