

Chemical Analysis Report

SE-DIST-2019-02-14-01

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

Event Description: **SMP-Boca**
Request ID: **RQ-2019-02-11-63**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
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2199 South Rock Road
Fort Pierce, FL 34945
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 05-MAR-2019 13:36

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first few letters of the first name.

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: E-3 @ Palmetto Park

Collection Date/Time: 02/13/2019 11:20

Field ID: G3SE0034

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062506	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P358971	
	EPA 300.0 Rev. 2.1	Chloride	51		mg Cl/L	P359564	
		Sulfate	32		mg SO4/L	P359566	
		Color (true)	38		PCU	P358961	
	SM 2320 B-97	Total Alkalinity	181		mg CaCO3/L	P359109	
	SM 2540 C-97	TDS	328		mg/L	P359202	
	SM 2540 D-97	TSS	2	U	mg/L	P359124	
	SM 4500 F-C-97	Fluoride	0.22		mg F/L	P359111	
2062507	EPA 350.1 Rev. 2.0	Ammonia-N	0.013		mg N/L	P359267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.86		mg N/L	P359022	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.013		mg N/L	P359147	
	EPA 365.1 Rev. 2.0	Total-P	0.039		mg P/L	P359004	
	SM 5310 B-00	Organic Carbon	9.9		mg C/L	P359402	
2062508	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.011		mg P/L	P358963	
2062577	EPA 200.7 Rev. 4.4	Barium	17.7		ug/L	P359073	
		Calcium	81.1		mg/L	P359073	
		Iron	30.0	U	ug/L	P359073	
		Magnesium	4.85		mg/L	P359073	
		Potassium	5.19		mg/L	P359073	
		Sodium	31.4		mg/L	P359073	
		Zinc	5.0	U	ug/L	P359073	
	EPA 200.8 Rev. 5.4	Aluminum	7.3	I	ug/L	P359073	
		Antimony	0.13	I	ug/L	P359073	
		Arsenic	1.57		ug/L	P359073	
		Boron**	41.9		ug/L	P359073	
		Cadmium	0.020	U	ug/L	P359073	
		Chromium	0.43	I	ug/L	P359073	
		Copper	2.55		ug/L	P359073	
		Lead	0.20	U	ug/L	P359073	
		Nickel	0.50	U	ug/L	P359073	
		Selenium	0.27	I	ug/L	P359073	
		Silver	0.010	U	ug/L	P359073	
		Thallium	0.10	U	ug/L	P359073	

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: E-2 @ Glades

Collection Date/Time: 02/13/2019 12:00

Field ID: G3SE0035

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062509	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P358971	
	EPA 300.0 Rev. 2.1	Chloride	44		mg Cl/L	P359564	
		Sulfate	34		mg SO4/L	P359566	
		Color (true)	48		PCU	P358961	
	SM 2320 B-97	Total Alkalinity	167		mg CaCO3/L	P359109	
	SM 2540 C-97	TDS	318	A	mg/L	P359202	
	SM 2540 D-97	TSS	3	IA	mg/L	P359124	
	SM 4500 F-C-97	Fluoride	0.21		mg F/L	P359111	
2062510	EPA 350.1 Rev. 2.0	Ammonia-N	0.062		mg N/L	P359267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359022	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.061		mg N/L	P359147	
	EPA 365.1 Rev. 2.0	Total-P	0.18		mg P/L	P359004	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P359402	
2062511	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P358963	
2062578	EPA 200.7 Rev. 4.4	Barium	16.7		ug/L	P359073	
		Calcium	75.0		mg/L	P359073	
		Iron	38.9	I	ug/L	P359073	
		Magnesium	6.29		mg/L	P359073	
		Potassium	8.12		mg/L	P359073	
		Sodium	29.7		mg/L	P359073	
		Zinc	5.0	U	ug/L	P359073	
	EPA 200.8 Rev. 5.4	Aluminum	24		ug/L	P359073	
		Antimony	0.21		ug/L	P359073	
		Arsenic	2.71		ug/L	P359073	
		Boron**	52.3		ug/L	P359073	
		Cadmium	0.020	U	ug/L	P359073	
		Chromium	0.54	I	ug/L	P359073	
		Copper	4.62		ug/L	P359073	
		Lead	0.20	U	ug/L	P359073	
		Nickel	0.50	U	ug/L	P359073	
		Selenium	0.22	I	ug/L	P359073	
		Silver	0.010	U	ug/L	P359073	
		Thallium	0.10	U	ug/L	P359073	

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: E-1 West @ Glades

Collection Date/Time: 02/13/2019 12:30

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062503	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P358971	
	EPA 300.0 Rev. 2.1	Chloride	39		mg Cl/L	P359563	
		Sulfate	32		mg SO4/L	P359565	
	SM 2120 B	Color (true)	37	A	PCU	P358961	
	SM 2320 B-97	Total Alkalinity	193		mg CaCO3/L	P359109	
	SM 2540 C-97	TDS	326		mg/L	P359202	
	SM 2540 D-97	TSS	4	I	mg/L	P359124	
	SM 4500 F-C-97	Fluoride	0.27		mg F/L	P359111	
2062504	EPA 350.1 Rev. 2.0	Ammonia-N	0.083		mg N/L	P359267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.99		mg N/L	P359021	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.044		mg N/L	P359147	
	EPA 365.1 Rev. 2.0	Total-P	0.17		mg P/L	P359004	
	SM 5310 B-00	Organic Carbon	11		mg C/L	P359402	
2062505	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.12		mg P/L	P358963	
2062556	EPA 8321B	Aldicarb	0.020	U	ug/L	P358913	
		Aldicarb Sulfone	0.0020	U	ug/L	P358913	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358913	
		Carbaryl	0.0020	U	ug/L	P358913	
		Carbofuran	0.0020	U	ug/L	P358913	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358913	
		Methiocarb	0.0020	U	ug/L	P358913	
		Methomyl	0.0020	U	ug/L	P358913	
		Oxamyl	0.0020	U	ug/L	P358913	
		Propoxur	0.0020	U	ug/L	P358913	
2062557		2,4-D	0.0053	I	ug/L	P358913	
		Acesulfame K**	0.17	I	ug/L	P358978	
		AMPA**	0.93		ug/L	P358978	
		Sucralose**	0.28		ug/L	P358978	
		Acetaminophen**	0.0080	U	ug/L	P358913	
		Endothall**	0.25	U	ug/L	P358978	
		Glufosinate**	0.10	U	ug/L	P358978	
		Glyphosate**	7.2		ug/L	P358978	
		Bentazon	0.082		ug/L	P358913	MS
		Carbamazepine**	8.0E-04	U	ug/L	P358913	
		Diuron	0.0087		ug/L	P358913	
		Fenuron	0.016	U	ug/L	P358913	
		Imazapyr**	0.22		ug/L	P358913	
		Imidacloprid	0.038		ug/L	P358913	MS
		Linuron	0.0040	U	ug/L	P358913	
		MCPP	0.0029	I	ug/L	P358913	
		Primidone**	0.0040	U	ug/L	P358913	
		Pyraclostrobin**	0.0020	U	ug/L	P358913	
		Triclopyr**	0.0040	U	ug/L	P358913	

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062557	EPA 8321B	Fluridone**	0.059		ug/L	P358913	
		Hydrocodone**	0.0020	U	ug/L	P358913	
		Naproxen**	0.0080	U	ug/L	P358913	
		Ibuprofen**	0.020	U	ug/L	P358913	
2062568	EPA 8270D	Aldrin	4.4	U	ng/L	P359029	
		Alpha-BHC	2.2	U	ng/L	P359029	
		Alpha-Chlordane	1.1	U	ng/L	P359029	
		Beta-BHC	11	U	ng/L	P359029	
		Delta-BHC	11	U	ng/L	P359029	
		Gamma-BHC	11	UJ	ng/L	P359029	LCS
		Carbophenothion	13	U	ng/L	P359029	
		Chlorothalonil	2.2	U	ng/L	P359029	
		Cypermethrin	22	U	ng/L	P359029	
		DDD-p,p'	8.7	U	ng/L	P359029	
		DDE-p,p'	8.7	U	ng/L	P359029	
		DDT-p,p'	11	U	ng/L	P359029	
		Dicofol	33	U	ng/L	P359029	
		Dieldrin	4.4	U	ng/L	P359029	
		Endosulfan I	4.4	U	ng/L	P359029	
		Endosulfan II	4.4	U	ng/L	P359029	
		Endosulfan Sulfate	2.2	U	ng/L	P359029	
		Endrin	2.2	UJ	ng/L	P359029	LCS
		Endrin Aldehyde	2.2	U	ng/L	P359029	
		Endrin Ketone	2.2	U	ng/L	P359029	
		Gamma-Chlordane	1.1	U	ng/L	P359029	
		Heptachlor	1.6	U	ng/L	P359029	
		Heptachlor Epoxide	2.2	U	ng/L	P359029	
		Methoxychlor	4.4	U	ng/L	P359029	
		Mirex	2.2	U	ng/L	P359029	
		Permethrin	11	U	ng/L	P359029	
		Trifluralin	2.7	U	ng/L	P359029	
		Chlordane	5.4	U	ng/L	P359029	
		Toxaphene	33	U	ng/L	P359029	
2062569	EPA 8270D	Acetochlor	0.24	U	ng/L	P359172	
		Alachlor	0.24	U	ng/L	P359172	
		Ametryn	0.59	U	ng/L	P359172	
		Atrazine	54	J	ng/L	P359172	RPD
		Atrazine Desethyl	5.5	I	ng/L	P359172	
		Azinphos Methyl	2.2	U	ng/L	P359172	
		Bromacil	0.49	U	ng/L	P359172	
		Butylate	0.39	U	ng/L	P359172	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P359172	
		Chlorpyrifos Methyl	0.098	U	ng/L	P359172	
		Cyanazine	3.2	U	ng/L	P359172	
		Demeton	6.8	U	ng/L	P359172	

