

Chemical Analysis Report

SE-DIST-2019-10-01-01

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

Event Description: **SMP-Bad Lakes**
Request ID: **RQ-2019-09-30-64**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 22-OCT-2019 13:09



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: Clear Lake Center

Collection Date/Time: 09/30/2019 11:20

Field ID: G3SE0044

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123638	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P371670	
	EPA 300.0 Rev. 2.1	Chloride	46		mg Cl/L	P372202	
		Sulfate	18		mg SO4/L	P372206	
	SM 2120 B	Color (true)	20	A	PCU	P371654	
	SM 2320 B-97	Total Alkalinity	99		mg CaCO3/L	P371888	
	SM 2540 C-97	TDS	212		mg/L	P372030	
	SM 2540 D-97	TSS	4	I	mg/L	P372070	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P371891	
2123639	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P371973	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.87		mg N/L	P371705	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P371709	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P371724	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P371895	
2123640	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P371687	

Ref. Method and Comment:

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

Sample Location: Lake Mangonia North

Collection Date/Time: 09/30/2019 12:20

Field ID: G3SE0030

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123635	EPA 180.1 Rev. 2.0	Turbidity	3.1	A	NTU	P371670	
	EPA 300.0 Rev. 2.1	Chloride	41		mg Cl/L	P372202	
		Sulfate	14		mg SO4/L	P372206	
	SM 2120 B	Color (true)	35		PCU	P371654	
	SM 2320 B-97	Total Alkalinity	108		mg CaCO3/L	P371888	
	SM 2540 C-97	TDS	216		mg/L	P372030	
	SM 2540 D-97	TSS	5	I	mg/L	P372070	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P371891	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P371973	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P371705	
2123636	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P371709	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P371724	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P371777	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	I	mg P/L	P371687	
	dissolved						

Ref. Method and Comment:

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

Sample Location: Lake Clarke Center

Collection Date/Time: 09/30/2019 13:00

Field ID: G3SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123632	EPA 180.1 Rev. 2.0	Turbidity	5.4		NTU	P371669	
	EPA 300.0 Rev. 2.1	Chloride	55		mg Cl/L	P372202	
		Sulfate	26		mg SO4/L	P372206	
	SM 2120 B	Color (true)	39		PCU	P371654	
	SM 2320 B-97	Total Alkalinity	213		mg CaCO3/L	P371888	
	SM 2540 C-97	TDS	375		mg/L	P372030	
	SM 2540 D-97	TSS	7	I	mg/L	P372070	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P371891	
2123633	EPA 350.1 Rev. 2.0	Ammonia-N	0.081		mg N/L	P371973	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.93		mg N/L	P371705	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P371709	
	EPA 365.1 Rev. 2.0	Total-P	0.051		mg P/L	P371724	
	SM 5310 B-00	Organic Carbon	10		mg C/L	P371777	
2123634	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P371687	
2123651	EPA 8321B	Aldicarb	0.020	U	ug/L	P371702	
		Aldicarb Sulfone	0.0020	U	ug/L	P371702	
		Aldicarb Sulfoxide	0.0020	UJ	ug/L	P371702	MS
		Carbaryl	0.0020	U	ug/L	P371702	
		Carbofuran	0.0020	U	ug/L	P371702	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P371702	
		Methiocarb	0.0020	U	ug/L	P371702	
		Methomyl	0.0020	U	ug/L	P371702	
		Oxamyl	0.0020	U	ug/L	P371702	
		Propoxur	0.0020	U	ug/L	P371702	
2123652		2,4-D	0.051		ug/L	P371702	
		Acesulfame K**	0.16	I	ug/L	P371761	
		AMPA**	0.47		ug/L	P371761	
		Sucralose**	0.60		ug/L	P371761	
		Acetaminophen**	0.0080	U	ug/L	P371702	
		Acetamiprid**	0.0020	U	ug/L	P371702	
		Endothall**	0.25	U	ug/L	P371761	
		Glufosinate**	0.10	U	ug/L	P371761	
		Glyphosate**	1.3		ug/L	P371761	
		Afidopyropen**	0.0020	UJ	ug/L	P371702	
		Bentazon	0.039		ug/L	P371702	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P371702	
		Carbamazepine**	0.0034		ug/L	P371702	
		Clothianidin**	0.0020	U	ug/L	P371702	
		Dinotefuran**	0.0027	I	ug/L	P371702	
		Diuron	0.0071	I	ug/L	P371702	
		Fenuron	0.016	U	ug/L	P371702	
		Fluridone**	0.047		ug/L	P371702	
		Imazapyr**	0.39		ug/L	P371702	

Field ID: G3SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123652	EPA 8321B	Hydrocodone**	0.0020	U	ug/L	P371702	
		Ibuprofen**	0.020	U	ug/L	P371702	
		Imidacloprid	0.015		ug/L	P371702	
		Linuron	0.0040	U	ug/L	P371702	
		Mandestrobin**	0.0020	UJ	ug/L	P371702	
		MCP	0.0039	I	ug/L	P371702	
		Naproxen**	0.0080	U	ug/L	P371702	
		Primidone**	0.0040	U	ug/L	P371702	
		Pyraclostrobin**	0.0020	U	ug/L	P371702	
		Thiamethoxam**	0.0020	U	ug/L	P371702	
		Tolfenpyrad**	0.0020	U	ug/L	P371702	
		Triclopyr**	0.0040	U	ug/L	P371702	
2123653	EPA 8270E	Aldrin	4.2	U	ng/L	P371894	
		Alpha-BHC	2.1	U	ng/L	P371894	
		Alpha-Chlordane	1.0	U	ng/L	P371894	
		Beta-BHC	10	U	ng/L	P371894	
		Bifenthrin**	4.2	U	ng/L	P371894	
		Delta-BHC	8.4	U	ng/L	P371894	
		Gamma-BHC	8.4	U	ng/L	P371894	
		Carbophenothion	10	U	ng/L	P371894	
		Chlorothalonil	2.1	U	ng/L	P371894	
		Cis-Nonachlor**	1.0	U	ng/L	P371894	
		Cypermethrin	21	U	ng/L	P371894	
		DDD-p,p'	6.3	U	ng/L	P371894	
		DDE-p,p'	6.3	U	ng/L	P371894	
		DDT-p,p'	7.3	U	ng/L	P371894	
		Dicofol	31	U	ng/L	P371894	
		Dieldrin	4.2	U	ng/L	P371894	
		Endosulfan I	4.2	U	ng/L	P371894	
		Endosulfan II	4.2	U	ng/L	P371894	
		Endosulfan Sulfate	2.1	U	ng/L	P371894	
		Endrin	2.1	U	ng/L	P371894	
		Endrin Aldehyde	2.1	U	ng/L	P371894	
		Endrin Ketone	2.1	U	ng/L	P371894	
		Ethalfuralin**	3.1	U	ng/L	P371894	
		Gamma-Chlordane	1.0	U	ng/L	P371894	
		Heptachlor	1.6	U	ng/L	P371894	
		Heptachlor Epoxide	2.1	U	ng/L	P371894	
		Hexachlorobenzene	2.1	U	ng/L	P371894	
		Methoxychlor	4.2	U	ng/L	P371894	
		Mirex	2.1	U	ng/L	P371894	
		Permethrin	10	U	ng/L	P371894	
		Trans-Nonachlor**	1.0	U	ng/L	P371894	
		Trifluralin	2.6	U	ng/L	P371894	
	EPA 8276	Chlordane	5.2	U	ng/L	P371894	

Field ID: G3SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123653	EPA 8276	Toxaphene	31	U	ng/L	P371894	
2123654	EPA 8270E	Acetochlor	0.26	U	ng/L	P371606	
		Alachlor	0.26	U	ng/L	P371606	
		Ametryn	0.61	U	ng/L	P371606	
		Atrazine	32		ng/L	P371606	
		Atrazine Desethyl	1.5	U	ng/L	P371606	
		Azinphos Methyl	5.1	U	ng/L	P371606	
		Bromacil	0.51	U	ng/L	P371606	
		Butylate	0.41	U	ng/L	P371606	
		Chlorpyrifos Ethyl	0.26	U	ng/L	P371606	
		Chlorpyrifos Methyl	0.10	U	ng/L	P371606	
		Cyanazine	3.3	U	ng/L	P371606	
		Demeton	7.2	U	ng/L	P371606	
		Diazinon	0.13	U	ng/L	P371606	
		Dimethenamid**	0.22	I	ng/L	P371606	
		Disulfoton	0.51	U	ng/L	P371606	
		Dithiopyr**	0.10	U	ng/L	P371606	
		EPTC	1.3	U	ng/L	P371606	
		Ethion	0.15	U	ng/L	P371606	
		Ethoprop	0.10	U	ng/L	P371606	
		Fenamiphos	0.51	U	ng/L	P371606	
		Fipronil	0.26	U	ng/L	P371606	
		Fipronil Desulfinyl**	0.62		ng/L	P371606	
		Fipronil Sulfide	0.66		ng/L	P371606	
		Fipronil Sulfone	0.96		ng/L	P371606	
		Fonofos	0.20	U	ng/L	P371606	
		Hexazinone	7.9		ng/L	P371606	RPD
		Malathion	0.36	U	ng/L	P371606	
		Metalaxyl	0.73	I	ng/L	P371606	
		Metolachlor	0.51	U	ng/L	P371606	
		Metribuzin	0.77	U	ng/L	P371606	
		Mevinphos	0.51	U	ng/L	P371606	
		Molinate	0.31	U	ng/L	P371606	
		Norflurazon	0.51	U	ng/L	P371606	
		Oxadiazon**	5.7		ng/L	P371606	MS
		Parathion Ethyl	0.26	U	ng/L	P371606	
		Parathion Methyl	0.56	U	ng/L	P371606	
		Pendimethalin	1.0	U	ng/L	P371606	
		Phorate	0.26	U	ng/L	P371606	
		Prodiamine**	0.18	U	ng/L	P371606	MS, RPD
		Prometon	0.92	U	ng/L	P371606	
		Prometryn	0.20	U	ng/L	P371606	
		Simazine	0.51	U	ng/L	P371606	
		Tebuconazole**	0.51	U	ng/L	P371606	
		Terbufos	0.10	U	ng/L	P371606	

