

Chemical Analysis Report

SO-DIST-2020-01-24-01

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

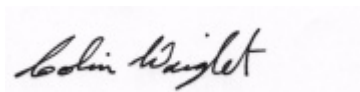
Event Description: **2020 SMP : Sarasota Cricks**
Request ID: **RQ-2020-01-20-36**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
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FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
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Certified by: Colin Wright, Program Administrator

Date Certified: 21-FEB-2020 09:34

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

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Metals, 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: South Creek @HonoreAve

Collection Date/Time: 01/23/2020 10:00

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151624	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P377786	
	EPA 300.0 Rev. 2.1	Chloride	65		mg Cl/L	P378151	
		Sulfate	220		mg SO4/L	P378156	
	SM 2120 B-2011	Color (true)	55	A	PCU	P377720	
	SM 2320 B-2011	Total Alkalinity	237		mg CaCO3/L	P378052	
	SM 2540 C-2011	TDS	713		mg/L	P378275	
	SM 2540 D-2011	TSS	4	I	mg/L	P378065	
	SM 4500 F-C-2011	Fluoride	0.46		mg F/L	P378057	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.099		mg N/L	P378392	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P378171	
2151625	EPA 353.2 Rev. 2.0	NO2NO3-N	0.098		mg N/L	P377937	
	EPA 365.1 Rev. 2.0	Total-P	0.034		mg P/L	P378028	
	SM 5310 B-2011	Organic Carbon	17		mg C/L	P377956	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.009	I	mg P/L	P377759	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P377677	
2151626		Aldicarb Sulfone	0.0020	U	ug/L	P377677	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P377677	
		Carbaryl	0.0020	U	ug/L	P377677	
		Carbofuran	0.0020	U	ug/L	P377677	RPD
		3-Hydroxycarbofuran	0.0020	U	ug/L	P377677	
		Methiocarb	0.0020	U	ug/L	P377677	
		Methomyl	0.0020	U	ug/L	P377677	
		Oxamyl	0.0020	U	ug/L	P377677	
		Propoxur	0.0020	U	ug/L	P377677	
		2,4-D	0.0020	U	ug/L	P377677	
2151672		Acesulfame K**	0.11	I	ug/L	P377680	
		AMPA**	0.32	I	ug/L	P377680	
		Sucralose**	1.8		ug/L	P377680	
		Acetaminophen**	0.0080	U	ug/L	P377677	
		Acetamiprid**	0.0020	U	ug/L	P377677	
		Endothal**	0.25	U	ug/L	P377680	
		Glufosinate**	0.10	U	ug/L	P377680	
		Glyphosate**	0.10	U	ug/L	P377680	
		Afidopyrophen**	0.0020	UJ	ug/L	P377677	
		Bentazon	0.052		ug/L	P377677	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377677	
		Carbamazepine**	0.0022	I	ug/L	P377677	
		Clothianidin**	0.0020	U	ug/L	P377677	
		Dinotefuran**	0.0020	U	ug/L	P377677	
		Diuron	0.0020	U	ug/L	P377677	
		Fenuron	0.016	U	ug/L	P377677	
		Fluridone**	0.28		ug/L	P377677	
		Imazapyr**	0.21		ug/L	P377677	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151672	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P377677	
		Ibuprofen**	0.020	U	ug/L	P377677	
		Imidacloprid	0.0045	I	ug/L	P377677	
		Linuron	0.0040	U	ug/L	P377677	
		Mandestrobin**	0.0020	UJ	ug/L	P377677	
		MCP	0.0020	U	ug/L	P377677	
		Naproxen**	0.0080	U	ug/L	P377677	
		Primidone**	0.011	I	ug/L	P377677	
		Pyraclostrobin**	0.0020	U	ug/L	P377677	
		Thiamethoxam**	0.0020	U	ug/L	P377677	
		Tolfenpyrad**	0.0020	U	ug/L	P377677	
		Triclopyr**	0.0040	U	ug/L	P377677	
2151678	EPA 8270E	Aldrin	4.2	U	ng/L	P377728	MS, RPD
		Alpha-BHC	2.1	U	ng/L	P377728	
		Alpha-Chlordane	1.1	U	ng/L	P377728	
		Beta-BHC	11	U	ng/L	P377728	
		Bifenthrin**	4.2	U	ng/L	P377728	
		Delta-BHC	8.4	U	ng/L	P377728	
		Gamma-BHC	8.4	U	ng/L	P377728	
		Carbophenothion	11	U	ng/L	P377728	RPD
		Chlorothalonil	2.1	UJ	ng/L	P377728	CCV
		Cis-Nonachlor**	1.1	U	ng/L	P377728	
		Cypermethrin	21	U	ng/L	P377728	
		DDD-p,p'	6.3	U	ng/L	P377728	
		DDE-p,p'	6.3	U	ng/L	P377728	
		DDT-p,p'	7.4	U	ng/L	P377728	
		Dicofol	32	U	ng/L	P377728	
		Dieldrin	4.2	U	ng/L	P377728	
		Endosulfan I	4.2	U	ng/L	P377728	
		Endosulfan II	4.2	U	ng/L	P377728	
		Endosulfan Sulfate	2.1	U	ng/L	P377728	
		Endrin	2.1	U	ng/L	P377728	
		Endrin Aldehyde	2.1	U	ng/L	P377728	
		Endrin Ketone	2.1	U	ng/L	P377728	
		Ethalfuralin**	3.2	U	ng/L	P377728	
		Gamma-Chlordane	1.1	U	ng/L	P377728	
		Heptachlor	1.6	U	ng/L	P377728	
		Heptachlor Epoxide	2.1	U	ng/L	P377728	
		Hexachlorobenzene	2.1	U	ng/L	P377728	
		Methoxychlor	4.2	U	ng/L	P377728	
		Mirex	2.1	U	ng/L	P377728	
		Permethrin	11	UJ	ng/L	P377728	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P377728	
		Trifluralin	2.6	U	ng/L	P377728	
	EPA 8276	Chlordane	5.3	U	ng/L	P377728	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151678	EPA 8276	Toxaphene	32	U	ng/L	P377728	
2151679	EPA 8270E	Acetochlor	0.24	U	ng/L	P377846	
		Alachlor	0.24	U	ng/L	P377846	
		Ametryn	7.0		ng/L	P377846	
		Atrazine	23		ng/L	P377846	
		Atrazine Desethyl	1.9	I	ng/L	P377846	
		Azinphos Methyl	4.8	U	ng/L	P377846	
		Bromacil	0.48	U	ng/L	P377846	
		Butylate	0.39	UJ	ng/L	P377846	RPD
		Carbophenothion	0.48	U	ng/L	P377846	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P377846	
		Chlorpyrifos Methyl	0.048	U	ng/L	P377846	
		Cyanazine	3.1	U	ng/L	P377846	
		Demeton	6.8	U	ng/L	P377846	
		Diazinon	0.12	U	ng/L	P377846	
		Dimethenamid**	0.097	U	ng/L	P377846	
		Disulfoton	0.48	U	ng/L	P377846	
		Dithiopyr**	0.097	U	ng/L	P377846	
		EPTC	1.2	UJ	ng/L	P377846	RPD
		Ethion	0.15	UJ	ng/L	P377846	RPD
		Ethoprop	0.097	U	ng/L	P377846	
		Fenamiphos	0.48	UJ	ng/L	P377846	RPD
		Fipronil	0.24	U	ng/L	P377846	
		Fipronil Desulfinyl**	0.32	IJ	ng/L	P377846	RPD
		Fipronil Sulfide	0.27	I	ng/L	P377846	
		Fipronil Sulfone	0.51	I	ng/L	P377846	
		Flumioxazin**	1.7	U	ng/L	P377846	
		Fonofos	0.19	U	ng/L	P377846	
		Hexazinone	3.2		ng/L	P377846	
		Imazalil**	0.73	UJ	ng/L	P377846	LCS, RPD
		Malathion	0.34	U	ng/L	P377846	
		Metalaxyl	0.73	U	ng/L	P377846	
		Metolachlor	17		ng/L	P377846	
		Metribuzin	3.1	U	ng/L	P377846	
		Mevinphos	0.48	U	ng/L	P377846	
		Molinate	0.29	U	ng/L	P377846	
		Norflurazon	0.48	U	ng/L	P377846	
		Oxadiazon**	0.76		ng/L	P377846	
		Parathion Ethyl	0.24	U	ng/L	P377846	
		Parathion Methyl	0.53	U	ng/L	P377846	
		Pendimethalin	0.97	U	ng/L	P377846	
		Phorate	0.24	U	ng/L	P377846	
		Prodiamine**	0.17	U	ng/L	P377846	
		Prometon	0.87	U	ng/L	P377846	
		Prometryn	0.19	U	ng/L	P377846	

Field ID: G3SD0090

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151679	EPA 8270E	Pronamide**	0.15	U	ng/L	P377846	RPD
		Propiconazole**	0.48	U	ng/L	P377846	
		Simazine	2.1		ng/L	P377846	
		Sulfentrazone**	1.5	I	ng/L	P377846	
		Tebuconazole**	0.48	UJ	ng/L	P377846	
		Terbufos	0.097	U	ng/L	P377846	
		Terbuthylazine	0.41	U	ng/L	P377846	
2151697	EPA 200.7 Rev. 4.4	Barium	47.5		ug/L	P377797	
		Calcium	150		mg/L	P377797	
		Iron	350		ug/L	P377797	
		Magnesium	23.8		mg/L	P377797	
		Potassium	2.9		mg/L	P377797	
		Sodium	48.5		mg/L	P377797	
		Zinc	5.0	U	ug/L	P377797	
	EPA 200.8 Rev. 5.4	Aluminum	21		ug/L	P377797	
		Antimony	0.19	I	ug/L	P377797	
		Arsenic	1.52		ug/L	P377797	
		Boron**	58.1		ug/L	P377797	
		Cadmium	0.020	U	ug/L	P377797	
		Chromium	0.40	U	ug/L	P377797	
		Copper	0.40	U	ug/L	P377797	
		Lead	0.20	U	ug/L	P377797	
		Nickel	0.82	I	ug/L	P377797	
		Selenium	0.33	I	ug/L	P377797	
		Silver	0.010	U	ug/L	P377797	
		Thallium	0.10	U	ug/L	P377797	
	SM 2340B	Hardness	472		mg/L	P377797	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

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.

Sample Location: Hatchett@PinebrookRd

Collection Date/Time: 01/23/2020 11:40

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151627	EPA 180.1 Rev. 2.0	Turbidity	3.3		NTU	P377786	
	EPA 300.0 Rev. 2.1	Chloride	160		mg Cl/L	P378151	
		Sulfate	170		mg SO4/L	P378156	
	SM 2120 B-2011	Color (true)	45	A	PCU	P377719	
	SM 2320 B-2011	Total Alkalinity	236		mg CaCO3/L	P378052	
	SM 2540 C-2011	TDS	766		mg/L	P378275	
	SM 2540 D-2011	TSS	4	I	mg/L	P378065	
	SM 4500 F-C-2011	Fluoride	0.20		mg F/L	P378057	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.085		mg N/L	P378392	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.88		mg N/L	P378171	
2151628	EPA 353.2 Rev. 2.0	NO2NO3-N	0.44		mg N/L	P377938	
	EPA 365.1 Rev. 2.0	Total-P	0.13		mg P/L	P378028	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P377956	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.065		mg P/L	P377759	
	dissolved						
2151629	EPA 8321B	Aldicarb	0.020	U	ug/L	P377677	
		Aldicarb Sulfone	0.0020	U	ug/L	P377677	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P377677	
		Carbaryl	0.0020	U	ug/L	P377677	
		Carbofuran	0.0020	U	ug/L	P377677	RPD
		3-Hydroxycarbofuran	0.0020	U	ug/L	P377677	
		Methiocarb	0.0020	U	ug/L	P377677	
		Methomyl	0.0020	U	ug/L	P377677	
		Oxamyl	0.0020	U	ug/L	P377677	
		Propoxur	0.0020	U	ug/L	P377677	
2151674		2,4-D	0.0067	I	ug/L	P377677	
		Acesulfame K**	0.10	U	ug/L	P377680	
		AMPA**	0.24	I	ug/L	P377680	
		Sucralose**	1.0		ug/L	P377680	
		Acetaminophen**	0.0080	U	ug/L	P377677	
		Acetamiprid**	0.0020	U	ug/L	P377677	
		Endothall**	0.25	U	ug/L	P377680	
		Glufosinate**	0.10	U	ug/L	P377680	
		Glyphosate**	0.96		ug/L	P377680	
		Afidopyrophen**	0.0020	UJ	ug/L	P377677	
		Bentazon	0.024		ug/L	P377677	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377677	
		Carbamazepine**	0.0016	I	ug/L	P377677	
		Clothianidin**	0.0036	I	ug/L	P377677	
		Dinotefuran**	0.0020	U	ug/L	P377677	
		Diuron	0.022		ug/L	P377677	
		Fenuron	0.021	I	ug/L	P377677	
		Fluridone**	0.060		ug/L	P377677	
		Imazapyr**	1.3		ug/L	P377677	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151674	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P377677	
		Ibuprofen**	0.020	U	ug/L	P377677	
		Imidacloprid	0.0020	U	ug/L	P377677	
		Linuron	0.0040	U	ug/L	P377677	
		Mandestrobin**	0.0020	UJ	ug/L	P377677	
		MCP	0.0020	U	ug/L	P377677	
		Naproxen**	0.0080	U	ug/L	P377677	
		Primidone**	0.015	I	ug/L	P377677	
		Pyraclostrobin**	0.0020	U	ug/L	P377677	
		Thiamethoxam**	0.0020	U	ug/L	P377677	
		Tolfenpyrad**	0.0020	U	ug/L	P377677	
		Triclopyr**	0.0040	U	ug/L	P377677	
2151680	EPA 8270E	Aldrin	4.3	U	ng/L	P377728	MS, RPD
		Alpha-BHC	2.1	U	ng/L	P377728	
		Alpha-Chlordane	1.1	U	ng/L	P377728	
		Beta-BHC	11	U	ng/L	P377728	
		Bifenthrin**	4.3	U	ng/L	P377728	
		Delta-BHC	8.5	U	ng/L	P377728	
		Gamma-BHC	8.5	U	ng/L	P377728	
		Carbophenothion	11	U	ng/L	P377728	RPD
		Chlorothalonil	2.1	UJ	ng/L	P377728	CCV
		Cis-Nonachlor**	1.1	U	ng/L	P377728	
		Cypermethrin	21	U	ng/L	P377728	
		DDD-p,p'	6.4	U	ng/L	P377728	
		DDE-p,p'	6.4	U	ng/L	P377728	
		DDT-p,p'	7.4	U	ng/L	P377728	
		Dicofol	32	U	ng/L	P377728	
		Dieldrin	4.3	U	ng/L	P377728	
		Endosulfan I	4.3	U	ng/L	P377728	
		Endosulfan II	4.3	U	ng/L	P377728	
		Endosulfan Sulfate	2.1	U	ng/L	P377728	
		Endrin	2.1	U	ng/L	P377728	
		Endrin Aldehyde	2.1	U	ng/L	P377728	
		Endrin Ketone	2.1	U	ng/L	P377728	
		Ethalfuralin**	3.2	U	ng/L	P377728	
		Gamma-Chlordane	1.1	U	ng/L	P377728	
		Heptachlor	1.6	U	ng/L	P377728	
		Heptachlor Epoxide	2.1	U	ng/L	P377728	
		Hexachlorobenzene	2.1	U	ng/L	P377728	
		Methoxychlor	4.3	U	ng/L	P377728	
		Mirex	2.1	U	ng/L	P377728	
		Permethrin	11	UJ	ng/L	P377728	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P377728	
		Trifluralin	2.7	U	ng/L	P377728	
		Chlordane	5.3	U	ng/L	P377728	