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062569	EPA 8270D	Diazinon	0.12	U	ng/L	P359172	
		Dimethenamid**	0.12	I	ng/L	P359172	
		Disulfoton	0.49	U	ng/L	P359172	
		Dithiopyr**	0.17	I	ng/L	P359172	
		EPTC	1.2	U	ng/L	P359172	
		Ethion	0.15	U	ng/L	P359172	
		Ethoprop	0.098	U	ng/L	P359172	
		Fenamiphos	0.49	U	ng/L	P359172	
		Fipronil	0.26	I	ng/L	P359172	
		Fipronil Desulfinyl**	0.31	IJ	ng/L	P359172	LCS, MS
		Fipronil Sulfide	0.17	I	ng/L	P359172	
		Fipronil Sulfone	0.42	I	ng/L	P359172	
		Fonofos	0.20	U	ng/L	P359172	
		Hexazinone	3.2	J	ng/L	P359172	
		Malathion	0.34	U	ng/L	P359172	
		Metalaxyl	9.7		ng/L	P359172	
		Metolachlor	56		ng/L	P359172	
		Metribuzin	0.73	U	ng/L	P359172	
		Mevinphos	0.49	U	ng/L	P359172	
		Molinate	0.29	U	ng/L	P359172	
		Norflurazon	0.49	U	ng/L	P359172	
		Oxadiazon**	5.7		ng/L	P359172	
		Parathion Ethyl	0.24	U	ng/L	P359172	
		Parathion Methyl	0.54	U	ng/L	P359172	
		Pendimethalin	0.98	U	ng/L	P359172	
		Phorate	0.24	U	ng/L	P359172	
		Prodiamine**	0.17	U	ng/L	P359172	
		Prometon	0.88	U	ng/L	P359172	
		Prometryn	0.20	U	ng/L	P359172	
		Simazine	0.84	I	ng/L	P359172	
		Tebuconazole**	3.3		ng/L	P359172	
		Terbufos	0.098	U	ng/L	P359172	
		Terbutylazine	0.41	U	ng/L	P359172	
2062576	EPA 200.7 Rev. 4.4	Barium	18.0		ug/L	P359073	
		Calcium	85.3		mg/L	P359073	
		Iron	64.3	I	ug/L	P359073	
		Magnesium	5.02		mg/L	P359073	
		Potassium	6.44		mg/L	P359073	
		Sodium	24.8		mg/L	P359073	
	EPA 200.8 Rev. 5.4	Zinc	7.0	I	ug/L	P359073	
		Aluminum	17	I	ug/L	P359073	
		Antimony	0.26		ug/L	P359073	
		Arsenic	1.17		ug/L	P359073	
		Boron**	47.7		ug/L	P359073	
		Cadmium	0.020	U	ug/L	P359073	

Field ID: G3SE0033

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062576	EPA 200.8 Rev. 5.4	Chromium	0.45	I	ug/L	P359073	
		Copper	2.96		ug/L	P359073	
		Lead	0.20	U	ug/L	P359073	
		Nickel	0.50	U	ug/L	P359073	
		Selenium	0.20	U	ug/L	P359073	
		Silver	0.010	U	ug/L	P359073	
		Thallium	0.10	U	ug/L	P359073	

Ref. Method and Comment:

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

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

EPA 8270D: Refer to the narrative for an explanation of QC Codes.

EPA 8270D: Estimation for hexazinone due to Internal Standard recovery below control limits. Refer to the narrative for an explanation of QC Codes.

Sample Location: E-2 @ Clint Moore

Collection Date/Time: 02/13/2019 13:15

Field ID: G3SE0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062500	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P358971	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P359563	
		Sulfate	34		mg SO4/L	P359565	
	SM 2120 B	Color (true)	63		PCU	P358961	
	SM 2320 B-97	Total Alkalinity	174		mg CaCO3/L	P359109	
	SM 2540 C-97	TDS	328		mg/L	P359202	
	SM 2540 D-97	TSS	4	I	mg/L	P359124	
	SM 4500 F-C-97	Fluoride	0.19		mg F/L	P359111	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.076		mg N/L	P359267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.2		mg N/L	P359021	
2062501	EPA 353.2 Rev. 2.0	NO2NO3-N	0.11		mg N/L	P359147	
	EPA 365.1 Rev. 2.0	Total-P	0.23		mg P/L	P359004	
	SM 5310 B-00	Organic Carbon	15		mg C/L	P359402	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.15		mg P/L	P358963	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P358913	
2062502		Aldicarb Sulfone	0.0020	U	ug/L	P358913	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P358913	
		Carbaryl	0.0020	U	ug/L	P358913	
		Carbofuran	0.0020	U	ug/L	P358913	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P358913	
		Methiocarb	0.0020	U	ug/L	P358913	
		Methomyl	0.0020	U	ug/L	P358913	
		Oxamyl	0.0020	U	ug/L	P358913	
		Propoxur	0.0020	U	ug/L	P358913	
		2,4-D	0.0094		ug/L	P358913	
2062555		Acesulfame K**	0.21	I	ug/L	P358978	
		AMPA**	1.6		ug/L	P358978	
		Sucralose**	0.98		ug/L	P358978	
		Acetaminophen**	0.0080	U	ug/L	P358913	
		Endothall**	0.25	U	ug/L	P358978	
		Glufosinate**	0.10	U	ug/L	P358978	
		Glyphosate**	1.9		ug/L	P358978	
		Bentazon	0.060	J	ug/L	P358913	MS
		Carbamazepine**	9.8E-04	I	ug/L	P358913	
		Diuron	0.0042	I	ug/L	P358913	
		Fenuron	0.016	U	ug/L	P358913	
		Imazapyr**	0.16		ug/L	P358913	
		Imidacloprid	0.15	J	ug/L	P358913	MS
		Linuron	0.0040	U	ug/L	P358913	
		MCPP	0.0021	I	ug/L	P358913	
		Primidone**	0.0061	I	ug/L	P358913	
		Pyraclostrobin**	0.0074	I	ug/L	P358913	
		Triclopyr**	0.0040	U	ug/L	P358913	

Field ID: G3SE0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes	
2062555	EPA 8321B	Fluridone**	0.076		ug/L	P358913		
		Hydrocodone**	0.0020	U	ug/L	P358913		
		Naproxen**	0.0080	U	ug/L	P358913		
		Ibuprofen**	0.020	U	ug/L	P358913		
2062566	EPA 8270D	Aldrin	4.4	U	ng/L	P359029		
		Alpha-BHC	2.2	U	ng/L	P359029		
		Alpha-Chlordane	1.1	U	ng/L	P359029		
		Beta-BHC	11	U	ng/L	P359029		
		Delta-BHC	11	U	ng/L	P359029		
		Gamma-BHC	11	UJ	ng/L	P359029	LCS	
		Carbophenothion	13	U	ng/L	P359029		
		Chlorothalonil	2.2	U	ng/L	P359029		
		Cypermethrin	22	U	ng/L	P359029		
		DDD-p,p'	8.8	U	ng/L	P359029		
		DDE-p,p'	8.8	U	ng/L	P359029		
		DDT-p,p'	11	U	ng/L	P359029		
		Dicofol	33	U	ng/L	P359029		
		Dieldrin	4.4	U	ng/L	P359029		
		Endosulfan I	4.4	U	ng/L	P359029		
		Endosulfan II	4.4	U	ng/L	P359029		
		Endosulfan Sulfate	2.2	U	ng/L	P359029		
		Endrin	2.2	UJ	ng/L	P359029	LCS	
		Endrin Aldehyde	2.2	U	ng/L	P359029		
		Endrin Ketone	2.2	U	ng/L	P359029		
		Gamma-Chlordane	1.1	U	ng/L	P359029		
		Heptachlor	1.6	U	ng/L	P359029		
		Heptachlor Epoxide	2.2	U	ng/L	P359029		
		Methoxychlor	4.4	U	ng/L	P359029		
		Mirex	2.2	U	ng/L	P359029		
		Permethrin	11	U	ng/L	P359029		
		Trifluralin	2.7	U	ng/L	P359029		
		EPA 8276	Chlordane	5.5	U	ng/L	P359029	
			Toxaphene	33	U	ng/L	P359029	
2062567	EPA 8270D	Acetochlor	0.25	U	ng/L	P359172		
		Alachlor	0.25	U	ng/L	P359172		
		Ametryn	0.60	U	ng/L	P359172		
		Atrazine	110	J	ng/L	P359172	RPD	
		Atrazine Desethyl	7.6		ng/L	P359172		
		Azinphos Methyl	2.3	U	ng/L	P359172		
		Bromacil	0.50	U	ng/L	P359172		
		Butylate	0.40	U	ng/L	P359172		
		Chlorpyrifos Ethyl	0.25	U	ng/L	P359172		
		Chlorpyrifos Methyl	0.10	U	ng/L	P359172		
		Cyanazine	3.3	U	ng/L	P359172		
		Demeton	7.0	U	ng/L	P359172		

Field ID: G3SE0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062567	EPA 8270D	Diazinon	0.13	U	ng/L	P359172	
		Dimethenamid**	7.1		ng/L	P359172	
		Disulfoton	0.50	U	ng/L	P359172	
		Dithiopyr**	0.41		ng/L	P359172	
		EPTC	1.3	U	ng/L	P359172	
		Ethion	0.15	U	ng/L	P359172	
		Ethoprop	0.10	U	ng/L	P359172	
		Fenamiphos	0.50	U	ng/L	P359172	
		Fipronil	0.27	I	ng/L	P359172	
		Fipronil Desulfinyl**	0.26	IJ	ng/L	P359172	LCS, MS
		Fipronil Sulfide	0.16	I	ng/L	P359172	
		Fipronil Sulfone	0.41	I	ng/L	P359172	
		Fonofos	0.20	U	ng/L	P359172	
		Hexazinone	3.3		ng/L	P359172	
		Malathion	0.35	U	ng/L	P359172	
		Metalaxyl	26		ng/L	P359172	
		Metolachlor	150		ng/L	P359172	
		Metribuzin	0.81	I	ng/L	P359172	
		Mevinphos	0.50	U	ng/L	P359172	
		Molinate	0.30	U	ng/L	P359172	
		Norflurazon	0.50	U	ng/L	P359172	
		Oxadiazon**	24		ng/L	P359172	
		Parathion Ethyl	0.25	U	ng/L	P359172	
		Parathion Methyl	0.55	U	ng/L	P359172	
		Pendimethalin	1.0	U	ng/L	P359172	
		Phorate	0.25	U	ng/L	P359172	
		Prodiamine**	0.18	U	ng/L	P359172	
		Prometon	0.90	U	ng/L	P359172	
		Prometryn	0.20	U	ng/L	P359172	
		Simazine	0.50	U	ng/L	P359172	
		Tebuconazole**	1.5	I	ng/L	P359172	
		Terbufos	0.10	U	ng/L	P359172	
		Terbuthylazine	0.43	U	ng/L	P359172	
2062575	EPA 200.7 Rev. 4.4	Barium	16.2		ug/L	P359073	
		Calcium	74.7		mg/L	P359073	
		Iron	58.5	I	ug/L	P359073	
		Magnesium	7.06		mg/L	P359073	
		Potassium	9.01		mg/L	P359073	
		Sodium	28.7		mg/L	P359073	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P359073	
		Aluminum	77		ug/L	P359073	
		Antimony	0.16	I	ug/L	P359073	
		Arsenic	1.93		ug/L	P359073	
		Boron**	52.7		ug/L	P359073	
		Cadmium	0.020	U	ug/L	P359073	

