

Chemical Analysis Report

SW-DIST-2020-02-25-03

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

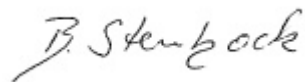
Event Description: **Whitaker Bayou**
Request ID: **RQ-2020-02-24-07**
Customer: **SW-DIST**
Project ID: **SMP**

Send Reports to:
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13051 N. Telecom Parkway
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 18-MAR-2020 15:45



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 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: Whitaker Bayou @ Ringling College of Art

Collection Date/Time: 02/24/2020 14:00

Field ID: G3SW0060

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes		
2160591	EPA 180.1 Rev. 2.0	Turbidity	12		NTU	P379641			
	EPA 300.0 Rev. 2.1	Bromide	61		mg Br/L	P380275			
	SM 2320 B-2011	Total Alkalinity	136		mg CaCO3/L	P379903			
	SM 2540 D-2011	TSS	20		mg/L	P379977			
	SM 4500 F-C-2011	Fluoride	1.2		mg F/L	P380683			
2160592	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P379909			
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P379876			
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P380209			
	EPA 365.1 Rev. 2.0	Total-P	0.24		mg P/L	P380039			
	SM 5310 B-2011	Organic Carbon	4.7		mg C/L	P379713			
2160593	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.044	Q	mg P/L	P380169			
2160598	EPA 8321B	Aldicarb	0.020	U	ug/L	P379532			
		Aldicarb Sulfone	0.0020	U	ug/L	P379532			
		Aldicarb Sulfoxide	0.0020	U	ug/L	P379532			
		Carbaryl	0.0020	U	ug/L	P379532			
		Carbofuran	0.0020	U	ug/L	P379532			
		3-Hydroxycarbofuran	0.0020	U	ug/L	P379532			
		Methiocarb	0.0020	U	ug/L	P379532			
		Methomyl	0.0020	U	ug/L	P379532			
		Oxamyl	0.0020	U	ug/L	P379532			
		Propoxur	0.0020	U	ug/L	P379532			
		2160599		2,4-D	0.0020	U	ug/L	P379716	
				Acesulfame K**	0.10	UJ	ug/L	P379709	SUR
AMPA**	1.0			U	ug/L	P379709			
Sucralose**	1.1				ug/L	P379709			
Acetaminophen**	0.0080			U	ug/L	P379716			
Acetamiprid**	0.0043			I	ug/L	P379716			
Endothall**	0.25			UJ	ug/L	P379709	SUR		
Glufosinate**	1.0			U	ug/L	P379709			
Glyphosate**	1.0			U	ug/L	P379709			
Afidopyropen**	0.0020			UJ	ug/L	P379716			
Bentazon	0.0026			I	ug/L	P379716			
Benzovindiflupyr**	0.0020			UJ	ug/L	P379716			
Carbamazepine**	0.0066				ug/L	P379716			
Clothianidin**	0.0020			U	ug/L	P379716			
Dinotefuran**	0.0088				ug/L	P379716			
Diuron	0.0020			U	ug/L	P379716			
Fenuron	0.016			U	ug/L	P379716			
Fluridone**	8.0E-04			U	ug/L	P379716			
Imazapyr**	0.025				ug/L	P379716			
Hydrocodone**	0.0020			U	ug/L	P379716			
Ibuprofen**	0.020	U	ug/L	P379716					
Imidacloprid	0.0045	I	ug/L	P379716					

Field ID: G3SW0060

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2160599	EPA 8321B	Linuron	0.0040	U	ug/L	P379716	
		Mandestrobin**	0.0020	UJ	ug/L	P379716	
		MCPP	0.0020	UJ	ug/L	P379716	LCS, MS
		Naproxen**	0.0080	U	ug/L	P379716	
		Primidone**	0.013	I	ug/L	P379716	
		Pyraclostrobin**	0.0020	U	ug/L	P379716	
		Thiamethoxam**	0.0020	U	ug/L	P379716	
		Tolfenpyrad**	0.0020	U	ug/L	P379716	
		Triclopyr**	0.0040	U	ug/L	P379716	
2160600	EPA 8270E	Aldrin	4.2	U	ng/L	P379650	
		Alpha-BHC	2.1	U	ng/L	P379650	
		Alpha-Chlordane	1.0	U	ng/L	P379650	
		Beta-BHC	10	U	ng/L	P379650	
		Beta-Cyfluthrin**	16	U	ng/L	P379650	
		Bifenthrin**	4.2	U	ng/L	P379650	
		Delta-BHC	8.4	UJ	ng/L	P379650	CCV
		Gamma-BHC	8.4	U	ng/L	P379650	
		Chlorothalonil	2.1	UJ	ng/L	P379650	CCV
		Cis-Nonachlor**	1.0	U	ng/L	P379650	
		Cypermethrin	21	U	ng/L	P379650	
		Dacthal**	1.0	U	ng/L	P379650	
		DDD-p,p'	6.3	U	ng/L	P379650	
		DDE-p,p'	6.3	U	ng/L	P379650	
		DDT-p,p'	7.3	U	ng/L	P379650	
		Dicofol	31	U	ng/L	P379650	
		Dieldrin	4.2	U	ng/L	P379650	
		Endosulfan I	4.2	U	ng/L	P379650	
		Endosulfan II	4.2	U	ng/L	P379650	
		Endosulfan Sulfate	2.1	U	ng/L	P379650	
		Endrin	2.1	U	ng/L	P379650	
		Endrin Aldehyde	2.1	U	ng/L	P379650	
		Endrin Ketone	2.1	U	ng/L	P379650	
		Ethalfuralin**	3.1	U	ng/L	P379650	
		Gamma-Chlordane	1.0	U	ng/L	P379650	
		Heptachlor	1.6	U	ng/L	P379650	
		Heptachlor Epoxide	2.1	U	ng/L	P379650	
		Hexachlorobenzene	2.1	U	ng/L	P379650	
		Lambda-Cyhalothrin**	16	U	ng/L	P379650	
		Methoxychlor	4.2	U	ng/L	P379650	
		Mirex	2.1	U	ng/L	P379650	
		Permethrin	10	U	ng/L	P379650	
		Phenothrin**	31	U	ng/L	P379650	
		Prallethrin**	31	U	ng/L	P379650	
		Trans-Nonachlor**	1.0	U	ng/L	P379650	
		Trifluralin	2.6	U	ng/L	P379650	

Field ID: G3SW0060

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2160600	EPA 8276	Chlordane	11	I	ng/L	P379650	
		Toxaphene	31	U	ng/L	P379650	
2160601	EPA 8270E	Acetochlor	0.23	U	ng/L	P379639	
		Alachlor	0.23	U	ng/L	P379639	
		Ametryn	0.56	U	ng/L	P379639	
		Atrazine	9.6		ng/L	P379639	
		Atrazine Desethyl	1.4	U	ng/L	P379639	
		Azinphos Methyl	4.7	U	ng/L	P379639	
		Bromacil	0.47	U	ng/L	P379639	
		Butylate	0.37	UJ	ng/L	P379639	RPD
		Carbophenothion	0.47	U	ng/L	P379639	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P379639	
		Chlorpyrifos Methyl	0.047	U	ng/L	P379639	
		Cyanazine	3.0	U	ng/L	P379639	
		Demeton	6.5	U	ng/L	P379639	
		Diazinon	0.12	U	ng/L	P379639	
		Dimethenamid**	0.093	U	ng/L	P379639	
		Disulfoton	0.47	U	ng/L	P379639	
		Dithiopyr**	0.093	U	ng/L	P379639	
		EPTC	1.2	UJ	ng/L	P379639	LCS, RPD
		Ethion	0.14	U	ng/L	P379639	
		Ethoprop	0.093	U	ng/L	P379639	
		Fenamiphos	0.47	U	ng/L	P379639	
		Fipronil	0.23	U	ng/L	P379639	
		Fipronil Desulfinyl**	0.12	U	ng/L	P379639	
		Fipronil Sulfide	0.14	U	ng/L	P379639	
		Fipronil Sulfone	0.17	I	ng/L	P379639	
		Flumioxazin**	1.6	U	ng/L	P379639	
		Fonofos	0.19	U	ng/L	P379639	
		Hexazinone	0.47	U	ng/L	P379639	
		Imazalil**	0.70	U	ng/L	P379639	
		Malathion	0.33	U	ng/L	P379639	
		Metalaxyl	0.70	U	ng/L	P379639	
		Metolachlor	0.47	U	ng/L	P379639	
		Metribuzin	3.0	U	ng/L	P379639	
		Mevinphos	0.47	U	ng/L	P379639	
		Molinate	0.28	U	ng/L	P379639	
		Norflurazon	0.47	U	ng/L	P379639	
		Oxadiazon**	0.41		ng/L	P379639	
		Parathion Ethyl	0.23	U	ng/L	P379639	
		Parathion Methyl	0.51	U	ng/L	P379639	
		Pendimethalin	0.93	U	ng/L	P379639	
		Phorate	0.23	U	ng/L	P379639	
		Prodiamine**	0.16	U	ng/L	P379639	
		Prometon	0.84	U	ng/L	P379639	