EPA 8276

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151680	EPA 8276	Toxaphene	32	U	ng/L	P377728	
2151681	EPA 8270E	Acetochlor	0.24	U	ng/L	P377846	
		Alachlor	0.24	U	ng/L	P377846	
		Ametryn	8.1		ng/L	P377846	
		Atrazine	33		ng/L	P377846	
		Atrazine Desethyl	1.5	U	ng/L	P377846	
		Azinphos Methyl	4.8	U	ng/L	P377846	
		Bromacil	0.48	U	ng/L	P377846	
		Butylate	0.39	UJ	ng/L	P377846	RPD
		Carbophenothion	0.48	U	ng/L	P377846	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P377846	
		Chlorpyrifos Methyl	0.048	U	ng/L	P377846	
		Cyanazine	3.1	U	ng/L	P377846	
		Demeton	6.8	U	ng/L	P377846	
		Diazinon	0.12	U	ng/L	P377846	
		Dimethenamid**	0.097	U	ng/L	P377846	
		Disulfoton	0.48	U	ng/L	P377846	
		Dithiopyr**	0.097	U	ng/L	P377846	
		EPTC	1.2	U	ng/L	P377846	RPD
		Ethion	0.15	U	ng/L	P377846	RPD
		Ethoprop	0.097	U	ng/L	P377846	
		Fenamiphos	0.48	U	ng/L	P377846	RPD
		Fipronil	0.24	U	ng/L	P377846	
		Fipronil Desulfinyl**	0.57		ng/L	P377846	RPD
		Fipronil Sulfide	0.47	I	ng/L	P377846	
		Fipronil Sulfone	1.4		ng/L	P377846	
		Flumioxazin**	1.7	U	ng/L	P377846	
		Fonofos	0.19	U	ng/L	P377846	
		Hexazinone	4.7		ng/L	P377846	
		Imazalil**	0.73	UJ	ng/L	P377846	LCS, RPD
		Malathion	0.34	U	ng/L	P377846	
		Metalaxyl	0.73	U	ng/L	P377846	
		Metolachlor	0.48	U	ng/L	P377846	
		Metribuzin	3.1	U	ng/L	P377846	
		Mevinphos	0.48	U	ng/L	P377846	
		Molinate	0.29	U	ng/L	P377846	
		Norflurazon	0.48	U	ng/L	P377846	
		Oxadiazon**	6.2		ng/L	P377846	
		Parathion Ethyl	0.24	U	ng/L	P377846	
		Parathion Methyl	0.53	U	ng/L	P377846	
		Pendimethalin	0.97	U	ng/L	P377846	
		Phorate	0.24	U	ng/L	P377846	
		Prodiamine**	0.17	U	ng/L	P377846	
		Prometon	0.87	U	ng/L	P377846	
		Prometryn	0.19	U	ng/L	P377846	

Field ID: G3SD0103

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151681	EPA 8270E	Pronamide**	0.15	U	ng/L	P377846	RPD
		Propiconazole**	0.48	U	ng/L	P377846	
		Simazine	0.57	I	ng/L	P377846	
		Sulfentrazone**	31		ng/L	P377846	
		Tebuconazole**	0.48	U	ng/L	P377846	
		Terbufos	0.097	U	ng/L	P377846	
		Terbuthylazine	0.41	U	ng/L	P377846	
2151698	EPA 200.7 Rev. 4.4	Barium	29.7		ug/L	P377797	
		Calcium	148		mg/L	P377797	
		Iron	480		ug/L	P377797	
		Magnesium	22.5		mg/L	P377797	
		Potassium	4.5		mg/L	P377797	
		Sodium	85.9		mg/L	P377797	
		Zinc	5.0	U	ug/L	P377797	
	EPA 200.8 Rev. 5.4	Aluminum	36		ug/L	P377797	
		Antimony	0.10	I	ug/L	P377797	
		Arsenic	0.84		ug/L	P377797	
		Boron**	53.3		ug/L	P377797	
		Cadmium	0.020	U	ug/L	P377797	
		Chromium	0.55	I	ug/L	P377797	
		Copper	1.14		ug/L	P377797	
		Lead	0.20	U	ug/L	P377797	
		Nickel	0.50	U	ug/L	P377797	
		Selenium	0.27	I	ug/L	P377797	
		Silver	0.010	U	ug/L	P377797	
		Thallium	0.10	U	ug/L	P377797	
	SM 2340B	Hardness	461		mg/L	P377797	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

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.

Sample Location: Curry(Tidal)@AlbeeFarm

Collection Date/Time: 01/23/2020 10:50

Field ID: G3SD0066

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151630	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P377786	
	EPA 300.0 Rev. 2.1	Sulfate	1.8E+03		mg SO4/L	P378156	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P378051	
	SM 2540 D-2011	TSS	3	UA	mg/L	P378071	
	SM 4500 F-C-2011	Fluoride	0.91		mg F/L	P378056	
2151632	EPA 350.1 Rev. 2.0	Ammonia-N	0.093		mg N/L	P378393	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.56		mg N/L	P378168	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.052		mg N/L	P378077	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P377860	
	SM 5310 B-2011	Organic Carbon	7.1		mg C/L	P377960	
2151634	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.073		mg P/L	P377761	
2151675	EPA 8321B	2,4-D	0.0023	I	ug/L	P377677	
		Acesulfame K**	0.10	UJ	ug/L	P377680	SUR
		AMPA**	1.0	U	ug/L	P377680	
		Sucralose**	0.15	J	ug/L	P377680	SUR
		Acetaminophen**	0.0080	U	ug/L	P377677	
		Acetamiprid**	0.0020	U	ug/L	P377677	
		Endothall**	0.25	UJ	ug/L	P377680	SUR
		Glufosinate**	1.0	U	ug/L	P377680	
		Glyphosate**	1.0	U	ug/L	P377680	
		Afidopyropen**	0.0020	UJ	ug/L	P377677	
		Bentazon	0.0063		ug/L	P377677	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377677	
		Carbamazepine**	0.0017	I	ug/L	P377677	
		Clothianidin**	0.0020	U	ug/L	P377677	
		Dinotefuran**	0.0057	I	ug/L	P377677	
		Diuron	0.0020	U	ug/L	P377677	
		Fenuron	0.016	U	ug/L	P377677	
		Fluridone**	0.0038		ug/L	P377677	
		Imazapyr**	0.087		ug/L	P377677	
		Hydrocodone**	0.0020	U	ug/L	P377677	
		Ibuprofen**	0.020	U	ug/L	P377677	
		Imidacloprid	0.0046	I	ug/L	P377677	
		Linuron	0.0040	U	ug/L	P377677	
		Mandestrobin**	0.0020	UJ	ug/L	P377677	
		MCP	0.0020	U	ug/L	P377677	
		Naproxen**	0.0080	U	ug/L	P377677	
		Primidone**	0.0064	I	ug/L	P377677	
		Pyraclostrobin**	0.0020	U	ug/L	P377677	
		Thiamethoxam**	0.0020	U	ug/L	P377677	
		Tolfenpyrad**	0.0020	U	ug/L	P377677	
		Triclopyr**	0.0040	U	ug/L	P377677	
2151699	EPA 200.7 Rev. 4.4	Barium	15		ug/L	P377884	

Field ID: G3SD0066

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151699	EPA 200.7 Rev. 4.4	Calcium	303		mg/L	P377884	
		Iron	90	U	ug/L	P377884	
		Magnesium	880		mg/L	P377884	
		Potassium	258		mg/L	P377884	
		Sodium	6.99E+03		mg/L	P377884	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P377884	
		Aluminum	20	U	ug/L	P379130	
		Antimony	0.24	I	ug/L	P377884	
		Arsenic	1.81		ug/L	P379130	
		Boron**	2.59E+03		ug/L	P377884	
		Cadmium	0.080	U	ug/L	P377884	
		Chromium	4.0	U	ug/L	P377884	
		Copper	1.6	U	ug/L	P379130	
		Lead	2.0	U	ug/L	P377884	
		Nickel	2.0	U	ug/L	P377884	
		Selenium	0.80	U	ug/L	P377884	
		Silver	0.040	U	ug/L	P379130	
		Thallium	0.40	U	ug/L	P377884	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

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

EPA 8321B: Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Sample Location: Curry(Tidal)@AlbeeFarm

Collection Date/Time: 01/23/2020 10:50

Field ID: G3SD0066_dup

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151631	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P377786	
	EPA 300.0 Rev. 2.1	Sulfate	1.9E+03		mg SO4/L	P378156	
	SM 2320 B-2011	Total Alkalinity	137		mg CaCO3/L	P378051	
	SM 2540 D-2011	TSS	3	U	mg/L	P378071	
	SM 4500 F-C-2011	Fluoride	0.91		mg F/L	P378056	
2151633	EPA 350.1 Rev. 2.0	Ammonia-N	0.083		mg N/L	P378393	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.55		mg N/L	P378168	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.048		mg N/L	P378077	
	EPA 365.1 Rev. 2.0	Total-P	0.098		mg P/L	P378030	
	SM 5310 B-2011	Organic Carbon	6.8		mg C/L	P377960	
2151635	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.074		mg P/L	P377761	
2151676	EPA 8321B	2,4-D	0.0028	I	ug/L	P377677	
		Acesulfame K**	0.10	UJ	ug/L	P377680	SUR
		AMPA**	1.0	U	ug/L	P377680	
		Sucralose**	0.12	J	ug/L	P377680	SUR
		Acetaminophen**	0.0080	U	ug/L	P377677	
		Acetamiprid**	0.0020	U	ug/L	P377677	
		Endothall**	0.25	UJ	ug/L	P377680	SUR
		Glufosinate**	1.0	U	ug/L	P377680	
		Glyphosate**	1.0	U	ug/L	P377680	
		Afidopyropen**	0.0020	UJ	ug/L	P377677	
		Bentazon	0.0064		ug/L	P377677	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377677	
		Carbamazepine**	0.0017	I	ug/L	P377677	
		Clothianidin**	0.0020	U	ug/L	P377677	
		Dinotefuran**	0.0053	I	ug/L	P377677	
		Diuron	0.0020	U	ug/L	P377677	
		Fenuron	0.016	U	ug/L	P377677	
		Fluridone**	0.0037		ug/L	P377677	
		Imazapyr**	0.089		ug/L	P377677	
		Hydrocodone**	0.0020	U	ug/L	P377677	
		Ibuprofen**	0.020	U	ug/L	P377677	
		Imidacloprid	0.0042	I	ug/L	P377677	
		Linuron	0.0040	U	ug/L	P377677	
		Mandestrobin**	0.0020	UJ	ug/L	P377677	
		MCP	0.0020	U	ug/L	P377677	
		Naproxen**	0.0080	U	ug/L	P377677	
		Primidone**	0.0072	I	ug/L	P377677	
		Pyraclostrobin**	0.0020	U	ug/L	P377677	
		Thiamethoxam**	0.0020	U	ug/L	P377677	
		Tolfenpyrad**	0.0020	U	ug/L	P377677	
		Triclopyr**	0.0040	U	ug/L	P377677	
2151700	EPA 200.7 Rev. 4.4	Barium	14		ug/L	P377884	

Field ID: G3SD0066_dup

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151700	EPA 200.7 Rev. 4.4	Calcium	312		mg/L	P377884	
		Iron	90	U	ug/L	P377884	
		Magnesium	882		mg/L	P377884	
		Potassium	261		mg/L	P377884	
		Sodium	7.38E+03		mg/L	P377884	
	EPA 200.8 Rev. 5.4	Zinc	15	U	ug/L	P377884	
		Aluminum	22	I	ug/L	P379130	
		Antimony	0.56	I	ug/L	P377884	
		Arsenic	1.88		ug/L	P379130	
		Boron**	2.65E+03		ug/L	P377884	
		Cadmium	0.23	I	ug/L	P377884	
		Chromium	4.0	U	ug/L	P377884	
		Copper	1.6	U	ug/L	P379130	
		Lead	3.9	I	ug/L	P377884	
		Nickel	6.0	I	ug/L	P377884	
		Selenium	0.80	U	ug/L	P377884	
		Silver	0.040	U	ug/L	P379130	
		Thallium	0.40	U	ug/L	P377884	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

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

EPA 8321B: Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

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

EPA 200.8 Rev. 5.4: Batch matrix spike recoveries for boron are unavailable because of high analyte concentration in the QC sample.

