

Chemical Analysis Report

SE-DIST-2018-09-06-01

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

Event Description: **SMP- South Lakes**
Request ID: **RQ-2018-09-03-53**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Matthew Sewell

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: Liang Lin, Environmental Administrator

Date Certified: 28-SEP-2018 10:45

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored 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, Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited 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: OKEEHREE PARK RAMP

Collection Date/Time: 09/05/2018 11:40

Field ID: G3SE0015

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022274	EPA 180.1 Rev. 2.0	Turbidity	0.70		NTU	P351209	
	EPA 300.0 Rev. 2.1	Chloride	15		mg Cl/L	P351787	
		Sulfate	0.20	U	mg SO4/L	P351789	
		Color (true)	8.5		PCU	P351233	
	SM 2120 B	Total Alkalinity	58		mg CaCO3/L	P351405	
	SM 2540 C-97	TDS	89		mg/L	P351871	
	SM 2540 D-97	TSS	2	U	mg/L	P351485	
	SM 4500 F-C-97	Fluoride	0.087	I	mg F/L	P351412	
2022275	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P351296	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.63		mg N/L	P351246	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P351425	
	EPA 365.1 Rev. 2.0	Total-P	0.008		mg P/L	P351279	
	SM 5310 B-00	Organic Carbon	6.0		mg C/L	P351441	
2022276	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P351204	
2022303	EPA 200.7 Rev. 4.4	Calcium	22.9		mg/L	P351199	
		Iron	33	I	ug/L	P351199	
		Magnesium	1.65		mg/L	P351199	
		Potassium	0.90	I	mg/L	P351199	
		Sodium	9.9		mg/L	P351199	
		Zinc	5.0	U	ug/L	P351199	
	EPA 200.8 Rev. 5.4	Arsenic	1.13		ug/L	P351199	
		Cadmium	0.020	U	ug/L	P351199	
		Chromium	0.40	U	ug/L	P351199	
		Copper	0.20	U	ug/L	P351199	
		Lead	0.050	U	ug/L	P351199	
		Nickel	0.20	U	ug/L	P351199	
		Silver	0.010	U	ug/L	P351199	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: LAKE CLARKE @ PINE TREE

Collection Date/Time: 09/05/2018 12:40

Field ID: G3SE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022277	EPA 180.1 Rev. 2.0	Turbidity	4.7	A	NTU	P351209	
	EPA 300.0 Rev. 2.1	Chloride	54		mg Cl/L	P351787	
		Sulfate	23		mg SO4/L	P351789	
	SM 2120 B	Color (true)	65		PCU	P351233	
	SM 2320 B-97	Total Alkalinity	154		mg CaCO3/L	P351405	
	SM 2540 C-97	TDS	302	A	mg/L	P351871	
	SM 2540 D-97	TSS	3	IA	mg/L	P351485	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P351412	
2022278	EPA 350.1 Rev. 2.0	Ammonia-N	0.099		mg N/L	P351296	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P351247	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.22		mg N/L	P351426	
	EPA 365.1 Rev. 2.0	Total-P	0.064		mg P/L	P351280	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P352042	
2022279	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.039		mg P/L	P351204	
2022299	EPA 8321B	Aldicarb	0.020	U	ug/L	P351193	
		Aldicarb Sulfone	0.0020	U	ug/L	P351193	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P351193	MS
		Carbaryl	0.0020	U	ug/L	P351193	
		Carbofuran	0.0020	U	ug/L	P351193	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P351193	
		Methiocarb	0.0020	U	ug/L	P351193	
		Methomyl	0.0020	UJ	ug/L	P351193	MS
		Oxamyl	0.0020	U	ug/L	P351193	
		Propoxur	0.0020	U	ug/L	P351193	
2022300		2,4-D	0.53		ug/L	P351193	
		Sucralose**	0.21		ug/L	P351113	
		Bentazon	0.030		ug/L	P351193	
		MCP	0.0028	I	ug/L	P351193	
		Triclopyr**	0.0040	U	ug/L	P351193	
		Imidacloprid	0.030		ug/L	P351193	
		Diuron	0.020		ug/L	P351193	
		Pyraclostrobin**	0.0020	U	ug/L	P351193	
		Primidone**	0.0040	U	ug/L	P351193	
		Linuron	0.0040	U	ug/L	P351193	
		Acetaminophen**	0.0080	U	ug/L	P351193	
		Fenuron	0.016	U	ug/L	P351193	
		Imazapyr**	0.48		ug/L	P351193	
		Carbamazepine**	9.4E-04	I	ug/L	P351193	
		Fluridone**	0.042		ug/L	P351193	
		Hydrocodone**	8.0E-04	U	ug/L	P351193	
		Naproxen**	0.0080	UJ	ug/L	P351193	RPD
		Ibuprofen**	0.020	U	ug/L	P351193	
		Glyphosate**	2.0		ug/L	P351113	

Field ID: G3SE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022300	EPA 8321B	AMPA**	0.89		ug/L	P351113	
		Endothall**	0.10	U	ug/L	P351113	MS
		Glufosinate**	0.10	U	ug/L	P351113	
		Acesulfame K**	0.10	U	ug/L	P351113	MS
2022301	EPA 8270D	Aldrin	4.3	U	ng/L	P351179	
		Alpha-BHC	2.1	U	ng/L	P351179	
		Beta-BHC	4.3	U	ng/L	P351179	RPD
		Delta-BHC	4.3	U	ng/L	P351179	
		Gamma-BHC	4.3	U	ng/L	P351179	
		Carbophenothion	4.3	U	ng/L	P351179	MS, RPD
		Chlorothalonil	2.1	U	ng/L	P351179	
		Cypermethrin	21	U	ng/L	P351179	
		DDD-p,p'	3.2	U	ng/L	P351179	
		DDE-p,p'	3.2	U	ng/L	P351179	
		DDT-p,p'	3.2	U	ng/L	P351179	
		Dieldrin	4.3	U	ng/L	P351179	
		Endosulfan I	4.3	U	ng/L	P351179	
		Endosulfan II	4.3	U	ng/L	P351179	
		Endosulfan Sulfate	2.1	U	ng/L	P351179	
		Endrin	2.1	U	ng/L	P351179	
		Endrin Aldehyde	2.1	U	ng/L	P351179	RPD
		Heptachlor	1.6	U	ng/L	P351179	
		Heptachlor Epoxide	2.1	U	ng/L	P351179	
		Methoxychlor	4.3	U	ng/L	P351179	
		Mirex	2.1	U	ng/L	P351179	
		Permethrin	11	U	ng/L	P351179	
		Trifluralin	1.1	U	ng/L	P351179	
		Alpha-Chlordane	1.1	U	ng/L	P351179	
		Gamma-Chlordane	1.1	U	ng/L	P351179	
		Endrin Ketone	2.1	U	ng/L	P351179	
		Dicofol	32	U	ng/L	P351179	
		Chlordane	2.7	U	ng/L	P351179	
		Toxaphene	32	U	ng/L	P351179	
2022302	EPA 8270D	Alachlor	0.24	U	ng/L	P351254	
		Ametryn	3.4		ng/L	P351254	
		Atrazine	50		ng/L	P351254	
		Atrazine Desethyl	1.4	UJ	ng/L	P351254	MS
		Azinphos Methyl	2.1	U	ng/L	P351254	
		Bromacil	0.47	U	ng/L	P351254	
		Butylate	0.38	UJ	ng/L	P351254	RPD
		Chlorpyrifos Ethyl	0.24	U	ng/L	P351254	
		Chlorpyrifos Methyl	0.095	U	ng/L	P351254	
		Demeton	1.9	U	ng/L	P351254	
		Diazinon	0.12	U	ng/L	P351254	
		Disulfoton	0.47	U	ng/L	P351254	
	EPA 8276						