Field ID: G3SW0060

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2160601	EPA 8270E	Prometryn	0.19	U	ng/L	P379639	
		Pronamide**	0.14	U	ng/L	P379639	
		Propiconazole**	0.47	U	ng/L	P379639	
		Simazine	0.47	U	ng/L	P379639	
		Sulfentrazone**	0.51	IJ	ng/L	P379639	LCS
		Tebuconazole**	0.75	I	ng/L	P379639	
		Terbufos	0.093	U	ng/L	P379639	
		Terbutylazine	0.40	U	ng/L	P379639	
2160602	EPA 200.7 Rev. 4.4	Iron	120	U	ug/L	P379691	
		Magnesium	1.13E+03		mg/L	P379691	
		Zinc	20	U	ug/L	P379691	
	EPA 200.8 Rev. 5.4	Aluminum	144		ug/L	P379691	
		Antimony	0.20	U	ug/L	P379691	
		Arsenic	2.61		ug/L	P379691	
		Cadmium	0.080	U	ug/L	P379691	
		Chromium	1.6	U	ug/L	P379691	
		Copper	1.6	U	ug/L	P379691	
		Lead	0.80	U	ug/L	P379691	
		Nickel	2.0	U	ug/L	P379691	
		Selenium	0.80	U	ug/L	P379691	
		Silver	0.10	U	ug/L	P380290	
		Thallium	1.0	U	ug/L	P379691	

Ref. Method and Comment:

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The sample was reanalyzed out of holding time because of analytical difficulties.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for some analytes could not be assessed due to high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8321B: MDL for some parameters elevated due to matrix interference. Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

EPA 8270E: MS accuracy for some parameters not assessed due to high content of these parameters in the sample spiked. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P379641

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P379691

Component	Result	Code	Units
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379691

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380290

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380275

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379909

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379876

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P380209

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P380039

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P380169

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

Reference Method: EPA 8270E
Batch ID: P379639

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.50	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Flumioxazin	1.8	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.75	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	3.2	U	ng/L
Mevinphos	0.50	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P379639

Component	Result	Code	Units
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Propiconazole	0.50	U	ng/L
Simazine	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270E
Batch ID: P379650

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	10	U	ng/L
Beta-Cyfluthrin	15	U	ng/L
Bifenthrin	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
Dacthal	1.0	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	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
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Lambda-Cyhalothrin	15	U	ng/L
Methoxychlor	4.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P379650

Component	Result	Code	Units
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Phenothrin	30	U	ng/L
Prallethrin	30	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8276
Batch ID: P379650

Component	Result	Code	Units
Chlordane	5.0	U	ng/L
Toxaphene	30	U	ng/L

Reference Method: EPA 8321B
Batch ID: P379532

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P379709

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	0.014	I	ug/L

Reference Method: EPA 8321B
Batch ID: P379716

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyrophen	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P379716

Component	Result	Code	Units
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P379903

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

Reference Method: SM 2540 D-2011

Batch ID: P379977

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011

Batch ID: P380683

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011

Batch ID: P379713

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: P379691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	108		P	85 - 115
Magnesium	103		P	85 - 115
Zinc	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379691

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	93.4		P	85 - 115
Antimony	93.5		P	85 - 115
Arsenic	91.2		P	85 - 115
Cadmium	92.4		P	85 - 115
Chromium	93.8		P	85 - 115
Copper	95.0		P	85 - 115
Lead	91.8		P	85 - 115
Nickel	93.5		P	85 - 115
Selenium	89.1		P	85 - 115
Thallium	100		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	99.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380275

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379909

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.3		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P379876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	100		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P380209

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P380039

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: P380169

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	100		P	90 - 110

Reference Method: EPA 8270E
Batch ID: P379639

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.1	89.6	P/P	71 - 122
Alachlor	91.9	91.9	P/P	70 - 121
Ametryn	99.0	96.5	P/P	49 - 137
Atrazine	99.5	100	P/P	76 - 125
Atrazine Desethyl	76.5	82.9	P/P	31 - 144
Azinphos Methyl	130	134	P/P	67 - 150
Bromacil	65.1	72.2	P/P	36 - 121
Butylate	33.1	64.7	P/P	33 - 88.0
Carbophenothion	105	108	P/P	50 - 150
Chlorpyrifos Ethyl	98.7	102	P/P	73 - 117
Chlorpyrifos Methyl	99.2	98.1	P/P	68 - 121
Cyanazine	103	98.8	P/P	20 - 250
Demeton	77.1	87.3	P/P	30 - 123
Diazinon	89.2	88.2	P/P	70 - 128
Dimethenamid	88.3	90.2	P/P	66 - 122
Disulfoton	81.6	88.8	P/P	46 - 124
Dithiopyr	88.8	88.3	P/P	69 - 122
EPTC	20.7	53.8	F/P	31 - 90.0
Ethion	102	108	P/P	45 - 135
Ethoprop	84.8	88.5	P/P	59 - 118
Fenamiphos	99.4	99.3	P/P	30 - 136
Fipronil	87.8	91.9	P/P	57 - 127
Fipronil Desulfinyl	92.4	93.9	P/P	51 - 122
Fipronil Sulfide	85.8	82.3	P/P	57 - 119
Fipronil Sulfone	87.0	92.4	P/P	51 - 119
Flumioxazin	82.6	99.5	P/P	70 - 200
Fonofos	91.0	91.1	P/P	60 - 120
Hexazinone	100	101	P/P	57 - 142
Imazalil	83.6	85.0	P/P	50 - 150
Malathion	109	112	P/P	67 - 128
Metalaxyl	95.1	94.6	P/P	21 - 148
Metolachlor	89.7	91.0	P/P	70 - 120
Metribuzin	136	124	P/P	20 - 253
Mevinphos	87.0	93.1	P/P	47 - 116
Molinate	56.4	72.9	P/P	41 - 99.0
Norflurazon	90.3	89.9	P/P	54 - 127
Oxadiazon	91.7	90.7	P/P	65 - 122
Parathion Ethyl	93.1	91.9	P/P	71 - 113
Parathion Methyl	105	104	P/P	73 - 129
Pendimethalin	89.3	90.8	P/P	63 - 130

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P379639

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Phorate	83.9	78.3	P/P	48 - 118
Prodiamine	52.5	57.1	P/P	20 - 144
Prometon	88.1	93.0	P/P	53 - 120
Prometryn	91.3	90.9	P/P	63 - 119
Pronamide	96.4	102	P/P	50 - 150
Propiconazole	86.8	88.4	P/P	50 - 150
Simazine	95.6	100	P/P	77 - 129
Sulfentrazone	20.0	21.1	F/F	50 - 150
Tebuconazole	63.7	66.9	P/P	20 - 118
Terbufos	88.5	92.4	P/P	61 - 119
Terbutylazine	92.5	92.4	P/P	75 - 119

Reference Method: EPA 8270E
Batch ID: P379650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	61.1	64.7	P/P	20 - 87.0
Alpha-BHC	91.0	85.9	P/P	65 - 142
Alpha-Chlordane	85.5	86.4	P/P	58 - 106
Beta-BHC	100	98.7	P/P	65 - 179
Beta-Cyfluthrin	97.2	92.5	P/P	50 - 150
Bifenthrin	84.9	87.0	P/P	38 - 128
Chlorothalonil	126	97.2	P/P	20 - 214
Cis-Nonachlor	91.1	90.1	P/P	56 - 113
Cypermethrin	95.5	90.4	P/P	37 - 130
Dacthal	90.2	90.1	P/P	50 - 150
DDD-p,p'	96.5	95.0	P/P	66 - 119
DDE-p,p'	82.0	83.1	P/P	53 - 108
DDT-p,p'	75.8	76.4	P/P	57 - 133
Delta-BHC	139	125	P/P	68 - 187
Dicofol	82.0	87.8	P/P	66 - 123
Dieldrin	92.9	96.3	P/P	65 - 111
Endosulfan I	99.0	91.4	P/P	65 - 115
Endosulfan II	107	102	P/P	68 - 133
Endosulfan Sulfate	100	97.1	P/P	62 - 127
Endrin	94.8	99.2	P/P	64 - 122
Endrin Aldehyde	79.0	80.5	P/P	61 - 132
Endrin Ketone	98.4	100	P/P	66 - 120
Ethalfuralin	74.1	74.0	P/P	57 - 127
Gamma-BHC	110	101	P/P	71 - 158
Gamma-Chlordane	80.2	80.3	P/P	53 - 106
Heptachlor	68.9	68.6	P/P	45 - 96.0
Heptachlor Epoxide	87.6	87.4	P/P	64 - 109
Hexachlorobenzene	64.8	65.1	P/P	46 - 103
Lambda-Cyhalothrin	91.0	85.1	P/P	50 - 150
Methoxychlor	90.7	91.4	P/P	69 - 149
Mirex	65.7	66.2	P/P	31 - 90.0
Permethrin	74.3	74.8	P/P	41 - 108
Phenothrin	62.5	63.5	P/P	50 - 150
Prallethrin	73.1	69.5	P/P	40 - 140
Trans-Nonachlor	83.8	84.2	P/P	50 - 107
Trifluralin	74.8	75.0	P/P	58 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P379650