Field ID: G3SE0032

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062575	EPA 200.8 Rev. 5.4	Chromium	0.76	I	ug/L	P359073	
		Copper	3.32		ug/L	P359073	
		Lead	0.20	U	ug/L	P359073	
		Nickel	0.51	I	ug/L	P359073	
		Selenium	0.30	I	ug/L	P359073	
		Silver	0.010	U	ug/L	P359073	
		Thallium	0.10	U	ug/L	P359073	

Ref. Method and Comment:
EPA 300.0 Rev. 2.1: Sulfate: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
EPA 8321B: Refer to the narrative for an explanation of QC Codes.
EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Sample Location: E-3 @ Clint Moore Boca

Collection Date/Time: 02/13/2019 13:50

Field ID: G3SE0006

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2062497	EPA 180.1 Rev. 2.0	Turbidity	1.5		NTU	P358970	
	EPA 300.0 Rev. 2.1	Chloride	45		mg Cl/L	P359563	
		Sulfate	33		mg SO4/L	P359565	
	SM 2120 B	Color (true)	52		PCU	P358961	
	SM 2320 B-97	Total Alkalinity	139		mg CaCO3/L	P359109	
	SM 2540 C-97	TDS	283		mg/L	P359202	
	SM 2540 D-97	TSS	2	U	mg/L	P359124	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P359111	
2062498	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P359267	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P359021	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.059		mg N/L	P359146	
	EPA 365.1 Rev. 2.0	Total-P	0.099		mg P/L	P359004	
	SM 5310 B-00	Organic Carbon	13		mg C/L	P359402	
2062499	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.064		mg P/L	P358963	

Ref. Method and Comment:

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

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358970

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358971

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359073

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: P359073

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 Rev. 2.1
Batch ID: P359563

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359564

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359565

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359566

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359021

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359022

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359146

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359147

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359004

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358963

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359029

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
Carbophenothion	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	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
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270D
Batch ID: P359172

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	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P359172

Component	Result	Code	Units
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
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 8276
Batch ID: P359029

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

Reference Method: EPA 8321B
Batch ID: P358913

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P358913

Component	Result	Code	Units
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P358978

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P358961

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P359109

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

Reference Method: SM 2540 C-97
Batch ID: P359202

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P359124

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P359111

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 4500 F-C-97
Batch ID: P359111

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P359402

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: P359073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	104		P	85 - 115
Calcium	105		P	85 - 115
Iron	108		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	109		P	85 - 115
Sodium	106		P	85 - 115
Zinc	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.7		P	85 - 115
Antimony	101		P	85 - 115
Arsenic	101		P	85 - 115
Boron	101		P	85 - 115
Cadmium	99.6		P	85 - 115
Chromium	94.9		P	85 - 115
Copper	98.1		P	85 - 115
Lead	94.4		P	85 - 115
Nickel	95.1		P	85 - 115
Selenium	100		P	85 - 115
Silver	102		P	85 - 115
Thallium	102		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359563

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359564

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359565

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359566

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359267

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359021

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359022

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	109		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359147

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	99.0		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359004

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.2		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P359029

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	60.7	51.8	P/P	20 - 93.0
Alpha-BHC	115	97.0	P/P	57 - 119
Alpha-Chlordane	90.5	79.9	P/P	58 - 112
Beta-BHC	124	95.5	P/P	56 - 149
Carbophenothion	65.2	71.5	P/P	26 - 147
Chlorothalonil	124	108	P/P	20 - 155
Cypermethrin	105	96.0	P/P	40 - 137
DDD-p,p'	95.5	84.7	P/P	65 - 129
DDE-p,p'	84.3	74.9	P/P	57 - 116
DDT-p,p'	103	89.0	P/P	53 - 133

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P359029

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	143	112	P/P	59 - 163
Dicofol	77.5	74.1	P/P	24 - 138
Dieldrin	95.8	84.9	P/P	60 - 120
Endosulfan I	107	95.7	P/P	64 - 118
Endosulfan II	111	95.4	P/P	58 - 142
Endosulfan Sulfate	98.6	86.2	P/P	60 - 127
Endrin	127	105	F/P	59 - 122
Endrin Aldehyde	110	96.7	P/P	49 - 132
Endrin Ketone	93.2	80.4	P/P	64 - 121
Gamma-BHC	142	111	F/P	56 - 141
Gamma-Chlordane	87.8	77.9	P/P	56 - 110
Heptachlor	81.6	70.7	P/P	46 - 96.0
Heptachlor Epoxide	99.5	86.2	P/P	61 - 112
Methoxychlor	125	108	P/P	63 - 134
Mirex	62.5	55.1	P/P	45 - 100
Permethrin	83.0	79.5	P/P	53 - 115
Trifluralin	97.6	83.1	P/P	39 - 142

Reference Method: EPA 8270D
Batch ID: P359172

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	87.0	107	P/P	71 - 121
Alachlor	86.5	101	P/P	72 - 119
Ametryn	87.5	111	P/P	47 - 144
Atrazine	79.9	122	P/P	75 - 123
Atrazine Desethyl	72.7	86.8	P/P	45 - 133
Azinphos Methyl	105	126	P/P	66 - 165
Bromacil	69.6	78.6	P/P	43 - 123
Butylate	46.8	57.4	P/P	27 - 83.0
Chlorpyrifos Ethyl	90.0	107	P/P	70 - 117
Chlorpyrifos Methyl	86.4	103	P/P	71 - 120
Cyanazine	97.0	109	P/P	34 - 264
Demeton	77.3	93.0	P/P	41 - 122
Diazinon	84.7	104	P/P	70 - 127
Dimethenamid	86.9	103	P/P	60 - 130
Disulfoton	90.2	109	P/P	56 - 127
Dithiopyr	85.5	102	P/P	60 - 130
EPTC	42.2	52.8	P/P	24 - 84.0
Ethion	81.6	87.3	P/P	53 - 132
Ethoprop	77.9	95.0	P/P	57 - 117
Fenamiphos	72.2	78.6	P/P	55 - 136
Fipronil	65.9	74.6	P/P	64 - 126
Fipronil Desulfinyl	57.6	64.7	F/P	60 - 130
Fipronil Sulfide	65.6	69.5	P/P	57 - 120
Fipronil Sulfone	66.7	70.7	P/P	52 - 115
Fonofos	80.1	99.8	P/P	61 - 121
Hexazinone	87.8	113	P/P	62 - 131
Malathion	90.6	107	P/P	67 - 126
Metalaxyl	83.3	98.8	P/P	54 - 128
Metolachlor	85.1	103	P/P	71 - 118
Metribuzin	161	189	P/P	42 - 221

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P359172

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mevinphos	66.4	80.8	P/P	45 - 114
Molinate	62.3	75.3	P/P	33 - 91.0
Norflurazon	68.3	76.8	P/P	60 - 123
Oxadiazon	80.8	97.4	P/P	60 - 130
Parathion Ethyl	80.0	95.1	P/P	73 - 111
Parathion Methyl	92.9	117	P/P	74 - 126
Pendimethalin	85.5	105	P/P	63 - 131
Phorate	86.7	106	P/P	54 - 115
Prodiamine	83.5	90.1	P/P	60 - 130
Prometon	78.8	94.4	P/P	61 - 120
Prometryn	82.0	91.6	P/P	62 - 126
Simazine	91.0	114	P/P	75 - 126
Tebuconazole	60.1	68.0	P/P	30 - 100
Terbufos	83.7	102	P/P	65 - 116
Terbutylazine	85.3	107	P/P	73 - 117

Reference Method: EPA 8276
Batch ID: P359029

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	51.4	47.2	P/P	43 - 128
Toxaphene	51.2	52.8	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P358913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	84.4		P	40 - 150
3-Hydroxycarbofuran	109		P	40 - 150
Acetaminophen	97.9		P	30 - 150
Aldicarb	88.1		P	30 - 150
Aldicarb Sulfone	104		P	40 - 150
Aldicarb Sulfoxide	111		P	40 - 150
Bentazon	78.6		P	30 - 150
Carbamazepine	82.4		P	40 - 150
Carbaryl	77.5		P	40 - 150
Carbofuran	74.0		P	40 - 150
Diuron	73.1		P	40 - 150
Fenuron	110		P	40 - 150
Fluridone	101		P	40 - 150
Hydrocodone	91.1		P	40 - 150
Ibuprofen	75.9		P	40 - 150
Imazapyr	87.4		P	40 - 150
Imidacloprid	95.6		P	40 - 150
Linuron	77.7		P	40 - 150
MCPP	104		P	40 - 150
Methiocarb	80.3		P	40 - 150
Methomyl	112		P	40 - 150
Naproxen	74.5		P	40 - 150
Oxamyl	114		P	40 - 150
Primidone	103		P	40 - 150
Propoxur	84.6		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P358913

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	82.8		P	40 - 150
Triclopyr	63.4		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358978

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	77.5		P	40 - 150
AMPA	101		P	40 - 150
Endothall	93.7		P	40 - 150
Glufosinate	87.4		P	40 - 150
Glyphosate	91.1		P	40 - 140
Sucralose	125		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P358961

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

Reference Method: SM 2320 B-97
Batch ID: P359109

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P359111

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.8		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359402

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: P359073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062446	Barium	102	103	P/P	80 - 120
2062446	Calcium	94.2		P	80 - 120
2062446	Iron	107	107	P/P	80 - 120
2062446	Magnesium	98.4		P	80 - 120
2062446	Potassium	107	107	P/P	80 - 120
2062446	Sodium	98.0		P	80 - 120
2062446	Zinc	102	102	P/P	80 - 120
2062578	Barium	101		P	80 - 120
2062578	Calcium	101		P	80 - 120
2062578	Iron	109		P	80 - 120
2062578	Magnesium	105		P	80 - 120
2062578	Potassium	105		P	80 - 120
2062578	Sodium	103		P	80 - 120
2062578	Zinc	107		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062446	Aluminum	98.7	97.6	P/P	80 - 120
2062446	Antimony	104	101	P/P	80 - 120
2062446	Arsenic	100	98.0	P/P	80 - 120
2062446	Boron	96.4	95.7	P/P	80 - 120
2062446	Cadmium	105	101	P/P	80 - 120
2062446	Chromium	96.7	94.4	P/P	80 - 120
2062446	Copper	96.7	95.7	P/P	80 - 120
2062446	Lead	95.7	93.6	P/P	80 - 120
2062446	Nickel	93.8	91.0	P/P	80 - 120
2062446	Selenium	98.3	95.3	P/P	80 - 120
2062446	Silver	102	101	P/P	80 - 120
2062446	Thallium	105	103	P/P	80 - 120
2062578	Aluminum	97.5		P	80 - 120
2062578	Antimony	104		P	80 - 120
2062578	Arsenic	103		P	80 - 120
2062578	Boron	90.0		P	80 - 120
2062578	Cadmium	102		P	80 - 120
2062578	Chromium	94.3		P	80 - 120
2062578	Copper	95.5		P	80 - 120
2062578	Lead	96.4		P	80 - 120
2062578	Nickel	96.8		P	80 - 120
2062578	Selenium	99.6		P	80 - 120
2062578	Silver	101		P	80 - 120
2062578	Thallium	106		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359563