Sample Location: Alligator Tidal @ US 41

Collection Date/Time: 01/23/2020 12:30

Field ID: G2SD0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151636	EPA 180.1 Rev. 2.0	Turbidity	2.8	A	NTU	P377787	
	EPA 300.0 Rev. 2.1	Sulfate	730		mg SO4/L	P378156	
	SM 2320 B-2011	Total Alkalinity	232		mg CaCO3/L	P378051	
	SM 2540 D-2011	TSS	5	I	mg/L	P378071	
	SM 4500 F-C-2011	Fluoride	0.45		mg F/L	P378551	
2151637	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P378393	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P378173	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P378076	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P378030	
	SM 5310 B-2011	Organic Carbon	12		mg C/L	P377960	
2151638	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.087		mg P/L	P377761	
2151677	EPA 8321B	2,4-D	0.0020	U	ug/L	P377677	
		Acesulfame K**	0.14	I	ug/L	P377680	
		AMPA**	1.0	U	ug/L	P377680	
		Sucralose**	0.56	J	ug/L	P377680	SUR
		Acetaminophen**	0.0080	U	ug/L	P377677	
		Acetamiprid**	0.0020	U	ug/L	P377677	
		Endothall**	0.25	U	ug/L	P377680	
		Glufosinate**	1.0	U	ug/L	P377680	
		Glyphosate**	7.4		ug/L	P377680	
		Afidopyropen**	0.0020	UJ	ug/L	P377677	
		Bentazon	0.014		ug/L	P377677	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P377677	
		Carbamazepine**	0.011		ug/L	P377677	
		Clothianidin**	0.0020	U	ug/L	P377677	
		Dinotefuran**	0.0020	U	ug/L	P377677	
		Diuron	0.0020	U	ug/L	P377677	
		Fenuron	0.016	U	ug/L	P377677	
		Fluridone**	0.011		ug/L	P377677	
		Imazapyr**	0.62		ug/L	P377677	
		Hydrocodone**	0.0020	U	ug/L	P377677	
		Ibuprofen**	0.020	U	ug/L	P377677	
		Imidacloprid	0.0086		ug/L	P377677	
		Linuron	0.0040	U	ug/L	P377677	
		Mandestrobin**	0.0020	UJ	ug/L	P377677	
		MCP	0.0020	I	ug/L	P377677	
		Naproxen**	0.0080	U	ug/L	P377677	
		Primidone**	0.038		ug/L	P377677	
		Pyraclostrobin**	0.0020	U	ug/L	P377677	
		Thiamethoxam**	0.0020	U	ug/L	P377677	
		Tolfenpyrad**	0.0020	U	ug/L	P377677	
		Triclopyr**	0.0040	U	ug/L	P377677	
2151701	EPA 200.7 Rev. 4.4	Iron	90	U	ug/L	P377884	

Field ID: G2SD0025

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151701	EPA 200.7 Rev. 4.4	Manganese	4.1	I	ug/L	P377884	
		Zinc	15	U	ug/L	P377884	
	EPA 200.8 Rev. 5.4	Aluminum	50	U	ug/L	P377884	
		Antimony	0.23	I	ug/L	P377884	
		Arsenic	1.56		ug/L	P377884	
		Cadmium	0.080	U	ug/L	P377884	
		Chromium	4.0	U	ug/L	P377884	
		Copper	1.6	U	ug/L	P377884	
		Lead	2.0	U	ug/L	P377884	
		Nickel	2.0	U	ug/L	P377884	
		Selenium	0.80	U	ug/L	P377884	
		Silver	0.040	U	ug/L	P377884	
		Thallium	0.40	U	ug/L	P377884	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: J - second source check standards for some analytes were not available for analysis.

EPA 8321B: MDL for some parameters elevated due to matrix interference.

EPA 8321B: Results confirmed in sample duplicate. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Alligator @ Jacaranda

Collection Date/Time: 01/23/2020 13:15

Field ID: G2SD0026

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2151639	EPA 180.1 Rev. 2.0	Turbidity	1.4		NTU	P377787	
	EPA 300.0 Rev. 2.1	Chloride	100		mg Cl/L	P378151	
		Sulfate	93		mg SO4/L	P378156	
		Color (true)	50		PCU	P377719	
	SM 2320 B-2011	Total Alkalinity	268		mg CaCO3/L	P378052	
	SM 2540 C-2011	TDS	604	A	mg/L	P378275	
	SM 2540 D-2011	TSS	2	IA	mg/L	P378065	
	SM 4500 F-C-2011	Fluoride	0.16		mg F/L	P378057	
2151640	EPA 350.1 Rev. 2.0	Ammonia-N	0.15		mg N/L	P378392	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P378171	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P377938	
	EPA 365.1 Rev. 2.0	Total-P	0.091		mg P/L	P378028	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P377956	
2151641	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P377759	

Ref. Method and Comment:

EPA 300.0 Rev. 2.1: Sulfate: Batch matrix spike recoveries for one of two spiked samples are unavailable because of high analyte concentration in the QC sample.

SM 2540 D-2011: 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: P377786

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377787

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377797

Component	Result	Code	Units
Barium	1.0	U	ug/L
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 200.7 Rev. 4.4
Batch ID: P377884

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Manganese	1.0	U	ug/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: P377797

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	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
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377884

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	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
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379130

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Arsenic	0.050	U	ug/L
Copper	0.40	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378151

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378156

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378392

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378393

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378168

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: P378171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378173

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377937

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378076

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378077

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377860

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378028

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378030

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377759

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377761

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

Reference Method: EPA 8270E
Batch ID: P377728

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
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	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
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E
Batch ID: P377846

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L

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Method Blank Results

Reference Method: EPA 8270E
 Batch ID: P377846

Component	Result	Code	Units
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
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

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Method Blank Results

Reference Method: EPA 8276

Batch ID: P377728

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

Reference Method: EPA 8321B

Batch ID: P377677

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
Acetamiprid	0.0020	U	ug/L
Afidopyropen	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
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0020	U	ug/L
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
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B

Batch ID: P377680

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P377680

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B-2011
Batch ID: P377719

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B-2011
Batch ID: P377720

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-2011
Batch ID: P378051

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

Reference Method: SM 2320 B-2011
Batch ID: P378052

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

Reference Method: SM 2540 C-2011
Batch ID: P378275

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P378065

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P378071

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-2011
Batch ID: P378056

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

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Method Blank Results

Reference Method: SM 4500 F-C-2011
Batch ID: P378057

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-2011
Batch ID: P378551

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P377956

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

Reference Method: SM 5310 B-2011
Batch ID: P377960

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: P377797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	100		P	85 - 115
Iron	104		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	102		P	85 - 115
Sodium	104		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	102		P	85 - 115
Calcium	103		P	85 - 115
Iron	104		P	85 - 115
Magnesium	103		P	85 - 115
Manganese	101		P	85 - 115
Potassium	100		P	85 - 115
Sodium	101		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377797

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	104		P	80 - 120
Antimony	107		P	80 - 120
Arsenic	103		P	85 - 115
Boron	98.6		P	85 - 115
Cadmium	105		P	85 - 115
Chromium	93.5		P	85 - 115
Copper	97.9		P	85 - 115
Lead	101		P	85 - 115
Nickel	94.3		P	85 - 115
Selenium	103		P	85 - 115
Silver	103		P	85 - 115
Thallium	87.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	108		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	102		P	85 - 115
Boron	99.3		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.9		P	85 - 115
Copper	105		P	85 - 115
Lead	114		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	98.4		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377884

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Silver	102		P	85 - 115
Thallium	99.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379130

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.9		P	85 - 115
Arsenic	94.7		P	85 - 115
Copper	97.8		P	85 - 115
Silver	94.1		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378151

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378156

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378392

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378393

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378168

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378171

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378173

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378173

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377937

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: P377938

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378076

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378077

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377860

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378028

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378030

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	107		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377759

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	104		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P377761

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

Reference Method: EPA 8270E
 Batch ID: P377728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	59.6	60.3	P/P	20 - 87.0
Alpha-BHC	97.9	91.5	P/P	65 - 142
Alpha-Chlordane	85.3	79.2	P/P	58 - 106
Beta-BHC	71.2	65.0	P/P	65 - 179
Bifenthrin	110	99.2	P/P	38 - 128
Carbophenothion	80.8	71.8	P/P	20 - 144
Chlorothalonil	94.5	83.8	P/P	20 - 214
Cis-Nonachlor	85.2	78.9	P/P	56 - 113
Cypermethrin	119	104	P/P	37 - 130
DDD-p,p'	89.1	83.7	P/P	66 - 119
DDE-p,p'	81.4	75.1	P/P	53 - 108
DDT-p,p'	91.5	87.9	P/P	57 - 133
Delta-BHC	79.9	72.5	P/P	68 - 187
Dicofol	92.9	94.6	P/P	66 - 123
Dieldrin	87.8	83.3	P/P	65 - 111
Endosulfan I	91.7	84.5	P/P	65 - 115
Endosulfan II	88.7	79.9	P/P	68 - 133
Endosulfan Sulfate	112	103	P/P	62 - 127
Endrin	87.9	81.5	P/P	64 - 122
Endrin Aldehyde	93.3	88.9	P/P	61 - 132
Endrin Ketone	115	105	P/P	66 - 120
Ethalfuralin	85.0	80.6	P/P	57 - 127
Gamma-BHC	83.6	72.8	P/P	71 - 158
Gamma-Chlordane	81.2	76.4	P/P	53 - 106
Heptachlor	82.8	81.6	P/P	45 - 96.0
Heptachlor Epoxide	86.8	81.9	P/P	64 - 109
Hexachlorobenzene	77.5	75.4	P/P	46 - 103
Methoxychlor	106	106	P/P	69 - 149
Mirex	84.0	75.1	P/P	31 - 90.0
Permethrin	116	100	F/P	41 - 108
Trans-Nonachlor	80.7	75.9	P/P	50 - 107
Trifluralin	88.3	83.0	P/P	58 - 119

Reference Method: EPA 8270E
 Batch ID: P377846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	101	91.7	P/P	71 - 122
Alachlor	102	90.8	P/P	70 - 121
Ametryn	101	95.8	P/P	49 - 137
Atrazine	107	95.5	P/P	76 - 125
Atrazine Desethyl	71.1	65.7	P/P	31 - 144
Azinphos Methyl	108	97.6	P/P	67 - 150
Bromacil	97.0	90.5	P/P	36 - 121
Butylate	62.9	44.1	P/P	33 - 88.0
Carbophenothion	104	95.7	P/P	50 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
 Batch ID: P377846

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Ethyl	106	93.1	P/P	73 - 117
Chlorpyrifos Methyl	96.0	81.3	P/P	68 - 121
Cyanazine	99.2	86.8	P/P	20 - 250
Demeton	71.4	62.2	P/P	30 - 123
Diazinon	93.0	84.5	P/P	70 - 128
Dimethenamid	98.9	87.7	P/P	66 - 122
Disulfoton	83.4	72.1	P/P	46 - 124
Dithiopyr	100	94.6	P/P	69 - 122
EPTC	59.4	44.1	P/P	31 - 90.0
Ethion	112	99.0	P/P	45 - 135
Ethoprop	80.3	69.5	P/P	59 - 118
Fenamiphos	85.5	91.3	P/P	30 - 136
Fipronil	108	99.6	P/P	57 - 127
Fipronil Desulfinyl	110	103	P/P	51 - 122
Fipronil Sulfide	104	93.9	P/P	57 - 119
Fipronil Sulfone	101	93.5	P/P	51 - 119
Flumioxazin	116	109	P/P	70 - 200
Fonofos	80.8	73.1	P/P	60 - 120
Hexazinone	113	98.6	P/P	57 - 142
Imazalil	35.6	52.3	F/P	50 - 150
Malathion	103	95.5	P/P	67 - 128
Metalaxyl	64.3	60.9	P/P	21 - 148
Metolachlor	98.8	90.0	P/P	70 - 120
Metribuzin	97.6	82.2	P/P	20 - 253
Mevinphos	66.4	52.8	P/P	47 - 116
Molinate	65.8	50.8	P/P	41 - 99.0
Norflurazon	109	99.2	P/P	54 - 127
Oxadiazon	110	97.7	P/P	65 - 122
Parathion Ethyl	97.5	91.1	P/P	71 - 113
Parathion Methyl	97.1	91.1	P/P	73 - 129
Pendimethalin	96.0	90.7	P/P	63 - 130
Phorate	75.0	60.6	P/P	48 - 118
Prodiamine	106	99.0	P/P	20 - 144
Prometon	102	96.6	P/P	53 - 120
Prometryn	103	98.4	P/P	63 - 119
Pronamide	103	93.0	P/P	50 - 150
Propiconazole	100	94.1	P/P	50 - 150
Simazine	102	92.8	P/P	77 - 129
Sulfentrazone	57.1	51.0	P/P	50 - 150
Tebuconazole	92.8	88.5	P/P	20 - 118
Terbufos	85.7	75.2	P/P	61 - 119
Terbutylazine	103	93.1	P/P	75 - 119

Reference Method: EPA 8276
 Batch ID: P377728

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	83.4	84.7	P/P	47 - 119
Toxaphene	109	105	P/P	41 - 112

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P377677

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	99.8		P	30 - 160
3-Hydroxycarbofuran	76.1		P	30 - 160
Acetaminophen	73.6		P	30 - 160
Acetamiprid	82.6		P	30 - 160
Afidopyropen	85.3		P	30 - 160
Aldicarb	80.5		P	30 - 160
Aldicarb Sulfone	86.2		P	30 - 160
Aldicarb Sulfoxide	90.7		P	30 - 160
Bentazon	80.1		P	30 - 160
Benzovindiflupyr	87.1		P	30 - 160
Carbamazepine	98.4		P	30 - 160
Carbaryl	67.0		P	30 - 160
Carbofuran	80.3		P	30 - 160
Clothianidin	77.8		P	30 - 160
Dinotefuran	93.1		P	30 - 160
Diuron	77.5		P	30 - 160
Fenuron	102		P	30 - 160
Fluridone	92.4		P	30 - 160
Hydrocodone	83.2		P	30 - 160
Ibuprofen	81.9		P	30 - 160
Imazapyr	100		P	30 - 160
Imidacloprid	90.5		P	30 - 160
Linuron	80.0		P	30 - 160
Mandestrobin	91.2		P	30 - 160
MCPP	103		P	30 - 160
Methiocarb	70.4		P	30 - 160
Methomyl	77.6		P	30 - 160
Naproxen	78.3		P	30 - 160
Oxamyl	91.3		P	30 - 160
Primidone	76.8		P	30 - 160
Propoxur	75.7		P	30 - 160
Pyraclostrobin	98.8		P	30 - 160
Thiamethoxam	88.1		P	30 - 160
Tolfenpyrad	69.8		P	30 - 160
Triclopyr	76.7		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P377680

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	126		P	40 - 150
AMPA	85.5		P	40 - 150
Endothall	118		P	40 - 150
Glufosinate	89.6		P	40 - 150
Glyphosate	80.1		P	40 - 140
Sucralose	80.9		P	40 - 150