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	92.2	92.2	P/P	47 - 119
Toxaphene	77.3	83.3	P/P	41 - 112

Reference Method: EPA 8321B
Batch ID: P379532

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	75.7		P	30 - 160
Aldicarb	131		P	30 - 160
Aldicarb Sulfone	86.0		P	30 - 160
Aldicarb Sulfoxide	85.8		P	30 - 160
Carbaryl	60.8		P	30 - 160
Carbofuran	65.3		P	30 - 160
Methiocarb	61.8		P	30 - 160
Methomyl	76.1		P	30 - 160
Oxamyl	76.9		P	30 - 160
Propoxur	65.5		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P379709

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	119		P	40 - 150
AMPA	126		P	40 - 150
Endothall	87.3		P	40 - 150
Glufosinate	133		P	40 - 150
Glyphosate	120		P	40 - 140
Sucralose	107		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P379716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	125		P	30 - 160
Acetaminophen	81.6		P	30 - 160
Acetamiprid	89.8		P	30 - 160
Afidopyropen	83.0		P	30 - 160
Bentazon	102		P	30 - 160
Benzovindiflupyr	77.0		P	30 - 160
Carbamazepine	92.2		P	30 - 160
Clothianidin	61.7		P	30 - 160
Dinotefuran	74.3		P	30 - 160
Diuron	78.4		P	30 - 160
Fenuron	93.1		P	30 - 160
Fluridone	86.7		P	30 - 160
Hydrocodone	79.0		P	30 - 160
Ibuprofen	70.5		P	30 - 160
Imazapyr	71.9		P	30 - 160
Imidacloprid	90.9		P	30 - 160
Linuron	72.4		P	30 - 160
Mandestrobin	91.5		P	30 - 160
MCP	167		F	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P379716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Naproxen	69.0		P	30 - 160
Primidone	77.8		P	30 - 160
Pyraclostrobin	76.4		P	30 - 160
Thiamethoxam	84.8		P	30 - 160
Tolfenpyrad	60.8		P	30 - 160
Triclopyr	113		P	30 - 160

Reference Method: SM 2320 B-2011
Batch ID: P379903

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P380683

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.3		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P379713

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P379691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160160	Iron	98.3		P	70 - 130
2160160	Zinc	102		P	70 - 130
2160188	Iron	101	98.8	P/P	70 - 130
2160188	Zinc	106	104	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379691

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160160	Aluminum	116		P	70 - 130
2160160	Antimony	102		P	70 - 130
2160160	Arsenic	113		P	70 - 130
2160160	Cadmium	97.8		P	70 - 130
2160160	Chromium	98.1		P	70 - 130
2160160	Copper	116		P	70 - 130
2160160	Lead	107		P	70 - 130
2160160	Nickel	116		P	70 - 130
2160160	Selenium	102		P	70 - 130
2160160	Thallium	112		P	70 - 130
2160188	Aluminum	104	106	P/P	70 - 130
2160188	Antimony	97.5	101	P/P	70 - 130
2160188	Arsenic	110	110	P/P	70 - 130
2160188	Cadmium	97.0	101	P/P	70 - 130
2160188	Chromium	97.9	104	P/P	70 - 130
2160188	Copper	105	110	P/P	70 - 130
2160188	Lead	101	104	P/P	70 - 130
2160188	Nickel	108	113	P/P	70 - 130
2160188	Selenium	103	104	P/P	70 - 130
2160188	Thallium	106	105	P/P	70 - 130

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2158865	Silver	101	104	P/P	70 - 130
2160419	Silver	103		P	70 - 130

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380275

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2162533	Bromide	93.6	94.4	P/P	90 - 110
2162535	Bromide	94.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379909

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160259	Ammonia-N	104	101	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P379876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160836	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P380209

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160386	NO2NO3-N	100	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P380039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160260	Total-P	98.3	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P380169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160593	O-Phosphate-P	94.1	97.5	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P379639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160075	Acetochlor	90.0	82.5	P/P	68 - 126
2160075	Alachlor	94.7	85.6	P/P	66 - 125
2160075	Ametryn	81.0	80.4	P/P	31 - 182
2160075	Atrazine Desethyl	57.1	66.9	P/P	13 - 161
2160075	Azinphos Methyl	137	131	P/P	54 - 162
2160075	Bromacil	75.0	75.4	P/P	34 - 144
2160075	Butylate	34.9	26.9	P/P	16 - 92.0
2160075	Carbophenothion	99.1	101	P/P	50 - 150
2160075	Chlorpyrifos Ethyl	105	109	P/P	63 - 124
2160075	Chlorpyrifos Methyl	98.2	94.9	P/P	64 - 125
2160075	Cyanazine	97.2	98.6	P/P	13 - 245
2160075	Demeton	89.7	90.0	P/P	20 - 154
2160075	Diazinon	90.6	89.3	P/P	66 - 141
2160075	Dimethenamid	91.5	86.4	P/P	50 - 130
2160075	Disulfoton	90.2	91.7	P/P	55 - 130
2160075	Dithiopyr	94.7	91.6	P/P	66 - 122
2160075	EPTC	29.7	20.5	P/P	15 - 93.0
2160075	Ethion	96.5	103	P/P	15 - 148
2160075	Ethoprop	93.3	95.0	P/P	59 - 126
2160075	Fenamiphos	87.2	101	P/P	39 - 137
2160075	Fipronil	92.2	89.6	P/P	47 - 131
2160075	Fipronil Desulfinyl	92.3	91.6	P/P	43 - 121
2160075	Fipronil Sulfide	80.1	82.5	P/P	29 - 134
2160075	Fipronil Sulfone	84.4	88.1	P/P	19 - 131
2160075	Flumioxazin	133	133	P/P	70 - 200
2160075	Fonofos	83.1	89.6	P/P	62 - 128
2160075	Hexazinone	98.9	99.7	P/P	58 - 154
2160075	Imazalil	123	125	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P379639

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160075	Malathion	111	110	P/P	54 - 135
2160075	Metalaxyl	93.2	89.1	P/P	46 - 136
2160075	Metolachlor	93.9	89.2	P/P	62 - 126
2160075	Metribuzin	186	177	P/P	44 - 277
2160075	Mevinphos	91.9	88.7	P/P	44 - 135
2160075	Molinate	63.3	53.8	P/P	31 - 104
2160075	Norflurazon	83.1	83.2	P/P	32 - 134
2160075	Oxadiazon	90.5	83.6	P/P	55 - 123
2160075	Parathion Ethyl	97.8	95.1	P/P	67 - 120
2160075	Parathion Methyl	105	102	P/P	70 - 140
2160075	Pendimethalin	88.7	72.0	P/P	59 - 145
2160075	Phorate	86.3	89.6	P/P	52 - 127
2160075	Prodiamine	108	106	P/P	11 - 157
2160075	Prometon	89.5	89.0	P/P	55 - 130
2160075	Prometryn	92.1	89.7	P/P	55 - 127
2160075	Pronamide	79.9	87.5	P/P	50 - 150
2160075	Propiconazole	79.0	71.3	P/P	50 - 150
2160075	Tebuconazole	60.0	59.4	P/P	10 - 122
2160075	Terbufos	95.9	95.5	P/P	65 - 131
2160075	Terbutylazine	93.5	95.5	P/P	63 - 131