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062455	Chloride	99.8		P	90 - 110
2062497	Chloride	97.8		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359564

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062599	Chloride	99.0		P	90 - 110
2062701	Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359565

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062455	Sulfate	98.5		P	90 - 110
2062497	Sulfate	96.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359566

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062599	Sulfate	98.6		P	90 - 110
2062701	Sulfate	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359267

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062498	Ammonia-N	99.3	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359021

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062498	Kjeldahl Nitrogen	91.1	91.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359022

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062507	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062364	NO2NO3-N	96.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359147

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062501	NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062507	Total-P	106	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062606	O-Phosphate-P	95.1	96.9	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P359029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062707	Aldrin	58.3	58.3	P/P	25 - 92.0
2062707	Alpha-BHC	103	108	P/P	49 - 130
2062707	Alpha-Chlordane	79.3	79.4	P/P	50 - 115
2062707	Beta-BHC	84.1	86.4	P/P	43 - 157
2062707	Carbophenothion	123	129	P/P	27 - 180
2062707	Chlorothalonil	161	166	P/P	10 - 216
2062707	Cypermethrin	93.1	95.0	P/P	40 - 153
2062707	DDD-p,p'	75.9	75.4	P/P	53 - 128
2062707	DDE-p,p'	68.6	68.8	P/P	48 - 116
2062707	DDT-p,p'	83.3	86.3	P/P	47 - 128
2062707	Delta-BHC	115	122	P/P	51 - 196
2062707	Dicofol	73.0	65.4	P/P	10 - 147
2062707	Dieldrin	79.1	79.5	P/P	48 - 128
2062707	Endosulfan I	83.4	86.4	P/P	58 - 126
2062707	Endosulfan II	88.6	102	P/P	50 - 150
2062707	Endosulfan Sulfate	78.4	69.6	P/P	56 - 130
2062707	Endrin	114	99.6	P/P	50 - 126
2062707	Endrin Aldehyde	82.1	74.8	P/P	12 - 145
2062707	Endrin Ketone	72.5	74.2	P/P	59 - 132
2062707	Gamma-BHC	98.1	102	P/P	50 - 155
2062707	Gamma-Chlordane	75.9	75.9	P/P	50 - 112
2062707	Heptachlor	73.6	72.3	P/P	41 - 98.0
2062707	Heptachlor Epoxide	80.0	81.2	P/P	55 - 117
2062707	Methoxychlor	97.2	101	P/P	55 - 133
2062707	Mirex	57.2	59.6	P/P	44 - 101
2062707	Permethrin	78.3	74.8	P/P	52 - 124
2062707	Trifluralin	81.6	80.3	P/P	10 - 201

Reference Method: EPA 8270D
Batch ID: P359172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062408	Acetochlor	90.1	101	P/P	63 - 129
2062408	Alachlor	85.9	98.6	P/P	65 - 127
2062408	Ametryn	86.6	99.5	P/P	40 - 164
2062408	Atrazine	106	117	P/P	66 - 135
2062408	Atrazine Desethyl	57.7	69.0	P/P	14 - 157
2062408	Azinphos Methyl	99.7	118	P/P	49 - 180
2062408	Bromacil	65.6	66.7	P/P	48 - 130
2062408	Butylate	36.4	42.6	P/P	10 - 94.0
2062408	Chlorpyrifos Ethyl	92.5	103	P/P	58 - 123
2062408	Chlorpyrifos Methyl	87.4	100	P/P	58 - 125
2062408	Cyanazine	83.7	90.3	P/P	24 - 253
2062408	Demeton	75.2	87.9	P/P	25 - 149
2062408	Diazinon	84.8	104	P/P	59 - 144
2062408	Dimethenamid	87.9	99.0	P/P	60 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P359172

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062408	Disulfoton	96.6	101	P/P	54 - 132
2062408	Dithiopyr	86.7	98.0	P/P	60 - 130
2062408	EPTC	33.5	38.5	P/P	10 - 92.0
2062408	Ethion	86.6	79.9	P/P	30 - 148
2062408	Ethoprop	77.3	88.7	P/P	50 - 130
2062408	Fenamiphos	66.1	76.0	P/P	49 - 142
2062408	Fipronil	58.4	65.2	P/P	46 - 140
2062408	Fipronil Desulfinyl	47.1	54.4	F/F	60 - 130
2062408	Fipronil Sulfide	54.9	61.6	P/P	31 - 136
2062408	Fipronil Sulfone	50.4	57.7	P/P	16 - 136
2062408	Fonofos	81.1	91.0	P/P	55 - 129
2062408	Hexazinone	92.6	99.9	P/P	56 - 141
2062408	Malathion	95.1	104	P/P	56 - 135
2062408	Metalaxyl	82.8	93.1	P/P	54 - 135
2062408	Metolachlor	86.7	100	P/P	51 - 140
2062408	Metribuzin	157	192	P/P	45 - 254
2062408	Mevinphos	65.5	76.8	P/P	33 - 131
2062408	Molinate	58.5	67.2	P/P	14 - 98.0
2062408	Norflurazon	55.5	63.6	P/P	34 - 136
2062408	Oxadiazon	85.3	93.6	P/P	60 - 130
2062408	Parathion Ethyl	86.9	94.9	P/P	66 - 118
2062408	Parathion Methyl	98.4	110	P/P	64 - 136
2062408	Pendimethalin	90.3	99.6	P/P	59 - 144
2062408	Phorate	86.9	94.8	P/P	42 - 130
2062408	Prodiamine	82.9	103	P/P	60 - 130
2062408	Prometon	83.3	85.1	P/P	59 - 134
2062408	Prometryn	78.8	86.7	P/P	54 - 135
2062408	Simazine	102	110	P/P	53 - 156
2062408	Tebuconazole	63.0	64.1	P/P	30 - 100
2062408	Terbufos	87.3	98.7	P/P	57 - 131
2062408	Terbutylazine	86.8	100	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P359029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2063001	Chlordane	57.4	56.4	P/P	34 - 136
2063001	Toxaphene	63.8	73.2	P/P	22 - 152

Reference Method: EPA 8321B
Batch ID: P358913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062554	3-Hydroxycarbofuran	87.5	96.7	P/P	40 - 150
2062554	Aldicarb	60.5	51.0	P/P	30 - 150
2062554	Aldicarb Sulfone	107	93.2	P/P	40 - 150
2062554	Aldicarb Sulfoxide	46.6	43.7	P/P	40 - 150
2062554	Carbaryl	62.1	55.1	P/P	40 - 150
2062554	Carbofuran	52.7	47.9	P/P	40 - 150
2062554	Methiocarb	64.1	60.0	P/P	40 - 150
2062554	Methomyl	115	124	P/P	40 - 150
2062554	Oxamyl	83.2	92.2	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P358913

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062554	Propoxur	56.4	58.9	P/P	40 - 150
2062555	2,4-D	88.1	92.1	P/P	40 - 150
2062555	Acetaminophen	109	115	P/P	30 - 150
2062555	Bentazon	26.4	29.0	F/F	30 - 150
2062555	Carbamazepine	62.6	64.3	P/P	40 - 150
2062555	Diuron	55.4	53.7	P/P	40 - 150
2062555	Fenuron	78.2	82.7	P/P	40 - 150
2062555	Fluridone	52.8	64.2	P/P	40 - 150
2062555	Hydrocodone	82.0	74.8	P/P	40 - 150
2062555	Ibuprofen	83.1	71.9	P/P	40 - 150
2062555	Imazapyr	68.2	78.4	P/P	40 - 150
2062555	Imidacloprid	151	162	F/F	40 - 150
2062555	Linuron	59.4	61.2	P/P	40 - 150
2062555	MCPP	118	122	P/P	40 - 150
2062555	Naproxen	77.1	75.5	P/P	40 - 150
2062555	Primidone	97.6	103	P/P	40 - 150
2062555	Pyraclostrobin	70.0	76.8	P/P	40 - 150
2062555	Triclopyr	65.9	75.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P358978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062398	Acesulfame K	91.0	101	P/P	40 - 150
2062398	AMPA	84.9	81.2	P/P	40 - 150
2062398	Endothall	91.8	101	P/P	40 - 150
2062398	Glufosinate	68.7	67.2	P/P	40 - 150
2062398	Glyphosate	71.1	72.7	P/P	40 - 140
2062398	Sucralose	105	103	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P359111

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062601	Fluoride	100	99.2	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P359402

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2062486	Organic Carbon	95.2	94.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062458	Turbidity	5.89	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P358971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062546	Turbidity	8.08	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P359073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062446	Barium	0.428	Spike	P	0 - 20
2062446	Calcium	0.199	Spike	P	0 - 20
2062446	Iron	0.193	Spike	P	0 - 20
2062446	Magnesium	0.154	Spike	P	0 - 20
2062446	Potassium	0.228	Spike	P	0 - 20
2062446	Sodium	1.26	Spike	P	0 - 20
2062446	Zinc	0.698	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P359073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062446	Aluminum	1.17	Spike	P	0 - 20
2062446	Antimony	2.01	Spike	P	0 - 20
2062446	Arsenic	2.28	Spike	P	0 - 20
2062446	Boron	0.678	Spike	P	0 - 20
2062446	Cadmium	3.47	Spike	P	0 - 20
2062446	Chromium	2.35	Spike	P	0 - 20
2062446	Copper	1.02	Spike	P	0 - 20
2062446	Lead	2.21	Spike	P	0 - 20
2062446	Nickel	3.04	Spike	P	0 - 20
2062446	Selenium	3.05	Spike	P	0 - 20
2062446	Silver	0.406	Spike	P	0 - 20
2062446	Thallium	2.00	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359563

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062455	Chloride	0.105	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359564

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062599	Chloride	0.402	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P359566

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062599	Sulfate	0.514	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P359267

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062498	Ammonia-N	0.499	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359021

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062498	Kjeldahl Nitrogen	0.459	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P359022

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062507	Kjeldahl Nitrogen	0.491	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062364	NO2NO3-N	0.213	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P359147