Field ID: G3SE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022302	EPA 8270D	EPTC	1.2	UJ	ng/L	P351254	RPD
		Ethion	0.14	UJ	ng/L	P351254	MS, RPD
		Ethoprop	0.095	U	ng/L	P351254	
		Fenamiphos	0.24	U	ng/L	P351254	
		Fipronil	0.36	IJ	ng/L	P351254	RPD
		Fipronil Sulfide	0.25	I	ng/L	P351254	
		Fipronil Sulfone	0.61	J	ng/L	P351254	RPD
		Hexazinone	12		ng/L	P351254	
		Malathion	0.33	U	ng/L	P351254	
		Metribuzin	1.7	J	ng/L	P351254	MS
		Mevinphos	0.47	U	ng/L	P351254	
		Molinate	0.28	U	ng/L	P351254	
		Norflurazon	8.1	J	ng/L	P351254	MS, RPD
		Pendimethalin	0.95	U	ng/L	P351254	
		Phorate	0.24	U	ng/L	P351254	
		Prometon	0.85	U	ng/L	P351254	
		Prometryn	0.19	U	ng/L	P351254	
		Simazine	0.47	U	ng/L	P351254	
		Terbufos	0.095	U	ng/L	P351254	
		Terbutylazine	0.40	U	ng/L	P351254	
		Fonofos	0.19	U	ng/L	P351254	
		Metalaxyl	5.7		ng/L	P351254	
		Metolachlor	3.0		ng/L	P351254	
		Acetochlor	0.24	U	ng/L	P351254	
		Cyanazine	0.47	U	ng/L	P351254	
		Parathion Ethyl	0.24	U	ng/L	P351254	
		Parathion Methyl	0.24	U	ng/L	P351254	
2022304	EPA 200.7 Rev. 4.4	Calcium	67.9		mg/L	P351199	
		Iron	210		ug/L	P351199	
		Magnesium	4.99		mg/L	P351199	
		Potassium	3.2		mg/L	P351199	
		Sodium	37.7		mg/L	P351199	
		Zinc	5.0	U	ug/L	P351199	
	EPA 200.8 Rev. 5.4	Arsenic	1.48		ug/L	P351199	
		Cadmium	0.020	U	ug/L	P351199	
		Chromium	0.42	I	ug/L	P351199	
		Copper	1.04		ug/L	P351199	
		Lead	0.23		ug/L	P351199	
		Nickel	0.30	I	ug/L	P351199	
		Silver	0.010	U	ug/L	P351199	

Field ID: G3SE0001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
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Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8321B: MS accuracy for 2,4-D could not be assessed due to high concentration of parameter in the spiked sample. Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes. MS accuracies for Atrazine and Hexazinone not assessed due to high content of these parameters in the sample spiked.

Sample Location: PINE LAKE

Collection Date/Time: 09/05/2018 13:15

Field ID: G3SE0003

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022286	EPA 180.1 Rev. 2.0	Turbidity	4.6		NTU	P351209	
	EPA 300.0 Rev. 2.1	Chloride	28		mg Cl/L	P351787	
		Sulfate	10		mg SO4/L	P351789	
	SM 2120 B	Color (true)	29	A	PCU	P351234	
	SM 2320 B-97	Total Alkalinity	132		mg CaCO3/L	P351405	
	SM 2540 C-97	TDS	208		mg/L	P351872	
	SM 2540 D-97	TSS	7	I	mg/L	P351486	
	SM 4500 F-C-97	Fluoride	0.083	I	mg F/L	P351412	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P351296	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P351247	
2022287	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P351426	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P351280	
	SM 5310 B-00	Organic Carbon	8.5		mg C/L	P351540	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P351204	
	dissolved						

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: CLEAR LAKE NEAR AUSTRALIAN

Collection Date/Time: 09/05/2018 14:25

Field ID: CLEAR LAKE

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022280	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P351209	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P351787	
		Sulfate	18		mg SO4/L	P351789	
	SM 2120 B	Color (true)	21		PCU	P351234	
	SM 2320 B-97	Total Alkalinity	94	A	mg CaCO3/L	P351405	
	SM 2540 C-97	TDS	212		mg/L	P351872	
	SM 2540 D-97	TSS	2	U	mg/L	P351486	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P351412	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P351296	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.70		mg N/L	P351247	
2022282	EPA 353.2 Rev. 2.0	NO2NO3-N	0.009	I	mg N/L	P351426	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P351280	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P352042	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P351204	
	dissolved						

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: LAKE MANGONIA NORTH

Collection Date/Time: 09/05/2018 15:10

Field ID: G3SE0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2022281	EPA 180.1 Rev. 2.0	Turbidity	2.7		NTU	P351209	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P351787	
		Sulfate	13		mg SO4/L	P351789	
	SM 2120 B	Color (true)	30		PCU	P351234	
	SM 2320 B-97	Total Alkalinity	80		mg CaCO3/L	P351405	
	SM 2540 C-97	TDS	179		mg/L	P351872	
	SM 2540 D-97	TSS	4	I	mg/L	P351486	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P351412	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P351296	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P351247	
2022283	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P351426	
	EPA 365.1 Rev. 2.0	Total-P	0.022		mg P/L	P351280	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P352042	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P351204	
2022285	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P351204	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P351209

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P351199

Component	Result	Code	Units
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: P351199

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351787

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351789

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P351296

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351246

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351247

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351425

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351426

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351279

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351280

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P351204

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

Reference Method: EPA 8270D
Batch ID: P351179

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P351179

Component	Result	Code	Units
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
Batch ID: P351254

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.25	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P351254

Component	Result	Code	Units
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P351179

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P351113

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.10	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: P351193

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-04	U	ug/L
Hydrocodone	8.0E-04	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
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P351193

Component	Result	Code	Units
Tricopyr	0.0040	U	ug/L

Reference Method: SM 2120 B
Batch ID: P351233

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P351234

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P351405

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

Reference Method: SM 2540 C-97
Batch ID: P351871

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P351872

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P351485

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P351486

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P351412

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P351441

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

Reference Method: SM 5310 B-00
Batch ID: P351540

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

Reference Method: SM 5310 B-00
Batch ID: P352042

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P351199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	111		P	85 - 115
Iron	109		P	85 - 115
Magnesium	114		P	85 - 115
Potassium	111		P	85 - 115
Sodium	112		P	85 - 115
Zinc	104		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P351199

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	101		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	106		P	85 - 115
Copper	96.7		P	85 - 115
Lead	104		P	85 - 115
Nickel	98.7		P	85 - 115
Silver	104		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351787

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351789

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P351296

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351246

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351247

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.1		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P351425

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	102		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P351426

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P351279

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	102		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P351280

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P351204

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.3		P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P351179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.8	50.8	P/P	24 - 89.0
Alpha-BHC	90.0	85.3	P/P	58 - 117
Alpha-Chlordane	83.2	75.0	P/P	56 - 115
Beta-BHC	101	95.5	P/P	55 - 137
Carbophenothion	76.7	74.1	P/P	37 - 145
Chlorothalonil	67.1	73.7	P/P	26 - 163
Cypermethrin	80.0	84.6	P/P	42 - 156
DDD-p,p'	89.5	81.9	P/P	59 - 129
DDE-p,p'	80.0	73.5	P/P	52 - 117
DDT-p,p'	88.9	77.4	P/P	48 - 128
Delta-BHC	119	100	P/P	59 - 158
Dicofol	90.6	89.0	P/P	19 - 124
Dieldrin	91.4	82.8	P/P	57 - 126
Endosulfan I	88.9	87.5	P/P	59 - 133
Endosulfan II	87.7	79.3	P/P	58 - 148
Endosulfan Sulfate	95.2	86.3	P/P	56 - 135
Endrin	95.0	86.5	P/P	50 - 140
Endrin Aldehyde	87.1	78.4	P/P	47 - 141
Endrin Ketone	97.2	87.7	P/P	63 - 123
Gamma-BHC	105	91.9	P/P	59 - 132
Gamma-Chlordane	78.4	70.9	P/P	55 - 112
Heptachlor	67.6	65.2	P/P	45 - 102

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P351179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Heptachlor Epoxide	88.7	81.0	P/P	61 - 116
Methoxychlor	97.9	90.7	P/P	60 - 133
Mirex	64.5	61.3	P/P	40 - 98.0
Permethrin	78.6	75.1	P/P	45 - 131
Trifluralin	78.1	72.3	P/P	38 - 179