Reference Method: EPA 8270E
Batch ID: P379650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160696	Aldrin	68.2	69.1	P/P	32 - 82.0
2160696	Alpha-BHC	88.5	88.8	P/P	68 - 157
2160696	Alpha-Chlordane	86.2	85.4	P/P	54 - 108
2160696	Beta-BHC	99.3	99.3	P/P	54 - 200
2160696	Beta-Cyfluthrin	137	135	P/P	50 - 150
2160696	Bifenthrin	104	106	P/P	49 - 124
2160696	Chlorothalonil	22.0	19.7	P/P	10 - 289
2160696	Cis-Nonachlor	93.5	94.8	P/P	53 - 112
2160696	Cypermethrin	116	119	P/P	43 - 141
2160696	Dacthal	88.0	88.5	P/P	50 - 150
2160696	DDD-p,p'	95.7	97.0	P/P	58 - 125
2160696	DDE-p,p'	79.8	83.8	P/P	50 - 108
2160696	DDT-p,p'	77.8	77.4	P/P	52 - 140
2160696	Delta-BHC	152	147	P/P	61 - 228
2160696	Dicofol	75.4	76.1	P/P	59 - 130
2160696	Dieldrin	90.6	95.1	P/P	57 - 121
2160696	Endosulfan I	101	94.9	P/P	62 - 123
2160696	Endosulfan II	110	110	P/P	48 - 163
2160696	Endosulfan Sulfate	110	108	P/P	63 - 132
2160696	Endrin	98.6	100	P/P	58 - 128
2160696	Endrin Aldehyde	78.7	79.3	P/P	44 - 126
2160696	Endrin Ketone	103	104	P/P	68 - 127
2160696	Ethalfuralin	74.1	72.6	P/P	55 - 131
2160696	Gamma-BHC	107	112	P/P	54 - 206
2160696	Gamma-Chlordane	80.8	80.6	P/P	52 - 105
2160696	Heptachlor	70.9	72.0	P/P	47 - 94.0
2160696	Heptachlor Epoxide	86.7	88.4	P/P	61 - 113

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P379650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160696	Hexachlorobenzene	63.6	62.3	P/P	45 - 100
2160696	Lambda-Cyhalothrin	127	124	P/P	50 - 150
2160696	Methoxychlor	91.4	90.4	P/P	63 - 153
2160696	Mirex	76.2	76.6	P/P	38 - 90.0
2160696	Permethrin	87.5	88.2	P/P	45 - 112
2160696	Phenothrin	84.3	84.7	P/P	50 - 150
2160696	Prallethrin	74.4	76.0	P/P	40 - 140
2160696	Trans-Nonachlor	85.7	86.4	P/P	50 - 103
2160696	Trifluralin	75.6	74.8	P/P	57 - 122

Reference Method: EPA 8276
Batch ID: P379650

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160600	Chlordane	70.4	74.5	P/P	34 - 129
2160600	Toxaphene	85.7	87.3	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P379532

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160072	3-Hydroxycarbofuran	64.2	70.9	P/P	30 - 160
2160072	Aldicarb	39.3	37.0	P/P	30 - 160
2160072	Aldicarb Sulfone	80.6	86.5	P/P	30 - 160
2160072	Aldicarb Sulfoxide	37.8	39.5	P/P	30 - 160
2160072	Carbaryl	53.9	53.5	P/P	30 - 160
2160072	Carbofuran	51.8	49.7	P/P	30 - 160
2160072	Methiocarb	53.8	57.9	P/P	30 - 160
2160072	Methomyl	67.0	64.0	P/P	30 - 160
2160072	Oxamyl	62.5	66.2	P/P	30 - 160
2160072	Propoxur	52.0	57.7	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P379709

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160294	Acesulfame K	42.9	40.1	P/P	40 - 150
2160294	AMPA	67.1	90.0	P/P	40 - 150
2160294	Endothall	124	119	P/P	40 - 150
2160294	Glufosinate	134	129	P/P	40 - 150
2160294	Glyphosate	61.4	78.5	P/P	40 - 140
2160294	Sucralose	101	99.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P379716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160407	2,4-D	140	143	P/P	30 - 160
2160407	Acetaminophen	74.3	72.2	P/P	30 - 160
2160407	Acetamiprid	94.5	101	P/P	30 - 160
2160407	Afidopyropen	98.5	95.0	P/P	30 - 160
2160407	Benzovindiflupyr	75.2	77.8	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P379716

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160407	Carbamazepine	86.9	91.0	P/P	30 - 160
2160407	Clothianidin	84.0	85.4	P/P	30 - 160
2160407	Dinotefuran	103	106	P/P	30 - 160
2160407	Diuron	60.6	65.1	P/P	30 - 160
2160407	Fenuron	70.5	72.6	P/P	30 - 160
2160407	Hydrocodone	90.7	89.6	P/P	30 - 160
2160407	Ibuprofen	72.1	57.1	P/P	30 - 160
2160407	Imidacloprid	159	159	P/P	30 - 160
2160407	Linuron	61.5	62.9	P/P	30 - 160
2160407	Mandestrobin	84.7	90.6	P/P	30 - 160
2160407	MCP	174	174	F/F	30 - 160
2160407	Naproxen	107	111	P/P	30 - 160
2160407	Primidone	85.9	78.8	P/P	30 - 160
2160407	Pyraclostrobin	80.4	82.9	P/P	30 - 160
2160407	Thiamethoxam	127	128	P/P	30 - 160
2160407	Tolfenpyrad	49.8	49.6	P/P	30 - 160
2160407	Triclopyr	141	134	P/P	30 - 160

Reference Method: SM 4500 F-C-2011
 Batch ID: P380683

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2162146	Fluoride	100	100	P/P	89 - 106

Reference Method: SM 5310 B-2011
 Batch ID: P379713

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2160386	Organic Carbon	98.4	98.9	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P379641

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160548	Turbidity	5.65	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P379691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160188	Iron	2.24	Spike	P	0 - 20
2160188	Magnesium	4.67	Spike	P	0 - 20
2160188	Zinc	1.60	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379691

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160188	Aluminum	2.35	Spike	P	0 - 20
2160188	Antimony	3.87	Spike	P	0 - 20
2160188	Arsenic	0.749	Spike	P	0 - 20
2160188	Cadmium	4.46	Spike	P	0 - 20
2160188	Chromium	5.67	Spike	P	0 - 20
2160188	Copper	4.13	Spike	P	0 - 20
2160188	Lead	2.54	Spike	P	0 - 20
2160188	Nickel	4.35	Spike	P	0 - 20
2160188	Selenium	1.29	Spike	P	0 - 20
2160188	Thallium	0.549	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P380290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2158865	Silver	3.07	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P380275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2162533	Bromide	0.653	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P379909

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160259	Ammonia-N	2.92	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P379876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160836	Kjeldahl Nitrogen	0.480	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P380209

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160386	NO2NO3-N	2.28	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P380039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160260	Total-P	0.970	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P380169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160593	O-Phosphate-P	2.44	Spike	P	0 - 20

Reference Method: EPA 8270E
 Batch ID: P379639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160075	Acetochlor	8.62	Spike	P	0 - 30
2160075	Alachlor	10.2	Spike	P	0 - 30
2160075	Ametryn	0.544	Spike	P	0 - 30
2160075	Atrazine	6.69	Spike	P	0 - 30
2160075	Atrazine Desethyl	10.9	Spike	P	0 - 30
2160075	Azinphos Methyl	4.18	Spike	P	0 - 30
2160075	Bromacil	0.560	Spike	P	0 - 30
2160075	Butylate	25.8	Spike	P	0 - 30
2160075	Carbophenothion	2.32	Spike	P	0 - 30
2160075	Chlorpyrifos Ethyl	3.90	Spike	P	0 - 30
2160075	Chlorpyrifos Methyl	3.43	Spike	P	0 - 30
2160075	Cyanazine	1.47	Spike	P	0 - 30
2160075	Demeton	0.304	Spike	P	0 - 30
2160075	Diazinon	1.50	Spike	P	0 - 30
2160075	Dimethenamid	5.72	Spike	P	0 - 30
2160075	Disulfoton	1.66	Spike	P	0 - 30
2160075	Dithiopyr	3.06	Spike	P	0 - 30
2160075	EPTC	36.7	Spike	F	0 - 30
2160075	Ethion	6.52	Spike	P	0 - 30
2160075	Ethoprop	1.86	Spike	P	0 - 30
2160075	Fenamiphos	14.8	Spike	P	0 - 30
2160075	Fipronil	2.94	Spike	P	0 - 30
2160075	Fipronil Desulfinyl	0.635	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P379639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160075	Fipronil Sulfide	2.04	Spike	P	0 - 30
2160075	Fipronil Sulfone	2.57	Spike	P	0 - 30
2160075	Flumioxazin	0.295	Spike	P	0 - 30
2160075	Fonofos	7.55	Spike	P	0 - 30
2160075	Hexazinone	0.757	Spike	P	0 - 30
2160075	Imazalil	1.71	Spike	P	0 - 30
2160075	Malathion	0.485	Spike	P	0 - 30
2160075	Metalaxyl	4.41	Spike	P	0 - 30
2160075	Metolachlor	5.20	Spike	P	0 - 30
2160075	Metribuzin	4.81	Spike	P	0 - 30
2160075	Mevinphos	3.59	Spike	P	0 - 30
2160075	Molinate	16.3	Spike	P	0 - 30
2160075	Norflurazon	0.173	Spike	P	0 - 30
2160075	Oxadiazon	6.24	Spike	P	0 - 30
2160075	Parathion Ethyl	2.77	Spike	P	0 - 30
2160075	Parathion Methyl	2.98	Spike	P	0 - 30
2160075	Pendimethalin	20.7	Spike	P	0 - 30
2160075	Phorate	3.67	Spike	P	0 - 30
2160075	Prodiamine	1.92	Spike	P	0 - 30
2160075	Prometon	0.496	Spike	P	0 - 30
2160075	Prometryn	2.66	Spike	P	0 - 30
2160075	Pronamide	7.73	Spike	P	0 - 30
2160075	Propiconazole	6.06	Spike	P	0 - 30
2160075	Simazine	3.75	Spike	P	0 - 30
2160075	Sulfentrazone	13.2	Spike	P	0 - 30
2160075	Tebuconazole	1.04	Spike	P	0 - 30
2160075	Terbufos	0.509	Spike	P	0 - 30
2160075	Terbutylazine	2.21	Spike	P	0 - 30
LFB	Acetochlor	0.616	LCS	P	0 - 30
LFB	Alachlor	0.0893	LCS	P	0 - 30
LFB	Ametryn	2.55	LCS	P	0 - 30
LFB	Atrazine	0.694	LCS	P	0 - 30
LFB	Atrazine Desethyl	7.96	LCS	P	0 - 30
LFB	Azinphos Methyl	3.08	LCS	P	0 - 30
LFB	Bromacil	10.4	LCS	P	0 - 30
LFB	Butylate	64.5	LCS	F	0 - 30
LFB	Carbophenothion	2.76	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	3.25	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	1.07	LCS	P	0 - 30
LFB	Cyanazine	3.92	LCS	P	0 - 30
LFB	Demeton	12.5	LCS	P	0 - 30
LFB	Diazinon	1.13	LCS	P	0 - 30
LFB	Dimethenamid	2.12	LCS	P	0 - 30
LFB	Disulfoton	8.47	LCS	P	0 - 30
LFB	Dithiopyr	0.518	LCS	P	0 - 30
LFB	EPTC	89.0	LCS	F	0 - 30
LFB	Ethion	4.86	LCS	P	0 - 30
LFB	Ethoprop	4.21	LCS	P	0 - 30
LFB	Fenamiphos	0.0579	LCS	P	0 - 30
LFB	Fipronil	4.57	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	1.61	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P379639