Field ID: G3SE0043

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123654	EPA 8270E	Terbutylazine	0.44	U	ng/L	P371606	
2123655	EPA 200.7 Rev. 4.4	Barium	26.3		ug/L	P371653	
		Calcium	91.6		mg/L	P371653	
		Iron	140		ug/L	P371653	
		Magnesium	4.72		mg/L	P371653	
		Potassium	3.3		mg/L	P371653	
		Sodium	33.7		mg/L	P371653	
		Zinc	5.0	U	ug/L	P371653	
	EPA 200.8 Rev. 5.4	Aluminum	80		ug/L	P371653	
		Antimony	0.21		ug/L	P371653	
		Arsenic	1.43		ug/L	P371653	
		Boron**	56.4		ug/L	P371653	
		Cadmium	0.020	U	ug/L	P371653	
		Chromium	0.49	I	ug/L	P371653	
		Copper	1.07		ug/L	P371653	
		Lead	0.26	I	ug/L	P371653	
		Nickel	0.50	U	ug/L	P371653	
		Selenium	0.26	I	ug/L	P371653	
		Silver	0.010	U	ug/L	P371653	
		Thallium	0.10	U	ug/L	P371653	

Ref. Method and Comment:

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

EPA 8321B: Refer to the narrative for an explanation of QC Codes.

EPA 8321B: J - second source check standards for some analytes were not available for analysis. MS accuracy for bentazon, fluridone and imazapyr could not be assessed due to high concentration of parameter in the spiked sample.

Sample Location: Okeeheelee Center

Collection Date/Time: 09/30/2019 13:25

Field ID: G3SE0042

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123629	EPA 180.1 Rev. 2.0	Turbidity	1.1		NTU	P371670	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P372202	
		Sulfate	0.20	U	mg SO4/L	P372206	
	SM 2120 B	Color (true)	8.2		PCU	P371654	
	SM 2320 B-97	Total Alkalinity	54		mg CaCO3/L	P371888	
	SM 2540 C-97	TDS	97		mg/L	P372030	
	SM 2540 D-97	TSS	2	I	mg/L	P372070	
	SM 4500 F-C-97	Fluoride	0.11		mg F/L	P371891	
2123630	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P371973	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.80		mg N/L	P371705	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P371709	
	EPA 365.1 Rev. 2.0	Total-P	0.012		mg P/L	P371724	
	SM 5310 B-00	Organic Carbon	7.4		mg C/L	P371777	
2123631	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P371687	

Ref. Method and Comment:

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

Sample Location: Tidal Creek to Lox

Collection Date/Time: 09/30/2019 14:30

Field ID: G2SE0027

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2123626	EPA 180.1 Rev. 2.0	Turbidity	2.4	A	NTU	P371668	
	EPA 300.0	Bromide	50		mg Br/L	P372082	
	SM 2320 B-97	Total Alkalinity	131		mg CaCO3/L	P371988	
	SM 2540 D-97	TSS	3	I	mg/L	P372073	
	SM 4500 F-C-97	Fluoride	0.89		mg F/L	P371991	
2123627	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P371970	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.41		mg N/L	P371698	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P372083	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P371689	
	SM 5310 B-00	Organic Carbon	6.3		mg C/L	P371897	
2123628	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.014		mg P/L	P371686	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371668

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371669

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371670

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P371653

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 200.8 Rev. 5.4
Batch ID: P371653

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 300.0
Batch ID: P372082

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372202

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372206

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371973

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371705

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P371709

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

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
Batch ID: P371724

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371687

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

Reference Method: EPA 8270E
Batch ID: P371606

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	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
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P371606

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

Reference Method: EPA 8270E
Batch ID: P371894

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P371894

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

Reference Method: EPA 8321B
Batch ID: P371702

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: P371761

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: P371761

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P371654

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P371888

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

Reference Method: SM 2320 B-97
Batch ID: P371988

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

Reference Method: SM 2540 C-97
Batch ID: P372030

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P372070

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P372073

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P371891

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P371991

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P371777

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

Reference Method: SM 5310 B-00
Batch ID: P371895

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

Reference Method: SM 5310 B-00
Batch ID: P371897

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: P371653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	95.9		P	85 - 115
Calcium	104		P	85 - 115
Iron	100		P	85 - 115
Magnesium	109		P	85 - 115
Potassium	107		P	85 - 115
Sodium	99.3		P	85 - 115
Zinc	93.5		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P371653

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	105		P	85 - 115
Arsenic	103		P	85 - 115
Boron	104		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	101		P	85 - 115
Copper	101		P	85 - 115
Lead	104		P	85 - 115
Nickel	101		P	85 - 115
Selenium	102		P	85 - 115
Silver	102		P	85 - 115
Thallium	105		P	85 - 115

Reference Method: EPA 300.0
Batch ID: P372082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Bromide	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372202

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372206

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.3		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.5		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371705

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P371709

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371724

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	98.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371687

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.8		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P371606

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	84.0	92.1	P/P	69 - 122
Alachlor	80.8	90.6	P/P	71 - 120
Ametryn	84.7	91.9	P/P	47 - 138
Atrazine	106	108	P/P	74 - 124
Atrazine Desethyl	74.5	89.5	P/P	38 - 138
Azinphos Methyl	86.5	71.6	P/P	69 - 154
Bromacil	94.0	107	P/P	39 - 121
Butylate	65.8	71.7	P/P	27 - 87.0
Chlorpyrifos Ethyl	83.3	97.3	P/P	69 - 118
Chlorpyrifos Methyl	83.9	94.5	P/P	70 - 120
Cyanazine	94.7	109	P/P	20 - 250
Demeton	81.1	90.2	P/P	39 - 118
Diazinon	83.5	94.4	P/P	68 - 127
Dimethenamid	86.7	96.7	P/P	66 - 125
Disulfoton	72.5	78.6	P/P	52 - 126
Dithiopyr	81.0	93.7	P/P	67 - 127
EPTC	61.1	69.2	P/P	24 - 88.0
Ethion	64.3	81.5	P/P	51 - 132
Ethoprop	80.5	91.8	P/P	58 - 117
Fenamiphos	84.8	103	P/P	38 - 139
Fipronil	79.0	92.4	P/P	61 - 124
Fipronil Desulfinyl	72.4	87.4	P/P	47 - 120
Fipronil Sulfide	78.9	93.7	P/P	56 - 119
Fipronil Sulfone	76.8	89.3	P/P	50 - 117
Fonofos	78.9	88.7	P/P	60 - 121
Hexazinone	84.5	101	P/P	55 - 137
Malathion	94.8	109	P/P	66 - 126
Metaxyl	82.1	91.6	P/P	33 - 140
Metolachlor	81.7	92.8	P/P	69 - 119
Metribuzin	111	130	P/P	31 - 238
Mevinphos	90.4	102	P/P	42 - 113
Molinate	76.2	85.8	P/P	32 - 96.0
Norflurazon	85.4	96.6	P/P	54 - 123
Oxadiazon	74.7	87.0	P/P	63 - 128
Parathion Ethyl	85.3	101	P/P	72 - 111
Parathion Methyl	91.3	107	P/P	74 - 126
Pendimethalin	78.4	85.0	P/P	61 - 131
Phorate	78.0	88.0	P/P	51 - 115
Prodiamine	54.1	51.5	P/P	38 - 144
Prometon	78.4	90.4	P/P	54 - 119
Prometryn	78.9	92.3	P/P	63 - 120
Simazine	109	123	P/P	75 - 126
Tebuconazole	45.2	56.7	P/P	20 - 119
Terbufos	81.2	93.5	P/P	64 - 116
Terbutylazine	82.1	98.6	P/P	73 - 117

Reference Method: EPA 8270E
Batch ID: P371894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.1	49.4	P/P	20 - 93.0
Alpha-BHC	96.2	92.5	P/P	55 - 133

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P371894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	92.4	93.2	P/P	58 - 112
Beta-BHC	112	111	P/P	54 - 168
Bifenthrin	97.6	98.4	P/P	30 - 134
Carbophenothion	89.7	88.7	P/P	26 - 147
Chlorothalonil	100	99.2	P/P	20 - 155
Cis-Nonachlor	99.1	99.5	P/P	54 - 115
Cypermethrin	110	107	P/P	40 - 137
DDD-p,p'	99.4	101	P/P	65 - 129
DDE-p,p'	89.3	91.5	P/P	57 - 116
DDT-p,p'	84.1	84.4	P/P	53 - 133
Delta-BHC	106	103	P/P	59 - 178
Dicofol	99.1	94.0	P/P	24 - 138
Dieldrin	94.5	92.8	P/P	60 - 120
Endosulfan I	91.6	92.4	P/P	64 - 118
Endosulfan II	104	105	P/P	58 - 142
Endosulfan Sulfate	102	99.0	P/P	60 - 127
Endrin	94.8	97.5	P/P	59 - 122
Endrin Aldehyde	102	101	P/P	49 - 132
Endrin Ketone	102	102	P/P	64 - 121
Ethalfuralin	93.4	91.6	P/P	60 - 126
Gamma-BHC	98.5	89.9	P/P	57 - 154
Gamma-Chlordane	91.1	91.1	P/P	56 - 110
Heptachlor	81.7	83.0	P/P	46 - 96.0
Heptachlor Epoxide	92.8	92.9	P/P	61 - 112
Hexachlorobenzene	83.9	84.5	P/P	44 - 98.0
Methoxychlor	98.4	95.3	P/P	63 - 134
Mirex	72.0	71.4	P/P	45 - 100
Permethrin	88.4	89.1	P/P	53 - 115
Trans-Nonachlor	92.0	91.8	P/P	47 - 110
Trifluralin	93.1	93.2	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P371894