Reference Method: EPA 8270D
Batch ID: P351254

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	98.8	102	P/P	74 - 119
Alachlor	97.5	100	P/P	75 - 118
Ametryn	99.7	99.0	P/P	59 - 137
Atrazine	106	106	P/P	73 - 120
Atrazine Desethyl	71.5	88.9	P/P	19 - 129
Azinphos Methyl	125	129	P/P	65 - 181
Bromacil	87.4	94.8	P/P	43 - 123
Butylate	54.8	38.9	P/P	28 - 85.0
Chlorpyrifos Ethyl	98.0	98.6	P/P	55 - 112
Chlorpyrifos Methyl	94.3	93.5	P/P	35 - 124
Cyanazine	136	155	P/P	26 - 262
Demeton	85.7	74.2	P/P	43 - 122
Diazinon	115	109	P/P	72 - 120
Disulfoton	98.2	91.7	P/P	45 - 137
EPTC	57.8	45.3	P/P	28 - 95.0
Ethion	88.5	93.1	P/P	63 - 127
Ethoprop	89.5	77.0	P/P	63 - 109
Fenamiphos	91.4	101	P/P	66 - 136
Fipronil	99.4	106	P/P	63 - 126
Fipronil Sulfide	84.3	88.8	P/P	59 - 123
Fipronil Sulfone	82.3	85.8	P/P	56 - 122
Fonofos	97.2	89.4	P/P	64 - 114
Hexazinone	103	98.2	P/P	49 - 144
Malathion	99.5	105	P/P	68 - 131
Metaxyl	100	103	P/P	57 - 126
Metolachlor	94.6	99.6	P/P	75 - 118
Metribuzin	125	144	P/P	46 - 169
Mevinphos	84.7	73.2	P/P	34 - 126
Molinate	56.8	48.4	P/P	37 - 101
Norflurazon	91.8	96.7	P/P	63 - 127
Parathion Ethyl	96.9	95.7	P/P	78 - 109
Parathion Methyl	113	103	P/P	74 - 123
Pendimethalin	120	116	P/P	51 - 130
Phorate	65.5	69.7	P/P	53 - 116
Prometon	115	109	P/P	66 - 124
Prometryn	98.2	105	P/P	66 - 124
Simazine	97.7	96.6	P/P	62 - 134
Terbufos	100	91.9	P/P	59 - 115
Terbutylazine	95.0	104	P/P	76 - 113

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P351179

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	91.3	81.9	P/P	47 - 125
Toxaphene	70.6	68.0	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P351113

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	87.1		P	40 - 150
AMPA	107		P	40 - 150
Endothall	96.6		P	40 - 150
Glufosinate	94.5		P	40 - 150
Glyphosate	82.8		P	40 - 140
Sucralose	93.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P351193

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	102		P	40 - 150
3-Hydroxycarbofuran	89.8		P	40 - 150
Acetaminophen	92.7		P	30 - 150
Aldicarb	107		P	30 - 150
Aldicarb Sulfone	85.9		P	40 - 150
Aldicarb Sulfoxide	106		P	40 - 150
Bentazon	110		P	30 - 150
Carbamazepine	118		P	40 - 150
Carbaryl	85.5		P	40 - 150
Carbofuran	108		P	40 - 150
Diuron	116		P	40 - 150
Fenuron	108		P	40 - 150
Fluridone	107		P	40 - 150
Hydrocodone	88.7		P	40 - 150
Ibuprofen	90.8		P	40 - 150
Imazapyr	107		P	40 - 150
Imidacloprid	109		P	40 - 160
Linuron	86.3		P	40 - 150
MCPP	113		P	40 - 150
Methiocarb	72.5		P	40 - 150
Methomyl	77.3		P	40 - 150
Naproxen	137		P	40 - 150
Oxamyl	94.9		P	40 - 150
Primidone	107		P	40 - 150
Propoxur	91.0		P	40 - 150
Pyraclostrobin	77.1		P	40 - 150
Triclopyr	136		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P351233

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	95.7		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2120 B
Batch ID: P351234

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	97.4		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P351405

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

Reference Method: SM 4500 F-C-97
Batch ID: P351412

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.7		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P351441

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	92.6		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P351540

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.6		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P352042

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P351199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2021575	Calcium	113		P	80 - 120
2021575	Iron	111		P	80 - 120
2021575	Magnesium	117		P	80 - 120
2021575	Potassium	108		P	80 - 120
2021575	Sodium	111		P	80 - 120
2021575	Zinc	105		P	80 - 120
2022031	Calcium	112	111	P/P	80 - 120
2022031	Iron	111	110	P/P	80 - 120
2022031	Magnesium	114	114	P/P	80 - 120
2022031	Potassium	109	107	P/P	80 - 120
2022031	Sodium	108	107	P/P	80 - 120
2022031	Zinc	106	103	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P351199

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2021575	Arsenic	104		P	80 - 120
2021575	Cadmium	106		P	80 - 120
2021575	Chromium	111		P	80 - 120
2021575	Copper	99.7		P	80 - 120
2021575	Lead	106		P	80 - 120
2021575	Nickel	102		P	80 - 120
2021575	Silver	105		P	80 - 120
2022031	Arsenic	99.9	100	P/P	80 - 120
2022031	Cadmium	103	105	P/P	80 - 120
2022031	Chromium	111	107	P/P	80 - 120
2022031	Copper	96.4	96.6	P/P	80 - 120
2022031	Lead	105	104	P/P	80 - 120
2022031	Nickel	100	97.8	P/P	80 - 120
2022031	Silver	104	104	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351787

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022197	Chloride	99.3		P	90 - 110
2022280	Chloride	96.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351789

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022197	Sulfate	98.5		P	90 - 110
2022280	Sulfate	96.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P351296

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022275	Ammonia-N	102	99.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022200	Kjeldahl Nitrogen	95.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351247

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022282	Kjeldahl Nitrogen	98.9	97.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351425

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022183	NO2NO3-N	101		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351426

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022278	NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351279

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022275	Total-P	101	97.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351280

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022282	Total-P	99.0	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P351204

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022276	O-Phosphate-P	96.6	96.6	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P351179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022113	Aldrin	62.1	61.3	P/P	26 - 96.0
2022113	Alpha-BHC	91.5	104	P/P	51 - 123
2022113	Alpha-Chlordane	83.3	73.5	P/P	45 - 120
2022113	Beta-BHC	78.1	54.6	P/P	43 - 146
2022113	Carbophenothion	84.5	23.2	P/F	26 - 179
2022113	Chlorothalonil	72.4	90.6	P/P	10 - 215
2022113	Cypermethrin	73.1	56.2	P/P	35 - 169
2022113	DDD-p,p'	89.4	68.5	P/P	49 - 131
2022113	DDE-p,p'	85.6	80.7	P/P	39 - 127
2022113	DDT-p,p'	92.9	108	P/P	49 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P351179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022113	Delta-BHC	98.1	100	P/P	49 - 187
2022113	Dicofol	110	113	P/P	10 - 129
2022113	Dieldrin	88.3	79.3	P/P	46 - 132
2022113	Endosulfan I	91.6	88.3	P/P	57 - 130
2022113	Endosulfan II	91.6	69.2	P/P	52 - 148
2022113	Endosulfan Sulfate	89.5	71.4	P/P	55 - 129
2022113	Endrin	99.2	81.1	P/P	45 - 133
2022113	Endrin Aldehyde	86.0	62.2	P/P	26 - 140
2022113	Endrin Ketone	96.2	80.0	P/P	60 - 125
2022113	Gamma-BHC	102	101	P/P	50 - 145
2022113	Gamma-Chlordane	80.6	74.2	P/P	44 - 118
2022113	Heptachlor	74.1	75.1	P/P	35 - 106
2022113	Heptachlor Epoxide	85.6	80.3	P/P	52 - 123
2022113	Methoxychlor	98.6	112	P/P	54 - 132
2022113	Mirex	77.2	76.3	P/P	36 - 107
2022113	Permethrin	82.9	67.8	P/P	47 - 135
2022113	Trifluralin	84.0	90.2	P/P	32 - 228

Reference Method: EPA 8270D
Batch ID: P351254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022302	Acetochlor	97.1	104	P/P	67 - 125
2022302	Alachlor	91.1	106	P/P	69 - 123
2022302	Ametryn	78.3	100	P/P	52 - 151
2022302	Atrazine Desethyl	116	148	P/F	10 - 129
2022302	Azinphos Methyl	135	127	P/P	48 - 200
2022302	Bromacil	83.3	109	P/P	46 - 130
2022302	Butylate	46.2	37.6	P/P	10 - 85.0
2022302	Chlorpyrifos Ethyl	96.4	93.4	P/P	54 - 115
2022302	Chlorpyrifos Methyl	100	98.3	P/P	44 - 117
2022302	Cyanazine	142	191	P/P	10 - 262
2022302	Demeton	86.6	83.8	P/P	24 - 145
2022302	Diazinon	117	123	P/P	66 - 129
2022302	Disulfoton	102	103	P/P	45 - 139
2022302	EPTC	47.9	32.9	P/P	10 - 86.0
2022302	Ethion	54.7	93.3	F/P	59 - 133
2022302	Ethoprop	104	96.8	P/P	54 - 116
2022302	Fenamiphos	79.7	92.5	P/P	55 - 140
2022302	Fipronil	71.2	103	P/P	37 - 142
2022302	Fipronil Sulfide	65.5	86.2	P/P	37 - 130
2022302	Fipronil Sulfone	44.2	85.5	P/P	18 - 143
2022302	Fonofos	103	96.7	P/P	55 - 118
2022302	Malathion	104	97.9	P/P	64 - 132
2022302	Metalaxyl	82.8	104	P/P	55 - 129
2022302	Metolachlor	86.6	95.2	P/P	56 - 137
2022302	Metribuzin	215	220	P/F	16 - 218
2022302	Mevinphos	94.2	96.4	P/P	34 - 129
2022302	Molinate	50.9	41.6	P/P	16 - 99.0
2022302	Norflurazon	23.7	80.6	F/P	43 - 135
2022302	Parathion Ethyl	104	107	P/P	71 - 112
2022302	Parathion Methyl	116	122	P/P	65 - 127