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	4.21	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.06	LCS	P	0 - 30
LFB	Flumioxazin	18.6	LCS	P	0 - 30
LFB	Fonofos	0.118	LCS	P	0 - 30
LFB	Hexazinone	0.304	LCS	P	0 - 30
LFB	Imazalil	1.66	LCS	P	0 - 30
LFB	Malathion	2.27	LCS	P	0 - 30
LFB	Metalaxyl	0.490	LCS	P	0 - 30
LFB	Metolachlor	1.41	LCS	P	0 - 30
LFB	Metribuzin	9.33	LCS	P	0 - 30
LFB	Mevinphos	6.79	LCS	P	0 - 30
LFB	Molinate	25.5	LCS	P	0 - 30
LFB	Norflurazon	0.400	LCS	P	0 - 30
LFB	Oxadiazon	1.05	LCS	P	0 - 30
LFB	Parathion Ethyl	1.34	LCS	P	0 - 30
LFB	Parathion Methyl	0.653	LCS	P	0 - 30
LFB	Pendimethalin	1.60	LCS	P	0 - 30
LFB	Phorate	6.90	LCS	P	0 - 30
LFB	Prodiamine	8.25	LCS	P	0 - 30
LFB	Prometon	5.45	LCS	P	0 - 30
LFB	Prometryn	0.443	LCS	P	0 - 30
LFB	Pronamide	5.85	LCS	P	0 - 30
LFB	Propiconazole	1.80	LCS	P	0 - 30
LFB	Simazine	4.74	LCS	P	0 - 30
LFB	Sulfentrazone	5.74	LCS	P	0 - 30
LFB	Tebuconazole	4.90	LCS	P	0 - 30
LFB	Terbufos	4.26	LCS	P	0 - 30
LFB	Terbutylazine	0.185	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P379650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160696	Aldrin	1.35	Spike	P	0 - 30
2160696	Alpha-BHC	0.347	Spike	P	0 - 30
2160696	Alpha-Chlordane	0.981	Spike	P	0 - 30
2160696	Beta-BHC	0.0166	Spike	P	0 - 30
2160696	Beta-Cyfluthrin	1.99	Spike	P	0 - 30
2160696	Bifenthrin	1.51	Spike	P	0 - 30
2160696	Chlorothalonil	10.9	Spike	P	0 - 30
2160696	Cis-Nonachlor	1.40	Spike	P	0 - 30
2160696	Cypermethrin	2.31	Spike	P	0 - 30
2160696	Dacthal	0.536	Spike	P	0 - 30
2160696	DDD-p,p'	1.40	Spike	P	0 - 30
2160696	DDE-p,p'	4.85	Spike	P	0 - 30
2160696	DDT-p,p'	0.510	Spike	P	0 - 30
2160696	Delta-BHC	3.83	Spike	P	0 - 30
2160696	Dicofol	0.865	Spike	P	0 - 30
2160696	Dieldrin	4.84	Spike	P	0 - 30
2160696	Endosulfan I	6.23	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P379650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160696	Endosulfan II	0.640	Spike	P	0 - 30
2160696	Endosulfan Sulfate	1.41	Spike	P	0 - 30
2160696	Endrin	1.66	Spike	P	0 - 30
2160696	Endrin Aldehyde	0.838	Spike	P	0 - 30
2160696	Endrin Ketone	0.904	Spike	P	0 - 30
2160696	Ethalfuralin	2.05	Spike	P	0 - 30
2160696	Gamma-BHC	4.39	Spike	P	0 - 30
2160696	Gamma-Chlordane	0.158	Spike	P	0 - 30
2160696	Heptachlor	1.60	Spike	P	0 - 30
2160696	Heptachlor Epoxide	1.97	Spike	P	0 - 30
2160696	Hexachlorobenzene	1.96	Spike	P	0 - 30
2160696	Lambda-Cyhalothrin	2.18	Spike	P	0 - 30
2160696	Methoxychlor	1.03	Spike	P	0 - 30
2160696	Mirex	0.521	Spike	P	0 - 30
2160696	Permethrin	0.782	Spike	P	0 - 30
2160696	Phenothrin	0.433	Spike	P	0 - 30
2160696	Prallethrin	2.08	Spike	P	0 - 30
2160696	Trans-Nonachlor	0.830	Spike	P	0 - 30
2160696	Trifluralin	1.10	Spike	P	0 - 30
LFB	Aldrin	5.65	LCS	P	0 - 30
LFB	Alpha-BHC	5.77	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.03	LCS	P	0 - 30
LFB	Beta-BHC	1.68	LCS	P	0 - 30
LFB	Beta-Cyfluthrin	4.95	LCS	P	0 - 30
LFB	Bifenthrin	2.50	LCS	P	0 - 30
LFB	Chlorothalonil	25.5	LCS	P	0 - 30
LFB	Cis-Nonachlor	1.09	LCS	P	0 - 30
LFB	Cypermethrin	5.48	LCS	P	0 - 30
LFB	Dacthal	0.198	LCS	P	0 - 30
LFB	DDD-p,p'	1.54	LCS	P	0 - 30
LFB	DDE-p,p'	1.27	LCS	P	0 - 30
LFB	DDT-p,p'	0.709	LCS	P	0 - 30
LFB	Delta-BHC	11.1	LCS	P	0 - 30
LFB	Dicofol	6.81	LCS	P	0 - 30
LFB	Dieldrin	3.65	LCS	P	0 - 30
LFB	Endosulfan I	7.98	LCS	P	0 - 30
LFB	Endosulfan II	4.83	LCS	P	0 - 30
LFB	Endosulfan Sulfate	3.14	LCS	P	0 - 30
LFB	Endrin	4.61	LCS	P	0 - 30
LFB	Endrin Aldehyde	1.86	LCS	P	0 - 30
LFB	Endrin Ketone	1.85	LCS	P	0 - 30
LFB	Ethalfuralin	0.119	LCS	P	0 - 30
LFB	Gamma-BHC	8.79	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.124	LCS	P	0 - 30
LFB	Heptachlor	0.506	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.245	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.347	LCS	P	0 - 30
LFB	Lambda-Cyhalothrin	6.74	LCS	P	0 - 30
LFB	Methoxychlor	0.761	LCS	P	0 - 30
LFB	Mirex	0.768	LCS	P	0 - 30
LFB	Permethrin	0.616	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P379650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Phenothrin	1.45	LCS	P	0 - 30
LFB	Prallethrin	5.12	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.543	LCS	P	0 - 30
LFB	Trifluralin	0.265	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P379650