Reference Method: SM 2120 B-2011
Batch ID: P377719

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2120 B-2011
Batch ID: P377720

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	101		P	85 - 115

Reference Method: SM 2320 B-2011
Batch ID: P378051

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

Reference Method: SM 2320 B-2011
Batch ID: P378052

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	98 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P378056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.7		P	92 - 103

Reference Method: SM 4500 F-C-2011
Batch ID: P378057

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.2		P	92 - 103

Reference Method: SM 4500 F-C-2011
Batch ID: P378551

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.0		P	92 - 103

Reference Method: SM 5310 B-2011
Batch ID: P377956

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

Reference Method: SM 5310 B-2011
Batch ID: P377960

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.7		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151873	Barium	99.9	102	P/P	80 - 120
2151873	Calcium	100		P	80 - 120
2151873	Iron	102	103	P/P	80 - 120
2151873	Magnesium	99.1	99.4	P/P	80 - 120
2151873	Potassium	98.7	99.6	P/P	80 - 120
2151873	Sodium	101	101	P/P	80 - 120
2151873	Zinc	100	102	P/P	80 - 120

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151514	Barium	101	96.1	P/P	80 - 120
2151514	Iron	108	105	P/P	80 - 120
2151514	Manganese	101	96.1	P/P	80 - 120
2151514	Zinc	103	99.2	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377797

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151873	Aluminum	99.4	103	P/P	80 - 120
2151873	Antimony	104	108	P/P	80 - 120
2151873	Arsenic	101	102	P/P	80 - 120
2151873	Boron	95.4	99.3	P/P	80 - 120
2151873	Cadmium	101	102	P/P	80 - 120
2151873	Chromium	94.8	95.6	P/P	80 - 120
2151873	Copper	95.5	96.1	P/P	80 - 120
2151873	Lead	99.3	100	P/P	80 - 120
2151873	Nickel	93.9	93.5	P/P	80 - 120
2151873	Selenium	98.8	99.5	P/P	80 - 120
2151873	Silver	102	102	P/P	80 - 120
2151873	Thallium	89.8	92.5	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377884

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151514	Aluminum	118	117	P/P	80 - 120
2151514	Antimony	104	103	P/P	70 - 130
2151514	Arsenic	106	105	P/P	70 - 130
2151514	Cadmium	91.0	92.2	P/P	70 - 130
2151514	Chromium	91.6	91.7	P/P	70 - 130
2151514	Copper	119	120	P/P	80 - 120
2151514	Lead	118	116	P/P	80 - 120
2151514	Nickel	95.2	94.5	P/P	70 - 130
2151514	Selenium	87.3	86.4	P/P	70 - 130
2151514	Silver	91.4	90.6	P/P	70 - 130
2151514	Thallium	103	104	P/P	70 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379130

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2157648	Aluminum	101	102	P/P	80 - 120
2157648	Arsenic	97.4	98.4	P/P	80 - 120
2157648	Copper	92.8	93.7	P/P	80 - 120
2157648	Silver	85.4	87.3	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378151

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151580	Chloride	102		P	90 - 110
2151682	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151682	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378392

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151610	Ammonia-N	101	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378393

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151523	Ammonia-N	107	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378168

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151511	Kjeldahl Nitrogen	101	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151610	Kjeldahl Nitrogen	103	108	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378173

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151637	Kjeldahl Nitrogen	105	106	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
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Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377937

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151571	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151685	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378076

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151196	NO2NO3-N	99.4	99.9	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378077

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151900	NO2NO3-N	96.6	96.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377860

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2148986	Total-P	94.0	91.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151611	Total-P	109	110	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378030

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151633	Total-P	103	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377759

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151629	O-Phosphate-P	97.1	97.1	P/P	90 - 110
2151629	O-Phosphate-P	97.1		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151520	O-Phosphate-P	97.8	96.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P377728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151791	Aldrin	62.4	26.3	P/F	32 - 82.0
2151791	Alpha-BHC	94.9	80.4	P/P	68 - 157
2151791	Alpha-Chlordane	69.7	66.4	P/P	54 - 108
2151791	Beta-BHC	71.1	55.7	P/P	54 - 200
2151791	Bifenthrin	107	97.5	P/P	49 - 124
2151791	Carbophenothion	82.0	58.0	P/P	42 - 173
2151791	Chlorothalonil	115	92.1	P/P	10 - 289
2151791	Cis-Nonachlor	66.2	64.7	P/P	53 - 112
2151791	Cypermethrin	105	96.6	P/P	43 - 141
2151791	DDD-p,p'	70.8	67.5	P/P	58 - 125
2151791	DDE-p,p'	66.9	62.7	P/P	50 - 108
2151791	DDT-p,p'	90.1	76.7	P/P	52 - 140
2151791	Delta-BHC	82.9	62.2	P/P	61 - 228
2151791	Dicofol	104	79.1	P/P	59 - 130
2151791	Dieldrin	71.0	67.5	P/P	57 - 121
2151791	Endosulfan I	81.5	71.6	P/P	62 - 123
2151791	Endosulfan II	74.1	65.4	P/P	48 - 163
2151791	Endosulfan Sulfate	97.2	89.8	P/P	63 - 132
2151791	Endrin	71.3	67.5	P/P	58 - 128
2151791	Endrin Aldehyde	64.1	70.2	P/P	44 - 126
2151791	Endrin Ketone	103	94.5	P/P	68 - 127
2151791	Ethalfuralin	78.6	72.7	P/P	55 - 131
2151791	Gamma-BHC	87.8	76.5	P/P	54 - 206
2151791	Gamma-Chlordane	68.1	64.9	P/P	52 - 105
2151791	Heptachlor	75.6	69.1	P/P	47 - 94.0
2151791	Heptachlor Epoxide	73.8	69.0	P/P	61 - 113
2151791	Hexachlorobenzene	73.4	64.9	P/P	45 - 100
2151791	Methoxychlor	103	88.2	P/P	63 - 153
2151791	Mirex	79.6	68.0	P/P	38 - 90.0
2151791	Permethrin	108	93.4	P/P	45 - 112
2151791	Trans-Nonachlor	66.3	62.9	P/P	50 - 103
2151791	Trifluralin	82.9	75.5	P/P	57 - 122

Reference Method: EPA 8270E
Batch ID: P377846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151679	Acetochlor	92.2	88.0	P/P	68 - 126
2151679	Alachlor	93.6	96.0	P/P	66 - 125
2151679	Atrazine Desethyl	67.8	73.9	P/P	13 - 161
2151679	Azinphos Methyl	112	104	P/P	54 - 162
2151679	Bromacil	80.8	74.2	P/P	34 - 144
2151679	Butylate	53.1	36.5	P/P	16 - 92.0
2151679	Carbophenothion	94.3	81.0	P/P	50 - 150
2151679	Chlorpyrifos Ethyl	107	95.3	P/P	63 - 124
2151679	Chlorpyrifos Methyl	98.4	92.5	P/P	64 - 125
2151679	Cyanazine	88.3	93.7	P/P	13 - 245
2151679	Demeton	82.8	89.9	P/P	20 - 154
2151679	Diazinon	98.4	95.1	P/P	66 - 141
2151679	Dimethenamid	97.9	86.6	P/P	50 - 130
2151679	Disulfoton	86.9	87.8	P/P	55 - 130
2151679	Dithiopyr	100	90.5	P/P	66 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P377846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151679	EPTC	48.6	31.1	P/P	15 - 93.0
2151679	Ethion	108	73.1	P/P	15 - 148
2151679	Ethoprop	96.7	91.8	P/P	59 - 126
2151679	Fenamiphos	98.8	72.8	P/P	39 - 137
2151679	Fipronil	103	94.5	P/P	47 - 131
2151679	Fipronil Desulfinyl	119	84.5	P/P	43 - 121
2151679	Fipronil Sulfide	99.1	77.4	P/P	29 - 134
2151679	Fipronil Sulfone	92.9	74.9	P/P	19 - 131
2151679	Flumioxazin	127	102	P/P	70 - 200
2151679	Fonofos	91.0	87.7	P/P	62 - 128
2151679	Hexazinone	111	104	P/P	58 - 154
2151679	Imazalil	54.0	53.2	P/P	50 - 150
2151679	Malathion	107	104	P/P	54 - 135
2151679	Metalaxyl	105	95.4	P/P	46 - 136
2151679	Metribuzin	116	119	P/P	44 - 277
2151679	Mevinphos	83.4	85.3	P/P	44 - 135
2151679	Molinate	67.7	62.0	P/P	31 - 104
2151679	Norflurazon	95.6	82.2	P/P	32 - 134
2151679	Oxadiazon	84.0	66.9	P/P	55 - 123
2151679	Parathion Ethyl	100	92.7	P/P	67 - 120
2151679	Parathion Methyl	108	106	P/P	70 - 140
2151679	Pendimethalin	93.7	83.1	P/P	59 - 145
2151679	Phorate	89.3	86.9	P/P	52 - 127
2151679	Prodiamine	91.7	101	P/P	11 - 157
2151679	Prometon	99.2	87.4	P/P	55 - 130
2151679	Prometryn	98.9	94.4	P/P	55 - 127
2151679	Pronamide	90.7	95.4	P/P	50 - 150
2151679	Propiconazole	102	86.3	P/P	50 - 150
2151679	Simazine	102	102	P/P	58 - 159
2151679	Sulfentrazone	79.4	67.0	P/P	50 - 150
2151679	Tebuconazole	82.8	46.3	P/P	10 - 122
2151679	Terbufos	101	97.9	P/P	65 - 131
2151679	Terbuthylazine	99.2	93.6	P/P	63 - 131

Reference Method: EPA 8276
Batch ID: P377728

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151069	Chlordane	71.5	80.5	P/P	34 - 129
2151069	Toxaphene	83.2	86.7	P/P	26 - 123

Reference Method: EPA 8321B
Batch ID: P377677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2150558	3-Hydroxycarbofuran	83.7	71.6	P/P	30 - 160
2150558	Aldicarb	79.2	102	P/P	30 - 160
2150558	Aldicarb Sulfone	86.1	89.2	P/P	30 - 160
2150558	Aldicarb Sulfoxide	43.7	44.0	P/P	30 - 160
2150558	Carbaryl	57.5	53.5	P/P	30 - 160
2150558	Carbofuran	63.2	43.5	P/P	30 - 160
2150558	Methiocarb	54.9	49.1	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P377677

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2150558	Methomyl	84.3	78.6	P/P	30 - 160
2150558	Oxamyl	91.0	78.4	P/P	30 - 160
2150558	Propoxur	62.2	55.5	P/P	30 - 160
2151184	2,4-D	120	101	P/P	30 - 160
2151184	Acetaminophen	87.9	76.0	P/P	30 - 160
2151184	Acetamiprid	92.7	86.4	P/P	30 - 160
2151184	Afidopyropen	102	92.1	P/P	30 - 160
2151184	Bentazon	49.3	48.2	P/P	30 - 160
2151184	Benzovindiflupyr	94.6	85.3	P/P	30 - 160
2151184	Carbamazepine	95.5	84.0	P/P	30 - 160
2151184	Clothianidin	87.4	84.6	P/P	30 - 160
2151184	Dinotefuran	120	102	P/P	30 - 160
2151184	Diuron	72.0	59.2	P/P	30 - 160
2151184	Fenuron	100	90.9	P/P	30 - 160
2151184	Fluridone	95.8	84.6	P/P	30 - 160
2151184	Hydrocodone	110	96.3	P/P	30 - 160
2151184	Ibuprofen	61.2	70.9	P/P	30 - 160
2151184	Imazapyr	112	103	P/P	30 - 160
2151184	Imidacloprid	146	132	P/P	30 - 160
2151184	Linuron	76.2	60.3	P/P	30 - 160
2151184	Mandestrobin	95.6	84.0	P/P	30 - 160
2151184	MCCP	117	106	P/P	30 - 160
2151184	Naproxen	65.8	76.3	P/P	30 - 160
2151184	Primidone	109	93.1	P/P	30 - 160
2151184	Pyraclostrobin	105	94.0	P/P	30 - 160
2151184	Thiamethoxam	126	117	P/P	30 - 160
2151184	Tolfenpyrad	81.5	68.5	P/P	30 - 160
2151184	Triclopyr	110	88.2	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P377680

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151558	Acesulfame K	41.2	41.2	P/P	40 - 150
2151558	AMPA	95.4	96.6	P/P	40 - 150
2151558	Endothall	125	130	P/P	40 - 150
2151558	Glufosinate	86.4	97.1	P/P	40 - 150
2151558	Glyphosate	68.0	72.5	P/P	40 - 140
2151558	Sucralose	82.5	82.3	P/P	40 - 150

Reference Method: SM 4500 F-C-2011
Batch ID: P378056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2149240	Fluoride	97.5	99.0	P/P	89 - 106

Reference Method: SM 4500 F-C-2011
Batch ID: P378057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151851	Fluoride	104	105	P/P	89 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-2011
Batch ID: P378551

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151636	Fluoride	96.4	97.8	P/P	89 - 106

Reference Method: SM 5310 B-2011
Batch ID: P377956

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151547	Organic Carbon	95.8	97.0	P/P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P377960

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2151519	Organic Carbon	99.4	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377786

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151615	Turbidity	0.500	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P377787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151636	Turbidity	12.1	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151873	Barium	1.69	Spike	P	0 - 20
2151873	Calcium	0.250	Spike	P	0 - 20
2151873	Iron	0.675	Spike	P	0 - 20
2151873	Magnesium	0.139	Spike	P	0 - 20
2151873	Potassium	0.803	Spike	P	0 - 20
2151873	Sodium	0.297	Spike	P	0 - 20
2151873	Zinc	1.56	Spike	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P377884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151514	Barium	4.85	Spike	P	0 - 20
2151514	Calcium	1.02	Spike	P	0 - 20
2151514	Iron	2.78	Spike	P	0 - 20
2151514	Magnesium	0.926	Spike	P	0 - 20
2151514	Manganese	4.53	Spike	P	0 - 20
2151514	Potassium	1.51	Spike	P	0 - 20
2151514	Sodium	1.42	Spike	P	0 - 20
2151514	Zinc	3.97	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151873	Aluminum	3.05	Spike	P	0 - 20
2151873	Antimony	4.02	Spike	P	0 - 20
2151873	Arsenic	1.09	Spike	P	0 - 20
2151873	Boron	3.62	Spike	P	0 - 20
2151873	Cadmium	0.394	Spike	P	0 - 20
2151873	Chromium	0.831	Spike	P	0 - 20
2151873	Copper	0.586	Spike	P	0 - 20
2151873	Lead	0.943	Spike	P	0 - 20
2151873	Nickel	0.378	Spike	P	0 - 20
2151873	Selenium	0.718	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377797