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P351254

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022302	Pendimethalin	127	126	P/P	35 - 159
2022302	Phorate	79.9	76.4	P/P	41 - 129
2022302	Prometon	106	120	P/P	56 - 140
2022302	Prometryn	95.1	105	P/P	65 - 130
2022302	Simazine	110	113	P/P	54 - 148
2022302	Terbufos	113	107	P/P	53 - 126
2022302	Terbuthylazine	102	112	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P351179

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022301	Chlordane	79.7	92.1	P/P	41 - 134
2022301	Toxaphene	60.1	60.4	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P351113

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022149	Acesulfame K	23.2	27.8	F/F	40 - 150
2022149	AMPA	81.7	81.9	P/P	40 - 150
2022149	Endothall	131	154	P/F	40 - 150
2022149	Glufosinate	70.2	78.7	P/P	40 - 150
2022149	Glyphosate	61.5	59.2	P/P	40 - 140
2022149	Sucralose	102	97.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P351193

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022299	3-Hydroxycarbofuran	52.5	57.9	P/P	40 - 150
2022299	Aldicarb	47.0	46.0	P/P	30 - 150
2022299	Aldicarb Sulfone	51.0	58.7	P/P	40 - 150
2022299	Aldicarb Sulfoxide	25.8	26.2	F/F	40 - 150
2022299	Carbaryl	70.3	57.3	P/P	40 - 150
2022299	Carbofuran	117	120	P/P	40 - 150
2022299	Methiocarb	52.4	61.2	P/P	40 - 150
2022299	Methomyl	32.4	38.1	F/F	40 - 150
2022299	Oxamyl	55.7	62.1	P/P	40 - 150
2022299	Propoxur	57.4	57.7	P/P	40 - 150
2022300	Acetaminophen	103	107	P/P	30 - 150
2022300	Bentazon	106	121	P/P	30 - 150
2022300	Carbamazepine	93.9	97.4	P/P	40 - 150
2022300	Diuron	54.3	60.8	P/P	40 - 150
2022300	Fenuron	43.5	45.8	P/P	40 - 150
2022300	Fluridone	77.3	116	P/P	40 - 150
2022300	Hydrocodone	66.4	76.8	P/P	40 - 150
2022300	Ibuprofen	91.3	93.1	P/P	40 - 150
2022300	Imazapyr	92.8	106	P/P	40 - 150
2022300	Imidacloprid	95.0	96.7	P/P	40 - 160
2022300	Linuron	57.3	65.1	P/P	40 - 150
2022300	MCP	108	127	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P351193

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022300	Naproxen	69.0	103	P/P	40 - 150
2022300	Primidone	55.3	62.3	P/P	40 - 150
2022300	Pyraclostrobin	77.9	92.7	P/P	40 - 150
2022300	Triclopyr	127	129	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P351412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022280	Fluoride	97.5	98.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P351441

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022131	Organic Carbon	98.2		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P351540

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022287	Organic Carbon	95.8	95.6	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P352042

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2022278	Organic Carbon	97.6	98.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P351209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022277	Turbidity	5.92	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P351199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022031	Calcium	0.437	Spike	P	0 - 20
2022031	Iron	0.815	Spike	P	0 - 20
2022031	Magnesium	0.155	Spike	P	0 - 20
2022031	Potassium	1.75	Spike	P	0 - 20
2022031	Sodium	0.873	Spike	P	0 - 20
2022031	Zinc	3.54	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P351199

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022031	Arsenic	0.356	Spike	P	0 - 20
2022031	Cadmium	2.33	Spike	P	0 - 20
2022031	Chromium	3.66	Spike	P	0 - 20
2022031	Copper	0.165	Spike	P	0 - 20
2022031	Lead	0.626	Spike	P	0 - 20
2022031	Nickel	2.19	Spike	P	0 - 20
2022031	Silver	0.0735	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P351787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022197	Chloride	0.214	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P351296

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022275	Ammonia-N	1.89	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022200	Kjeldahl Nitrogen	2.77	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P351247

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022282	Kjeldahl Nitrogen	0.702	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022183	NO2NO3-N	0.227	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P351426

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022278	NO2NO3-N	0.474	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351279

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022275	Total-P	3.76	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P351280

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022282	Total-P	1.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P351204

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022276	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P351179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022113	Aldrin	1.31	Spike	P	0 - 30
2022113	Alpha-BHC	12.4	Spike	P	0 - 30
2022113	Alpha-Chlordane	12.5	Spike	P	0 - 30
2022113	Beta-BHC	35.5	Spike	F	0 - 30
2022113	Carbophenothion	114	Spike	F	0 - 30
2022113	Chlorothalonil	22.3	Spike	P	0 - 30
2022113	Cypermethrin	26.2	Spike	P	0 - 30
2022113	DDD-p,p'	26.4	Spike	P	0 - 30
2022113	DDE-p,p'	5.84	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P351179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022113	DDT-p,p'	15.0	Spike	P	0 - 30
2022113	Delta-BHC	2.29	Spike	P	0 - 30
2022113	Dicofol	2.66	Spike	P	0 - 30
2022113	Dieldrin	10.7	Spike	P	0 - 30
2022113	Endosulfan I	3.66	Spike	P	0 - 30
2022113	Endosulfan II	27.8	Spike	P	0 - 30
2022113	Endosulfan Sulfate	22.5	Spike	P	0 - 30
2022113	Endrin	20.1	Spike	P	0 - 30
2022113	Endrin Aldehyde	32.0	Spike	F	0 - 30
2022113	Endrin Ketone	18.4	Spike	P	0 - 30
2022113	Gamma-BHC	1.00	Spike	P	0 - 30
2022113	Gamma-Chlordane	8.25	Spike	P	0 - 30
2022113	Heptachlor	1.43	Spike	P	0 - 30
2022113	Heptachlor Epoxide	6.40	Spike	P	0 - 30
2022113	Methoxychlor	13.1	Spike	P	0 - 30
2022113	Mirex	1.12	Spike	P	0 - 30
2022113	Permethrin	20.1	Spike	P	0 - 30
2022113	Trifluralin	7.15	Spike	P	0 - 30
LFB	Aldrin	0.0896	LCS	P	0 - 30
LFB	Alpha-BHC	5.40	LCS	P	0 - 30
LFB	Alpha-Chlordane	10.3	LCS	P	0 - 30
LFB	Beta-BHC	5.42	LCS	P	0 - 30
LFB	Carbophenothion	3.46	LCS	P	0 - 30
LFB	Chlorothalonil	9.39	LCS	P	0 - 30
LFB	Cypermethrin	5.55	LCS	P	0 - 30
LFB	DDD-p,p'	8.77	LCS	P	0 - 30
LFB	DDE-p,p'	8.57	LCS	P	0 - 30
LFB	DDT-p,p'	13.8	LCS	P	0 - 30
LFB	Delta-BHC	16.9	LCS	P	0 - 30
LFB	Dicofol	1.80	LCS	P	0 - 30
LFB	Dieldrin	9.81	LCS	P	0 - 30
LFB	Endosulfan I	1.56	LCS	P	0 - 30
LFB	Endosulfan II	10.0	LCS	P	0 - 30
LFB	Endosulfan Sulfate	9.82	LCS	P	0 - 30
LFB	Endrin	9.33	LCS	P	0 - 30
LFB	Endrin Aldehyde	10.5	LCS	P	0 - 30
LFB	Endrin Ketone	10.3	LCS	P	0 - 30
LFB	Gamma-BHC	12.9	LCS	P	0 - 30
LFB	Gamma-Chlordane	10.1	LCS	P	0 - 30
LFB	Heptachlor	3.62	LCS	P	0 - 30
LFB	Heptachlor Epoxide	9.06	LCS	P	0 - 30
LFB	Methoxychlor	7.66	LCS	P	0 - 30
LFB	Mirex	5.16	LCS	P	0 - 30
LFB	Permethrin	4.59	LCS	P	0 - 30
LFB	Trifluralin	7.76	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P351254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
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Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P351254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022302	Acetochlor	6.64	Spike	P	0 - 30
2022302	Alachlor	15.1	Spike	P	0 - 30
2022302	Ametryn	12.4	Spike	P	0 - 30
2022302	Atrazine	4.05	Spike	P	0 - 30
2022302	Atrazine Desethyl	24.2	Spike	P	0 - 30
2022302	Azinphos Methyl	6.31	Spike	P	0 - 30
2022302	Bromacil	26.7	Spike	P	0 - 30
2022302	Butylate	20.4	Spike	P	0 - 30
2022302	Chlorpyrifos Ethyl	3.17	Spike	P	0 - 30
2022302	Chlorpyrifos Methyl	1.94	Spike	P	0 - 30
2022302	Cyanazine	29.6	Spike	P	0 - 30
2022302	Demeton	3.28	Spike	P	0 - 30
2022302	Diazinon	5.28	Spike	P	0 - 30
2022302	Disulfoton	0.925	Spike	P	0 - 30
2022302	EPTC	37.0	Spike	F	0 - 30
2022302	Ethion	52.2	Spike	F	0 - 30
2022302	Ethoprop	6.73	Spike	P	0 - 30
2022302	Fenamiphos	14.9	Spike	P	0 - 30
2022302	Fipronil	32.7	Spike	F	0 - 30
2022302	Fipronil Sulfide	23.3	Spike	P	0 - 30
2022302	Fipronil Sulfone	42.6	Spike	F	0 - 30
2022302	Fonofos	5.89	Spike	P	0 - 30
2022302	Hexazinone	13.3	Spike	P	0 - 30
2022302	Malathion	6.15	Spike	P	0 - 30
2022302	Metalaxyl	16.1	Spike	P	0 - 30
2022302	Metolachlor	7.33	Spike	P	0 - 30
2022302	Metribuzin	1.76	Spike	P	0 - 30
2022302	Mevinphos	2.30	Spike	P	0 - 30
2022302	Molinate	19.9	Spike	P	0 - 30
2022302	Norflurazon	46.2	Spike	F	0 - 30
2022302	Parathion Ethyl	2.75	Spike	P	0 - 30
2022302	Parathion Methyl	4.49	Spike	P	0 - 30
2022302	Pendimethalin	0.553	Spike	P	0 - 30
2022302	Phorate	4.52	Spike	P	0 - 30
2022302	Prometon	12.2	Spike	P	0 - 30
2022302	Prometryn	10.2	Spike	P	0 - 30
2022302	Simazine	2.83	Spike	P	0 - 30
2022302	Terbufos	5.06	Spike	P	0 - 30
2022302	Terbutylazine	8.99	Spike	P	0 - 30
LFB	Acetochlor	3.27	LCS	P	0 - 30
LFB	Alachlor	2.93	LCS	P	0 - 30
LFB	Ametryn	0.690	LCS	P	0 - 30
LFB	Atrazine	0.150	LCS	P	0 - 30
LFB	Atrazine Desethyl	21.7	LCS	P	0 - 30
LFB	Azinphos Methyl	2.94	LCS	P	0 - 30
LFB	Bromacil	8.18	LCS	P	0 - 30
LFB	Butylate	33.9	LCS	F	0 - 30
LFB	Chlorpyrifos Ethyl	0.646	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.921	LCS	P	0 - 30
LFB	Cyanazine	13.2	LCS	P	0 - 30
LFB	Demeton	14.4	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P351254