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160600	Chlordane	4.88	Spike	P	0 - 30
2160600	Toxaphene	1.78	Spike	P	0 - 30
LFB	Chlordane	0.00795	LCS	P	0 - 30
LFB	Toxaphene	7.37	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P379532

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160072	3-Hydroxycarbofuran	9.89	Spike	P	0 - 30
2160072	Aldicarb	6.17	Spike	P	0 - 30
2160072	Aldicarb Sulfone	6.99	Spike	P	0 - 30
2160072	Aldicarb Sulfoxide	4.38	Spike	P	0 - 30
2160072	Carbaryl	0.796	Spike	P	0 - 30
2160072	Carbofuran	4.16	Spike	P	0 - 30
2160072	Methiocarb	7.33	Spike	P	0 - 30
2160072	Methomyl	4.70	Spike	P	0 - 30
2160072	Oxamyl	5.62	Spike	P	0 - 30
2160072	Propoxur	10.5	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P379709

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160294	Acesulfame K	6.70	Spike	P	0 - 30
2160294	AMPA	29.1	Spike	P	0 - 30
2160294	Endothall	3.83	Spike	P	0 - 30
2160294	Glufosinate	4.15	Spike	P	0 - 30
2160294	Glyphosate	24.5	Spike	P	0 - 30
2160294	Sucralose	1.35	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P379716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160407	2,4-D	1.90	Spike	P	0 - 30
2160407	Acetaminophen	2.86	Spike	P	0 - 30
2160407	Acetamiprid	6.86	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P379716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160407	Afidopyropen	3.68	Spike	P	0 - 30
2160407	Bentazon	10.6	Spike	P	0 - 30
2160407	Benzovindiflupyr	3.38	Spike	P	0 - 30
2160407	Carbamazepine	3.80	Spike	P	0 - 30
2160407	Clothianidin	1.66	Spike	P	0 - 30
2160407	Dinotefuran	3.42	Spike	P	0 - 30
2160407	Diuron	7.21	Spike	P	0 - 30
2160407	Fenuron	2.91	Spike	P	0 - 30
2160407	Fluridone	0.433	Spike	P	0 - 30
2160407	Hydrocodone	1.23	Spike	P	0 - 30
2160407	Ibuprofen	23.3	Spike	P	0 - 30
2160407	Imazapyr	17.3	Spike	P	0 - 30
2160407	Imidacloprid	0.326	Spike	P	0 - 30
2160407	Linuron	2.40	Spike	P	0 - 30
2160407	Mandestrobin	6.74	Spike	P	0 - 30
2160407	MCPP	0.236	Spike	P	0 - 30
2160407	Naproxen	4.29	Spike	P	0 - 30
2160407	Primidone	7.05	Spike	P	0 - 30
2160407	Pyraclostrobin	3.18	Spike	P	0 - 30
2160407	Thiamethoxam	0.742	Spike	P	0 - 30
2160407	Tolfenpyrad	0.414	Spike	P	0 - 30
2160407	Triclopyr	5.10	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P379903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160182	Total Alkalinity	0.125	Sample	P	0 - 2.8

Reference Method: SM 2540 D-2011
Batch ID: P379977

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160495	TSS	6.25	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P380683

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2162146	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
Batch ID: P379713

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2160386	Organic Carbon	0.450	Spike	P	0 - 20

Quality Assurance Report Precision

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

Quality Assurance Report Surrogates

Lab Sample ID: 2160598
Field Sample ID: G3SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	66.0	P	30 - 160

Lab Sample ID: 2160599
Field Sample ID: G3SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.1	P	30 - 160
EPA 8321B	Acetaminophen-d4	51.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.8	P	30 - 160
EPA 8321B	Diuron-d6	71.2	P	30 - 160
EPA 8321B	Endothall-d6	326	F	30 - 160
EPA 8321B	Endothall-d6	326	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	49.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	49.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	69.2	P	30 - 160
EPA 8321B	Primidone-d5	73.7	P	30 - 160
EPA 8321B	Sucralose-d6	34.9	P	30 - 160
EPA 8321B	Sucralose-d6	34.9	P	30 - 160

Lab Sample ID: 2160600
Field Sample ID: G3SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.8	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	57.0	P	34 - 106
EPA 8276	Decachlorobiphenyl	61.6	P	26 - 97.0
EPA 8276	PCNB	140	P	38 - 141

Lab Sample ID: 2160601
Field Sample ID: G3SW0060

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	102	P	72 - 135
EPA 8270E	Terbufos-d10	83.4	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A97813

Included Lab Sample IDs: 2160591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	100	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97831

Included Lab Sample IDs: 2160593

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.5	93.4	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A97841

Included Lab Sample IDs: 2160592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.5	96.8	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A97924

Included Lab Sample IDs: 2160591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	103	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97928

Included Lab Sample IDs: 2160592

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97940

Included Lab Sample IDs: 2160602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	97.7	98.7	P/P	90 - 110
Magnesium	98.7	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97956

Included Lab Sample IDs: 2160599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	112	106	P/P	60 - 160
Endothall	116	115	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97957

Included Lab Sample IDs: 2160592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97957

Included Lab Sample IDs: 2160592

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	96.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97959

Included Lab Sample IDs: 2160599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	86.1	82.8	P/P	40 - 200
Glufosinate	124	126	P/P	40 - 200
Glyphosate	117	120	P/P	40 - 200

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97989

Included Lab Sample IDs: 2160602

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

Reference Method: EPA 8276

Run ID: A98015

Included Lab Sample IDs: 2160600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.4		P	80 - 120
Toxaphene	107		P	80 - 120

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A98039

Included Lab Sample IDs: 2160592

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A98040

Included Lab Sample IDs: 2160602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	101	101	P/P	90 - 110
Antimony	94.3	95.6	P/P	90 - 110
Arsenic	99.2	100	P/P	90 - 110
Cadmium	94.4	96.2	P/P	90 - 110
Chromium	95.5	95.6	P/P	90 - 110
Copper	103	101	P/P	90 - 110
Lead	96.0	95.9	P/P	90 - 110
Nickel	103	103	P/P	90 - 110
Selenium	96.6	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A98049
Included Lab Sample IDs: 2160600

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	103		P	80 - 120
Alpha-Chlordane	104		P	80 - 120
Beta-BHC	96.9		P	80 - 120
Beta-Cyfluthrin	102		P	80 - 120
Bifenthrin	97.7		P	80 - 120
Chlorothalonil	145*		F	80 - 120
Cis-Nonachlor	106		P	80 - 120
Cypermethrin	98.7		P	80 - 120
Dacthal	104		P	80 - 120
DDD-p,p'	105		P	80 - 120
DDE-p,p'	99.4		P	80 - 120
DDT-p,p'	99.1		P	80 - 120
Delta-BHC	120*		F	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	108		P	80 - 120
Endosulfan I	108		P	80 - 120
Endosulfan II	113		P	80 - 120
Endosulfan Sulfate	108		P	80 - 120
Endrin	114		P	80 - 120
Endrin Aldehyde	95.2		P	80 - 120
Endrin Ketone	107		P	80 - 120
Ethalfuralin	98.0		P	80 - 120
Gamma-BHC	111		P	80 - 120
Gamma-Chlordane	101		P	80 - 120
Heptachlor	101		P	80 - 120
Heptachlor Epoxide	104		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Lambda-Cyhalothrin	98.5		P	80 - 120
Methoxychlor	98.4		P	80 - 120
Mirex	98.2		P	80 - 120
Permethrin	88.4		P	80 - 120
Phenothrin	86.5		P	80 - 120
Prallethrin	97.1		P	80 - 120
Trans-Nonachlor	106		P	80 - 120
Trifluralin	99.0		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A98056
Included Lab Sample IDs: 2160591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	103	104	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A98067
Included Lab Sample IDs: 2160599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	95.1	89.0	P/P	50 - 150
3-Hydroxycarbofuran	88.1	92.0	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A98067
Included Lab Sample IDs: 2160599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	114	122	P/P	60 - 160
Acetamiprid	93.8	94.4	P/P	50 - 150
Afidopyropen	103	103	P/P	50 - 150
Aldicarb	92.9	75.4	P/P	60 - 150
Aldicarb Sulfone	85.4	89.6	P/P	50 - 150
Aldicarb Sulfoxide	99.1	93.7	P/P	50 - 150
Bentazon	107	104	P/P	50 - 160
Benzovindiflupyr	102	97.8	P/P	50 - 150
Carbamazepine	101	97.5	P/P	60 - 150
Carbaryl	108	109	P/P	60 - 150
Carbofuran	98.7	95.3	P/P	50 - 150
Clothianidin	84.5	96.1	P/P	60 - 150
Dinotefuran	81.7	83.7	P/P	50 - 150
Diuron	83.6	91.7	P/P	60 - 150
Fenuron	88.7	89.6	P/P	60 - 150
Fluridone	99.5	98.9	P/P	60 - 160
Hydrocodone	85.2	94.5	P/P	60 - 150
Ibuprofen	80.1	79.7	P/P	50 - 160
Imazapyr	79.2	101	P/P	50 - 150
Imidacloprid	87.3	86.6	P/P	60 - 150
Linuron	65.1	106	P/P	60 - 150
Mandestrobin	107	103	P/P	50 - 150
MCPP	89.3	88.5	P/P	50 - 150
Methiocarb	90.6	95.0	P/P	50 - 150
Methomyl	90.2	93.9	P/P	50 - 150
Naproxen	69.0	90.7	P/P	50 - 160
Oxamyl	93.7	97.1	P/P	50 - 150
Primidone	97.7	101	P/P	60 - 150
Propoxur	106	104	P/P	50 - 150
Pyraclostrobin	103	98.9	P/P	60 - 150
Thiamethoxam	77.5	99.9	P/P	50 - 150
Tolfenpyrad	103	99.3	P/P	60 - 150
Triclopyr	97.4	98.3	P/P	50 - 150