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062501	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P359004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062507	Total-P	3.22	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P358963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062606	O-Phosphate-P	1.88	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P359029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062707	Aldrin	0.00401	Spike	P	0 - 30
2062707	Alpha-BHC	5.16	Spike	P	0 - 30
2062707	Alpha-Chlordane	0.106	Spike	P	0 - 30
2062707	Beta-BHC	2.72	Spike	P	0 - 30
2062707	Carbophenothion	4.53	Spike	P	0 - 30
2062707	Chlorothalonil	2.93	Spike	P	0 - 30
2062707	Cypermethrin	2.08	Spike	P	0 - 30
2062707	DDD-p,p'	0.649	Spike	P	0 - 30
2062707	DDE-p,p'	0.239	Spike	P	0 - 30
2062707	DDT-p,p'	3.51	Spike	P	0 - 30
2062707	Delta-BHC	5.41	Spike	P	0 - 30
2062707	Dicofol	10.9	Spike	P	0 - 30
2062707	Dieldrin	0.469	Spike	P	0 - 30
2062707	Endosulfan I	3.62	Spike	P	0 - 30
2062707	Endosulfan II	13.9	Spike	P	0 - 30
2062707	Endosulfan Sulfate	12.0	Spike	P	0 - 30
2062707	Endrin	13.7	Spike	P	0 - 30
2062707	Endrin Aldehyde	9.34	Spike	P	0 - 30
2062707	Endrin Ketone	2.28	Spike	P	0 - 30
2062707	Gamma-BHC	4.15	Spike	P	0 - 30
2062707	Gamma-Chlordane	0.00571	Spike	P	0 - 30
2062707	Heptachlor	1.73	Spike	P	0 - 30
2062707	Heptachlor Epoxide	1.57	Spike	P	0 - 30
2062707	Methoxychlor	4.16	Spike	P	0 - 30
2062707	Mirex	4.19	Spike	P	0 - 30
2062707	Permethrin	4.60	Spike	P	0 - 30
2062707	Trifluralin	1.51	Spike	P	0 - 30
LFB	Aldrin	15.8	LCS	P	0 - 30
LFB	Alpha-BHC	16.9	LCS	P	0 - 30
LFB	Alpha-Chlordane	12.5	LCS	P	0 - 30
LFB	Beta-BHC	25.7	LCS	P	0 - 30
LFB	Carbophenothion	9.30	LCS	P	0 - 30
LFB	Chlorothalonil	13.7	LCS	P	0 - 30
LFB	Cypermethrin	8.65	LCS	P	0 - 30
LFB	DDD-p,p'	12.0	LCS	P	0 - 30
LFB	DDE-p,p'	11.8	LCS	P	0 - 30
LFB	DDT-p,p'	15.1	LCS	P	0 - 30
LFB	Delta-BHC	24.7	LCS	P	0 - 30
LFB	Dicofol	4.44	LCS	P	0 - 30
LFB	Dieldrin	12.1	LCS	P	0 - 30
LFB	Endosulfan I	11.1	LCS	P	0 - 30
LFB	Endosulfan II	15.4	LCS	P	0 - 30
LFB	Endosulfan Sulfate	13.4	LCS	P	0 - 30
LFB	Endrin	18.2	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	13.1	LCS	P	0 - 30
LFB	Endrin Ketone	14.7	LCS	P	0 - 30
LFB	Gamma-BHC	24.3	LCS	P	0 - 30
LFB	Gamma-Chlordane	12.0	LCS	P	0 - 30
LFB	Heptachlor	14.3	LCS	P	0 - 30
LFB	Heptachlor Epoxide	14.4	LCS	P	0 - 30
LFB	Methoxychlor	14.6	LCS	P	0 - 30
LFB	Mirex	12.6	LCS	P	0 - 30
LFB	Permethrin	4.27	LCS	P	0 - 30
LFB	Trifluralin	16.1	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P359172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062408	Acetochlor	11.6	Spike	P	0 - 30
2062408	Alachlor	13.8	Spike	P	0 - 30
2062408	Ametryn	13.8	Spike	P	0 - 30
2062408	Atrazine	8.78	Spike	P	0 - 30
2062408	Atrazine Desethyl	17.9	Spike	P	0 - 30
2062408	Azinphos Methyl	16.7	Spike	P	0 - 30
2062408	Bromacil	0.723	Spike	P	0 - 30
2062408	Butylate	15.7	Spike	P	0 - 30
2062408	Chlorpyrifos Ethyl	11.1	Spike	P	0 - 30
2062408	Chlorpyrifos Methyl	13.8	Spike	P	0 - 30
2062408	Cyanazine	7.56	Spike	P	0 - 30
2062408	Demeton	15.5	Spike	P	0 - 30
2062408	Diazinon	20.3	Spike	P	0 - 30
2062408	Dimethenamid	11.9	Spike	P	0 - 30
2062408	Disulfoton	3.91	Spike	P	0 - 30
2062408	Dithiopyr	12.3	Spike	P	0 - 30
2062408	EPTC	13.9	Spike	P	0 - 30
2062408	Ethion	8.05	Spike	P	0 - 30
2062408	Ethoprop	13.7	Spike	P	0 - 30
2062408	Fenamiphos	14.0	Spike	P	0 - 30
2062408	Fipronil	11.0	Spike	P	0 - 30
2062408	Fipronil Desulfinyl	14.4	Spike	P	0 - 30
2062408	Fipronil Sulfide	11.4	Spike	P	0 - 30
2062408	Fipronil Sulfone	13.4	Spike	P	0 - 30
2062408	Fonofos	11.4	Spike	P	0 - 30
2062408	Hexazinone	7.63	Spike	P	0 - 30
2062408	Malathion	9.24	Spike	P	0 - 30
2062408	Metalaxyl	11.8	Spike	P	0 - 30
2062408	Metolachlor	13.7	Spike	P	0 - 30
2062408	Metribuzin	19.7	Spike	P	0 - 30
2062408	Mevinphos	15.9	Spike	P	0 - 30
2062408	Molinate	13.9	Spike	P	0 - 30
2062408	Norflurazon	13.6	Spike	P	0 - 30
2062408	Oxadiazon	9.34	Spike	P	0 - 30
2062408	Parathion Ethyl	8.87	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062408	Parathion Methyl	11.5	Spike	P	0 - 30
2062408	Pendimethalin	9.82	Spike	P	0 - 30
2062408	Phorate	8.64	Spike	P	0 - 30
2062408	Prodiamine	21.5	Spike	P	0 - 30
2062408	Prometon	2.07	Spike	P	0 - 30
2062408	Prometryn	9.55	Spike	P	0 - 30
2062408	Simazine	4.97	Spike	P	0 - 30
2062408	Tebuconazole	1.63	Spike	P	0 - 30
2062408	Terbufos	12.2	Spike	P	0 - 30
2062408	Terbuthylazine	14.1	Spike	P	0 - 30
LFB	Acetochlor	20.8	LCS	P	0 - 30
LFB	Alachlor	15.7	LCS	P	0 - 30
LFB	Ametryn	24.0	LCS	P	0 - 30
LFB	Atrazine	41.7	LCS	F	0 - 30
LFB	Atrazine Desethyl	17.6	LCS	P	0 - 30
LFB	Azinphos Methyl	18.0	LCS	P	0 - 30
LFB	Bromacil	12.1	LCS	P	0 - 30
LFB	Butylate	20.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	17.4	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	17.3	LCS	P	0 - 30
LFB	Cyanazine	11.3	LCS	P	0 - 30
LFB	Demeton	18.4	LCS	P	0 - 30
LFB	Diazinon	20.0	LCS	P	0 - 30
LFB	Dimethenamid	17.2	LCS	P	0 - 30
LFB	Disulfoton	19.1	LCS	P	0 - 30
LFB	Dithiopyr	17.7	LCS	P	0 - 30
LFB	EPTC	22.2	LCS	P	0 - 30
LFB	Ethion	6.70	LCS	P	0 - 30
LFB	Ethoprop	19.7	LCS	P	0 - 30
LFB	Fenamiphos	8.47	LCS	P	0 - 30
LFB	Fipronil	12.3	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.6	LCS	P	0 - 30
LFB	Fipronil Sulfide	5.69	LCS	P	0 - 30
LFB	Fipronil Sulfone	5.81	LCS	P	0 - 30
LFB	Fonofos	21.9	LCS	P	0 - 30
LFB	Hexazinone	24.8	LCS	P	0 - 30
LFB	Malathion	16.9	LCS	P	0 - 30
LFB	Metaxyl	17.0	LCS	P	0 - 30
LFB	Metolachlor	18.7	LCS	P	0 - 30
LFB	Metribuzin	16.0	LCS	P	0 - 30
LFB	Mevinphos	19.5	LCS	P	0 - 30
LFB	Molinate	18.8	LCS	P	0 - 30
LFB	Norflurazon	11.7	LCS	P	0 - 30
LFB	Oxadiazon	18.6	LCS	P	0 - 30
LFB	Parathion Ethyl	17.3	LCS	P	0 - 30
LFB	Parathion Methyl	23.1	LCS	P	0 - 30
LFB	Pendimethalin	20.6	LCS	P	0 - 30
LFB	Phorate	19.9	LCS	P	0 - 30
LFB	Prodiamine	7.69	LCS	P	0 - 30
LFB	Prometon	18.0	LCS	P	0 - 30
LFB	Prometryn	11.0	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P359172

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Simazine	22.5	LCS	P	0 - 30
LFB	Tebuconazole	12.3	LCS	P	0 - 30
LFB	Terbufos	19.8	LCS	P	0 - 30
LFB	Terbutylazine	22.6	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P359029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2063001	Chlordane	1.55	Spike	P	0 - 30
2063001	Toxaphene	13.6	Spike	P	0 - 30
LFB	Chlordane	8.66	LCS	P	0 - 30
LFB	Toxaphene	3.12	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P358913

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062554	3-Hydroxycarbofuran	9.98	Spike	P	0 - 30
2062554	Aldicarb	16.9	Spike	P	0 - 30
2062554	Aldicarb Sulfone	13.5	Spike	P	0 - 30
2062554	Aldicarb Sulfoxide	6.51	Spike	P	0 - 30
2062554	Carbaryl	11.9	Spike	P	0 - 30
2062554	Carbofuran	9.45	Spike	P	0 - 30
2062554	Methiocarb	6.57	Spike	P	0 - 30
2062554	Methomyl	7.69	Spike	P	0 - 30
2062554	Oxamyl	10.3	Spike	P	0 - 30
2062554	Propoxur	4.23	Spike	P	0 - 30
2062555	2,4-D	3.93	Spike	P	0 - 30
2062555	Acetaminophen	5.61	Spike	P	0 - 30
2062555	Bentazon	0.786	Spike	P	0 - 30
2062555	Carbamazepine	2.60	Spike	P	0 - 30
2062555	Diuron	2.94	Spike	P	0 - 30
2062555	Fenuron	5.51	Spike	P	0 - 30
2062555	Fluridone	2.59	Spike	P	0 - 30
2062555	Hydrocodone	9.19	Spike	P	0 - 30
2062555	Ibuprofen	14.4	Spike	P	0 - 30
2062555	Imazapyr	3.74	Spike	P	0 - 30
2062555	Imidacloprid	3.30	Spike	P	0 - 30
2062555	Linuron	2.84	Spike	P	0 - 30
2062555	MCP	3.52	Spike	P	0 - 30
2062555	Naproxen	2.12	Spike	P	0 - 30
2062555	Primidone	5.09	Spike	P	0 - 30
2062555	Pyraclostrobin	8.33	Spike	P	0 - 30
2062555	Triclopyr	12.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P358978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062398	Acesulfame K	10.2	Spike	P	0 - 30
2062398	AMPA	4.45	Spike	P	0 - 30
2062398	Endothall	9.83	Spike	P	0 - 30
2062398	Glufosinate	2.24	Spike	P	0 - 30
2062398	Glyphosate	2.22	Spike	P	0 - 30
2062398	Sucralose	2.24	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P358961