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Diazinon	4.88	LCS	P	0 - 30
LFB	Disulfoton	6.82	LCS	P	0 - 30
LFB	EPTC	24.3	LCS	P	0 - 30
LFB	Ethion	5.04	LCS	P	0 - 30
LFB	Ethoprop	15.0	LCS	P	0 - 30
LFB	Fenamiphos	10.4	LCS	P	0 - 30
LFB	Fipronil	6.50	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.24	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.22	LCS	P	0 - 30
LFB	Fonofos	8.36	LCS	P	0 - 30
LFB	Hexazinone	4.43	LCS	P	0 - 30
LFB	Malathion	5.64	LCS	P	0 - 30
LFB	Metaxyl	3.01	LCS	P	0 - 30
LFB	Metolachlor	5.11	LCS	P	0 - 30
LFB	Metribuzin	14.0	LCS	P	0 - 30
LFB	Mevinphos	14.6	LCS	P	0 - 30
LFB	Molinate	16.0	LCS	P	0 - 30
LFB	Norflurazon	5.23	LCS	P	0 - 30
LFB	Parathion Ethyl	1.22	LCS	P	0 - 30
LFB	Parathion Methyl	9.54	LCS	P	0 - 30
LFB	Pendimethalin	3.88	LCS	P	0 - 30
LFB	Phorate	6.21	LCS	P	0 - 30
LFB	Prometon	5.76	LCS	P	0 - 30
LFB	Prometryn	6.37	LCS	P	0 - 30
LFB	Simazine	1.09	LCS	P	0 - 30
LFB	Terbufos	8.59	LCS	P	0 - 30
LFB	Terbutylazine	8.70	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P351179

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022301	Chlordane	14.4	Spike	P	0 - 30
2022301	Toxaphene	0.487	Spike	P	0 - 30
LFB	Chlordane	10.8	LCS	P	0 - 30
LFB	Toxaphene	3.81	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P351113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022149	Acesulfame K	18.3	Spike	P	0 - 30
2022149	AMPA	0.127	Spike	P	0 - 30
2022149	Endothall	16.3	Spike	P	0 - 30
2022149	Glufosinate	11.4	Spike	P	0 - 30
2022149	Glyphosate	1.12	Spike	P	0 - 30
2022149	Sucralose	4.29	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P351193

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022299	3-Hydroxycarbofuran	9.77	Spike	P	0 - 30
2022299	Aldicarb	2.19	Spike	P	0 - 30
2022299	Aldicarb Sulfone	14.0	Spike	P	0 - 30
2022299	Aldicarb Sulfoxide	1.29	Spike	P	0 - 30
2022299	Carbaryl	20.3	Spike	P	0 - 30
2022299	Carbofuran	2.09	Spike	P	0 - 30
2022299	Methiocarb	15.4	Spike	P	0 - 30
2022299	Methomyl	16.2	Spike	P	0 - 30
2022299	Oxamyl	10.7	Spike	P	0 - 30
2022299	Propoxur	0.453	Spike	P	0 - 30
2022300	2,4-D	18.1	Spike	P	0 - 30
2022300	Acetaminophen	3.91	Spike	P	0 - 30
2022300	Bentazon	9.94	Spike	P	0 - 30
2022300	Carbamazepine	3.68	Spike	P	0 - 30
2022300	Diuron	7.86	Spike	P	0 - 30
2022300	Fenuron	5.12	Spike	P	0 - 30
2022300	Fluridone	26.1	Spike	P	0 - 30
2022300	Hydrocodone	14.6	Spike	P	0 - 30
2022300	Ibuprofen	2.03	Spike	P	0 - 30
2022300	Imazapyr	1.87	Spike	P	0 - 30
2022300	Imidacloprid	1.27	Spike	P	0 - 30
2022300	Linuron	12.8	Spike	P	0 - 30
2022300	MCPP	15.3	Spike	P	0 - 30
2022300	Naproxen	39.7	Spike	F	0 - 30
2022300	Primidone	11.9	Spike	P	0 - 30
2022300	Pyraclostrobin	17.4	Spike	P	0 - 30
2022300	Triclopyr	1.57	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P351233

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022199	Color (true)	1.32	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P351234

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022286	Color (true)	0.987	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P351405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022280	Total Alkalinity	0.869	Sample	P	0 - 1.6

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
 Batch ID: P351871

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022277	TDS	0.332	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P351872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022330	TDS	0.905	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P351412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022280	Fluoride	0.473	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P351441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022131	Organic Carbon	0.652	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P351540

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022287	Organic Carbon	0.145	Spike	P	0 - 20

Reference Method: SM 5310 B-00
 Batch ID: P352042

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2022278	Organic Carbon	0.551	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 2022299
Field Sample ID: G3SE0001

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	77.0	P	30 - 160

Lab Sample ID: 2022300
Field Sample ID: G3SE0001

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	136	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.9	P	30 - 160
EPA 8321B	Diuron-d6	80.5	P	30 - 160
EPA 8321B	Endothall-d6	135	P	40 - 160
EPA 8321B	Endothall-d6	135	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	72.2	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	72.2	P	40 - 160
EPA 8321B	Ibuprofen-d3	96.5	P	30 - 160
EPA 8321B	Primidone-d5	54.7	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	40 - 160
EPA 8321B	Sucralose-d6	112	P	40 - 160