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A98068
Included Lab Sample IDs: 2160592

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

Reference Method: EPA 8321B
Run ID: A98073
Included Lab Sample IDs: 2160599

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	110	108	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A98116
 Included Lab Sample IDs: 2160601

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	105		P	80 - 120
Ametryn	105		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	94.3		P	80 - 120
Azinphos Methyl	96.1		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	110		P	80 - 120
Carbophenothion	98.4		P	80 - 120
Chlorpyrifos Ethyl	99.4		P	80 - 120
Chlorpyrifos Methyl	98.3		P	80 - 120
Cyanazine	91.9		P	80 - 120
Demeton	98.5		P	80 - 120
Diazinon	102		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	96.3		P	80 - 120
Dithiopyr	103		P	80 - 120
EPTC	108		P	80 - 120
Ethion	98.6		P	80 - 120
Ethoprop	98.8		P	80 - 120
Fenamiphos	98.7		P	80 - 120
Fipronil	98.3		P	80 - 120
Fipronil Desulfinyl	104		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	97.2		P	80 - 120
Flumioxazin	88.2		P	80 - 120
Fonofos	98.0		P	80 - 120
Hexazinone	97.5		P	80 - 120
Imazalil	96.5		P	80 - 120
Malathion	93.2		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	97.8		P	80 - 120
Mevinphos	99.4		P	80 - 120
Molinate	108		P	80 - 120
Norflurazon	98.6		P	80 - 120
Oxadiazon	105		P	80 - 120
Parathion Ethyl	98.4		P	80 - 120
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	97.7		P	80 - 120
Phorate	98.5		P	80 - 120
Prodiamine	92.4		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	102		P	80 - 120
Pronamide	99.1		P	80 - 120
Propiconazole	100		P	80 - 120
Simazine	98.5		P	80 - 120
Sulfentrazone	97.4		P	80 - 120
Tebuconazole	100		P	80 - 120
Terbufos	98.0		P	80 - 120
Terbutylazine	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A98137

Included Lab Sample IDs: 2160602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Silver	96.8	94.3	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A98187

Included Lab Sample IDs: 2160602

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Thallium	94.2	90.3	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A98204

Included Lab Sample IDs: 2160591

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	100	P/P	90 - 110

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						5.65	
EPA 200.7 Rev. 4.4	Iron	108		98.3	101	98.8		2.24
	Magnesium	103						4.67
	Zinc	106		106	104	102		1.60
EPA 200.8 Rev. 5.4	Aluminum	93.4		104	106	116		2.35
	Antimony	93.5		97.5	101	102		3.87
	Arsenic	91.2		110	110	113		0.749
	Cadmium	92.4		97.0	101	97.8		4.46
	Chromium	93.8		97.9	104	98.1		5.67
	Copper	95.0		105	110	116		4.13
	Lead	91.8		101	104	107		2.54
	Nickel	93.5		108	113	116		4.35
	Selenium	89.1		103	104	102		1.29
	Silver	99.2		101	104	103		3.07
	Thallium	100		112	106	105		0.549
EPA 300.0 Rev. 2.1	Bromide	99.1		93.6	94.4	94.2		0.653
EPA 350.1 Rev. 2.0	Ammonia-N	99.3		104	101			2.92
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100		101	102			0.480
EPA 353.2 Rev. 2.0	NO2NO3-N	101		100	103			2.28
EPA 365.1 Rev. 2.0	Total-P	103		98.3	99.3			0.970
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		94.1	97.5			2.44
EPA 8270E	Acetochlor	90.1	89.6	90.0	82.5	0.616		8.62
	Alachlor	91.9	91.9	94.7	85.6	0.0893		10.2
	Aldrin	61.1	64.7	68.2	69.1	5.65		1.35
	Alpha-BHC	85.9	91.0	88.5	88.8	5.77		0.347
	Alpha-Chlordane	86.4	85.5	86.2	85.4	1.03		0.981
	Ametryn	99.0	96.5	81.0	80.4	2.55		0.544
	Atrazine	99.5	100			0.694		6.69
	Atrazine Desethyl	76.5	82.9	57.1	66.9	7.96		10.9
	Azinphos Methyl	130	134	137	131	3.08		4.18
	Beta-BHC	98.7	100	99.3	99.3	1.68		0.0166
	Beta-Cyfluthrin	92.5	97.2	137	135	4.95		1.99
	Bifenthrin	87.0	84.9	104	106	2.50		1.51
	Bromacil	65.1	72.2	75.0	75.4	10.4		0.560
	Butylate	33.1	64.7	34.9	26.9	64.5		25.8
	Carbophenothion	105	108	99.1	101	2.76		2.32
	Chlorothalonil	126	97.2	22.0	19.7	25.5		10.9
	Chlorpyrifos Ethyl	98.7	102	105	109	3.25		3.90
	Chlorpyrifos Methyl	99.2	98.1	98.2	94.9	1.07		3.43
	Cis-Nonachlor	91.1	90.1	93.5	94.8	1.09		1.40
	Cyanazine	103	98.8	97.2	98.6	3.92		1.47
	Cypermethrin	90.4	95.5	116	119	5.48		2.31
	Dacthal	90.1	90.2	88.0	88.5	0.198		0.536
	DDD-p,p'	95.0	96.5	95.7	97.0	1.54		1.40
	DDE-p,p'	83.1	82.0	79.8	83.8	1.27		4.85
	DDT-p,p'	76.4	75.8	77.8	77.4	0.709		0.510
	Delta-BHC	125	139	152	147	11.1		3.83
	Demeton	77.1	87.3	89.7	90.0	12.5		0.304
	Diazinon	89.2	88.2	90.6	89.3	1.13		1.50
	Dicofol	87.8	82.0	75.4	76.1	6.81		0.865
	Dieldrin	96.3	92.9	90.6	95.1	3.65		4.84
	Dimethenamid	88.3	90.2	91.5	86.4	2.12		5.72
	Disulfoton	81.6	88.8	90.2	91.7	8.47		1.66
	Dithiopyr	88.8	88.3	94.7	91.6	0.518		3.06