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	99.2	98.1	P/P	43 - 128
Toxaphene	81.7	81.0	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P371702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	133		P	40 - 160
3-Hydroxycarbofuran	81.8		P	40 - 160
Acetaminophen	77.9		P	30 - 160
Acetamiprid	94.7		P	40 - 160
Afidopyropen	75.4		P	40 - 160
Aldicarb	71.5		P	30 - 160
Aldicarb Sulfone	88.2		P	40 - 160
Aldicarb Sulfoxide	93.9		P	40 - 160
Bentazon	107		P	30 - 160
Benzovindiflupyr	88.8		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P371702

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbamazepine	101		P	40 - 160
Carbaryl	88.5		P	40 - 160
Carbofuran	101		P	40 - 160
Clothianidin	90.3		P	40 - 160
Dinotefuran	80.1		P	40 - 160
Diuron	107		P	40 - 160
Fenuron	93.8		P	40 - 160
Fluridone	89.2		P	40 - 160
Hydrocodone	88.7		P	40 - 160
Ibuprofen	75.2		P	30 - 160
Imazapyr	94.9		P	40 - 160
Imidacloprid	96.9		P	40 - 160
Linuron	70.9		P	40 - 160
Mandestrobin	76.8		P	40 - 160
MCPP	131		P	40 - 160
Methiocarb	76.5		P	40 - 160
Methomyl	84.1		P	40 - 160
Naproxen	68.9		P	40 - 160
Oxamyl	88.4		P	40 - 160
Primidone	91.7		P	40 - 160
Propoxur	86.4		P	40 - 160
Pyraclostrobin	88.7		P	30 - 160
Thiamethoxam	97.2		P	40 - 160
Tolfenpyrad	46.7		P	40 - 160
Triclopyr	108		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P371761

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	115		P	40 - 150
AMPA	112		P	40 - 150
Endothall	86.8		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	97.9		P	40 - 140
Sucralose	74.3		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P371654

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.2		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P371888

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P371988

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P371891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P371991

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.2		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P371777

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

Reference Method: SM 5310 B-00
Batch ID: P371895

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P371897

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P371653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123551	Barium	97.3	97.9	P/P	80 - 120
2123551	Calcium	106	107	P/P	80 - 120
2123551	Iron	105	106	P/P	80 - 120
2123551	Magnesium	110	111	P/P	80 - 120
2123551	Potassium	106	105	P/P	80 - 120
2123551	Sodium	98.7		P	80 - 120
2123551	Zinc	97.0	97.6	P/P	80 - 120
2123615	Barium	96.6		P	80 - 120
2123615	Calcium	102		P	80 - 120
2123615	Iron	104		P	80 - 120
2123615	Magnesium	106		P	80 - 120
2123615	Potassium	109		P	80 - 120
2123615	Sodium	99.8		P	80 - 120
2123615	Zinc	95.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P371653

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123551	Aluminum	107	106	P/P	80 - 120
2123551	Antimony	104	103	P/P	80 - 120
2123551	Arsenic	103	103	P/P	80 - 120
2123551	Boron	110	109	P/P	80 - 120
2123551	Cadmium	99.9	99.1	P/P	80 - 120
2123551	Chromium	95.4	96.1	P/P	80 - 120
2123551	Copper	103	102	P/P	80 - 120
2123551	Lead	106	104	P/P	80 - 120
2123551	Nickel	100	100	P/P	80 - 120
2123551	Selenium	104	101	P/P	80 - 120
2123551	Silver	103	100	P/P	80 - 120
2123551	Thallium	110	109	P/P	80 - 120
2123615	Aluminum	101		P	80 - 120
2123615	Antimony	105		P	80 - 120
2123615	Arsenic	103		P	80 - 120
2123615	Boron	104		P	80 - 120
2123615	Cadmium	101		P	80 - 120
2123615	Chromium	99.2		P	80 - 120
2123615	Copper	100		P	80 - 120
2123615	Lead	103		P	80 - 120
2123615	Nickel	98.2		P	80 - 120
2123615	Selenium	99.0		P	80 - 120
2123615	Silver	101		P	80 - 120
2123615	Thallium	109		P	80 - 120

Reference Method: EPA 300.0
Batch ID: P372082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123747	Bromide	95.0	94.8	P/P	90 - 110
2124140	Bromide	93.9		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372202

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123582	Chloride	100	101	P/P	90 - 110
2123666	Chloride	100		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372206

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123582	Sulfate	102	102	P/P	90 - 110
2123666	Sulfate	102		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123153	Ammonia-N	101	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123630	Ammonia-N	95.1	96.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123154	Kjeldahl Nitrogen	96.1	93.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371705

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123639	Kjeldahl Nitrogen	92.8	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P371709

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123603	NO2NO3-N	98.5	98.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123087	NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123627	Total-P	94.7	92.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P371724

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123572	Total-P	97.6	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P371686

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123628	O-Phosphate-P	95.7	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P371687

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123631	O-Phosphate-P	94.2	93.8	P/P	90 - 110

Reference Method: EPA 8270E
 Batch ID: P371606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123062	Acetochlor	94.0	73.8	P/P	63 - 129
2123062	Alachlor	91.3	73.0	P/P	65 - 127
2123062	Ametryn	97.4	77.3	P/P	40 - 164
2123062	Atrazine	106	79.2	P/P	66 - 135
2123062	Atrazine Desethyl	135	103	P/P	14 - 157
2123062	Azinphos Methyl	106	92.1	P/P	49 - 180
2123062	Bromacil	92.2	84.7	P/P	48 - 130
2123062	Butylate	57.1	45.9	P/P	10 - 94.0
2123062	Chlorpyrifos Ethyl	92.2	71.9	P/P	58 - 123
2123062	Chlorpyrifos Methyl	84.3	67.4	P/P	58 - 125
2123062	Cyanazine	175	131	P/P	24 - 253
2123062	Demeton	89.0	68.6	P/P	25 - 149
2123062	Diazinon	108	83.6	P/P	59 - 144
2123062	Dimethenamid	89.9	71.9	P/P	46 - 139
2123062	Disulfoton	98.6	73.9	P/P	54 - 132
2123062	Dithiopyr	94.9	74.7	P/P	64 - 130
2123062	EPTC	59.9	49.0	P/P	10 - 92.0
2123062	Ethion	36.7	31.6	P/P	30 - 148
2123062	Ethoprop	98.1	73.4	P/P	50 - 130
2123062	Fenamiphos	120	94.9	P/P	49 - 142
2123062	Fipronil	99.3	82.6	P/P	46 - 140
2123062	Fipronil Desulfinyl	85.1	69.4	P/P	30 - 121
2123062	Fipronil Sulfide	76.4	62.6	P/P	31 - 136
2123062	Fipronil Sulfone	74.6	63.2	P/P	16 - 136
2123062	Fonofos	94.4	72.0	P/P	55 - 129
2123062	Hexazinone	119	80.4	P/P	56 - 141
2123062	Malathion	78.5	61.8	P/P	56 - 135
2123062	Metaxyl	88.5	74.6	P/P	54 - 135
2123062	Metolachlor	80.8	65.2	P/P	51 - 140
2123062	Metribuzin	130	100	P/P	45 - 254
2123062	Mevinphos	99.2	79.3	P/P	33 - 131
2123062	Molinate	82.5	65.4	P/P	14 - 98.0
2123062	Norflurazon	91.2	75.8	P/P	34 - 136
2123062	Oxadiazon	80.1	64.9	P/F	67 - 116

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P371606

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123062	Parathion Ethyl	78.8	67.3	P/P	66 - 118
2123062	Parathion Methyl	98.8	79.5	P/P	64 - 136
2123062	Pendimethalin	93.3	72.6	P/P	59 - 144
2123062	Phorate	98.7	75.5	P/P	42 - 130
2123062	Prodiamine	40.3	29.7	F/F	42 - 148
2123062	Prometon	88.4	69.1	P/P	59 - 134
2123062	Prometryn	92.2	73.2	P/P	54 - 135
2123062	Simazine	105	78.9	P/P	53 - 156
2123062	Tebuconazole	29.0	28.1	P/P	10 - 131
2123062	Terbufos	104	77.3	P/P	57 - 131
2123062	Terbutylazine	97.0	73.8	P/P	68 - 125