Lab Sample ID: 2022301
Field Sample ID: G3SE0001

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	62.9	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	45.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	48.5	P	31 - 108
EPA 8276	PCNB	75.0	P	62 - 142

Lab Sample ID: 2022302
Field Sample ID: G3SE0001

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	119	P	71 - 126
EPA 8270D	Terbufos-d10	113	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A86326

Included Lab Sample IDs: 2022276, 2022279, 2022284, 2022285, 2022288

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.7	P/P	90 - 110
O-Phosphate-P	102	100	P/P	90 - 110
O-Phosphate-P	99.5	99.5	P/P	90 - 110
O-Phosphate-P	99.7	99.3	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A86327

Included Lab Sample IDs: 2022274, 2022277, 2022280, 2022281, 2022286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	102	103	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A86332

Included Lab Sample IDs: 2022274, 2022277, 2022280, 2022281, 2022286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.3	98.4	P/P	90 - 115
Color (true)	98.4	98.6	P/P	90 - 115

Reference Method: EPA 8321B

Run ID: A86338

Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	114	147	P/P	60 - 160
Glufosinate	96.1	103	P/P	60 - 160
Glyphosate	86.5	105	P/P	60 - 160

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A86350

Included Lab Sample IDs: 2022275, 2022278, 2022282, 2022283, 2022287

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

Reference Method: EPA 8321B

Run ID: A86357

Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	102	84.6	P/P	60 - 150
Endothall	92.4	102	P/P	60 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A86361

Included Lab Sample IDs: 2022303, 2022304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	102	103	P/P	90 - 110
Iron	105	105	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A86361

Included Lab Sample IDs: 2022303, 2022304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Magnesium	105	105	P/P	90 - 110
Potassium	107	108	P/P	90 - 110
Sodium	106	108	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A86365

Included Lab Sample IDs: 2022278, 2022287

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A86368

Included Lab Sample IDs: 2022275

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A86370

Included Lab Sample IDs: 2022275, 2022282, 2022283

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A86371

Included Lab Sample IDs: 2022278, 2022282, 2022283, 2022287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	92.7	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A86372

Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	113	102	P/P	50 - 150
3-Hydroxycarbofuran	108	104	P/P	50 - 150
Acetaminophen	79.6	81.3	P/P	60 - 160
Aldicarb	110	111	P/P	60 - 150
Aldicarb Sulfone	90.6	90.3	P/P	50 - 150
Aldicarb Sulfoxide	112	118	P/P	50 - 150
Bentazon	114	127	P/P	50 - 160
Carbamazepine	98.0	110	P/P	60 - 160
Carbaryl	113	114	P/P	60 - 150
Carbofuran	121	150	P/P	50 - 150
Fenuron	106	106	P/P	60 - 150
Fluridone	122	123	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A86372
Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hydrocodone	97.6	96.3	P/P	60 - 150
Ibuprofen	107	147	P/P	50 - 160
Imazapyr	117	104	P/P	50 - 150
Imidacloprid	83.5	93.6	P/P	60 - 150
Linuron	110	106	P/P	60 - 150
MCPP	94.5	97.4	P/P	50 - 150
Methiocarb	108	97.9	P/P	50 - 150
Methomyl	97.2	92.8	P/P	50 - 150
Oxamyl	90.0	102	P/P	50 - 150
Primidone	101	90.1	P/P	60 - 150
Propoxur	107	113	P/P	50 - 150
Pyraclostrobin	89.9	87.2	P/P	60 - 150

Reference Method: SM 2320 B-97
Run ID: A86400
Included Lab Sample IDs: 2022274, 2022277, 2022280, 2022281, 2022286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97
Run ID: A86400
Included Lab Sample IDs: 2022274, 2022277, 2022280, 2022281, 2022286

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A86403
Included Lab Sample IDs: 2022275, 2022278, 2022282, 2022283, 2022287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A86406
Included Lab Sample IDs: 2022275

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	93.2	93.0	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A86410
Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	81.2	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00
Run ID: A86450
Included Lab Sample IDs: 2022287

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.8	93.7	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A86517
Included Lab Sample IDs: 2022301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	92.5		P	80 - 120
Toxaphene	101		P	80 - 120

Reference Method: EPA 8270D
Run ID: A86518
Included Lab Sample IDs: 2022301

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	98.9		P	80 - 120
Alpha-Chlordane	98.6		P	80 - 120
Beta-BHC	94.7		P	80 - 120
Carbophenothion	104		P	80 - 120
Chlorothalonil	95.9		P	80 - 120
Cypermethrin	92.3		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	99.8		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	89.7		P	80 - 120
Dicofol	109		P	80 - 120
Dieldrin	98.6		P	80 - 120
Endosulfan I	98.4		P	80 - 120
Endosulfan II	102		P	80 - 120
Endosulfan Sulfate	97.5		P	80 - 120
Endrin	110		P	80 - 120
Endrin Aldehyde	89.3		P	80 - 120
Endrin Ketone	98.1		P	80 - 120
Gamma-BHC	100		P	80 - 120
Gamma-Chlordane	99.7		P	80 - 120
Heptachlor	103		P	80 - 120
Heptachlor Epoxide	98.9		P	80 - 120
Methoxychlor	110		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	102		P	80 - 120
Trifluralin	97.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A86537
Included Lab Sample IDs: 2022303, 2022304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	94.9	95.4	P/P	90 - 110
Cadmium	97.2	97.3	P/P	90 - 110
Chromium	101	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A86537

Included Lab Sample IDs: 2022303, 2022304

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	93.3	92.8	P/P	90 - 110
Lead	104	104	P/P	90 - 110
Nickel	93.8	93.3	P/P	90 - 110
Silver	100	99.3	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A86543

Included Lab Sample IDs: 2022274, 2022277, 2022280, 2022281, 2022286

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	102	102	P/P	90 - 110
Chloride	102	103	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	102	103	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A86629

Included Lab Sample IDs: 2022278, 2022282, 2022283

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

Reference Method: EPA 8321B

Run ID: A86633

Included Lab Sample IDs: 2022300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	107	102	P/P	60 - 150
Naproxen	95.3	82.5	P/P	50 - 160
Triclopyr	77.7	83.4	P/P	50 - 160

Reference Method: EPA 8270D

Run ID: A86662

Included Lab Sample IDs: 2022302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.2		P	80 - 120
Alachlor	99.8		P	80 - 120
Ametryn	93.1		P	80 - 120
Atrazine Desethyl	87.7		P	80 - 120
Azinphos Methyl	94.3		P	80 - 120
Bromacil	95.8		P	80 - 120
Butylate	93.1		P	80 - 120
Chlorpyrifos Ethyl	94.2		P	80 - 120
Chlorpyrifos Methyl	97.9		P	80 - 120
Cyanazine	82.1		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	97.4		P	80 - 120
Disulfoton	99.1		P	80 - 120
EPTC	94.5		P	80 - 120
Ethion	94.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A86662

Included Lab Sample IDs: 2022302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ethoprop	100		P	80 - 120
Fenamiphos	88.6		P	80 - 120
Fipronil	96.2		P	80 - 120
Fipronil Sulfide	96.4		P	80 - 120
Fipronil Sulfone	95.1		P	80 - 120
Fonofos	98.6		P	80 - 120
Hexazinone	95.7		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	97.1		P	80 - 120
Metolachlor	100		P	80 - 120
Metribuzin	90.3		P	80 - 120
Mevinphos	95.6		P	80 - 120
Molinate	91.7		P	80 - 120
Norflurazon	94.5		P	80 - 120
Parathion Ethyl	94.1		P	80 - 120
Parathion Methyl	95.3		P	80 - 120
Pendimethalin	96.1		P	80 - 120
Phorate	97.5		P	80 - 120
Prometon	99.1		P	80 - 120
Prometryn	96.5		P	80 - 120
Simazine	94.7		P	80 - 120
Terbufos	96.2		P	80 - 120
Terbutylazine	96.6		P	80 - 120