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	SMP
EPA 8270E	Endosulfan I	91.4	99.0	101	94.9	7.98	6.23
	Endosulfan II	102	107	110	110	4.83	0.640
	Endosulfan Sulfate	97.1	100	110	108	3.14	1.41
	Endrin	99.2	94.8	98.6	100	4.61	1.66
	Endrin Aldehyde	80.5	79.0	78.7	79.3	1.86	0.838
	Endrin Ketone	100	98.4	103	104	1.85	0.904
	EPTC	20.7	53.8	29.7	20.5	89.0	36.7
	Ethalfuralin	74.0	74.1	74.1	72.6	0.119	2.05
	Ethion	102	108	96.5	103	4.86	6.52
	Ethoprop	84.8	88.5	93.3	95.0	4.21	1.86
	Fenamiphos	99.4	99.3	87.2	101	0.0579	14.8
	Fipronil	87.8	91.9	92.2	89.6	4.57	2.94
	Fipronil Desulfinyl	92.4	93.9	92.3	91.6	1.61	0.635
	Fipronil Sulfide	85.8	82.3	80.1	82.5	4.21	2.04
	Fipronil Sulfone	87.0	92.4	84.4	88.1	6.06	2.57
	Flumioxazin	82.6	99.5	133	133	18.6	0.295
	Fonofos	91.0	91.1	83.1	89.6	0.118	7.55
	Gamma-BHC	101	110	107	112	8.79	4.39
	Gamma-Chlordane	80.3	80.2	80.8	80.6	0.124	0.158
	Heptachlor	68.6	68.9	70.9	72.0	0.506	1.60
	Heptachlor Epoxide	87.4	87.6	86.7	88.4	0.245	1.97
	Hexachlorobenzene	65.1	64.8	63.6	62.3	0.347	1.96
	Hexazinone	100	101	98.9	99.7	0.304	0.757
	Imazalil	83.6	85.0	123	125	1.66	1.71
	Lambda-Cyhalothrin	85.1	91.0	127	124	6.74	2.18
	Malathion	109	112	111	110	2.27	0.485
	Metalaxyl	95.1	94.6	93.2	89.1	0.490	4.41
	Methoxychlor	91.4	90.7	91.4	90.4	0.761	1.03
	Metolachlor	89.7	91.0	93.9	89.2	1.41	5.20
	Metribuzin	136	124	186	177	9.33	4.81
	Mevinphos	87.0	93.1	91.9	88.7	6.79	3.59
	Mirex	66.2	65.7	76.2	76.6	0.768	0.521
	Molinate	56.4	72.9	63.3	53.8	25.5	16.3
	Norflurazon	90.3	89.9	83.1	83.2	0.400	0.173
	Oxadiazon	91.7	90.7	90.5	83.6	1.05	6.24
	Parathion Ethyl	93.1	91.9	97.8	95.1	1.34	2.77
	Parathion Methyl	105	104	105	102	0.653	2.98
	Pendimethalin	89.3	90.8	88.7	72.0	1.60	20.7
	Permethrin	74.8	74.3	87.5	88.2	0.616	0.782
	Phenothrin	63.5	62.5	84.3	84.7	1.45	0.433
	Phorate	83.9	78.3	86.3	89.6	6.90	3.67
	Prallethrin	69.5	73.1	74.4	76.0	5.12	2.08
	Prodiamine	52.5	57.1	108	106	8.25	1.92
	Prometon	88.1	93.0	89.5	89.0	5.45	0.496
	Prometryn	91.3	90.9	92.1	89.7	0.443	2.66
	Pronamide	96.4	102	79.9	87.5	5.85	7.73
	Propiconazole	86.8	88.4	79.0	71.3	1.80	6.06
	Simazine	95.6	100			4.74	3.75
	Sulfentrazone	20.0	21.1			5.74	13.2
	Tebuconazole	63.7	66.9	60.0	59.4	4.90	1.04
	Terbufos	88.5	92.4	95.9	95.5	4.26	0.509
	Terbuthylazine	92.5	92.4	93.5	95.5	0.185	2.21
	Trans-Nonachlor	84.2	83.8	85.7	86.4	0.543	0.830
	Trifluralin	75.0	74.8	75.6	74.8	0.265	1.10

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
EPA 8276	Chlordane	92.2	92.2	70.4	74.5	0.0079	4.88
	Toxaphene	77.3	83.3	85.7	87.3	7.37	1.78
EPA 8321B	2,4-D	125		140	143		1.90
	3-Hydroxycarbofuran	75.7		64.2	70.9		9.89
	Acesulfame K	119		42.9	40.1		6.70
	Acetaminophen	81.6		74.3	72.2		2.86
	Acetamiprid	89.8		94.5	101		6.86
	Afidopyropen	83.0		98.5	95.0		3.68
	Aldicarb	131		39.3	37.0		6.17
	Aldicarb Sulfone	86.0		80.6	86.5		6.99
	Aldicarb Sulfoxide	85.8		37.8	39.5		4.38
	AMPA	126		67.1	90.0		29.1
	Bentazon	102					10.6
	Benzovindiflupyr	77.0		75.2	77.8		3.38
	Carbamazepine	92.2		86.9	91.0		3.80
	Carbaryl	60.8		53.9	53.5		0.796
	Carbofuran	65.3		51.8	49.7		4.16
	Clothianidin	61.7		84.0	85.4		1.66
	Dinotefuran	74.3		103	106		3.42
	Diuron	78.4		60.6	65.1		7.21
	Endothall	87.3		124	119		3.83
	Fenuron	93.1		70.5	72.6		2.91
	Fluridone	86.7					0.433
	Glufosinate	133		134	129		4.15
	Glyphosate	120		61.4	78.5		24.5
	Hydrocodone	79.0		90.7	89.6		1.23
	Ibuprofen	70.5		72.1	57.1		23.3
	Imazapyr	71.9					17.3
	Imidacloprid	90.9		159	159		0.326
	Linuron	72.4		61.5	62.9		2.40
	Mandestrobin	91.5		84.7	90.6		6.74
	MCPP	167		174	174		0.236
	Methiocarb	61.8		53.8	57.9		7.33
	Methomyl	76.1		67.0	64.0		4.70
	Naproxen	69.0		107	111		4.29
	Oxamyl	76.9		62.5	66.2		5.62
	Primidone	77.8		85.9	78.8		7.05
	Propoxur	65.5		52.0	57.7		10.5
	Pyraclostrobin	76.4		80.4	82.9		3.18
	Sucralose	107		101	99.4		1.35
	Thiamethoxam	84.8		127	128		0.742
	Tolfenpyrad	60.8		49.8	49.6		0.414
	Triclopyr	113		141	134		5.10
SM 2320 B-2011	Total Alkalinity	102				0.125	
SM 2540 D-2011	TSS					6.25	
SM 4500 F-C-2011	Fluoride	98.3		100	100		0.0
SM 5310 B-2011	Organic Carbon	99.8		98.4	98.9		0.450

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2160591

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2160602
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2160602
EPA 300.0 Rev. 2.1	Bromide in aqueous matrices	2160591
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2160592
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2160592
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2160592
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2160592
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2160593
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2160600
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2160601
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2160600
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2160598
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2160599
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2160599
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2160591
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2160591
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2160591
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2160592

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	02/25/2020			02/25/2020 16:14	Blanca Fach	2160591
EPA 200.7 Rev. 4.4	02/25/2020	02/26/2020 17:40	Elliott D. Healy	02/28/2020 00:37	Martin Acosta	2160602
	02/25/2020	02/26/2020 17:40	Elliott D. Healy	02/28/2020 02:27	Martin Acosta	2160602
	02/25/2020	02/26/2020 17:40	Elliott D. Healy	03/04/2020 13:36	Betina Topolski	2160602
EPA 200.8 Rev. 5.4	02/25/2020	02/26/2020 17:40	Elliott D. Healy	03/03/2020 20:45	Justin Cutchin	2160602
	02/25/2020	02/26/2020 17:40	Elliott D. Healy	03/13/2020 13:55	Alexander Thompson	2160602
	02/25/2020	03/09/2020 13:10	Elliott D. Healy	03/11/2020 17:19	Alexander Thompson	2160602
EPA 300.0 Rev. 2.1	02/25/2020			03/06/2020 22:43	Lipi Saha	2160591
EPA 350.1 Rev. 2.0	02/25/2020			03/02/2020 11:21	Ping Hua	2160592
EPA 351.2 Rev. 2.0	02/25/2020	03/02/2020 14:25	Sima Feizi	03/03/2020 12:00	Jhamieka S. Greenwood	2160592
EPA 353.2 Rev. 2.0	02/25/2020			03/06/2020 10:40	Lauren Lees	2160592
EPA 365.1 Rev. 2.0	02/25/2020	03/04/2020 13:06	Yen Ta	03/06/2020 10:22	Benjamin T. Nordmann	2160592
EPA 365.1 Rev. 2.0 dissolved	02/25/2020			02/26/2020 17:19	Carlos Miranda	2160593
EPA 8270E	02/25/2020	02/26/2020 09:00	Julie Wi	03/06/2020 18:10	Vandana T. Nagar	2160601
	02/25/2020	02/28/2020 08:30	Rasheda Ghaffari	03/06/2020 20:45	Arthur Maknenko	2160600
EPA 8276	02/25/2020	02/28/2020 08:30	Rasheda Ghaffari	03/05/2020 06:17	Michael Poppell	2160600
EPA 8321B	02/25/2020	02/26/2020 08:30	Hoor Shaik	03/08/2020 04:03	Juyoung Kim	2160598
	02/25/2020	02/27/2020 11:30	Rebecca Ware	02/27/2020 20:49	Rebecca Ware	2160599
	02/25/2020	02/27/2020 11:30	Rebecca Ware	02/28/2020 18:06	Rebecca Ware	2160599
	02/25/2020	02/27/2020 11:30	Rebecca Ware	03/06/2020 00:38	Rebecca Ware	2160599
	02/25/2020	02/28/2020 10:00	Hoor Shaik	03/08/2020 11:42	Juyoung Kim	2160599
SM 2320 B-2011	02/25/2020			02/29/2020 19:47	Dale L. Simmons	2160591
SM 2540 D-2011	02/25/2020			02/26/2020 14:06	Yijie Li	2160591
SM 4500 F-C-2011	02/25/2020			03/14/2020 07:18	Dale L. Simmons	2160591
SM 5310 B-2011	02/25/2020			02/27/2020 05:10	Lauren Lees	2160592