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062503	Color (true)	1.37	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P359109

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062601	Total Alkalinity	0.559	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
Batch ID: P359202

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062509	TDS	0.942	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P359111

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062601	Fluoride	0.933	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
Batch ID: P359402

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2062486	Organic Carbon	0.858	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2062554
Field Sample ID: G3SE0032

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	52.9	P	30 - 160

Lab Sample ID: 2062555
Field Sample ID: G3SE0032

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	93.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	113	P	30 - 160
EPA 8321B	Carbamazepine-d10	70.4	P	30 - 160
EPA 8321B	Diuron-d6	69.1	P	30 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Endothall-d6	111	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	48.8	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	48.8	P	40 - 160
EPA 8321B	Ibuprofen-d3	96.9	P	30 - 160
EPA 8321B	Primidone-d5	108	P	30 - 160
EPA 8321B	Sucralose-d6	112	P	40 - 160
EPA 8321B	Sucralose-d6	112	P	40 - 160

Lab Sample ID: 2062556
Field Sample ID: G3SE0033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	44.9	P	30 - 160

Lab Sample ID: 2062557
Field Sample ID: G3SE0033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	77.0	P	30 - 160
EPA 8321B	Acetaminophen-d4	102	P	30 - 160
EPA 8321B	Carbamazepine-d10	64.3	P	30 - 160
EPA 8321B	Diuron-d6	67.8	P	30 - 160
EPA 8321B	Endothall-d6	115	P	40 - 160
EPA 8321B	Endothall-d6	115	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	52.1	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	52.1	P	40 - 160
EPA 8321B	Ibuprofen-d3	66.6	P	30 - 160
EPA 8321B	Primidone-d5	102	P	30 - 160
EPA 8321B	Sucralose-d6	115	P	40 - 160
EPA 8321B	Sucralose-d6	115	P	40 - 160

Lab Sample ID: 2062566
Field Sample ID: G3SE0032

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	70.1	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	60.9	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.7	P	30 - 103
EPA 8276	PCNB	91.5	P	37 - 143

Quality Assurance Report Surrogates

Lab Sample ID: 2062567
Field Sample ID: G3SE0032

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	94.2	P	68 - 130
EPA 8270D	Terbufos-d10	91.2	P	61 - 136

Lab Sample ID: 2062568
Field Sample ID: G3SE0033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	77.7	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	64.5	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	48.1	P	30 - 103
EPA 8276	PCNB	102	P	37 - 143

Lab Sample ID: 2062569
Field Sample ID: G3SE0033

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	90.1	P	68 - 130
EPA 8270D	Terbufos-d10	92.7	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A89426

Included Lab Sample IDs: 2062499, 2062502, 2062505, 2062508, 2062511

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	97.0	P/P	90 - 110
O-Phosphate-P	99.0	99.0	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A89427

Included Lab Sample IDs: 2062497, 2062500, 2062503, 2062506, 2062509

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A89430

Included Lab Sample IDs: 2062497, 2062500, 2062503, 2062506, 2062509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	100	101	P/P	95 - 105

Reference Method: EPA 8321B

Run ID: A89461

Included Lab Sample IDs: 2062555, 2062557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	104	105	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A89464

Included Lab Sample IDs: 2062555, 2062557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	75.6	75.5	P/P	60 - 160
Endothall	104	101	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89481

Included Lab Sample IDs: 2062507, 2062510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	96.5	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89483

Included Lab Sample IDs: 2062498, 2062501, 2062504, 2062510

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A89484

Included Lab Sample IDs: 2062507

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A89486

Included Lab Sample IDs: 2062498, 2062501, 2062504

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.6	99.8	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A89489

Included Lab Sample IDs: 2062497, 2062500, 2062503, 2062506, 2062509

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

Reference Method: SM 4500 F-C-97

Run ID: A89489

Included Lab Sample IDs: 2062497, 2062500, 2062503, 2062506, 2062509

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A89498

Included Lab Sample IDs: 2062498, 2062501, 2062504, 2062507, 2062510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	99.0	P/P	90 - 110
NO2NO3-N	99.0	99.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89502

Included Lab Sample IDs: 2062555, 2062557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	87.0	P/P	50 - 150
2,4-D	67.4	94.4	P/P	50 - 150
3-Hydroxycarbofuran	109	109	P/P	60 - 150
Acetaminophen	105	111	P/P	60 - 160
Acetaminophen	107	113	P/P	60 - 160
Aldicarb	116	134	P/P	60 - 150
Aldicarb Sulfone	101	113	P/P	50 - 150
Aldicarb Sulfoxide	107	88.6	P/P	50 - 150
Bentazon	81.6	88.0	P/P	50 - 160
Bentazon	88.0	84.9	P/P	50 - 160
Carbamazepine	98.9	97.2	P/P	60 - 150
Carbamazepine	99.5	101	P/P	60 - 150
Carbaryl	102	109	P/P	60 - 150
Carbofuran	96.0	96.0	P/P	50 - 150
Diuron	103	102	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A89502

Included Lab Sample IDs: 2062555, 2062557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Diuron	78.0	96.9	P/P	60 - 150
Fenuron	101	103	P/P	60 - 150
Fenuron	107	100	P/P	60 - 150
Fluridone	104	105	P/P	60 - 160
Fluridone	108	103	P/P	60 - 160
Hydrocodone	96.2	99.2	P/P	60 - 150
Hydrocodone	99.1	99.6	P/P	60 - 150
Ibuprofen	76.3	90.8	P/P	50 - 160
Ibuprofen	88.7	62.0	P/P	50 - 160
Imazapyr	92.0	83.7	P/P	50 - 150
Imazapyr	97.6	84.8	P/P	50 - 150
Imidacloprid	86.1	101	P/P	60 - 150
Imidacloprid	95.3	85.8	P/P	60 - 150
Linuron	101	99.2	P/P	60 - 150
Linuron	98.6	106	P/P	60 - 150
MCPP	85.1	84.5	P/P	50 - 150
MCPP	89.7	88.5	P/P	50 - 150
Methiocarb	126	121	P/P	50 - 150
Methomyl	133	120	P/P	50 - 150
Naproxen	114	77.8	P/P	50 - 160
Naproxen	90.0	66.7	P/P	50 - 160
Oxamyl	120	110	P/P	50 - 150
Primidone	108	105	P/P	60 - 150
Primidone	116	92.9	P/P	60 - 150
Propoxur	105	99.0	P/P	50 - 150
Pyraclostrobin	116	116	P/P	60 - 150
Pyraclostrobin	117	115	P/P	60 - 150
Triclopyr	80.1	80.3	P/P	50 - 150
Triclopyr	82.0	76.0	P/P	50 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A89521

Included Lab Sample IDs: 2062575, 2062576, 2062577, 2062578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	100	100	P/P	90 - 110
Calcium	101	101	P/P	90 - 110
Iron	101	101	P/P	90 - 110
Magnesium	101	102	P/P	90 - 110
Potassium	99.6	101	P/P	90 - 110
Sodium	103	102	P/P	90 - 110
Zinc	101	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A89542

Included Lab Sample IDs: 2062498, 2062501, 2062504, 2062507, 2062510

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89543

Included Lab Sample IDs: 2062567, 2062569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	97.9		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	98.6		P	80 - 120
Atrazine Desethyl	97.2		P	80 - 120
Azinphos Methyl	98.5		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	95.5		P	80 - 120
Chlorpyrifos Ethyl	96.8		P	80 - 120
Chlorpyrifos Methyl	97.1		P	80 - 120
Cyanazine	90.4		P	80 - 120
Demeton	98.7		P	80 - 120
Diazinon	98.5		P	80 - 120
Dimethenamid	100		P	80 - 120
Disulfoton	98.2		P	80 - 120
Dithiopyr	99.8		P	80 - 120
EPTC	97.5		P	80 - 120
Ethion	99.8		P	80 - 120
Ethoprop	98.2		P	80 - 120
Fenamiphos	100		P	80 - 120
Fipronil	98.2		P	80 - 120
Fipronil Desulfinyl	103		P	80 - 120
Fipronil Sulfide	96.8		P	80 - 120
Fipronil Sulfone	99.5		P	80 - 120
Fonofos	97.5		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	95.6		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	99.6		P	80 - 120
Metribuzin	90.4		P	80 - 120
Mevinphos	99.1		P	80 - 120
Molinate	96.6		P	80 - 120
Norflurazon	98.1		P	80 - 120
Oxadiazon	100		P	80 - 120
Parathion Ethyl	94.5		P	80 - 120
Parathion Methyl	98.2		P	80 - 120
Pendimethalin	100		P	80 - 120
Phorate	97.0		P	80 - 120
Prodiamine	97.6		P	80 - 120
Prometon	101		P	80 - 120
Prometryn	98.7		P	80 - 120
Simazine	101		P	80 - 120
Tebuconazole	97.9		P	80 - 120
Terbufos	96.6		P	80 - 120
Terbutylazine	98.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89551

Included Lab Sample IDs: 2062575, 2062576, 2062577, 2062578

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89551

Included Lab Sample IDs: 2062575, 2062576, 2062577, 2062578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	100	101	P/P	90 - 110
Arsenic	97.1	97.2	P/P	90 - 110
Arsenic	98.7	97.1	P/P	90 - 110
Boron	90.9	93.6	P/P	90 - 110
Boron	93.6	97.2	P/P	90 - 110
Cadmium	98.7	100	P/P	90 - 110
Cadmium	99.1	98.7	P/P	90 - 110
Chromium	95.8	96.5	P/P	90 - 110
Chromium	96.5	97.9	P/P	90 - 110
Lead	95.3	96.1	P/P	90 - 110
Lead	95.3	95.3	P/P	90 - 110
Nickel	95.6	96.4	P/P	90 - 110
Nickel	96.1	95.6	P/P	90 - 110
Selenium	98.7	99.7	P/P	90 - 110
Selenium	99.9	98.7	P/P	90 - 110
Thallium	95.1	96.4	P/P	90 - 110
Thallium	95.3	95.1	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A89576

Included Lab Sample IDs: 2062555, 2062557

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	108	111	P/P	60 - 160
Glufosinate	107	118	P/P	60 - 160
Glyphosate	108	115	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A89581