Reference Method: EPA 8270E
Batch ID: P371894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124829	Aldrin	63.0	61.6	P/P	25 - 92.0
2124829	Alpha-BHC	102	98.8	P/P	48 - 150
2124829	Alpha-Chlordane	91.4	88.2	P/P	50 - 115
2124829	Beta-BHC	120	120	P/P	39 - 184
2124829	Bifenthrin	107	105	P/P	46 - 116
2124829	Carbophenothion	115	113	P/P	27 - 180
2124829	Chlorothalonil	11.8	11.0	P/P	10 - 216
2124829	Cis-Nonachlor	97.0	93.2	P/P	55 - 112
2124829	Cypermethrin	111	111	P/P	40 - 153
2124829	DDD-p,p'	94.9	92.4	P/P	53 - 128
2124829	DDE-p,p'	85.1	81.6	P/P	48 - 116
2124829	DDT-p,p'	85.4	85.6	P/P	47 - 128
2124829	Delta-BHC	117	112	P/P	48 - 221
2124829	Dicofol	96.5	102	P/P	10 - 147
2124829	Dieldrin	94.9	91.6	P/P	48 - 128
2124829	Endosulfan I	98.5	91.6	P/P	58 - 126
2124829	Endosulfan II	109	103	P/P	50 - 150
2124829	Endosulfan Sulfate	104	98.9	P/P	56 - 130
2124829	Endrin	99.2	93.0	P/P	50 - 126
2124829	Endrin Aldehyde	85.3	77.9	P/P	12 - 145
2124829	Endrin Ketone	107	105	P/P	59 - 132
2124829	Ethalfuralin	96.7	95.0	P/P	65 - 122
2124829	Gamma-BHC	102	101	P/P	40 - 190
2124829	Gamma-Chlordane	89.5	86.7	P/P	50 - 112
2124829	Heptachlor	85.0	80.8	P/P	41 - 98.0
2124829	Heptachlor Epoxide	95.2	91.6	P/P	55 - 117
2124829	Hexachlorobenzene	83.0	85.1	P/P	47 - 91.0
2124829	Methoxychlor	99.0	97.2	P/P	55 - 133
2124829	Mirex	78.2	78.3	P/P	44 - 101
2124829	Permethrin	93.6	92.8	P/P	52 - 124
2124829	Trans-Nonachlor	84.9	82.3	P/P	53 - 99.0
2124829	Trifluralin	94.3	92.6	P/P	10 - 201

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P371894

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2124805	Chlordane	82.8	89.1	P/P	34 - 136
2124805	Toxaphene	69.3	68.6	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P371702

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123651	3-Hydroxycarbofuran	91.9	87.7	P/P	40 - 160
2123651	Aldicarb	85.5	81.8	P/P	30 - 160
2123651	Aldicarb Sulfone	97.5	97.1	P/P	40 - 160
2123651	Aldicarb Sulfoxide	38.3	35.9	F/F	40 - 160
2123651	Carbaryl	65.0	65.3	P/P	40 - 160
2123651	Carbofuran	78.4	76.1	P/P	40 - 160
2123651	Methiocarb	70.7	66.8	P/P	40 - 160
2123651	Methomyl	64.6	63.1	P/P	40 - 160
2123651	Oxamyl	86.6	82.0	P/P	40 - 160
2123651	Propoxur	70.7	67.0	P/P	40 - 160
2123652	2,4-D	113	116	P/P	40 - 160
2123652	Acetaminophen	63.6	64.7	P/P	30 - 160
2123652	Acetamiprid	103	98.0	P/P	40 - 160
2123652	Afidopyropen	80.4	80.1	P/P	40 - 160
2123652	Benzovindiflupyr	86.1	84.6	P/P	40 - 160
2123652	Carbamazepine	84.2	88.5	P/P	40 - 160
2123652	Clothianidin	83.6	83.0	P/P	40 - 160
2123652	Dinotefuran	84.5	94.8	P/P	40 - 160
2123652	Diuron	88.4	99.1	P/P	40 - 160
2123652	Fenuron	88.9	89.4	P/P	40 - 160
2123652	Hydrocodone	92.6	92.5	P/P	40 - 160
2123652	Ibuprofen	69.9	64.3	P/P	30 - 160
2123652	Imidacloprid	156	132	P/P	40 - 160
2123652	Linuron	63.1	61.2	P/P	40 - 160
2123652	Mandestrobin	73.6	76.5	P/P	40 - 160
2123652	MCPD	127	115	P/P	40 - 160
2123652	Naproxen	60.4	63.6	P/P	40 - 160
2123652	Primidone	84.1	97.8	P/P	40 - 160
2123652	Pyraclostrobin	88.0	95.8	P/P	30 - 160
2123652	Thiamethoxam	103	129	P/P	40 - 160
2123652	Tolfenpyrad	61.1	62.1	P/P	40 - 160
2123652	Triclopyr	78.4	101	P/P	30 - 160

Reference Method: EPA 8321B
Batch ID: P371761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123614	Acesulfame K	68.3	69.1	P/P	40 - 150
2123614	AMPA	56.2	57.1	P/P	40 - 150
2123614	Endothall	55.1	63.4	P/P	40 - 150
2123614	Glufosinate	67.8	80.6	P/P	40 - 150
2123614	Glyphosate	95.8	78.2	P/P	40 - 140
2123614	Sucralose	74.0	72.1	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P371891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123040	Fluoride	97.9	97.3	P/P	89 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P371991

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2122805	Fluoride	93.6	92.1	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P371777

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123636	Organic Carbon	96.4	97.4	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P371895

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123745	Organic Carbon	100	98.3	P/P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P371897

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2123733	Organic Carbon	96.0	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371668

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123626	Turbidity	6.19	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371669

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123581	Turbidity	10.7	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P371670

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123635	Turbidity	1.61	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P371653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123551	Barium	0.694	Spike	P	0 - 20
2123551	Calcium	1.07	Spike	P	0 - 20
2123551	Iron	1.55	Spike	P	0 - 20
2123551	Magnesium	0.723	Spike	P	0 - 20
2123551	Potassium	0.928	Spike	P	0 - 20
2123551	Sodium	0.311	Spike	P	0 - 20
2123551	Zinc	0.601	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P371653

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123551	Aluminum	0.531	Spike	P	0 - 20
2123551	Antimony	1.10	Spike	P	0 - 20
2123551	Arsenic	0.110	Spike	P	0 - 20
2123551	Boron	0.350	Spike	P	0 - 20
2123551	Cadmium	0.790	Spike	P	0 - 20
2123551	Chromium	0.718	Spike	P	0 - 20
2123551	Copper	0.202	Spike	P	0 - 20
2123551	Lead	1.05	Spike	P	0 - 20
2123551	Nickel	0.0299	Spike	P	0 - 20
2123551	Selenium	3.51	Spike	P	0 - 20
2123551	Silver	2.32	Spike	P	0 - 20
2123551	Thallium	0.471	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0
Batch ID: P372082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123747	Bromide	0.184	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123582	Chloride	0.178	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P372206

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123582	Sulfate	0.282	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123153	Ammonia-N	2.41	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P371973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123630	Ammonia-N	0.825	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371698

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123154	Kjeldahl Nitrogen	2.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P371705

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123639	Kjeldahl Nitrogen	6.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P371709

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123603	NO2NO3-N	0.312	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P372083

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123087	NO2NO3-N	0.623	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123627	Total-P	1.99	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P371724

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123572	Total-P	1.68	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371686

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123628	O-Phosphate-P	0.816	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P371687

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123631	O-Phosphate-P	0.426	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P371606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123062	Acetochlor	24.1	Spike	P	0 - 30
2123062	Alachlor	22.3	Spike	P	0 - 30
2123062	Ametryn	23.0	Spike	P	0 - 30
2123062	Atrazine	27.0	Spike	P	0 - 30
2123062	Atrazine Desethyl	26.3	Spike	P	0 - 30
2123062	Azinphos Methyl	14.3	Spike	P	0 - 30
2123062	Bromacil	8.46	Spike	P	0 - 30
2123062	Butylate	21.6	Spike	P	0 - 30
2123062	Chlorpyrifos Ethyl	24.7	Spike	P	0 - 30
2123062	Chlorpyrifos Methyl	22.3	Spike	P	0 - 30
2123062	Cyanazine	28.8	Spike	P	0 - 30
2123062	Demeton	25.9	Spike	P	0 - 30
2123062	Diazinon	25.2	Spike	P	0 - 30
2123062	Dimethenamid	22.2	Spike	P	0 - 30
2123062	Disulfoton	28.6	Spike	P	0 - 30
2123062	Dithiopyr	23.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P371606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123062	EPTC	20.0	Spike	P	0 - 30
2123062	Ethion	14.9	Spike	P	0 - 30
2123062	Ethoprop	28.8	Spike	P	0 - 30
2123062	Fenamiphos	23.1	Spike	P	0 - 30
2123062	Fipronil	18.4	Spike	P	0 - 30
2123062	Fipronil Desulfinyl	20.3	Spike	P	0 - 30
2123062	Fipronil Sulfide	19.8	Spike	P	0 - 30
2123062	Fipronil Sulfone	16.5	Spike	P	0 - 30
2123062	Fonofos	27.0	Spike	P	0 - 30
2123062	Hexazinone	38.3	Spike	F	0 - 30
2123062	Malathion	23.9	Spike	P	0 - 30
2123062	Metaxyl	17.0	Spike	P	0 - 30
2123062	Metolachlor	21.5	Spike	P	0 - 30
2123062	Metribuzin	26.0	Spike	P	0 - 30
2123062	Mevinphos	22.3	Spike	P	0 - 30
2123062	Molinate	23.2	Spike	P	0 - 30
2123062	Norflurazon	18.4	Spike	P	0 - 30
2123062	Oxadiazon	20.9	Spike	P	0 - 30
2123062	Parathion Ethyl	15.8	Spike	P	0 - 30
2123062	Parathion Methyl	21.6	Spike	P	0 - 30
2123062	Pendimethalin	24.9	Spike	P	0 - 30
2123062	Phorate	26.6	Spike	P	0 - 30
2123062	Prodiamine	30.2	Spike	F	0 - 30
2123062	Prometon	24.5	Spike	P	0 - 30
2123062	Prometryn	22.9	Spike	P	0 - 30
2123062	Simazine	28.6	Spike	P	0 - 30
2123062	Tebuconazole	3.15	Spike	P	0 - 30
2123062	Terbufos	29.3	Spike	P	0 - 30
2123062	Terbutylazine	27.2	Spike	P	0 - 30
LFB	Acetochlor	9.22	LCS	P	0 - 30
LFB	Alachlor	11.4	LCS	P	0 - 30
LFB	Ametryn	8.19	LCS	P	0 - 30
LFB	Atrazine	1.49	LCS	P	0 - 30
LFB	Atrazine Desethyl	18.3	LCS	P	0 - 30
LFB	Azinphos Methyl	18.9	LCS	P	0 - 30
LFB	Bromacil	12.8	LCS	P	0 - 30
LFB	Butylate	8.63	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	15.5	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	11.9	LCS	P	0 - 30
LFB	Cyanazine	14.2	LCS	P	0 - 30
LFB	Demeton	10.6	LCS	P	0 - 30
LFB	Diazinon	12.3	LCS	P	0 - 30
LFB	Dimethenamid	11.0	LCS	P	0 - 30
LFB	Disulfoton	8.12	LCS	P	0 - 30
LFB	Dithiopyr	14.5	LCS	P	0 - 30
LFB	EPTC	12.5	LCS	P	0 - 30
LFB	Ethion	23.6	LCS	P	0 - 30
LFB	Ethoprop	13.1	LCS	P	0 - 30
LFB	Fenamiphos	19.3	LCS	P	0 - 30
LFB	Fipronil	15.6	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	18.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P371606