Reference Method: EPA 8270D

Run ID: A86671

Included Lab Sample IDs: 2022302

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	96.8		P	80 - 120

* 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 180.1 Rev. 2.0	Turbidity							5.92	
EPA 200.7 Rev. 4.4	Calcium	111		113	112	111			0.437
	Iron	109		111	110	111			0.815
	Magnesium	114		117	114	114			0.155
	Potassium	111		108	109	107			1.75
	Sodium	112		111	108	107			0.873
	Zinc	104		105	106	103			3.54
EPA 200.8 Rev. 5.4	Arsenic	101		104	99.9	100			0.356
	Cadmium	103		106	103	105			2.33
	Chromium	106		111	111	107			3.66
	Copper	96.7		99.7	96.4	96.6			0.165
	Lead	104		106	105	104			0.626
	Nickel	98.7		102	100	97.8			2.19
	Silver	104		105	104	104			0.0735
EPA 300.0 Rev. 2.1	Chloride	99.4		96.8	99.3			0.214	
	Sulfate	98.4		98.5	96.4				
EPA 350.1 Rev. 2.0	Ammonia-N	101		102	99.9				1.89
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106		95.6	101				2.77
	Kjeldahl Nitrogen	99.1		98.9	97.8				0.702
EPA 353.2 Rev. 2.0	NO2NO3-N	102		101					0.227
	NO2NO3-N	101		101					0.474
EPA 365.1 Rev. 2.0	Total-P	102		101	97.3				3.76
	Total-P	103		99.0	100				1.28
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.3		96.6	96.6				0.0
EPA 8270D	Acetochlor	98.8	102	97.1	104		3.27		6.64
	Alachlor	97.5	100	91.1	106		2.93		15.1
	Aldrin	50.8	50.8	61.3	62.1		0.0896		1.31
	Alpha-BHC	90.0	85.3	104	91.5		5.40		12.4
	Alpha-Chlordane	83.2	75.0	73.5	83.3		10.3		12.5
	Ametryn	99.7	99.0	78.3	100		0.690		12.4
	Atrazine	106	106				0.150		4.05
	Atrazine Desethyl	71.5	88.9	116	148		21.7		24.2
	Azinphos Methyl	125	129	135	127		2.94		6.31
	Beta-BHC	101	95.5	54.6	78.1		5.42		35.5
	Bromacil	87.4	94.8	83.3	109		8.18		26.7
	Butylate	54.8	38.9	46.2	37.6		33.9		20.4
	Carbophenothion	76.7	74.1	84.5	23.2		3.46		114
	Chlorothalonil	67.1	73.7	72.4	90.6		9.39		22.3
	Chlorpyrifos Ethyl	98.0	98.6	96.4	93.4		0.646		3.17
	Chlorpyrifos Methyl	94.3	93.5	100	98.3		0.921		1.94
	Cyanazine	136	155	142	191		13.2		29.6
	Cypermethrin	80.0	84.6	73.1	56.2		5.55		26.2
	DDD-p,p'	89.5	81.9	89.4	68.5		8.77		26.4
	DDE-p,p'	80.0	73.5	80.7	85.6		8.57		5.84
	DDT-p,p'	88.9	77.4	108	92.9		13.8		15.0
	Delta-BHC	119	100	100	98.1		16.9		2.29
	Demeton	85.7	74.2	86.6	83.8		14.4		3.28
	Diazinon	115	109	117	123		4.88		5.28
	Dicofol	90.6	89.0	113	110		1.80		2.66
	Dieldrin	91.4	82.8	79.3	88.3		9.81		10.7
	Disulfoton	98.2	91.7	102	103		6.82		0.925
	Endosulfan I	88.9	87.5	88.3	91.6		1.56		3.66
	Endosulfan II	87.7	79.3	69.2	91.6		10.0		27.8
	Endosulfan Sulfate	95.2	86.3	71.4	89.5		9.82		22.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						SMP	MS
EPA 8270D	Endrin	95.0	86.5	81.1	99.2	9.33	20.1
	Endrin Aldehyde	87.1	78.4	62.2	86.0	10.5	32.0
	Endrin Ketone	97.2	87.7	80.0	96.2	10.3	18.4
	EPTC	57.8	45.3	47.9	32.9	24.3	37.0
	Ethion	88.5	93.1	54.7	93.3	5.04	52.2
	Ethoprop	89.5	77.0	104	96.8	15.0	6.73
	Fenamiphos	91.4	101	79.7	92.5	10.4	14.9
	Fipronil	99.4	106	71.2	103	6.50	32.7
	Fipronil Sulfide	84.3	88.8	65.5	86.2	5.24	23.3
	Fipronil Sulfone	82.3	85.8	44.2	85.5	4.22	42.6
	Fonofos	97.2	89.4	103	96.7	8.36	5.89
	Gamma-BHC	105	91.9	101	102	12.9	1.00
	Gamma-Chlordane	78.4	70.9	74.2	80.6	10.1	8.25
	Heptachlor	67.6	65.2	75.1	74.1	3.62	1.43
	Heptachlor Epoxide	88.7	81.0	80.3	85.6	9.06	6.40
	Hexazinone	103	98.2			4.43	13.3
	Malathion	99.5	105	104	97.9	5.64	6.15
	Metalaxyl	100	103	82.8	104	3.01	16.1
	Methoxychlor	97.9	90.7	112	98.6	7.66	13.1
	Metolachlor	94.6	99.6	86.6	95.2	5.11	7.33
	Metribuzin	125	144	215	220	14.0	1.76
	Mevinphos	84.7	73.2	94.2	96.4	14.6	2.30
	Mirex	64.5	61.3	76.3	77.2	5.16	1.12
	Molinate	56.8	48.4	50.9	41.6	16.0	19.9
	Norflurazon	91.8	96.7	23.7	80.6	5.23	46.2
	Parathion Ethyl	96.9	95.7	104	107	1.22	2.75
	Parathion Methyl	113	103	116	122	9.54	4.49
	Pendimethalin	120	116	127	126	3.88	0.553
	Permethrin	78.6	75.1	67.8	82.9	4.59	20.1
	Phorate	65.5	69.7	79.9	76.4	6.21	4.52
	Prometon	115	109	106	120	5.76	12.2
	Prometryn	98.2	105	95.1	105	6.37	10.2
	Simazine	97.7	96.6	110	113	1.09	2.83
	Terbufos	100	91.9	113	107	8.59	5.06
	Terbutylazine	95.0	104	102	112	8.70	8.99
	Trifluralin	78.1	72.3	90.2	84.0	7.76	7.15
EPA 8276	Chlordane	91.3	81.9	79.7	92.1	10.8	14.4
	Toxaphene	70.6	68.0	60.1	60.4	3.81	0.487
EPA 8321B	2,4-D	102					18.1
	3-Hydroxycarbofuran	89.8		52.5	57.9		9.77
	Acesulfame K	87.1		23.2	27.8		18.3
	Acetaminophen	92.7		107	103		3.91
	Aldicarb	107		47.0	46.0		2.19
	Aldicarb Sulfone	85.9		51.0	58.7		14.0
	Aldicarb Sulfoxide	106		25.8	26.2		1.29
	AMPA	107		81.7	81.9		0.127
	Bentazon	110		106	121		9.94
	Carbamazepine	118		97.4	93.9		3.68
	Carbaryl	85.5		70.3	57.3		20.3
	Carbofuran	108		117	120		2.09
	Diuron	116		54.3	60.8		7.86
	Endothall	96.6		131	154		16.3
	Fenuron	108		45.8	43.5		5.12
	Fluridone	107		77.3	116		26.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Glufosinate	94.5	70.2	78.7		11.4
	Glyphosate	82.8	61.5	59.2		1.12
	Hydrocodone	88.7	76.8	66.4		14.6
	Ibuprofen	90.8	91.3	93.1		2.03
	Imazapyr	107	92.8	106		1.87
	Imidacloprid	109	96.7	95.0		1.27
	Linuron	86.3	57.3	65.1		12.8
	MCPP	113	108	127		15.3
	Methiocarb	72.5	52.4	61.2		15.4
	Methomyl	77.3	32.4	38.1		16.2
	Naproxen	137	69.0	103		39.7
	Oxamyl	94.9	55.7	62.1		10.7
	Primidone	107	62.3	55.3		11.9
	Propoxur	91.0	57.4	57.7		0.453
	Pyraclostrobin	77.1	77.9	92.7		17.4
	Sucralose	93.8	102	97.4		4.29
	Triclopyr	136	127	129		1.57
SM 2120 B	Color (true)	95.7			1.32	
	Color (true)	97.4			0.987	
SM 2320 B-97	Total Alkalinity	103			0.869	
SM 2540 C-97	TDS				0.332	
	TDS				0.905	
SM 4500 F-C-97	Fluoride	98.7	97.5	98.2		0.473
SM 5310 B-00	Organic Carbon	92.6	98.2			0.652
	Organic Carbon	94.6	95.8	95.6		0.145
	Organic Carbon	101	97.6	98.4		0.551