Included Lab Sample IDs: 2062566, 2062568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	91.4		P	80 - 120
Toxaphene	102		P	80 - 120

Reference Method: SM 5310 B-00

Run ID: A89596

Included Lab Sample IDs: 2062498, 2062501, 2062504, 2062507, 2062510

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.6	93.4	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A89619

Included Lab Sample IDs: 2062567, 2062569

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	84.9		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A89652

Included Lab Sample IDs: 2062566, 2062568

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.3		P	80 - 120
Alpha-BHC	93.9		P	80 - 120
Alpha-Chlordane	95.0		P	80 - 120
Beta-BHC	94.6		P	80 - 120
Carbophenothion	91.6		P	80 - 120
Chlorothalonil	87.6		P	80 - 120
Cypermethrin	96.2		P	80 - 120
DDD-p,p'	98.3		P	80 - 120
DDE-p,p'	95.9		P	80 - 120
DDT-p,p'	98.2		P	80 - 120
Delta-BHC	93.8		P	80 - 120
Dicofol	97.7		P	80 - 120
Dieldrin	95.0		P	80 - 120
Endosulfan I	94.9		P	80 - 120
Endosulfan II	86.7		P	80 - 120
Endosulfan Sulfate	97.9		P	80 - 120
Endrin	94.6		P	80 - 120
Endrin Aldehyde	93.5		P	80 - 120
Endrin Ketone	96.0		P	80 - 120
Gamma-BHC	99.8		P	80 - 120
Gamma-Chlordane	94.8		P	80 - 120
Heptachlor	92.2		P	80 - 120
Heptachlor Epoxide	94.9		P	80 - 120
Methoxychlor	100		P	80 - 120
Mirex	96.9		P	80 - 120
Permethrin	89.1		P	80 - 120
Trifluralin	92.7		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89668

Included Lab Sample IDs: 2062575, 2062576, 2062577, 2062578

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.5	99.2	P/P	90 - 110
Copper	100	99.8	P/P	90 - 110
Silver	102	102	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A89674

Included Lab Sample IDs: 2062497, 2062500, 2062503, 2062506, 2062509

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	102	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Chloride	103	103	P/P	90 - 110
Sulfate	101	102	P/P	90 - 110
Sulfate	103	103	P/P	90 - 110
Sulfate	103	104	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A89757

Included Lab Sample IDs: 2062576, 2062577

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	102	103	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	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							5.89	
	Turbidity							8.08	
EPA 200.7 Rev. 4.4	Barium	104		102	103	101			0.428
	Calcium	105		94.2	101				0.199
	Iron	108		107	107	109			0.193
	Magnesium	105		98.4	105				0.154
	Potassium	109		107	107	105			0.228
	Sodium	106		98.0	103				1.26
	Zinc	103		102	102	107			0.698
EPA 200.8 Rev. 5.4	Aluminum	97.7		98.7	97.6	97.5			1.17
	Antimony	101		104	101	104			2.01
	Arsenic	101		100	98.0	103			2.28
	Boron	101		96.4	95.7	90.0			0.678
	Cadmium	99.6		105	101	102			3.47
	Chromium	94.9		96.7	94.4	94.3			2.35
	Copper	98.1		96.7	95.7	95.5			1.02
	Lead	94.4		95.7	93.6	96.4			2.21
	Nickel	95.1		93.8	91.0	96.8			3.04
	Selenium	100		98.3	95.3	99.6			3.05
	Silver	102		102	101	101			0.406
	Thallium	102		105	103	106			2.00
EPA 300.0 Rev. 2.1	Chloride	99.7		99.8	97.8			0.105	
	Chloride	102		99.0	99.7			0.402	
	Sulfate	98.6		98.5	96.3				
	Sulfate	101		98.6	98.4			0.514	
EPA 350.1 Rev. 2.0	Ammonia-N	106		99.3	100				0.499
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	109		91.1	91.9				0.459
	Kjeldahl Nitrogen	109		101	102				0.491
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	97.5		96.5					0.213
	NO ₂ NO ₃ -N	99.0		99.0	99.0				0.0
EPA 365.1 Rev. 2.0	Total-P	105		106	102				3.22
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.2		95.1	96.9				1.88
EPA 8270D	Acetochlor	87.0	107	90.1	101	20.8			11.6
	Alachlor	86.5	101	85.9	98.6	15.7			13.8
	Aldrin	60.7	51.8	58.3	58.3	15.8			0.0040
	Alpha-BHC	115	97.0	103	108	16.9			5.16
	Alpha-Chlordane	90.5	79.9	79.3	79.4	12.5			0.106
	Ametryn	87.5	111	86.6	99.5	24.0			13.8
	Atrazine	79.9	122	106	117	41.7			8.78
	Atrazine Desethyl	72.7	86.8	57.7	69.0	17.6			17.9
	Azinphos Methyl	105	126	99.7	118	18.0			16.7
	Beta-BHC	124	95.5	84.1	86.4	25.7			2.72
	Bromacil	69.6	78.6	65.6	66.7	12.1			0.723
	Butylate	46.8	57.4	36.4	42.6	20.3			15.7
	Carbophenothion	65.2	71.5	123	129	9.30			4.53
	Chlorothalonil	124	108	161	166	13.7			2.93
	Chlorpyrifos Ethyl	90.0	107	92.5	103	17.4			11.1
	Chlorpyrifos Methyl	86.4	103	87.4	100	17.3			13.8
	Cyanazine	97.0	109	83.7	90.3	11.3			7.56
	Cypermethrin	105	96.0	93.1	95.0	8.65			2.08
	DDD-p,p'	95.5	84.7	75.9	75.4	12.0			0.649
	DDE-p,p'	84.3	74.9	68.6	68.8	11.8			0.239
	DDT-p,p'	103	89.0	83.3	86.3	15.1			3.51
	Delta-BHC	143	112	115	122	24.7			5.41

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Demeton	77.3	93.0	75.2	87.9	18.4	15.5
	Diazinon	84.7	104	84.8	104	20.0	20.3
	Dicofol	77.5	74.1	73.0	65.4	4.44	10.9
	Dieldrin	95.8	84.9	79.1	79.5	12.1	0.469
	Dimethenamid	86.9	103	87.9	99.0	17.2	11.9
	Disulfoton	90.2	109	96.6	101	19.1	3.91
	Dithiopyr	85.5	102	86.7	98.0	17.7	12.3
	Endosulfan I	107	95.7	83.4	86.4	11.1	3.62
	Endosulfan II	111	95.4	88.6	102	15.4	13.9
	Endosulfan Sulfate	98.6	86.2	78.4	69.6	13.4	12.0
	Endrin	127	105	114	99.6	18.2	13.7
	Endrin Aldehyde	110	96.7	82.1	74.8	13.1	9.34
	Endrin Ketone	93.2	80.4	72.5	74.2	14.7	2.28
	EPTC	42.2	52.8	33.5	38.5	22.2	13.9
	Ethion	81.6	87.3	86.6	79.9	6.70	8.05
	Ethoprop	77.9	95.0	77.3	88.7	19.7	13.7
	Fenamiphos	72.2	78.6	66.1	76.0	8.47	14.0
	Fipronil	65.9	74.6	58.4	65.2	12.3	11.0
	Fipronil Desulfinyl	57.6	64.7	47.1	54.4	11.6	14.4
	Fipronil Sulfide	65.6	69.5	54.9	61.6	5.69	11.4
	Fipronil Sulfone	66.7	70.7	50.4	57.7	5.81	13.4
	Fonofos	80.1	99.8	81.1	91.0	21.9	11.4
	Gamma-BHC	142	111	98.1	102	24.3	4.15
	Gamma-Chlordane	87.8	77.9	75.9	75.9	12.0	0.0057
	Heptachlor	81.6	70.7	73.6	72.3	14.3	1.73
	Heptachlor Epoxide	99.5	86.2	80.0	81.2	14.4	1.57
	Hexazinone	87.8	113	92.6	99.9	24.8	7.63
	Malathion	90.6	107	95.1	104	16.9	9.24
	Metalaxyl	83.3	98.8	82.8	93.1	17.0	11.8
	Methoxychlor	125	108	97.2	101	14.6	4.16
	Metolachlor	85.1	103	86.7	100	18.7	13.7
	Metribuzin	161	189	157	192	16.0	19.7
	Mevinphos	66.4	80.8	65.5	76.8	19.5	15.9
	Mirex	62.5	55.1	57.2	59.6	12.6	4.19
	Molinate	62.3	75.3	58.5	67.2	18.8	13.9
	Norflurazon	68.3	76.8	55.5	63.6	11.7	13.6
	Oxadiazon	80.8	97.4	85.3	93.6	18.6	9.34
	Parathion Ethyl	80.0	95.1	86.9	94.9	17.3	8.87
	Parathion Methyl	92.9	117	98.4	110	23.1	11.5
	Pendimethalin	85.5	105	90.3	99.6	20.6	9.82
	Permethrin	83.0	79.5	78.3	74.8	4.27	4.60
	Phorate	86.7	106	86.9	94.8	19.9	8.64
	Prodiamine	83.5	90.1	82.9	103	7.69	21.5
	Prometon	78.8	94.4	83.3	85.1	18.0	2.07
	Prometryn	82.0	91.6	78.8	86.7	11.0	9.55
	Simazine	91.0	114	102	110	22.5	4.97
	Tebuconazole	60.1	68.0	63.0	64.1	12.3	1.63
	Terbufos	83.7	102	87.3	98.7	19.8	12.2
	Terbutylazine	85.3	107	86.8	100	22.6	14.1
	Trifluralin	97.6	83.1	81.6	80.3	16.1	1.51
EPA 8276	Chlordane	51.4	47.2	57.4	56.4	8.66	1.55
	Toxaphene	51.2	52.8	63.8	73.2	3.12	13.6
EPA 8321B	2,4-D	84.4		88.1	92.1		3.93
	3-Hydroxycarbofuran	109		87.5	96.7		9.98