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	17.2	LCS	P	0 - 30
LFB	Fipronil Sulfone	15.1	LCS	P	0 - 30
LFB	Fonofos	11.6	LCS	P	0 - 30
LFB	Hexazinone	17.7	LCS	P	0 - 30
LFB	Malathion	13.7	LCS	P	0 - 30
LFB	Metalaxyl	10.9	LCS	P	0 - 30
LFB	Metolachlor	12.7	LCS	P	0 - 30
LFB	Metribuzin	15.3	LCS	P	0 - 30
LFB	Mevinphos	11.8	LCS	P	0 - 30
LFB	Molinate	11.8	LCS	P	0 - 30
LFB	Norflurazon	12.3	LCS	P	0 - 30
LFB	Oxadiazon	15.2	LCS	P	0 - 30
LFB	Parathion Ethyl	16.5	LCS	P	0 - 30
LFB	Parathion Methyl	15.7	LCS	P	0 - 30
LFB	Pendimethalin	8.16	LCS	P	0 - 30
LFB	Phorate	12.1	LCS	P	0 - 30
LFB	Prodiamine	4.88	LCS	P	0 - 30
LFB	Prometon	14.2	LCS	P	0 - 30
LFB	Prometryn	15.6	LCS	P	0 - 30
LFB	Simazine	11.9	LCS	P	0 - 30
LFB	Tebuconazole	22.6	LCS	P	0 - 30
LFB	Terbufos	14.1	LCS	P	0 - 30
LFB	Terbuthylazine	18.3	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P371894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124829	Aldrin	2.13	Spike	P	0 - 30
2124829	Alpha-BHC	3.46	Spike	P	0 - 30
2124829	Alpha-Chlordane	3.62	Spike	P	0 - 30
2124829	Beta-BHC	0.152	Spike	P	0 - 30
2124829	Bifenthrin	1.71	Spike	P	0 - 30
2124829	Carbophenothion	1.31	Spike	P	0 - 30
2124829	Chlorothalonil	6.71	Spike	P	0 - 30
2124829	Cis-Nonachlor	4.02	Spike	P	0 - 30
2124829	Cypermethrin	0.0732	Spike	P	0 - 30
2124829	DDD-p,p'	2.61	Spike	P	0 - 30
2124829	DDE-p,p'	4.26	Spike	P	0 - 30
2124829	DDT-p,p'	0.259	Spike	P	0 - 30
2124829	Delta-BHC	3.97	Spike	P	0 - 30
2124829	Dicofol	5.60	Spike	P	0 - 30
2124829	Dieldrin	3.55	Spike	P	0 - 30
2124829	Endosulfan I	7.32	Spike	P	0 - 30
2124829	Endosulfan II	5.98	Spike	P	0 - 30
2124829	Endosulfan Sulfate	4.88	Spike	P	0 - 30
2124829	Endrin	6.44	Spike	P	0 - 30
2124829	Endrin Aldehyde	9.06	Spike	P	0 - 30
2124829	Endrin Ketone	1.97	Spike	P	0 - 30
2124829	Ethalfuralin	1.79	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P371894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124829	Gamma-BHC	0.806	Spike	P	0 - 30
2124829	Gamma-Chlordane	3.18	Spike	P	0 - 30
2124829	Heptachlor	5.09	Spike	P	0 - 30
2124829	Heptachlor Epoxide	3.81	Spike	P	0 - 30
2124829	Hexachlorobenzene	2.47	Spike	P	0 - 30
2124829	Methoxychlor	1.85	Spike	P	0 - 30
2124829	Mirex	0.174	Spike	P	0 - 30
2124829	Permethrin	0.877	Spike	P	0 - 30
2124829	Trans-Nonachlor	3.07	Spike	P	0 - 30
2124829	Trifluralin	1.75	Spike	P	0 - 30
LFB	Aldrin	0.594	LCS	P	0 - 30
LFB	Alpha-BHC	3.86	LCS	P	0 - 30
LFB	Alpha-Chlordane	0.932	LCS	P	0 - 30
LFB	Beta-BHC	1.02	LCS	P	0 - 30
LFB	Bifenthrin	0.748	LCS	P	0 - 30
LFB	Carbophenothion	1.03	LCS	P	0 - 30
LFB	Chlorothalonil	1.27	LCS	P	0 - 30
LFB	Cis-Nonachlor	0.403	LCS	P	0 - 30
LFB	Cypermethrin	2.66	LCS	P	0 - 30
LFB	DDD-p,p'	1.16	LCS	P	0 - 30
LFB	DDE-p,p'	2.42	LCS	P	0 - 30
LFB	DDT-p,p'	0.288	LCS	P	0 - 30
LFB	Delta-BHC	3.48	LCS	P	0 - 30
LFB	Dicofol	5.24	LCS	P	0 - 30
LFB	Dieldrin	1.82	LCS	P	0 - 30
LFB	Endosulfan I	0.891	LCS	P	0 - 30
LFB	Endosulfan II	0.292	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.61	LCS	P	0 - 30
LFB	Endrin	2.81	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.395	LCS	P	0 - 30
LFB	Endrin Ketone	0.0519	LCS	P	0 - 30
LFB	Ethalfuralin	1.88	LCS	P	0 - 30
LFB	Gamma-BHC	9.11	LCS	P	0 - 30
LFB	Gamma-Chlordane	0.00860	LCS	P	0 - 30
LFB	Heptachlor	1.66	LCS	P	0 - 30
LFB	Heptachlor Epoxide	0.101	LCS	P	0 - 30
LFB	Hexachlorobenzene	0.806	LCS	P	0 - 30
LFB	Methoxychlor	3.18	LCS	P	0 - 30
LFB	Mirex	0.768	LCS	P	0 - 30
LFB	Permethrin	0.773	LCS	P	0 - 30
LFB	Trans-Nonachlor	0.158	LCS	P	0 - 30
LFB	Trifluralin	0.0952	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P371894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2124805	Chlordane	7.32	Spike	P	0 - 30
2124805	Toxaphene	0.996	Spike	P	0 - 30
LFB	Chlordane	1.14	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P371894

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Toxaphene	0.909	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P371702

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123651	3-Hydroxycarbofuran	4.68	Spike	P	0 - 30
2123651	Aldicarb	4.43	Spike	P	0 - 30
2123651	Aldicarb Sulfone	0.365	Spike	P	0 - 30
2123651	Aldicarb Sulfoxide	6.52	Spike	P	0 - 30
2123651	Carbaryl	0.488	Spike	P	0 - 30
2123651	Carbofuran	3.05	Spike	P	0 - 30
2123651	Methiocarb	5.59	Spike	P	0 - 30
2123651	Methomyl	2.30	Spike	P	0 - 30
2123651	Oxamyl	5.37	Spike	P	0 - 30
2123651	Propoxur	5.34	Spike	P	0 - 30
2123652	2,4-D	1.56	Spike	P	0 - 30
2123652	Acetaminophen	1.63	Spike	P	0 - 30
2123652	Acetamiprid	5.41	Spike	P	0 - 30
2123652	Afidopyropen	0.362	Spike	P	0 - 30
2123652	Bentazon	1.32	Spike	P	0 - 30
2123652	Benzovindiflupyr	1.83	Spike	P	0 - 30
2123652	Carbamazepine	4.15	Spike	P	0 - 30
2123652	Clothianidin	0.789	Spike	P	0 - 30
2123652	Dinotefuran	11.2	Spike	P	0 - 30
2123652	Diuron	10.4	Spike	P	0 - 30
2123652	Fenuron	0.542	Spike	P	0 - 30
2123652	Fluridone	6.02	Spike	P	0 - 30
2123652	Hydrocodone	0.133	Spike	P	0 - 30
2123652	Ibuprofen	8.21	Spike	P	0 - 30
2123652	Imazapyr	2.96	Spike	P	0 - 30
2123652	Imidacloprid	14.4	Spike	P	0 - 30
2123652	Linuron	3.11	Spike	P	0 - 30
2123652	Mandestrobin	3.76	Spike	P	0 - 30
2123652	MCPP	9.50	Spike	P	0 - 30
2123652	Naproxen	5.28	Spike	P	0 - 30
2123652	Primidone	15.0	Spike	P	0 - 30
2123652	Pyraclostrobin	8.51	Spike	P	0 - 30
2123652	Thiamethoxam	22.3	Spike	P	0 - 30
2123652	Tolfenpyrad	1.66	Spike	P	0 - 30
2123652	Triclopyr	25.6	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P371761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123614	Acesulfame K	1.13	Spike	P	0 - 30
2123614	AMPA	1.37	Spike	P	0 - 30
2123614	Endothall	14.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P371761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123614	Glufosinate	17.3	Spike	P	0 - 30
2123614	Glyphosate	20.3	Spike	P	0 - 30
2123614	Sucralose	2.54	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P371654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123638	Color (true)	2.10	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P371888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123040	Total Alkalinity	1.10	Sample	P	0 - 2.8