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151873	Silver	0.0414	Spike	P	0 - 20
2151873	Thallium	2.93	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P377884

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151514	Aluminum	0.424	Spike	P	0 - 20
2151514	Antimony	0.622	Spike	P	0 - 20
2151514	Arsenic	0.620	Spike	P	0 - 20
2151514	Boron	1.90	Spike	P	0 - 20
2151514	Cadmium	1.35	Spike	P	0 - 20
2151514	Chromium	0.122	Spike	P	0 - 20
2151514	Copper	1.10	Spike	P	0 - 20
2151514	Lead	1.71	Spike	P	0 - 20
2151514	Nickel	0.747	Spike	P	0 - 20
2151514	Selenium	1.07	Spike	P	0 - 20
2151514	Silver	0.924	Spike	P	0 - 20
2151514	Thallium	1.35	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P379130

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2157648	Aluminum	0.220	Spike	P	0 - 20
2157648	Arsenic	1.09	Spike	P	0 - 20
2157648	Copper	0.956	Spike	P	0 - 20
2157648	Silver	2.18	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378151

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151580	Chloride	0.871	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P378156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151580	Sulfate	0.418	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151610	Ammonia-N	1.91	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P378393

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151523	Ammonia-N	0.556	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378168

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151511	Kjeldahl Nitrogen	2.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151610	Kjeldahl Nitrogen	3.17	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P378173

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151637	Kjeldahl Nitrogen	0.791	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377937

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151571	NO2NO3-N	0.575	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P377938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151685	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378076

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151196	NO2NO3-N	0.475	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P378077

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151900	NO2NO3-N	0.434	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P377860

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2148986	Total-P	2.85	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151611	Total-P	1.02	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P378030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151633	Total-P	1.04	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377759

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151629	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P377761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151520	O-Phosphate-P	1.16	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P377728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151791	Aldrin	81.2	Spike	F	0 - 30
2151791	Alpha-BHC	16.6	Spike	P	0 - 30
2151791	Alpha-Chlordane	4.83	Spike	P	0 - 30
2151791	Beta-BHC	24.4	Spike	P	0 - 30
2151791	Bifenthrin	9.70	Spike	P	0 - 30
2151791	Carbophenothion	34.4	Spike	F	0 - 30
2151791	Chlorothalonil	21.8	Spike	P	0 - 30
2151791	Cis-Nonachlor	2.19	Spike	P	0 - 30
2151791	Cypermethrin	8.47	Spike	P	0 - 30
2151791	DDD-p,p'	4.82	Spike	P	0 - 30
2151791	DDE-p,p'	6.47	Spike	P	0 - 30
2151791	DDT-p,p'	16.0	Spike	P	0 - 30
2151791	Delta-BHC	28.5	Spike	P	0 - 30
2151791	Dicofol	27.3	Spike	P	0 - 30
2151791	Dieldrin	5.13	Spike	P	0 - 30
2151791	Endosulfan I	13.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P377728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151791	Endosulfan II	12.5	Spike	P	0 - 30
2151791	Endosulfan Sulfate	7.94	Spike	P	0 - 30
2151791	Endrin	5.37	Spike	P	0 - 30
2151791	Endrin Aldehyde	9.04	Spike	P	0 - 30
2151791	Endrin Ketone	8.66	Spike	P	0 - 30
2151791	Ethalfuralin	7.76	Spike	P	0 - 30
2151791	Gamma-BHC	13.9	Spike	P	0 - 30
2151791	Gamma-Chlordane	4.80	Spike	P	0 - 30
2151791	Heptachlor	9.00	Spike	P	0 - 30
2151791	Heptachlor Epoxide	6.75	Spike	P	0 - 30
2151791	Hexachlorobenzene	12.4	Spike	P	0 - 30
2151791	Methoxychlor	15.7	Spike	P	0 - 30
2151791	Mirex	15.7	Spike	P	0 - 30
2151791	Permethrin	14.7	Spike	P	0 - 30
2151791	Trans-Nonachlor	5.15	Spike	P	0 - 30
2151791	Trifluralin	9.35	Spike	P	0 - 30
LFB	Aldrin	1.19	LCS	P	0 - 30
LFB	Alpha-BHC	6.83	LCS	P	0 - 30
LFB	Alpha-Chlordane	7.34	LCS	P	0 - 30
LFB	Beta-BHC	9.03	LCS	P	0 - 30
LFB	Bifenthrin	10.6	LCS	P	0 - 30
LFB	Carbophenothion	11.8	LCS	P	0 - 30
LFB	Chlorothalonil	12.1	LCS	P	0 - 30
LFB	Cis-Nonachlor	7.63	LCS	P	0 - 30
LFB	Cypermethrin	13.6	LCS	P	0 - 30
LFB	DDD-p,p'	6.23	LCS	P	0 - 30
LFB	DDE-p,p'	8.08	LCS	P	0 - 30
LFB	DDT-p,p'	4.09	LCS	P	0 - 30
LFB	Delta-BHC	9.61	LCS	P	0 - 30
LFB	Dicofol	1.89	LCS	P	0 - 30
LFB	Dieldrin	5.35	LCS	P	0 - 30
LFB	Endosulfan I	8.14	LCS	P	0 - 30
LFB	Endosulfan II	10.5	LCS	P	0 - 30
LFB	Endosulfan Sulfate	9.02	LCS	P	0 - 30
LFB	Endrin	7.47	LCS	P	0 - 30
LFB	Endrin Aldehyde	4.84	LCS	P	0 - 30
LFB	Endrin Ketone	9.38	LCS	P	0 - 30
LFB	Ethalfuralin	5.34	LCS	P	0 - 30
LFB	Gamma-BHC	13.7	LCS	P	0 - 30
LFB	Gamma-Chlordane	6.14	LCS	P	0 - 30
LFB	Heptachlor	1.49	LCS	P	0 - 30
LFB	Heptachlor Epoxide	5.88	LCS	P	0 - 30
LFB	Hexachlorobenzene	2.66	LCS	P	0 - 30
LFB	Methoxychlor	0.464	LCS	P	0 - 30
LFB	Mirex	11.1	LCS	P	0 - 30
LFB	Permethrin	14.8	LCS	P	0 - 30
LFB	Trans-Nonachlor	6.10	LCS	P	0 - 30
LFB	Trifluralin	6.10	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P377846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151679	Acetochlor	4.72	Spike	P	0 - 30
2151679	Alachlor	2.58	Spike	P	0 - 30
2151679	Ametryn	6.14	Spike	P	0 - 30
2151679	Atrazine	0.313	Spike	P	0 - 30
2151679	Atrazine Desethyl	7.41	Spike	P	0 - 30
2151679	Azinphos Methyl	7.74	Spike	P	0 - 30
2151679	Bromacil	8.54	Spike	P	0 - 30
2151679	Butylate	37.2	Spike	F	0 - 30
2151679	Carbophenothion	15.2	Spike	P	0 - 30
2151679	Chlorpyrifos Ethyl	11.7	Spike	P	0 - 30
2151679	Chlorpyrifos Methyl	6.18	Spike	P	0 - 30
2151679	Cyanazine	5.89	Spike	P	0 - 30
2151679	Demeton	8.29	Spike	P	0 - 30
2151679	Diazinon	3.36	Spike	P	0 - 30
2151679	Dimethenamid	12.3	Spike	P	0 - 30
2151679	Disulfoton	1.02	Spike	P	0 - 30
2151679	Dithiopyr	10.1	Spike	P	0 - 30
2151679	EPTC	43.8	Spike	F	0 - 30
2151679	Ethion	38.4	Spike	F	0 - 30
2151679	Ethoprop	5.24	Spike	P	0 - 30
2151679	Fenamiphos	30.3	Spike	F	0 - 30
2151679	Fipronil	8.72	Spike	P	0 - 30
2151679	Fipronil Desulfinyl	31.7	Spike	F	0 - 30
2151679	Fipronil Sulfide	21.2	Spike	P	0 - 30
2151679	Fipronil Sulfone	16.3	Spike	P	0 - 30
2151679	Flumioxazin	21.2	Spike	P	0 - 30
2151679	Fonofos	3.72	Spike	P	0 - 30
2151679	Hexazinone	4.91	Spike	P	0 - 30
2151679	Imazalil	1.45	Spike	P	0 - 30
2151679	Malathion	2.82	Spike	P	0 - 30
2151679	Metalaxyl	9.58	Spike	P	0 - 30
2151679	Metolachlor	3.30	Spike	P	0 - 30
2151679	Metribuzin	2.17	Spike	P	0 - 30
2151679	Mevinphos	2.21	Spike	P	0 - 30
2151679	Molinate	8.72	Spike	P	0 - 30
2151679	Norflurazon	15.2	Spike	P	0 - 30
2151679	Oxadiazon	18.0	Spike	P	0 - 30
2151679	Parathion Ethyl	7.82	Spike	P	0 - 30
2151679	Parathion Methyl	2.06	Spike	P	0 - 30
2151679	Pendimethalin	11.9	Spike	P	0 - 30
2151679	Phorate	2.72	Spike	P	0 - 30
2151679	Prodiamine	9.32	Spike	P	0 - 30
2151679	Prometon	12.6	Spike	P	0 - 30
2151679	Prometryn	4.61	Spike	P	0 - 30
2151679	Pronamide	5.00	Spike	P	0 - 30
2151679	Propiconazole	16.9	Spike	P	0 - 30
2151679	Simazine	0.134	Spike	P	0 - 30
2151679	Sulfentrazone	13.3	Spike	P	0 - 30
2151679	Tebuconazole	56.5	Spike	F	0 - 30
2151679	Terbufos	3.52	Spike	P	0 - 30
2151679	Terbutylazine	5.77	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P377846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Acetochlor	9.48	LCS	P	0 - 30
LFB	Alachlor	11.7	LCS	P	0 - 30
LFB	Ametryn	5.06	LCS	P	0 - 30
LFB	Atrazine	11.1	LCS	P	0 - 30
LFB	Atrazine Desethyl	7.93	LCS	P	0 - 30
LFB	Azinphos Methyl	9.86	LCS	P	0 - 30
LFB	Bromacil	6.95	LCS	P	0 - 30
LFB	Butylate	35.2	LCS	F	0 - 30
LFB	Carbophenothion	8.52	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	12.8	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	16.5	LCS	P	0 - 30
LFB	Cyanazine	13.3	LCS	P	0 - 30
LFB	Demeton	13.8	LCS	P	0 - 30
LFB	Diazinon	9.55	LCS	P	0 - 30
LFB	Dimethenamid	12.0	LCS	P	0 - 30
LFB	Disulfoton	14.5	LCS	P	0 - 30
LFB	Dithiopyr	5.67	LCS	P	0 - 30
LFB	EPTC	29.5	LCS	P	0 - 30
LFB	Ethion	11.9	LCS	P	0 - 30
LFB	Ethoprop	14.4	LCS	P	0 - 30
LFB	Fenamiphos	6.52	LCS	P	0 - 30
LFB	Fipronil	7.79	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	6.47	LCS	P	0 - 30
LFB	Fipronil Sulfide	9.99	LCS	P	0 - 30
LFB	Fipronil Sulfone	7.79	LCS	P	0 - 30
LFB	Flumioxazin	6.53	LCS	P	0 - 30
LFB	Fonofos	10.1	LCS	P	0 - 30
LFB	Hexazinone	13.3	LCS	P	0 - 30
LFB	Imazalil	38.1	LCS	F	0 - 30
LFB	Malathion	7.72	LCS	P	0 - 30
LFB	Metalaxyl	5.38	LCS	P	0 - 30
LFB	Metolachlor	9.41	LCS	P	0 - 30
LFB	Metribuzin	17.2	LCS	P	0 - 30
LFB	Mevinphos	22.7	LCS	P	0 - 30
LFB	Molinate	25.7	LCS	P	0 - 30
LFB	Norflurazon	9.83	LCS	P	0 - 30
LFB	Oxadiazon	12.2	LCS	P	0 - 30
LFB	Parathion Ethyl	6.77	LCS	P	0 - 30
LFB	Parathion Methyl	6.40	LCS	P	0 - 30
LFB	Pendimethalin	5.61	LCS	P	0 - 30
LFB	Phorate	21.1	LCS	P	0 - 30
LFB	Prodiamine	7.07	LCS	P	0 - 30
LFB	Prometon	4.97	LCS	P	0 - 30
LFB	Prometryn	4.17	LCS	P	0 - 30
LFB	Pronamide	10.4	LCS	P	0 - 30
LFB	Propiconazole	6.41	LCS	P	0 - 30
LFB	Simazine	9.89	LCS	P	0 - 30
LFB	Sulfentrazone	11.2	LCS	P	0 - 30
LFB	Tebuconazole	4.77	LCS	P	0 - 30
LFB	Terbufos	13.1	LCS	P	0 - 30
LFB	Terbutylazine	10.1	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P377728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151069	Chlordane	10.8	Spike	P	0 - 30
2151069	Toxaphene	4.12	Spike	P	0 - 30
LFB	Chlordane	1.54	LCS	P	0 - 30
LFB	Toxaphene	3.19	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377677