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Acesulfame K	77.5	91.0	101		10.2
	Acetaminophen	97.9	109	115		5.61
	Aldicarb	88.1	60.5	51.0		16.9
	Aldicarb Sulfone	104	107	93.2		13.5
	Aldicarb Sulfoxide	111	46.6	43.7		6.51
	AMPA	101	84.9	81.2		4.45
	Bentazon	78.6	26.4	29.0		0.786
	Carbamazepine	82.4	62.6	64.3		2.60
	Carbaryl	77.5	62.1	55.1		11.9
	Carbofuran	74.0	52.7	47.9		9.45
	Diuron	73.1	55.4	53.7		2.94
	Endothall	93.7	91.8	101		9.83
	Fenuron	110	78.2	82.7		5.51
	Fluridone	101	52.8	64.2		2.59
	Glufosinate	87.4	68.7	67.2		2.24
	Glyphosate	91.1	71.1	72.7		2.22
	Hydrocodone	91.1	82.0	74.8		9.19
	Ibuprofen	75.9	83.1	71.9		14.4
	Imazapyr	87.4	68.2	78.4		3.74
	Imidacloprid	95.6	151	162		3.30
	Linuron	77.7	59.4	61.2		2.84
	MCPP	104	118	122		3.52
	Methiocarb	80.3	64.1	60.0		6.57
	Methomyl	112	115	124		7.69
	Naproxen	74.5	77.1	75.5		2.12
	Oxamyl	114	83.2	92.2		10.3
	Primidone	103	97.6	103		5.09
	Propoxur	84.6	56.4	58.9		4.23
	Pyraclostrobin	82.8	70.0	76.8		8.33
	Sucralose	125	105	103		2.24
	Triclopyr	63.4	65.9	75.0		12.9
SM 2120 B	Color (true)	101			1.37	
SM 2320 B-97	Total Alkalinity	102			0.559	
SM 2540 C-97	TDS				0.942	
SM 4500 F-C-97	Fluoride	99.8	100	99.2		0.933
SM 5310 B-00	Organic Carbon	98.4	95.2	94.0		0.858

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2062497, 2062500, 2062503, 2062506, 2062509
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2062575, 2062576, 2062577, 2062578
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2062575, 2062576, 2062577, 2062578
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2062497, 2062500, 2062503, 2062506, 2062509
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2062497, 2062500, 2062503, 2062506, 2062509
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2062498, 2062501, 2062504, 2062507, 2062510
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2062498, 2062501, 2062504, 2062507, 2062510

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2062498, 2062501, 2062504, 2062507, 2062510
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2062498, 2062501, 2062504, 2062507, 2062510
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2062499, 2062502, 2062505, 2062508, 2062511
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2062566, 2062568
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2062567, 2062569
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2062566, 2062568
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2062554, 2062556
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2062555, 2062557
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2062555, 2062557
SM 2120 B / E31780	True Color measured at 450 nm	2062497, 2062500, 2062503, 2062506, 2062509
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2062497, 2062500, 2062503, 2062506, 2062509
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2062497, 2062500, 2062503, 2062506, 2062509
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2062497, 2062500, 2062503, 2062506, 2062509
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2062497, 2062500, 2062503, 2062506, 2062509
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2062498, 2062501, 2062504, 2062507, 2062510

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	02/14/2019			02/14/2019 17:36	Adrian Shelby	2062497, 2062500, 2062503, 2062506, 2062509
EPA 200.7 Rev. 4.4	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/19/2019 15:24	Martin Acosta	2062575
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/19/2019 15:30	Martin Acosta	2062576
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/19/2019 15:36	Martin Acosta	2062577
EPA 200.8 Rev. 5.4	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/19/2019 15:42	Martin Acosta	2062578
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/21/2019 04:15	Robert K Palmer	2062575
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/21/2019 04:24	Robert K Palmer	2062576
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/21/2019 04:34	Robert K Palmer	2062577
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/21/2019 05:03	Robert K Palmer	2062578
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/26/2019 20:01	Robert K Palmer	2062575
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/26/2019 20:11	Robert K Palmer	2062576
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/26/2019 20:21	Robert K Palmer	2062577
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	02/26/2019 20:30	Robert K Palmer	2062578
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	03/01/2019 16:01	Robert K Palmer	2062576
	02/14/2019	02/18/2019 13:20	Elliott D. Healy	03/01/2019 16:08	Robert K Palmer	2062577
EPA 300.0 Rev. 2.1	02/14/2019			02/25/2019 21:17	Lipi Saha	2062497
	02/14/2019			02/26/2019 02:42	Lipi Saha	2062500
	02/14/2019			02/26/2019 02:57	Lipi Saha	2062503
	02/14/2019			02/26/2019 05:25	Lipi Saha	2062506
	02/14/2019			02/26/2019 05:40	Lipi Saha	2062509
EPA 350.1 Rev. 2.0	02/14/2019			02/20/2019 12:58	Ping Hua	2062498
	02/14/2019			02/20/2019 13:09	Ping Hua	2062510
	02/14/2019			02/20/2019 13:16	Ping Hua	2062501
	02/14/2019			02/20/2019 13:18	Ping Hua	2062504
	02/14/2019			02/20/2019 13:19	Ping Hua	2062507
EPA 351.2 Rev. 2.0	02/14/2019	02/15/2019 12:45	Adrian Shelby	02/18/2019 13:45	Joseph Suarez	2062507
	02/14/2019	02/15/2019 12:45	Adrian Shelby	02/18/2019 13:49	Joseph Suarez	2062510
	02/14/2019	02/15/2019 12:45	Adrian Shelby	02/18/2019 15:40	Joseph Suarez	2062498
	02/14/2019	02/15/2019 12:45	Adrian Shelby	02/18/2019 15:44	Joseph Suarez	2062501
	02/14/2019	02/15/2019 12:45	Adrian Shelby	02/18/2019 15:46	Joseph Suarez	2062504
EPA 353.2 Rev. 2.0	02/14/2019			02/19/2019 10:52	Beverly Y. Sanders	2062498
	02/14/2019			02/19/2019 11:00	Beverly Y. Sanders	2062501
	02/14/2019			02/19/2019 11:05	Beverly Y. Sanders	2062504
	02/14/2019			02/19/2019 11:07	Beverly Y. Sanders	2062507
	02/14/2019			02/19/2019 11:08	Beverly Y. Sanders	2062510
EPA 365.1 Rev. 2.0	02/14/2019	02/15/2019 13:25	Sima Feizi	02/18/2019 15:01	Rosalyn Ballman	2062498
	02/14/2019	02/15/2019 13:25	Sima Feizi	02/18/2019 15:03	Rosalyn Ballman	2062501
	02/14/2019	02/15/2019 13:25	Sima Feizi	02/18/2019 15:04	Rosalyn Ballman	2062504
	02/14/2019	02/15/2019 13:25	Sima Feizi	02/18/2019 15:05	Rosalyn Ballman	2062510

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0	02/14/2019	02/15/2019 13:25	Sima Feizi	02/18/2019 16:24	Rosalyn Ballman	2062507
EPA 365.1 Rev. 2.0 dissolved	02/14/2019			02/14/2019 15:16	Jhamieka S. Greenwood	2062508
	02/14/2019			02/14/2019 15:21	Jhamieka S. Greenwood	2062502
	02/14/2019			02/14/2019 15:29	Jhamieka S. Greenwood	2062499
	02/14/2019			02/14/2019 16:03	Jhamieka S. Greenwood	2062505
	02/14/2019			02/14/2019 16:04	Jhamieka S. Greenwood	2062511
EPA 8270D	02/14/2019	02/18/2019 08:30	Dinesh Mishra	02/20/2019 17:47	Vandana T. Nagar	2062567
	02/14/2019	02/18/2019 08:30	Dinesh Mishra	02/20/2019 18:11	Vandana T. Nagar	2062569
	02/14/2019	02/18/2019 08:30	Dinesh Mishra	02/21/2019 13:33	Vandana T. Nagar	2062567
	02/14/2019	02/18/2019 08:30	Dinesh Mishra	02/21/2019 13:57	Vandana T. Nagar	2062569
	02/14/2019	02/18/2019 08:30	Rasheda Ghaffari	02/21/2019 20:04	Dinesh Mishra	2062566
	02/14/2019	02/18/2019 08:30	Rasheda Ghaffari	02/21/2019 20:34	Dinesh Mishra	2062568
EPA 8276	02/14/2019	02/18/2019 08:30	Rasheda Ghaffari	02/21/2019 05:10	Arthur Maknenko	2062566
	02/14/2019	02/18/2019 08:30	Rasheda Ghaffari	02/21/2019 06:06	Arthur Maknenko	2062568
EPA 8321B	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/16/2019 20:35	Mohammad Ghaffari	2062555
	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/16/2019 20:49	Mohammad Ghaffari	2062557
	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/17/2019 13:41	Mohammad Ghaffari	2062555
	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/17/2019 13:51	Mohammad Ghaffari	2062557
	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/17/2019 15:39	Mohammad Ghaffari	2062555
	02/14/2019	02/15/2019 17:30	Mohammad Ghaffari	02/17/2019 15:53	Mohammad Ghaffari	2062557
	02/14/2019	02/18/2019 10:00	Hoor Shaik	02/21/2019 05:44	Juyoung Kim	2062554
	02/14/2019	02/18/2019 10:00	Hoor Shaik	02/21/2019 06:18	Juyoung Kim	2062556
	02/14/2019	02/18/2019 10:00	Hoor Shaik	02/21/2019 09:11	Juyoung Kim	2062555
	02/14/2019	02/18/2019 10:00	Hoor Shaik	02/21/2019 16:06	Juyoung Kim	2062557
SM 2120 B	02/14/2019			02/14/2019 16:07	Chelsea Hernandez	2062497
	02/14/2019			02/14/2019 16:08	Chelsea Hernandez	2062500
	02/14/2019			02/14/2019 16:10	Chelsea Hernandez	2062503, 2062506
	02/14/2019			02/14/2019 16:11	Chelsea Hernandez	2062509
SM 2320 B-97	02/14/2019			02/19/2019 04:47	Dale L. Simmons	2062497
	02/14/2019			02/19/2019 05:01	Dale L. Simmons	2062500
	02/14/2019			02/19/2019 05:15	Dale L. Simmons	2062503
	02/14/2019			02/19/2019 05:29	Dale L. Simmons	2062506
	02/14/2019			02/19/2019 05:42	Dale L. Simmons	2062509
SM 2540 C-97	02/14/2019			02/15/2019 17:10	Mariam Hanna	2062497, 2062500, 2062503, 2062506, 2062509
SM 2540 D-97	02/14/2019			02/15/2019 16:00	Mariam Hanna	2062497, 2062500, 2062503, 2062506, 2062509
SM 4500 F-C-97	02/14/2019			02/19/2019 04:47	Dale L. Simmons	2062497
	02/14/2019			02/19/2019 05:01	Dale L. Simmons	2062500
	02/14/2019			02/19/2019 05:15	Dale L. Simmons	2062503

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Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
SM 4500 F-C-97	02/14/2019			02/19/2019 05:29	Dale L. Simmons	2062506
	02/14/2019			02/19/2019 05:42	Dale L. Simmons	2062509
SM 5310 B-00	02/14/2019			02/20/2019 09:59	Julia Storbeck	2062498
	02/14/2019			02/20/2019 10:14	Julia Storbeck	2062501
	02/14/2019			02/20/2019 10:28	Julia Storbeck	2062504
	02/14/2019			02/20/2019 10:42	Julia Storbeck	2062507
	02/14/2019			02/20/2019 10:59	Julia Storbeck	2062510