Reference Method: SM 2320 B-97
Batch ID: P371988

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2122805	Total Alkalinity	0.730	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P372030

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123382	TDS	2.30	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P371891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123040	Fluoride	0.476	Spike	P	0 - 2.5

Reference Method: SM 4500 F-C-97
Batch ID: P371991

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2122805	Fluoride	0.960	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P371777

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

Reference Method: SM 5310 B-00
Batch ID: P371777

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123636	Organic Carbon	0.636	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P371895

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123745	Organic Carbon	0.932	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P371897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2123733	Organic Carbon	3.28	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2123651
Field Sample ID: G3SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	68.3	P	30 - 160

Lab Sample ID: 2123652
Field Sample ID: G3SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	64.7	P	30 - 160
EPA 8321B	Bentazon-d7	70.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	90.3	P	30 - 160
EPA 8321B	Diuron-d6	85.5	P	30 - 160
EPA 8321B	Endothall-d6	69.0	P	30 - 160
EPA 8321B	Endothall-d6	69.0	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.2	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	65.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	71.0	P	30 - 160
EPA 8321B	Primidone-d5	89.6	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160
EPA 8321B	Sucralose-d6	113	P	30 - 160

Lab Sample ID: 2123653
Field Sample ID: G3SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	108	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	88.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	68.1	P	30 - 103
EPA 8276	PCNB	120	P	37 - 143

Lab Sample ID: 2123654
Field Sample ID: G3SE0043

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	114	P	68 - 130
EPA 8270E	Terbufos-d10	88.9	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B

Run ID: A94636

Included Lab Sample IDs: 2123629, 2123632, 2123635, 2123638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.0	101	P/P	90 - 115

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A94639

Included Lab Sample IDs: 2123626, 2123629, 2123632, 2123635, 2123638

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.5	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A94645

Included Lab Sample IDs: 2123628, 2123631, 2123634, 2123637, 2123640

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.8	99.6	P/P	90 - 110
O-Phosphate-P	99.6	99.9	P/P	90 - 110
O-Phosphate-P	99.9	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A94650

Included Lab Sample IDs: 2123630, 2123633, 2123636, 2123639

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

Reference Method: SM 5310 B-00

Run ID: A94678

Included Lab Sample IDs: 2123630, 2123633, 2123636

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	98.6	P/P	90 - 110
Organic Carbon	94.7	95.2	P/P	90 - 110
Organic Carbon	95.2	94.4	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A94690

Included Lab Sample IDs: 2123655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	97.8	97.9	P/P	90 - 110
Calcium	101	102	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Potassium	101	101	P/P	90 - 110
Sodium	98.5	99.8	P/P	90 - 110
Zinc	98.1	97.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A94699

Included Lab Sample IDs: 2123633

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A94700

Included Lab Sample IDs: 2123627, 2123630, 2123636, 2123639

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A94711

Included Lab Sample IDs: 2123627, 2123630, 2123633, 2123636, 2123639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	98.7	P/P	90 - 110
Kjeldahl Nitrogen	98.6	95.0	P/P	90 - 110
Kjeldahl Nitrogen	99.7	95.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A94716

Included Lab Sample IDs: 2123652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	114	98.2	P/P	50 - 150
3-Hydroxycarbofuran	98.7	95.0	P/P	60 - 150
Acetaminophen	96.9	93.5	P/P	60 - 160
Acetamiprid	100	102	P/P	50 - 150
Afidopyropen	79.4	87.0	P/P	50 - 150
Aldicarb	114	102	P/P	60 - 150
Aldicarb Sulfone	85.7	88.5	P/P	50 - 150
Aldicarb Sulfoxide	87.5	82.8	P/P	50 - 150
Bentazon	118	120	P/P	50 - 160
Benzovindiflupyr	103	89.0	P/P	50 - 150
Carbamazepine	101	99.6	P/P	60 - 150
Carbaryl	91.0	107	P/P	60 - 150
Carbofuran	112	117	P/P	50 - 150
Clothianidin	89.4	97.6	P/P	60 - 150
Dinotefuran	79.6	82.8	P/P	50 - 150
Diuron	115	111	P/P	60 - 150
Fenuron	101	99.6	P/P	60 - 150
Fluridone	98.3	97.2	P/P	60 - 160
Hydrocodone	95.5	87.4	P/P	60 - 150
Ibuprofen	76.2	80.6	P/P	50 - 160
Imazapyr	104	89.0	P/P	50 - 150
Imidacloprid	86.4	91.4	P/P	60 - 150
Linuron	96.9	87.9	P/P	60 - 150
Mandestrobin	86.6	78.3	P/P	50 - 150
MCPP	90.1	91.4	P/P	50 - 150
Methiocarb	94.0	93.7	P/P	50 - 150
Methomyl	88.2	92.1	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A94716

Included Lab Sample IDs: 2123652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Naproxen	78.8	109	P/P	50 - 160
Oxamyl	90.3	87.3	P/P	50 - 150
Primidone	82.5	89.7	P/P	60 - 150
Propoxur	104	103	P/P	50 - 150
Pyraclostrobin	105	97.1	P/P	60 - 150
Thiamethoxam	93.7	88.6	P/P	50 - 150
Tolfenpyrad	101	98.7	P/P	60 - 150
Triclopyr	105	102	P/P	50 - 150

Reference Method: SM 2320 B-97

Run ID: A94720

Included Lab Sample IDs: 2123629, 2123632, 2123635, 2123638

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

Reference Method: SM 4500 F-C-97

Run ID: A94720

Included Lab Sample IDs: 2123629, 2123632, 2123635, 2123638

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

Reference Method: SM 5310 B-00

Run ID: A94723

Included Lab Sample IDs: 2123627, 2123639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	104	97.4	P/P	90 - 110
Organic Carbon	104	99.2	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A94729

Included Lab Sample IDs: 2123652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.3	83.5	P/P	60 - 160
Glufosinate	78.7	69.4	P/P	60 - 160
Glyphosate	82.4	83.6	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A94730

Included Lab Sample IDs: 2123652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	142	101	P/P	60 - 160
Endothall	89.5	96.0	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A94750

Included Lab Sample IDs: 2123627, 2123630, 2123633, 2123636, 2123639

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.1	96.0	P/P	90 - 110
Ammonia-N	96.9	96.1	P/P	90 - 110
Ammonia-N	97.7	98.0	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A94754

Included Lab Sample IDs: 2123626

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

Reference Method: SM 4500 F-C-97

Run ID: A94754

Included Lab Sample IDs: 2123626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	101	P/P	90 - 110

Reference Method: EPA 300.0

Run ID: A94790

Included Lab Sample IDs: 2123626

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromide	104	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A94791

Included Lab Sample IDs: 2123627

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	99.5	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A94810

Included Lab Sample IDs: 2123654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	96.0		P	80 - 120
Ametryn	96.4		P	80 - 120
Atrazine	106		P	80 - 120
Atrazine Desethyl	98.4		P	80 - 120
Azinphos Methyl	91.4		P	80 - 120
Bromacil	99.4		P	80 - 120
Butylate	96.5		P	80 - 120
Chlorpyrifos Ethyl	96.7		P	80 - 120
Chlorpyrifos Methyl	97.2		P	80 - 120
Cyanazine	93.1		P	80 - 120
Demeton	96.1		P	80 - 120
Diazinon	100		P	80 - 120
Dimethenamid	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A94810

Included Lab Sample IDs: 2123654

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Disulfoton	92.7		P	80 - 120
Dithiopyr	97.7		P	80 - 120
EPTC	96.6		P	80 - 120
Ethion	96.4		P	80 - 120
Ethoprop	98.9		P	80 - 120
Fenamiphos	97.9		P	80 - 120
Fipronil	98.3		P	80 - 120
Fipronil Desulfinyl	98.5		P	80 - 120
Fipronil Sulfide	97.0		P	80 - 120
Fipronil Sulfone	97.6		P	80 - 120
Fonofos	98.1		P	80 - 120
Hexazinone	98.6		P	80 - 120
Malathion	95.2		P	80 - 120
Metaxalyl	100		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	91.4		P	80 - 120
Mevinphos	99.8		P	80 - 120
Molinate	98.5		P	80 - 120
Norflurazon	102		P	80 - 120
Oxadiazon	102		P	80 - 120
Parathion Ethyl	100		P	80 - 120
Parathion Methyl	97.7		P	80 - 120
Pendimethalin	93.7		P	80 - 120
Phorate	98.4		P	80 - 120
Prodiamine	93.9		P	80 - 120
Prometon	98.2		P	80 - 120
Prometryn	99.6		P	80 - 120
Simazine	103		P	80 - 120
Tebuconazole	98.5		P	80 - 120
Terbufos	95.9		P	80 - 120
Terbutylazine	100		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A94830

Included Lab Sample IDs: 2123629, 2123632, 2123635, 2123638

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

Reference Method: EPA 8270E

Run ID: A94845

Included Lab Sample IDs: 2123653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	106		P	80 - 120
Alpha-BHC	112		P	80 - 120
Alpha-Chlordane	109		P	80 - 120
Beta-BHC	118		P	80 - 120
Bifenthrin	108		P	80 - 120
Carbophenothion	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A94845