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2150558	3-Hydroxycarbofuran	15.6	Spike	P	0 - 30
2150558	Aldicarb	24.9	Spike	P	0 - 30
2150558	Aldicarb Sulfone	3.58	Spike	P	0 - 30
2150558	Aldicarb Sulfoxide	0.716	Spike	P	0 - 30
2150558	Carbaryl	7.31	Spike	P	0 - 30
2150558	Carbofuran	37.0	Spike	F	0 - 30
2150558	Methiocarb	11.1	Spike	P	0 - 30
2150558	Methomyl	6.99	Spike	P	0 - 30
2150558	Oxamyl	14.8	Spike	P	0 - 30
2150558	Propoxur	11.4	Spike	P	0 - 30
2151184	2,4-D	17.2	Spike	P	0 - 30
2151184	Acetaminophen	14.4	Spike	P	0 - 30
2151184	Acetamiprid	7.04	Spike	P	0 - 30
2151184	Afidopyropen	10.6	Spike	P	0 - 30
2151184	Bentazon	2.15	Spike	P	0 - 30
2151184	Benzovindiflupyr	10.4	Spike	P	0 - 30
2151184	Carbamazepine	12.8	Spike	P	0 - 30
2151184	Clothianidin	3.36	Spike	P	0 - 30
2151184	Dinotefuran	16.1	Spike	P	0 - 30
2151184	Diuron	19.5	Spike	P	0 - 30
2151184	Fenuron	9.68	Spike	P	0 - 30
2151184	Fluridone	12.4	Spike	P	0 - 30
2151184	Hydrocodone	13.5	Spike	P	0 - 30
2151184	Ibuprofen	14.7	Spike	P	0 - 30
2151184	Imazapyr	8.31	Spike	P	0 - 30
2151184	Imidacloprid	10.0	Spike	P	0 - 30
2151184	Linuron	23.3	Spike	P	0 - 30
2151184	Mandestrobin	13.0	Spike	P	0 - 30
2151184	MCPP	9.78	Spike	P	0 - 30
2151184	Naproxen	14.8	Spike	P	0 - 30
2151184	Primidone	15.7	Spike	P	0 - 30
2151184	Pyraclostrobin	11.0	Spike	P	0 - 30
2151184	Thiamethoxam	7.01	Spike	P	0 - 30
2151184	Tolfenpyrad	17.3	Spike	P	0 - 30
2151184	Triclopyr	21.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P377680

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

Reference Method: EPA 8321B
Batch ID: P377680

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151558	Acesulfame K	0.0146	Spike	P	0 - 30
2151558	AMPA	1.24	Spike	P	0 - 30
2151558	Endothall	3.89	Spike	P	0 - 30
2151558	Glufosinate	11.7	Spike	P	0 - 30
2151558	Glyphosate	6.44	Spike	P	0 - 30
2151558	Sucralose	0.220	Spike	P	0 - 30

Reference Method: SM 2120 B-2011
Batch ID: P377719

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151627	Color (true)	0.622	Sample	P	0 - 20

Reference Method: SM 2120 B-2011
Batch ID: P377720

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151624	Color (true)	3.34	Sample	P	0 - 20

Reference Method: SM 2320 B-2011
Batch ID: P378051

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151510	Total Alkalinity	0.240	Sample	P	0 - 2.8

Reference Method: SM 2320 B-2011
Batch ID: P378052

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151851	Total Alkalinity	0.134	Sample	P	0 - 2.8

Reference Method: SM 2540 C-2011
Batch ID: P378275

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151639	TDS	0.993	Sample	P	0 - 10

Reference Method: SM 4500 F-C-2011
Batch ID: P378056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2149240	Fluoride	0.953	Spike	P	0 - 2.5

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-2011
Batch ID: P378057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151851	Fluoride	0.968	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-2011
Batch ID: P378551

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151636	Fluoride	0.940	Spike	P	0 - 2.5

Reference Method: SM 5310 B-2011
Batch ID: P377956

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151547	Organic Carbon	1.12	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P377960

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2151519	Organic Carbon	0.833	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2151671
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.8	P	30 - 160

Lab Sample ID: 2151672
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	111	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.7	P	30 - 160
EPA 8321B	Diuron-d6	58.0	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Endothall-d6	137	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.0	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.5	P	30 - 160
EPA 8321B	Primidone-d5	98.6	P	30 - 160
EPA 8321B	Sucralose-d6	97.2	P	30 - 160
EPA 8321B	Sucralose-d6	97.2	P	30 - 160

Lab Sample ID: 2151673
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	59.8	P	30 - 160

Lab Sample ID: 2151674
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	116	P	30 - 160
EPA 8321B	Acetaminophen-d4	79.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	80.6	P	30 - 160
EPA 8321B	Diuron-d6	62.1	P	30 - 160
EPA 8321B	Endothall-d6	124	P	30 - 160
EPA 8321B	Endothall-d6	124	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	127	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	127	P	30 - 160
EPA 8321B	Ibuprofen-d3	77.9	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	84.7	P	30 - 160
EPA 8321B	Sucralose-d6	84.7	P	30 - 160

Lab Sample ID: 2151675
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	132	P	30 - 160
EPA 8321B	Acetaminophen-d4	85.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	88.2	P	30 - 160
EPA 8321B	Diuron-d6	71.4	P	30 - 160
EPA 8321B	Endothall-d6	264	F	30 - 160
EPA 8321B	Endothall-d6	264	F	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2151675
Field Sample ID: G3SD0066

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	42.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	42.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	64.8	P	30 - 160
EPA 8321B	Primidone-d5	97.3	P	30 - 160
EPA 8321B	Sucralose-d6	16.6	F	30 - 160
EPA 8321B	Sucralose-d6	16.6	F	30 - 160

Lab Sample ID: 2151676
Field Sample ID: G3SD0066_dup

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	138	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.2	P	30 - 160
EPA 8321B	Carbamazepine-d10	95.2	P	30 - 160
EPA 8321B	Diuron-d6	71.7	P	30 - 160
EPA 8321B	Endothall-d6	248	F	30 - 160
EPA 8321B	Endothall-d6	248	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	47.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	79.6	P	30 - 160
EPA 8321B	Primidone-d5	109	P	30 - 160
EPA 8321B	Sucralose-d6	13.2	F	30 - 160
EPA 8321B	Sucralose-d6	13.2	F	30 - 160

Lab Sample ID: 2151677
Field Sample ID: G2SD0025

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	135	P	30 - 160
EPA 8321B	Acetaminophen-d4	91.7	P	30 - 160
EPA 8321B	Carbamazepine-d10	91.7	P	30 - 160
EPA 8321B	Diuron-d6	61.8	P	30 - 160
EPA 8321B	Endothall-d6	37.7	P	30 - 160
EPA 8321B	Endothall-d6	37.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	134	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	134	P	30 - 160
EPA 8321B	Ibuprofen-d3	84.9	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	17.3	F	30 - 160
EPA 8321B	Sucralose-d6	17.3	F	30 - 160

Lab Sample ID: 2151678
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	85.8	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	65.7	P	34 - 106
EPA 8276	Decachlorobiphenyl	72.0	P	26 - 97.0
EPA 8276	PCNB	93.7	P	38 - 141

Quality Assurance Report Surrogates

Lab Sample ID: 2151679
Field Sample ID: G3SD0090

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	93.1	P	72 - 135
EPA 8270E	Terbufos-d10	93.5	P	57 - 134

Lab Sample ID: 2151680
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	91.5	P	44 - 112
EPA 8270E	Tetrachloro-m-xylene	63.6	P	34 - 106
EPA 8276	Decachlorobiphenyl	77.0	P	26 - 97.0
EPA 8276	PCNB	93.3	P	38 - 141

Lab Sample ID: 2151681
Field Sample ID: G3SD0103

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	101	P	72 - 135
EPA 8270E	Terbufos-d10	99.5	P	57 - 134

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B-2011

Run ID: A97115

Included Lab Sample IDs: 2151624, 2151627, 2151639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	99.8	P/P	90 - 115
Color (true)	99.3	101	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A97136

Included Lab Sample IDs: 2151626, 2151629, 2151634, 2151635, 2151638, 2151641

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	96.2	94.0	P/P	90 - 110
O-Phosphate-P	98.5	98.6	P/P	90 - 110
O-Phosphate-P	98.6	96.2	P/P	90 - 110
O-Phosphate-P	98.8	98.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A97142

Included Lab Sample IDs: 2151624, 2151627, 2151630, 2151631, 2151636, 2151639

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A97170

Included Lab Sample IDs: 2151624, 2151627, 2151639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	99.6	99.7	P/P	90 - 110
Sulfate	100	101	P/P	90 - 110
Sulfate	100	100	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97177

Included Lab Sample IDs: 2151697, 2151698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	100	98.5	P/P	90 - 110
Iron	102	100	P/P	90 - 110
Magnesium	101	99.6	P/P	90 - 110
Potassium	102	100	P/P	90 - 110
Sodium	101	99.5	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A97178

Included Lab Sample IDs: 2151672, 2151674, 2151675, 2151676, 2151677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.7	93.9	P/P	50 - 150
3-Hydroxycarbofuran	90.7	90.4	P/P	60 - 150
Acetaminophen	81.4	83.0	P/P	60 - 160
Acetamiprid	103	105	P/P	50 - 150
Afidopyropen	107	103	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A97178

Included Lab Sample IDs: 2151671, 2151673

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb	110	99.0	P/P	60 - 150
Aldicarb Sulfone	88.1	87.5	P/P	50 - 150
Aldicarb Sulfoxide	90.7	99.1	P/P	50 - 150
Bentazon	88.9	87.4	P/P	50 - 160
Benzovindiflupyr	115	111	P/P	50 - 150
Carbamazepine	95.1	91.2	P/P	60 - 150
Carbaryl	102	87.5	P/P	60 - 150
Carbofuran	97.1	107	P/P	50 - 150
Clothianidin	84.6	98.9	P/P	60 - 150
Dinotefuran	98.6	96.6	P/P	50 - 150
Diuron	97.3	99.0	P/P	60 - 150
Fenuron	111	114	P/P	60 - 150
Fluridone	118	103	P/P	60 - 160
Hydrocodone	97.3	102	P/P	60 - 150
Ibuprofen	88.6	93.3	P/P	50 - 160
Imazapyr	108	115	P/P	50 - 150
Imidacloprid	95.3	94.7	P/P	60 - 150
Linuron	106	94.1	P/P	60 - 150
Mandestrobin	107	106	P/P	50 - 150
MCPP	108	88.8	P/P	50 - 150
Methiocarb	110	104	P/P	50 - 150
Methomyl	89.6	113	P/P	50 - 150
Naproxen	124	101	P/P	50 - 160
Oxamyl	85.3	114	P/P	50 - 150
Primidone	101	109	P/P	60 - 150
Propoxur	105	110	P/P	50 - 150
Pyraclostrobin	124	119	P/P	60 - 150
Thiamethoxam	94.2	104	P/P	50 - 150
Tolfenpyrad	128	134	P/P	60 - 150
Triclopyr	98.4	91.8	P/P	50 - 150

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A97186

Included Lab Sample IDs: 2151625, 2151628, 2151640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	102	P/P	90 - 110
NO2NO3-N	102	103	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A97198

Included Lab Sample IDs: 2151625, 2151628, 2151632, 2151633, 2151637, 2151640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	99.0	P/P	90 - 110
Organic Carbon	98.4	99.4	P/P	90 - 110
Organic Carbon	99.0	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97201

Included Lab Sample IDs: 2151697, 2151698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	99.5	99.0	P/P	95 - 105
Zinc	102	101	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A97203

Included Lab Sample IDs: 2151672, 2151674, 2151675, 2151676, 2151677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	144	64.7	P/P	60 - 160
Acesulfame K	66.1	60.2	P/P	60 - 160
Endothall	127	132	P/P	60 - 160
Endothall	136	150	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A97204

Included Lab Sample IDs: 2151672, 2151674, 2151675, 2151676, 2151677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	79.5	83.2	P/P	60 - 160
AMPA	80.9	82.1	P/P	60 - 160
Glufosinate	70.4	91.7	P/P	60 - 160
Glufosinate	89.5	75.7	P/P	60 - 160
Glyphosate	75.4	77.6	P/P	60 - 160
Glyphosate	86.8	78.0	P/P	60 - 160

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97219

Included Lab Sample IDs: 2151699, 2151700, 2151701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	100	100	P/P	90 - 110
Calcium	101	99.3	P/P	90 - 110
Iron	101	100	P/P	90 - 110
Manganese	101	102	P/P	90 - 110
Zinc	101	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A97228

Included Lab Sample IDs: 2151624, 2151627, 2151630, 2151631, 2151636, 2151639

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

Reference Method: SM 4500 F-C-2011

Run ID: A97228

Included Lab Sample IDs: 2151624, 2151627, 2151630, 2151631, 2151639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-2011

Run ID: A97228

Included Lab Sample IDs: 2151624, 2151627, 2151630, 2151631, 2151639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	102	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A97232

Included Lab Sample IDs: 2151699, 2151700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Magnesium	102	100	P/P	95 - 105
Potassium	101	99.3	P/P	95 - 105
Sodium	102	100	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A97243

Included Lab Sample IDs: 2151632, 2151633, 2151637

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110
NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A97246

Included Lab Sample IDs: 2151678, 2151680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.2		P	80 - 120
Chlordane	98.4		P	80 - 120
Toxaphene	103		P	80 - 120
Toxaphene	92.2		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97256

Included Lab Sample IDs: 2151632

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A97263

Included Lab Sample IDs: 2151678, 2151680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.5		P	80 - 120
Alpha-BHC	98.6		P	80 - 120
Alpha-Chlordane	89.9		P	80 - 120
Beta-BHC	95.9		P	80 - 120
Bifenthrin	97.8		P	80 - 120
Carbophenothion	96.2		P	80 - 120
Chlorothalonil	65.2*		F	80 - 120
Cis-Nonachlor	89.8		P	80 - 120
Cypermethrin	96.6		P	80 - 120
DDD-p,p'	91.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A97263

Included Lab Sample IDs: 2151678, 2151680

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDE-p,p'	89.2		P	80 - 120
DDT-p,p'	100		P	80 - 120
Delta-BHC	94.9		P	80 - 120
Dicofol	98.2		P	80 - 120
Dieldrin	91.4		P	80 - 120
Endosulfan I	86.4		P	80 - 120
Endosulfan II	87.3		P	80 - 120
Endosulfan Sulfate	97.9		P	80 - 120
Endrin	92.8		P	80 - 120
Endrin Aldehyde	88.9		P	80 - 120
Endrin Ketone	100		P	80 - 120
Ethalfuralin	101		P	80 - 120
Gamma-BHC	92.7		P	80 - 120
Gamma-Chlordane	88.5		P	80 - 120
Heptachlor	91.6		P	80 - 120
Heptachlor Epoxide	90.0		P	80 - 120
Hexachlorobenzene	100		P	80 - 120
Methoxychlor	102		P	80 - 120
Mirex	99.1		P	80 - 120
Permethrin	106		P	80 - 120
Trans-Nonachlor	89.4		P	80 - 120
Trifluralin	100		P	80 - 120

Reference Method: EPA 8321B

Run ID: A97267

Included Lab Sample IDs: 2151672, 2151674

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluridone	104	102	P/P	60 - 160
Imazapyr	114	107	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A97273

Included Lab Sample IDs: 2151672, 2151674, 2151675, 2151676, 2151677

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	84.1	89.2	P/P	60 - 160
Sucralose	88.6	83.1	P/P	60 - 160
Sucralose	89.2	83.8	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97275