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2022274, 2022277, 2022280, 2022281, 2022286
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2022303, 2022304
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2022303, 2022304
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2022274, 2022277, 2022280, 2022281, 2022286
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2022274, 2022277, 2022280, 2022281, 2022286
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2022275, 2022278, 2022282, 2022283, 2022287
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2022275, 2022278, 2022282, 2022283, 2022287
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2022275, 2022278, 2022282, 2022283, 2022287
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2022275, 2022278, 2022282, 2022283, 2022287
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2022276, 2022279, 2022284, 2022285, 2022288
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2022301
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2022302
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2022301
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2022299

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2022300
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2022300
SM 2120 B / E31780	True Color measured at 450 nm	2022274, 2022277, 2022280, 2022281, 2022286
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2022274, 2022277, 2022280, 2022281, 2022286
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2022274, 2022277, 2022280, 2022281, 2022286
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2022274, 2022277, 2022280, 2022281, 2022286
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2022274, 2022277, 2022280, 2022281, 2022286
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2022275, 2022278, 2022282, 2022283, 2022287

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	09/06/2018			09/06/2018 16:48	Megan Treadwell	2022274, 2022277, 2022280, 2022281, 2022286
EPA 200.7 Rev. 4.4	09/06/2018	09/06/2018 17:15	Elliott D. Healy	09/07/2018 23:48	Martin Acosta	2022303
	09/06/2018	09/06/2018 17:15	Elliott D. Healy	09/07/2018 23:56	Martin Acosta	2022304
EPA 200.8 Rev. 5.4	09/06/2018	09/06/2018 17:15	Elliott D. Healy	09/14/2018 23:26	Allison Taylor	2022303
	09/06/2018	09/06/2018 17:15	Elliott D. Healy	09/14/2018 23:36	Allison Taylor	2022304
EPA 300.0 Rev. 2.1	09/06/2018			09/13/2018 21:01	Lipi Saha	2022280
	09/06/2018			09/13/2018 23:13	Lipi Saha	2022274
	09/06/2018			09/13/2018 23:26	Lipi Saha	2022277
	09/06/2018			09/13/2018 23:38	Lipi Saha	2022281
	09/06/2018			09/13/2018 23:50	Lipi Saha	2022286
EPA 350.1 Rev. 2.0	09/06/2018			09/07/2018 12:23	Ping Hua	2022275
	09/06/2018			09/07/2018 12:27	Ping Hua	2022278
	09/06/2018			09/07/2018 12:29	Ping Hua	2022282
	09/06/2018			09/07/2018 12:30	Ping Hua	2022283
	09/06/2018			09/07/2018 12:32	Ping Hua	2022287
EPA 351.2 Rev. 2.0	09/06/2018	09/07/2018 09:40	Adrian Shelby	09/10/2018 11:13	Joseph Suarez	2022275
	09/06/2018	09/07/2018 09:40	Adrian Shelby	09/10/2018 13:59	Joseph Suarez	2022278
	09/06/2018	09/07/2018 09:40	Adrian Shelby	09/10/2018 14:00	Joseph Suarez	2022282
	09/06/2018	09/07/2018 09:40	Adrian Shelby	09/10/2018 14:05	Joseph Suarez	2022283
	09/06/2018	09/07/2018 09:40	Adrian Shelby	09/10/2018 14:06	Joseph Suarez	2022287
EPA 353.2 Rev. 2.0	09/06/2018			09/11/2018 12:55	Lauren Bottorf	2022275
	09/06/2018			09/11/2018 13:02	Lauren Bottorf	2022278
	09/06/2018			09/11/2018 13:13	Lauren Bottorf	2022282
	09/06/2018			09/11/2018 13:14	Lauren Bottorf	2022283
	09/06/2018			09/11/2018 13:15	Lauren Bottorf	2022287
EPA 365.1 Rev. 2.0	09/06/2018	09/07/2018 11:52	Sima Feizi	09/10/2018 10:13	Beverly Y. Sanders	2022278
	09/06/2018	09/07/2018 11:52	Sima Feizi	09/10/2018 10:18	Beverly Y. Sanders	2022287
	09/06/2018	09/07/2018 11:52	Sima Feizi	09/10/2018 13:09	Beverly Y. Sanders	2022275
	09/06/2018	09/07/2018 11:52	Sima Feizi	09/10/2018 13:13	Beverly Y. Sanders	2022282
	09/06/2018	09/07/2018 11:52	Sima Feizi	09/10/2018 13:14	Beverly Y. Sanders	2022283
EPA 365.1 Rev. 2.0 dissolved	09/06/2018			09/06/2018 15:59	Julia Storbeck	2022276
	09/06/2018			09/06/2018 16:31	Julia Storbeck	2022279
	09/06/2018			09/06/2018 16:43	Julia Storbeck	2022284
	09/06/2018			09/06/2018 16:49	Julia Storbeck	2022285, 2022288
EPA 8270D	09/06/2018	09/07/2018 08:00	Fe-Val Siddell	09/12/2018 21:41	Dinesh Mishra	2022301
	09/06/2018	09/07/2018 14:30	Rasheda Ghaffari	09/13/2018 16:58	Marek Topolski	2022302
	09/06/2018	09/07/2018 14:30	Rasheda Ghaffari	09/14/2018 17:13	Marek Topolski	2022302
EPA 8276	09/06/2018	09/07/2018 08:00	Fe-Val Siddell	09/12/2018 02:45	Arthur Maknenko	2022301
EPA 8321B	09/06/2018	09/06/2018 15:00	Mohammad Ghaffari	09/07/2018 10:31	Mohammad Ghaffari	2022300

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	09/06/2018	09/06/2018 15:00	Mohammad Ghaffari	09/09/2018 20:44	Mohammad Ghaffari	2022300
	09/06/2018	09/06/2018 15:00	Mohammad Ghaffari	09/10/2018 22:17	Mohammad Ghaffari	2022300
	09/06/2018	09/07/2018 09:00	Hoor Shaik	09/08/2018 04:45	Juyoung Kim	2022299
	09/06/2018	09/07/2018 09:00	Hoor Shaik	09/08/2018 06:29	Juyoung Kim	2022300
	09/06/2018	09/07/2018 09:00	Hoor Shaik	09/09/2018 03:48	Juyoung Kim	2022300
	09/06/2018	09/07/2018 09:00	Hoor Shaik	09/21/2018 01:02	Mohammad Ghaffari	2022300
	09/06/2018	09/07/2018 09:00	Hoor Shaik	09/21/2018 03:21	Mohammad Ghaffari	2022300
SM 2120 B	09/06/2018			09/06/2018 15:28	DeAsia Armster	2022274
	09/06/2018			09/06/2018 15:29	DeAsia Armster	2022277
	09/06/2018			09/06/2018 15:33	DeAsia Armster	2022280
	09/06/2018			09/06/2018 15:34	DeAsia Armster	2022281
	09/06/2018			09/06/2018 15:35	DeAsia Armster	2022286
SM 2320 B-97	09/06/2018			09/11/2018 04:58	Dale L. Simmons	2022280
	09/06/2018			09/11/2018 06:52	Dale L. Simmons	2022274
	09/06/2018			09/11/2018 07:03	Dale L. Simmons	2022277
	09/06/2018			09/11/2018 07:14	Dale L. Simmons	2022281
	09/06/2018			09/11/2018 07:24	Dale L. Simmons	2022286
SM 2540 C-97	09/06/2018			09/10/2018 13:20	DeAsia Armster	2022274, 2022277, 2022280, 2022281, 2022286
SM 2540 D-97	09/06/2018			09/10/2018 13:20	DeAsia Armster	2022274, 2022277, 2022280, 2022281, 2022286
SM 4500 F-C-97	09/06/2018			09/11/2018 04:51	Dale L. Simmons	2022280
	09/06/2018			09/11/2018 06:52	Dale L. Simmons	2022274
	09/06/2018			09/11/2018 07:03	Dale L. Simmons	2022277
	09/06/2018			09/11/2018 07:14	Dale L. Simmons	2022281
	09/06/2018			09/11/2018 07:24	Dale L. Simmons	2022286
SM 5310 B-00	09/06/2018			09/11/2018 12:59	Megan Treadwell	2022275
	09/06/2018			09/11/2018 20:13	Megan Treadwell	2022287
	09/06/2018			09/19/2018 08:26	Megan Treadwell	2022278
	09/06/2018			09/19/2018 09:15	Megan Treadwell	2022282
	09/06/2018			09/19/2018 09:52	Megan Treadwell	2022283