Included Lab Sample IDs: 2123653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlorothalonil	101		P	80 - 120
Cis-Nonachlor	108		P	80 - 120
Cypermethrin	105		P	80 - 120
DDD-p,p'	109		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	105		P	80 - 120
Dicofol	107		P	80 - 120
Dieldrin	104		P	80 - 120
Endosulfan I	105		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	109		P	80 - 120
Endrin	112		P	80 - 120
Endrin Aldehyde	107		P	80 - 120
Endrin Ketone	112		P	80 - 120
Ethalfuralin	112		P	80 - 120
Gamma-BHC	109		P	80 - 120
Gamma-Chlordane	108		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	106		P	80 - 120
Hexachlorobenzene	115		P	80 - 120
Methoxychlor	108		P	80 - 120
Mirex	105		P	80 - 120
Permethrin	100		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Trifluralin	113		P	80 - 120

Reference Method: EPA 8321B

Run ID: A94848

Included Lab Sample IDs: 2123652

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	80.8	76.2	P/P	60 - 160

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94947

Included Lab Sample IDs: 2123655

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	108	108	P/P	90 - 110
Antimony	102	102	P/P	90 - 110
Arsenic	104	105	P/P	90 - 110
Boron	108	110	P/P	90 - 110
Cadmium	101	102	P/P	90 - 110
Chromium	98.4	96.9	P/P	90 - 110
Copper	105	104	P/P	90 - 110
Lead	106	106	P/P	90 - 110
Nickel	103	103	P/P	90 - 110
Silver	99.9	100	P/P	90 - 110
Thallium	102	98.6	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A94978

Included Lab Sample IDs: 2123655

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

Reference Method: EPA 8276

Run ID: A94997

Included Lab Sample IDs: 2123653

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.2		P	80 - 120
Toxaphene	102		P	80 - 120

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							6.19	
	Turbidity							10.7	
	Turbidity							1.61	
EPA 200.7 Rev. 4.4	Barium	95.9		97.3	97.9	96.6			0.694
	Calcium	104		106	107	102			1.07
	Iron	100		105	106	104			1.55
	Magnesium	109		106	110	111			0.723
	Potassium	107		106	105	109			0.928
	Sodium	99.3		98.7	99.8				0.311
	Zinc	93.5		97.0	97.6	95.6			0.601
EPA 200.8 Rev. 5.4	Aluminum	102		107	106	101			0.531
	Antimony	105		104	103	105			1.10
	Arsenic	103		103	103	103			0.110
	Boron	104		110	109	104			0.350
	Cadmium	101		99.9	99.1	101			0.790
	Chromium	101		95.4	96.1	99.2			0.718
	Copper	101		103	102	100			0.202
	Lead	104		106	104	103			1.05
	Nickel	101		100	100	98.2			0.0299
	Selenium	102		104	101	99.0			3.51
	Silver	102		103	100	101			2.32
	Thallium	105		110	109	109			0.471
	Bromide	98.9		95.0	94.8	93.9			0.184
EPA 300.0	Chloride	98.8		100	101	100			0.178
EPA 300.0 Rev. 2.1	Sulfate	101		102	102	102			0.282
EPA 350.1 Rev. 2.0	Ammonia-N	97.3		101	104				2.41
	Ammonia-N	95.5		95.1	96.0				0.825
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0		96.1	93.1				2.96
	Kjeldahl Nitrogen	93.5		92.8	105				6.97
EPA 353.2 Rev. 2.0	NO2NO3-N	100		98.5	98.0				0.312
	NO2NO3-N	100		101	100				0.623
EPA 365.1 Rev. 2.0	Total-P	102		94.7	92.8				1.99
	Total-P	98.6		97.6	99.6				1.68
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	103		95.7	96.6				0.816
	O-Phosphate-P	99.8		94.2	93.8				0.426
EPA 8270E	Acetochlor	84.0	92.1	94.0	73.8	9.22			24.1
	Alachlor	80.8	90.6	91.3	73.0	11.4			22.3
	Aldrin	49.1	49.4	63.0	61.6	0.594			2.13
	Alpha-BHC	96.2	92.5	102	98.8	3.86			3.46
	Alpha-Chlordane	92.4	93.2	91.4	88.2	0.932			3.62
	Ametryn	84.7	91.9	97.4	77.3	8.19			23.0
	Atrazine	106	108	106	79.2	1.49			27.0
	Atrazine Desethyl	74.5	89.5	135	103	18.3			26.3
	Azinphos Methyl	86.5	71.6	106	92.1	18.9			14.3
	Beta-BHC	112	111	120	120	1.02			0.152
	Bifenthrin	97.6	98.4	107	105	0.748			1.71
	Bromacil	94.0	107	92.2	84.7	12.8			8.46
	Butylate	65.8	71.7	57.1	45.9	8.63			21.6
	Carbophenothion	89.7	88.7	113	115	1.03			1.31
	Chlorothalonil	100	99.2	11.8	11.0	1.27			6.71
	Chlorpyrifos Ethyl	83.3	97.3	92.2	71.9	15.5			24.7
	Chlorpyrifos Methyl	83.9	94.5	84.3	67.4	11.9			22.3
	Cis-Nonachlor	99.1	99.5	97.0	93.2	0.403			4.02
	Cyanazine	94.7	109	175	131	14.2			28.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Cypermethrin	110	107	111	111	2.66	0.0732
	DDD-p,p'	99.4	101	94.9	92.4	1.16	2.61
	DDE-p,p'	89.3	91.5	85.1	81.6	2.42	4.26
	DDT-p,p'	84.1	84.4	85.4	85.6	0.288	0.259
	Delta-BHC	106	103	117	112	3.48	3.97
	Demeton	81.1	90.2	89.0	68.6	10.6	25.9
	Diazinon	83.5	94.4	108	83.6	12.3	25.2
	Dicofol	99.1	94.0	96.5	102	5.24	5.60
	Dieldrin	94.5	92.8	94.9	91.6	1.82	3.55
	Dimethenamid	86.7	96.7	89.9	71.9	11.0	22.2
	Disulfoton	72.5	78.6	98.6	73.9	8.12	28.6
	Dithiopyr	81.0	93.7	94.9	74.7	14.5	23.9
	Endosulfan I	91.6	92.4	98.5	91.6	0.891	7.32
	Endosulfan II	104	105	109	103	0.292	5.98
	Endosulfan Sulfate	102	99.0	104	98.9	2.61	4.88
	Endrin	94.8	97.5	99.2	93.0	2.81	6.44
	Endrin Aldehyde	102	101	85.3	77.9	0.395	9.06
	Endrin Ketone	102	102	107	105	0.0519	1.97
	EPTC	61.1	69.2	59.9	49.0	12.5	20.0
	Ethalfuralin	93.4	91.6	96.7	95.0	1.88	1.79
	Ethion	64.3	81.5	36.7	31.6	23.6	14.9
	Ethoprop	80.5	91.8	98.1	73.4	13.1	28.8
	Fenamiphos	84.8	103	120	94.9	19.3	23.1
	Fipronil	79.0	92.4	99.3	82.6	15.6	18.4
	Fipronil Desulfinyl	72.4	87.4	85.1	69.4	18.8	20.3
	Fipronil Sulfide	78.9	93.7	76.4	62.6	17.2	19.8
	Fipronil Sulfone	76.8	89.3	74.6	63.2	15.1	16.5
	Fonofos	78.9	88.7	94.4	72.0	11.6	27.0
	Gamma-BHC	98.5	89.9	102	101	9.11	0.806
	Gamma-Chlordane	91.1	91.1	89.5	86.7	0.0086	3.18
	Heptachlor	81.7	83.0	85.0	80.8	1.66	5.09
	Heptachlor Epoxide	92.8	92.9	95.2	91.6	0.101	3.81
	Hexachlorobenzene	83.9	84.5	83.0	85.1	0.806	2.47
	Hexazinone	84.5	101	119	80.4	17.7	38.3
	Malathion	94.8	109	78.5	61.8	13.7	23.9
	Metalaxyl	82.1	91.6	88.5	74.6	10.9	17.0
	Methoxychlor	98.4	95.3	99.0	97.2	3.18	1.85
	Metolachlor	81.7	92.8	80.8	65.2	12.7	21.5
	Metribuzin	111	130	130	100	15.3	26.0
	Mevinphos	90.4	102	99.2	79.3	11.8	22.3
	Mirex	72.0	71.4	78.2	78.3	0.768	0.174
	Molinate	76.2	85.8	82.5	65.4	11.8	23.2
	Norflurazon	85.4	96.6	91.2	75.8	12.3	18.4
	Oxadiazon	74.7	87.0	80.1	64.9	15.2	20.9
	Parathion Ethyl	85.3	101	78.8	67.3	16.5	15.8
	Parathion Methyl	91.3	107	98.8	79.5	15.7	21.6
	Pendimethalin	78.4	85.0	93.3	72.6	8.16	24.9
	Permethrin	88.4	89.1	93.6	92.8	0.773	0.877
	Phorate	78.0	88.0	98.7	75.5	12.1	26.6
	Prodiamine	54.1	51.5	40.3	29.7	4.88	30.2
	Prometon	78.4	90.4	88.4	69.1	14.2	24.5
	Prometryn	78.9	92.3	92.2	73.2	15.6	22.9
	Simazine	109	123	105	78.9	11.9	28.6
	Tebuconazole	45.2	56.7	29.0	28.1	22.6	3.15