Included Lab Sample IDs: 2151628, 2151637, 2151640

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A97282

Included Lab Sample IDs: 2151625, 2151633

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	106	106	P/P	90 - 110
Total-P	106	108	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A97296

Included Lab Sample IDs: 2151679, 2151681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.8		P	80 - 120
Alachlor	103		P	80 - 120
Ametryn	101		P	80 - 120
Atrazine	101		P	80 - 120
Atrazine Desethyl	96.1		P	80 - 120
Azinphos Methyl	98.8		P	80 - 120
Bromacil	96.7		P	80 - 120
Butylate	101		P	80 - 120
Carbophenothion	99.0		P	80 - 120
Chlorpyrifos Ethyl	99.0		P	80 - 120
Chlorpyrifos Methyl	98.7		P	80 - 120
Cyanazine	90.4		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	98.7		P	80 - 120
Dimethenamid	99.0		P	80 - 120
Disulfoton	95.7		P	80 - 120
Dithiopyr	98.9		P	80 - 120
EPTC	103		P	80 - 120
Ethion	98.9		P	80 - 120
Ethoprop	98.3		P	80 - 120
Fenamiphos	101		P	80 - 120
Fipronil	98.6		P	80 - 120
Fipronil Desulfinyl	101		P	80 - 120
Fipronil Sulfide	97.7		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Flumioxazin	87.5		P	80 - 120
Fonofos	97.7		P	80 - 120
Hexazinone	97.4		P	80 - 120
Imazalil	89.8		P	80 - 120
Malathion	97.2		P	80 - 120
Metaxyl	104		P	80 - 120
Metolachlor	99.4		P	80 - 120
Metribuzin	89.7		P	80 - 120
Mevinphos	99.8		P	80 - 120
Molinate	102		P	80 - 120
Norflurazon	99.2		P	80 - 120
Oxadiazon	104		P	80 - 120
Parathion Ethyl	98.0		P	80 - 120
Parathion Methyl	98.0		P	80 - 120
Pendimethalin	97.7		P	80 - 120
Phorate	98.8		P	80 - 120
Prodiamine	96.3		P	80 - 120
Prometon	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A97296

Included Lab Sample IDs: 2151679, 2151681

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Prometryn	98.1		P	80 - 120
Pronamide	99.9		P	80 - 120
Propiconazole	98.5		P	80 - 120
Simazine	103		P	80 - 120
Sulfentrazone	96.1		P	80 - 120
Tebuconazole	94.0		P	80 - 120
Terbufos	97.7		P	80 - 120
Terbutylazine	100		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A97298

Included Lab Sample IDs: 2151625, 2151628, 2151632, 2151633, 2151637, 2151640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	106	P/P	90 - 110
Kjeldahl Nitrogen	100	99.5	P/P	90 - 110
Kjeldahl Nitrogen	103	99.5	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97312

Included Lab Sample IDs: 2151697, 2151698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	97.6	98.1	P/P	90 - 110
Boron	102	102	P/P	90 - 110
Cadmium	97.1	97.1	P/P	90 - 110
Chromium	92.1	90.4	P/P	90 - 110
Copper	92.8	91.0	P/P	90 - 110
Lead	98.5	99.1	P/P	90 - 110
Nickel	92.1	90.7	P/P	90 - 110
Selenium	97.2	98.3	P/P	90 - 110
Thallium	96.4	94.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A97349

Included Lab Sample IDs: 2151625, 2151628, 2151632, 2151633, 2151637, 2151640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	102	103	P/P	90 - 110
Ammonia-N	103	102	P/P	90 - 110
Ammonia-N	103	103	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97372

Included Lab Sample IDs: 2151697, 2151698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	99.0	96.5	P/P	90 - 110
Antimony	102	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97401

Included Lab Sample IDs: 2151697, 2151698, 2151699, 2151700, 2151701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	99.4	101	P/P	90 - 110
Arsenic	101	103	P/P	90 - 110
Boron	105	104	P/P	90 - 110
Cadmium	96.8	98.8	P/P	90 - 110
Chromium	92.8	95.1	P/P	90 - 110
Nickel	94.8	97.8	P/P	90 - 110
Selenium	97.2	101	P/P	90 - 110
Silver	97.7	99.2	P/P	90 - 110
Silver	98.9	99.7	P/P	90 - 110
Thallium	97.6	97.0	P/P	90 - 110

Reference Method: SM 4500 F-C-2011

Run ID: A97403

Included Lab Sample IDs: 2151636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.1	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97494

Included Lab Sample IDs: 2151699, 2151700, 2151701

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	95.9	99.5	P/P	90 - 110
Lead	97.8	97.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97560

Included Lab Sample IDs: 2151701

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A97677

Included Lab Sample IDs: 2151699, 2151700

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.8	96.6	P/P	90 - 110
Arsenic	93.4	90.4	P/P	90 - 110
Copper	96.3	95.8	P/P	90 - 110
Silver	95.2	90.5	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		LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity						0.500	
	Turbidity						12.1	
EPA 200.7 Rev. 4.4	Barium	100		99.9	102			1.69
	Barium	102		101	96.1			4.85
	Calcium	100		100				0.250
	Calcium	103						1.02
	Iron	104		102	103			0.675
	Iron	104		108	105			2.78
	Magnesium	105		99.1	99.4			0.139
	Magnesium	103						0.926
	Manganese	101		101	96.1			4.53
	Potassium	102		98.7	99.6			0.803
	Potassium	100						1.51
	Sodium	104		101	101			0.297
	Sodium	101						1.42
	Zinc	101		100	102			1.56
	Zinc	101		103	99.2			3.97
EPA 200.8 Rev. 5.4	Aluminum	104		99.4	103			3.05
	Aluminum	108		118	117			0.424
	Aluminum	98.9		101	102			0.220
	Antimony	107		104	108			4.02
	Antimony	101		104	103			0.622
	Arsenic	103		101	102			1.09
	Arsenic	102		106	105			0.620
	Arsenic	94.7		97.4	98.4			1.09
	Boron	98.6		95.4	99.3			3.62
	Boron	99.3						1.90
	Cadmium	105		101	102			0.394
	Cadmium	100		91.0	92.2			1.35
	Chromium	93.5		94.8	95.6			0.831
	Chromium	98.9		91.6	91.7			0.122
	Copper	97.9		95.5	96.1			0.586
	Copper	105		119	120			1.10
	Copper	97.8		92.8	93.7			0.956
	Lead	101		99.3	100			0.943
	Lead	114		118	116			1.71
	Nickel	94.3		93.9	93.5			0.378
	Nickel	98.6		95.2	94.5			0.747
	Selenium	103		98.8	99.5			0.718
	Selenium	98.4		87.3	86.4			1.07
	Silver	103		102	102			0.0414
	Silver	102		91.4	90.6			0.924
	Silver	94.1		85.4	87.3			2.18
	Thallium	87.8		89.8	92.5			2.93
	Thallium	99.5		103	104			1.35
EPA 300.0 Rev. 2.1	Chloride	101		102	101		0.871	
	Sulfate	101		100			0.418	
EPA 350.1 Rev. 2.0	Ammonia-N	102		101	103			1.91
	Ammonia-N	102		107	108			0.556
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.4		101	104			2.45
	Kjeldahl Nitrogen	102		103	108			3.17
	Kjeldahl Nitrogen	103		105	106			0.791
EPA 353.2 Rev. 2.0	NO2NO3-N	102		100	102			0.575
	NO2NO3-N	103		103	103			0.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 353.2 Rev. 2.0	NO2NO3-N	101		99.4	99.9			0.475
	NO2NO3-N	102		96.0	96.6			0.434
EPA 365.1 Rev. 2.0	Total-P	101		94.0	91.2			2.85
	Total-P	105		109	110			1.02
	Total-P	107		103	102			1.04
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	104		97.1	97.1	97.1		0.0
	O-Phosphate-P	101		97.8	96.5			1.16
EPA 8270E	Acetochlor	101	91.7	88.0	92.2	9.48		4.72
	Alachlor	102	90.8	96.0	93.6	11.7		2.58
	Aldrin	60.3	59.6	62.4	26.3	1.19		81.2
	Alpha-BHC	91.5	97.9	94.9	80.4	6.83		16.6
	Alpha-Chlordane	85.3	79.2	69.7	66.4	7.34		4.83
	Ametryn	101	95.8			5.06		6.14
	Atrazine	107	95.5			11.1		0.313
	Atrazine Desethyl	71.1	65.7	67.8	73.9	7.93		7.41
	Azinphos Methyl	108	97.6	112	104	9.86		7.74
	Beta-BHC	71.2	65.0	71.1	55.7	9.03		24.4
	Bifenthrin	110	99.2	107	97.5	10.6		9.70
	Bromacil	97.0	90.5	80.8	74.2	6.95		8.54
	Butylate	62.9	44.1	53.1	36.5	35.2		37.2
	Carbophenothion	80.8	71.8	82.0	58.0	11.8		34.4
	Carbophenothion	104	95.7	94.3	81.0	8.52		15.2
	Chlorothalonil	83.8	94.5	115	92.1	12.1		21.8
	Chlorpyrifos Ethyl	106	93.1	95.3	107	12.8		11.7
	Chlorpyrifos Methyl	96.0	81.3	92.5	98.4	16.5		6.18
	Cis-Nonachlor	78.9	85.2	66.2	64.7	7.63		2.19
	Cyanazine	99.2	86.8	93.7	88.3	13.3		5.89
	Cypermethrin	104	119	105	96.6	13.6		8.47
	DDD-p,p'	83.7	89.1	70.8	67.5	6.23		4.82
	DDE-p,p'	75.1	81.4	66.9	62.7	8.08		6.47
	DDT-p,p'	87.9	91.5	90.1	76.7	4.09		16.0
	Delta-BHC	79.9	72.5	82.9	62.2	9.61		28.5
	Demeton	71.4	62.2	89.9	82.8	13.8		8.29
	Diazinon	93.0	84.5	95.1	98.4	9.55		3.36
	Dicofol	94.6	92.9	104	79.1	1.89		27.3
	Dieldrin	83.3	87.8	71.0	67.5	5.35		5.13
	Dimethenamid	98.9	87.7	86.6	97.9	12.0		12.3
	Disulfoton	83.4	72.1	87.8	86.9	14.5		1.02
	Dithiopyr	100	94.6	90.5	100	5.67		10.1
	Endosulfan I	84.5	91.7	81.5	71.6	8.14		13.0
	Endosulfan II	79.9	88.7	74.1	65.4	10.5		12.5
	Endosulfan Sulfate	103	112	97.2	89.8	9.02		7.94
	Endrin	81.5	87.9	71.3	67.5	7.47		5.37
	Endrin Aldehyde	88.9	93.3	64.1	70.2	4.84		9.04
	Endrin Ketone	115	105	103	94.5	9.38		8.66
	EPTC	59.4	44.1	31.1	48.6	29.5		43.8
	Ethalfuralin	85.0	80.6	78.6	72.7	5.34		7.76
	Ethion	112	99.0	73.1	108	11.9		38.4
	Ethoprop	80.3	69.5	91.8	96.7	14.4		5.24
	Fenamiphos	85.5	91.3	72.8	98.8	6.52		30.3
	Fipronil	108	99.6	94.5	103	7.79		8.72
	Fipronil Desulfinyl	110	103	84.5	119	6.47		31.7
	Fipronil Sulfide	104	93.9	99.1	77.4	9.99		21.2
	Fipronil Sulfone	101	93.5	92.9	74.9	7.79		16.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Flumioxazin	116	109	127	102	6.53	21.2
	Fonofos	80.8	73.1	91.0	87.7	10.1	3.72
	Gamma-BHC	83.6	72.8	87.8	76.5	13.7	13.9
	Gamma-Chlordane	81.2	76.4	68.1	64.9	6.14	4.80
	Heptachlor	82.8	81.6	75.6	69.1	1.49	9.00
	Heptachlor Epoxide	86.8	81.9	73.8	69.0	5.88	6.75
	Hexachlorobenzene	77.5	75.4	73.4	64.9	2.66	12.4
	Hexazinone	113	98.6	111	104	13.3	4.91
	Imazalil	35.6	52.3	54.0	53.2	38.1	1.45
	Malathion	103	95.5	107	104	7.72	2.82
	Metalaxyl	64.3	60.9	105	95.4	5.38	9.58
	Methoxychlor	106	106	103	88.2	0.464	15.7
	Metolachlor	98.8	90.0			9.41	3.30
	Metribuzin	97.6	82.2	116	119	17.2	2.17
	Mevinphos	66.4	52.8	83.4	85.3	22.7	2.21
	Mirex	84.0	75.1	79.6	68.0	11.1	15.7
	Molinate	65.8	50.8	67.7	62.0	25.7	8.72
	Norflurazon	109	99.2	95.6	82.2	9.83	15.2
	Oxadiazon	110	97.7	84.0	66.9	12.2	18.0
	Parathion Ethyl	97.5	91.1	100	92.7	6.77	7.82
	Parathion Methyl	97.1	91.1	108	106	6.40	2.06
	Pendimethalin	96.0	90.7	93.7	83.1	5.61	11.9
	Permethrin	116	100	108	93.4	14.8	14.7
	Phorate	75.0	60.6	89.3	86.9	21.1	2.72
	Prodiamine	106	99.0	91.7	101	7.07	9.32
	Prometon	102	96.6	99.2	87.4	4.97	12.6
	Prometryn	103	98.4	98.9	94.4	4.17	4.61
	Pronamide	103	93.0	90.7	95.4	10.4	5.00
	Propiconazole	100	94.1	102	86.3	6.41	16.9
	Simazine	102	92.8	102	102	9.89	0.134
	Sulfentrazone	57.1	51.0	79.4	67.0	11.2	13.3
	Tebuconazole	92.8	88.5	82.8	46.3	4.77	56.5
	Terbufos	85.7	75.2	101	97.9	13.1	3.52
	Terbuthylazine	103	93.1	99.2	93.6	10.1	5.77
	Trans-Nonachlor	80.7	75.9	66.3	62.9	6.10	5.15
	Trifluralin	88.3	83.0	82.9	75.5	6.10	9.35
EPA 8276	Chlordane	83.4	84.7	71.5	80.5	1.54	10.8
	Toxaphene	109	105	83.2	86.7	3.19	4.12
EPA 8321B	2,4-D	99.8		120	101		17.2
	3-Hydroxycarbofuran	76.1		83.7	71.6		15.6
	Acesulfame K	126		41.2	41.2		0.0146
	Acetaminophen	73.6		76.0	87.9		14.4
	Acetamiprid	82.6		86.4	92.7		7.04
	Afidopyropen	85.3		92.1	102		10.6
	Aldicarb	80.5		79.2	102		24.9
	Aldicarb Sulfone	86.2		86.1	89.2		3.58
	Aldicarb Sulfoxide	90.7		43.7	44.0		0.716
	AMPA	85.5		95.4	96.6		1.24
	Bentazon	80.1		49.3	48.2		2.15
	Benzovindiflupyr	87.1		85.3	94.6		10.4
	Carbamazepine	98.4		84.0	95.5		12.8
	Carbaryl	67.0		57.5	53.5		7.31
	Carbofuran	80.3		63.2	43.5		37.0
	Clothianidin	77.8		84.6	87.4		3.36