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Terbufos	81.2	93.5	104	77.3	14.1		29.3
	Terbutylazine	82.1	98.6	97.0	73.8	18.3		27.2
	Trans-Nonachlor	92.0	91.8	84.9	82.3	0.158		3.07
	Trifluralin	93.1	93.2	94.3	92.6	0.0952		1.75
EPA 8276	Chlordane	99.2	98.1	82.8	89.1	1.14		7.32
	Toxaphene	81.7	81.0	69.3	68.6	0.909		0.996
EPA 8321B	2,4-D	133		113	116			1.56
	3-Hydroxycarbofuran	81.8		91.9	87.7			4.68
	Acesulfame K	115		68.3	69.1			1.13
	Acetaminophen	77.9		63.6	64.7			1.63
	Acetamiprid	94.7		103	98.0			5.41
	Afidopyropen	75.4		80.4	80.1			0.362
	Aldicarb	71.5		85.5	81.8			4.43
	Aldicarb Sulfone	88.2		97.5	97.1			0.365
	Aldicarb Sulfoxide	93.9		38.3	35.9			6.52
	AMPA	112		56.2	57.1			1.37
	Bentazon	107						1.32
	Benzovindiflupyr	88.8		86.1	84.6			1.83
	Carbamazepine	101		84.2	88.5			4.15
	Carbaryl	88.5		65.0	65.3			0.488
	Carbofuran	101		78.4	76.1			3.05
	Clothianidin	90.3		83.6	83.0			0.789
	Dinotefuran	80.1		84.5	94.8			11.2
	Diuron	107		88.4	99.1			10.4
	Endothall	86.8		55.1	63.4			14.1
	Fenuron	93.8		88.9	89.4			0.542
	Fluridone	89.2						6.02
	Glufosinate	103		67.8	80.6			17.3
	Glyphosate	97.9		95.8	78.2			20.3
	Hydrocodone	88.7		92.6	92.5			0.133
	Ibuprofen	75.2		69.9	64.3			8.21
	Imazapyr	94.9						2.96
	Imidacloprid	96.9		156	132			14.4
	Linuron	70.9		63.1	61.2			3.11
	Mandestrobin	76.8		73.6	76.5			3.76
	MCPP	131		127	115			9.50
	Methiocarb	76.5		70.7	66.8			5.59
	Methomyl	84.1		64.6	63.1			2.30
	Naproxen	68.9		60.4	63.6			5.28
	Oxamyl	88.4		86.6	82.0			5.37
	Primidone	91.7		84.1	97.8			15.0
	Propoxur	86.4		70.7	67.0			5.34
	Pyraclostrobin	88.7		88.0	95.8			8.51
	Sucralose	74.3		74.0	72.1			2.54
	Thiamethoxam	97.2		103	129			22.3
	Tolfenpyrad	46.7		61.1	62.1			1.66
	Triclopyr	108		78.4	101			25.6
SM 2120 B	Color (true)	99.2					2.10	
SM 2320 B-97	Total Alkalinity	103					1.10	
	Total Alkalinity	104					0.730	
SM 2540 C-97	TDS						2.30	
SM 4500 F-C-97	Fluoride	98.2		97.9	97.3			0.476
	Fluoride	98.2		93.6	92.1			0.960
SM 5310 B-00	Organic Carbon	101		96.4	97.4			0.636

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
SM 5310 B-00	Organic Carbon	103	100	98.3		0.932
	Organic Carbon	98.4	96.0	100		3.28

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2123626, 2123629, 2123632, 2123635, 2123638
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2123655
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2123655
EPA 300.0 / E31780	Bromide in aqueous matrices	2123626
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2123629, 2123632, 2123635, 2123638
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2123629, 2123632, 2123635, 2123638
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2123627, 2123630, 2123633, 2123636, 2123639
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2123627, 2123630, 2123633, 2123636, 2123639
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2123627, 2123630, 2123633, 2123636, 2123639
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2123627, 2123630, 2123633, 2123636, 2123639
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2123628, 2123631, 2123634, 2123637, 2123640
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2123653
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2123654
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2123653
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2123651
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2123652
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2123652
SM 2120 B / E31780	True Color measured at 450 nm	2123629, 2123632, 2123635, 2123638
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2123626, 2123629, 2123632, 2123635, 2123638
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2123629, 2123632, 2123635, 2123638
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2123626, 2123629, 2123632, 2123635, 2123638
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2123626, 2123629, 2123632, 2123635, 2123638
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2123627, 2123630, 2123633, 2123636, 2123639

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	10/01/2019			10/01/2019 16:44	Rosalyn Ballman	2123626, 2123629, 2123632, 2123635, 2123638
EPA 200.7 Rev. 4.4	10/01/2019	10/01/2019 16:50	Elliott D. Healy	10/03/2019 10:30	Betina Topolski	2123655
EPA 200.8 Rev. 5.4	10/01/2019	10/01/2019 16:50	Elliott D. Healy	10/15/2019 05:59	Robert K Palmer	2123655
	10/01/2019	10/01/2019 16:50	Elliott D. Healy	10/16/2019 04:16	Robert K Palmer	2123655
EPA 300.0	10/01/2019			10/08/2019 05:02	Jhamieka S. Greenwood	2123626
EPA 300.0 Rev. 2.1	10/01/2019			10/08/2019 03:48	Jhamieka S. Greenwood	2123629
	10/01/2019			10/08/2019 04:00	Jhamieka S. Greenwood	2123632
	10/01/2019			10/08/2019 04:12	Jhamieka S. Greenwood	2123635
	10/01/2019			10/08/2019 04:24	Jhamieka S. Greenwood	2123638
EPA 350.1 Rev. 2.0	10/01/2019			10/04/2019 13:05	Ping Hua	2123627
	10/01/2019			10/04/2019 14:21	Ping Hua	2123630
	10/01/2019			10/04/2019 14:27	Ping Hua	2123633
	10/01/2019			10/04/2019 14:29	Ping Hua	2123636
	10/01/2019			10/04/2019 14:37	Ping Hua	2123639
EPA 351.2 Rev. 2.0	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 16:30	Julia Storbeck	2123627
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 17:16	Julia Storbeck	2123639
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 17:27	Julia Storbeck	2123630
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 17:32	Julia Storbeck	2123633
	10/01/2019	10/02/2019 11:25	Sima Feizi	10/03/2019 17:33	Julia Storbeck	2123636
EPA 353.2 Rev. 2.0	10/01/2019			10/02/2019 09:52	Beverly Y. Sanders	2123630
	10/01/2019			10/02/2019 09:53	Beverly Y. Sanders	2123633
	10/01/2019			10/02/2019 09:54	Beverly Y. Sanders	2123636
	10/01/2019			10/02/2019 09:56	Beverly Y. Sanders	2123639
	10/01/2019			10/08/2019 10:05	Beverly Y. Sanders	2123627
EPA 365.1 Rev. 2.0	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 11:46	Lipi Saha	2123633
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:06	Lipi Saha	2123627
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:26	Lipi Saha	2123630
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:27	Lipi Saha	2123636
	10/01/2019	10/02/2019 12:14	Vijayalakshmi Reddy	10/03/2019 14:28	Lipi Saha	2123639
EPA 365.1 Rev. 2.0 dissolved	10/01/2019			10/01/2019 15:26	Virginia P. Brown	2123628
	10/01/2019			10/01/2019 15:34	Virginia P. Brown	2123631
	10/01/2019			10/01/2019 15:50	Virginia P. Brown	2123634, 2123637
	10/01/2019			10/01/2019 15:51	Virginia P. Brown	2123640
EPA 8270E	10/01/2019	10/01/2019 11:30	Rasheda Ghaffari	10/03/2019 18:42	Vandana T. Nagar	2123654
	10/01/2019	10/07/2019 08:30	Rasheda Ghaffari	10/09/2019 21:21	Arthur Maknenko	2123653
EPA 8276	10/01/2019	10/07/2019 08:30	Rasheda Ghaffari	10/11/2019 03:03	Michael Poppell	2123653
EPA 8321B	10/01/2019	10/02/2019 14:00	Hoor Shaik	10/03/2019 17:26	Juyoung Kim	2123651
	10/01/2019	10/02/2019 14:00	Hoor Shaik	10/04/2019 00:55	Juyoung Kim	2123652
	10/01/2019	10/03/2019 10:00	Rebecca Ware	10/03/2019 12:25	Rebecca Ware	2123652

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	10/01/2019	10/03/2019 10:00	Rebecca Ware	10/04/2019 10:14	Rebecca Ware	2123652
	10/01/2019	10/03/2019 10:00	Rebecca Ware	10/09/2019 18:12	Rebecca Ware	2123652
SM 2120 B	10/01/2019			10/01/2019 14:08	Madeline Funaro	2123629, 2123632
	10/01/2019			10/01/2019 14:09	Madeline Funaro	2123635
	10/01/2019			10/01/2019 14:11	Madeline Funaro	2123638
SM 2320 B-97	10/01/2019			10/03/2019 10:22	Dale L. Simmons	2123629
	10/01/2019			10/03/2019 10:34	Dale L. Simmons	2123632
	10/01/2019			10/03/2019 10:47	Dale L. Simmons	2123635
	10/01/2019			10/03/2019 10:59	Dale L. Simmons	2123638
	10/01/2019			10/04/2019 12:54	Dale L. Simmons	2123626
SM 2540 C-97	10/01/2019			10/02/2019 15:09	Yijie Li	2123629, 2123632, 2123635, 2123638
SM 2540 D-97	10/01/2019			10/02/2019 15:09	Yijie Li	2123626, 2123629, 2123632, 2123635, 2123638
SM 4500 F-C-97	10/01/2019			10/03/2019 10:22	Dale L. Simmons	2123629
	10/01/2019			10/03/2019 10:34	Dale L. Simmons	2123632
	10/01/2019			10/03/2019 10:47	Dale L. Simmons	2123635
	10/01/2019			10/03/2019 10:59	Dale L. Simmons	2123638
	10/01/2019			10/04/2019 07:59	Dale L. Simmons	2123626
SM 5310 B-00	10/01/2019			10/02/2019 21:44	Madeline Funaro	2123636
	10/01/2019			10/03/2019 03:13	Madeline Funaro	2123630
	10/01/2019			10/03/2019 03:50	Madeline Funaro	2123633
	10/01/2019			10/03/2019 15:59	Madeline Funaro	2123639
	10/01/2019			10/04/2019 04:02	Madeline Funaro	2123627