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Dinotefuran	93.1	102	120		16.1
	Diuron	77.5	59.2	72.0		19.5
	Endothall	118	125	130		3.89
	Fenuron	102	90.9	100		9.68
	Fluridone	92.4	84.6	95.8		12.4
	Glufosinate	89.6	86.4	97.1		11.7
	Glyphosate	80.1	68.0	72.5		6.44
	Hydrocodone	83.2	96.3	110		13.5
	Ibuprofen	81.9	61.2	70.9		14.7
	Imazapyr	100	112	103		8.31
	Imidacloprid	90.5	132	146		10.0
	Linuron	80.0	60.3	76.2		23.3
	Mandestrobin	91.2	84.0	95.6		13.0
	MCPP	103	117	106		9.78
	Methiocarb	70.4	54.9	49.1		11.1
	Methomyl	77.6	84.3	78.6		6.99
	Naproxen	78.3	65.8	76.3		14.8
	Oxamyl	91.3	91.0	78.4		14.8
	Primidone	76.8	93.1	109		15.7
	Propoxur	75.7	62.2	55.5		11.4
	Pyraclostrobin	98.8	94.0	105		11.0
	Sucralose	80.9	82.5	82.3		0.220
	Thiamethoxam	88.1	117	126		7.01
	Tolfenpyrad	69.8	68.5	81.5		17.3
	Triclopyr	76.7	110	88.2		21.9
SM 2120 B-2011	Color (true)	101			0.622	
	Color (true)	101			3.34	
SM 2320 B-2011	Total Alkalinity	102			0.240	
	Total Alkalinity	103			0.134	
SM 2540 C-2011	TDS				0.993	
SM 4500 F-C-2011	Fluoride	97.7	97.5	99.0		0.953
	Fluoride	97.2	104	105		0.968
	Fluoride	99.0	96.4	97.8		0.940
SM 5310 B-2011	Organic Carbon	99.2	95.8	97.0		1.12
	Organic Carbon	98.7	100	99.4		0.833

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2151697, 2151698, 2151699, 2151700, 2151701
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2151697, 2151698, 2151699, 2151700, 2151701
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2151624, 2151627, 2151639
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2151625, 2151628, 2151632, 2151633, 2151637, 2151640
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2151625, 2151628, 2151632, 2151633, 2151637, 2151640
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2151625, 2151628, 2151632, 2151633, 2151637, 2151640

Reference Method Descriptions

Method	Description	Associated Samples
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2151625, 2151628, 2151632, 2151633, 2151637, 2151640
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2151626, 2151629, 2151634, 2151635, 2151638, 2151641
EPA 8270E	Organochlorine pesticides in water matrices by GC/MS-SIM	2151678, 2151680
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2151679, 2151681
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2151678, 2151680
EPA 8321B	Carbamates in water matrices by HPLC/MS/MS	2151671, 2151673
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2151672, 2151674, 2151675, 2151676, 2151677
EPA 8321B	Water soluble organic compounds by HPLC/MS/MS	2151672, 2151674, 2151675, 2151676, 2151677
SM 2120 B-2011	True Color measured at 450 nm (not valid for NPDES monitoring)	2151624, 2151627, 2151639
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
SM 2340B	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2151697, 2151698
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2151624, 2151627, 2151639
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
SM 4500 F-C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2151625, 2151628, 2151632, 2151633, 2151637, 2151640

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	01/24/2020			01/24/2020 16:34	Yen Ta	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
EPA 200.7 Rev. 4.4	01/24/2020	01/28/2020 15:25	Elliott D. Healy	01/30/2020 01:17	Betina Topolski	2151697
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	01/30/2020 01:25	Betina Topolski	2151698
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	01/30/2020 12:46	Vijayalakshmi Reddy	2151697
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	01/30/2020 12:49	Vijayalakshmi Reddy	2151698
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/30/2020 17:40	Betina Topolski	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/30/2020 17:48	Betina Topolski	2151700
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/30/2020 17:56	Betina Topolski	2151701
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/31/2020 11:11	Betina Topolski	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/31/2020 11:16	Betina Topolski	2151700
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/31/2020 11:25	Betina Topolski	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	01/31/2020 11:28	Betina Topolski	2151700
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/05/2020 02:46	Alexander Thompson	2151697
EPA 200.8 Rev. 5.4	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/05/2020 02:55	Alexander Thompson	2151698
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/07/2020 00:30	Alexander Thompson	2151697
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/07/2020 00:39	Alexander Thompson	2151698
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/08/2020 05:10	Alexander Thompson	2151697
	01/24/2020	01/28/2020 15:25	Elliott D. Healy	02/08/2020 05:20	Alexander Thompson	2151698
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 08:42	Alexander Thompson	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 08:52	Alexander Thompson	2151700
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 09:02	Alexander Thompson	2151701
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 09:21	Alexander Thompson	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 09:31	Alexander Thompson	2151700
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/08/2020 09:40	Alexander Thompson	2151701
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/12/2020 16:59	Alexander Thompson	2151699
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/12/2020 17:09	Alexander Thompson	2151700
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/12/2020 17:18	Alexander Thompson	2151701
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/12/2020 17:57	Alexander Thompson	2151701
	01/24/2020	01/29/2020 14:30	Elliott D. Healy	02/15/2020 03:53	Justin Cutchin	2151701
	01/24/2020	02/18/2020 15:40	Elliott D. Healy	02/20/2020 12:03	Justin Cutchin	2151699
	01/24/2020	02/18/2020 15:40	Elliott D. Healy	02/20/2020 12:07	Justin Cutchin	2151700
EPA 300.0 Rev. 2.1	01/24/2020			01/31/2020 01:11	Lipi Saha	2151624
	01/24/2020			01/31/2020 01:24	Lipi Saha	2151627
	01/24/2020			01/31/2020 01:36	Lipi Saha	2151639
	01/24/2020			01/31/2020 03:00	Lipi Saha	2151630
	01/24/2020			01/31/2020 03:12	Lipi Saha	2151631
	01/24/2020			01/31/2020 03:24	Lipi Saha	2151636
EPA 350.1 Rev. 2.0	01/24/2020			02/04/2020 12:43	Ping Hua	2151625
	01/24/2020			02/04/2020 12:52	Ping Hua	2151628

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EPA 350.1 Rev. 2.0	01/24/2020			02/04/2020 12:53	Ping Hua	2151640
	01/24/2020			02/04/2020 13:11	Ping Hua	2151632
	01/24/2020			02/04/2020 13:13	Ping Hua	2151633
	01/24/2020			02/04/2020 13:14	Ping Hua	2151637
EPA 351.2 Rev. 2.0	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 10:27	Jhamieka S. Greenwood	2151632
	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 10:29	Jhamieka S. Greenwood	2151633
	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 11:47	Jhamieka S. Greenwood	2151625
	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 11:48	Jhamieka S. Greenwood	2151628
	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 11:50	Jhamieka S. Greenwood	2151640
	01/24/2020	02/03/2020 11:45	Jhamieka S. Greenwood	02/04/2020 12:23	Jhamieka S. Greenwood	2151637
EPA 353.2 Rev. 2.0	01/24/2020			01/29/2020 10:20	Beverly Y. Sanders	2151625
	01/24/2020			01/29/2020 10:27	Beverly Y. Sanders	2151628
	01/24/2020			01/29/2020 10:35	Beverly Y. Sanders	2151640
	01/24/2020			01/31/2020 09:35	Beverly Y. Sanders	2151637
	01/24/2020			01/31/2020 09:48	Beverly Y. Sanders	2151632
	01/24/2020			01/31/2020 09:49	Beverly Y. Sanders	2151633
EPA 365.1 Rev. 2.0	01/24/2020	01/29/2020 15:35	Yen Ta	01/31/2020 12:58	Benjamin T. Nordmann	2151632
	01/24/2020	01/30/2020 14:58	Yen Ta	01/31/2020 15:44	Benjamin T. Nordmann	2151628
	01/24/2020	01/30/2020 14:58	Yen Ta	01/31/2020 15:45	Benjamin T. Nordmann	2151640
	01/24/2020	01/30/2020 14:58	Yen Ta	01/31/2020 16:16	Benjamin T. Nordmann	2151637
	01/24/2020	01/30/2020 14:58	Yen Ta	02/03/2020 12:33	Benjamin T. Nordmann	2151625
	01/24/2020	01/30/2020 14:58	Yen Ta	02/03/2020 12:52	Benjamin T. Nordmann	2151633
EPA 365.1 Rev. 2.0 dissolved	01/24/2020			01/24/2020 16:21	Carlos Miranda	2151629
	01/24/2020			01/24/2020 16:57	Carlos Miranda	2151626
	01/24/2020			01/24/2020 16:58	Carlos Miranda	2151641
	01/24/2020			01/24/2020 17:13	Carlos Miranda	2151634
	01/24/2020			01/24/2020 17:18	Carlos Miranda	2151635
	01/24/2020			01/24/2020 17:19	Carlos Miranda	2151638
EPA 8270E	01/24/2020	01/28/2020 09:00	Rasheda Ghaffari	01/31/2020 22:29	Arthur Maknenko	2151678
	01/24/2020	01/28/2020 09:00	Rasheda Ghaffari	01/31/2020 23:01	Arthur Maknenko	2151680
	01/24/2020	01/29/2020 08:00	Fe-Val Siddell	01/31/2020 21:03	Vandana T. Nagar	2151679
	01/24/2020	01/29/2020 08:00	Fe-Val Siddell	01/31/2020 21:30	Vandana T. Nagar	2151681
EPA 8276	01/24/2020	01/28/2020 09:00	Rasheda Ghaffari	01/31/2020 04:51	Michael Poppell	2151678
	01/24/2020	01/28/2020 09:00	Rasheda Ghaffari	01/31/2020 06:41	Michael Poppell	2151680
EPA 8321B	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/29/2020 15:10	Juyoung Kim	2151671
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/29/2020 15:45	Juyoung Kim	2151673
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/30/2020 00:59	Juyoung Kim	2151672
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/30/2020 01:34	Juyoung Kim	2151674
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/30/2020 02:08	Juyoung Kim	2151675
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/30/2020 02:43	Juyoung Kim	2151676

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EPA 8321B	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/30/2020 03:18	Juyoung Kim	2151677
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/31/2020 18:32	Juyoung Kim	2151672
	01/24/2020	01/27/2020 09:00	Hoor Shaik	01/31/2020 19:06	Juyoung Kim	2151674
	01/24/2020	01/28/2020 11:00	Rebecca Ware	01/28/2020 11:27	Rebecca Ware	2151672
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 11:38	Rebecca Ware	2151674
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 14:01	Rebecca Ware	2151675
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 14:12	Rebecca Ware	2151676
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 14:22	Rebecca Ware	2151677
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 17:03	Rebecca Ware	2151672
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 17:17	Rebecca Ware	2151674
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/28/2020 17:30	Rebecca Ware	2151675
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/29/2020 13:11	Rebecca Ware	2151676
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/29/2020 13:25	Rebecca Ware	2151677
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/30/2020 02:12	Rebecca Ware	2151675
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/30/2020 02:36	Rebecca Ware	2151676
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/30/2020 02:47	Rebecca Ware	2151677
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/30/2020 11:28	Rebecca Ware	2151672
	01/24/2020	01/28/2020 11:30	Rebecca Ware	01/30/2020 11:40	Rebecca Ware	2151674
SM 2120 B-2011	01/24/2020			01/24/2020 17:44	Madeline Funaro	2151627
	01/24/2020			01/24/2020 17:45	Madeline Funaro	2151639
	01/24/2020			01/24/2020 17:54	Madeline Funaro	2151624
SM 2320 B-2011	01/24/2020			01/30/2020 03:26	Dale L. Simmons	2151630
	01/24/2020			01/30/2020 04:51	Dale L. Simmons	2151631
	01/24/2020			01/30/2020 05:07	Dale L. Simmons	2151636
	01/24/2020			01/30/2020 09:14	Dale L. Simmons	2151639
	01/24/2020			01/30/2020 10:53	Dale L. Simmons	2151624
	01/24/2020			01/30/2020 11:07	Dale L. Simmons	2151627
SM 2340B	01/24/2020			01/30/2020 01:17	Betina Topolski	2151697
	01/24/2020			01/30/2020 01:25	Betina Topolski	2151698
SM 2540 C-2011	01/24/2020			01/29/2020 17:00	Blanca Fach	2151624, 2151627, 2151639
SM 2540 D-2011	01/24/2020			01/29/2020 17:00	Blanca Fach	2151624, 2151627, 2151630, 2151631, 2151636, 2151639
SM 4500 F-C-2011	01/24/2020			01/30/2020 02:29	Dale L. Simmons	2151630
	01/24/2020			01/30/2020 02:33	Dale L. Simmons	2151631
	01/24/2020			01/30/2020 09:14	Dale L. Simmons	2151639
	01/24/2020			01/30/2020 10:53	Dale L. Simmons	2151624
	01/24/2020			01/30/2020 11:07	Dale L. Simmons	2151627
	01/24/2020			02/07/2020 03:18	Dale L. Simmons	2151636
SM 5310 B-2011	01/24/2020			01/29/2020 21:26	Madeline Funaro	2151625
	01/24/2020			01/29/2020 21:38	Madeline Funaro	2151628

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SM 5310 B-2011	01/24/2020			01/29/2020 21:51	Madeline Funaro	2151640
	01/24/2020			01/30/2020 09:45	Madeline Funaro	2151632
	01/24/2020			01/30/2020 10:38	Madeline Funaro	2151633
	01/24/2020			01/30/2020 10:51	Madeline Funaro	2151637