

Chemical Analysis Report

NE-DIST-2018-03-02-02

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

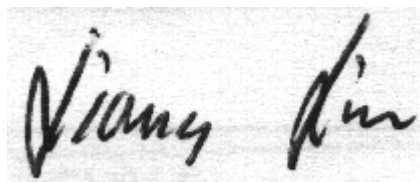
Event Description: **Suw 3_2018**
Request ID: **RQ-2018-02-26-22**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way
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Jacksonville, FL 32256-7577
Attn: Nicole Frederick

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 09-APR-2018 14:32

A handwritten signature in black ink, appearing to read "Liang Lin", on a light-colored background.

Case Narrative

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

Results for the following analytical groups are included in this report: Metals, Nutrients and Pesticides.

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

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

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Lake Kanapaha~300M N of 56 th

Collection Date/Time: 03/01/2018 10:10

Field ID: 20030925

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971453	EPA 180.1 Rev. 2.0	Turbidity	2.5		NTU	P340900	
	EPA 300.0 Rev. 2.1	Chloride	8.7		mg Cl/L	P341419	
		Sulfate	4.8		mg SO4/L	P341424	
	SM 2120 B	Color (true)	55		PCU	P340896	
	SM 2320 B-97	Total Alkalinity	172		mg CaCO3/L	P341336	
	SM 2540 C-97	TDS	207		mg/L	P341464	
	SM 2540 D-97	TSS	4	I	mg/L	P341372	
	SM 4500 F-C-97	Fluoride	0.14		mg F/L	P341527	
1971457	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P341258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.90		mg N/L	P340967	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P340948	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P340994	
	SM 5310 B-00	Organic Carbon	9.3		mg C/L	P341045	
1971461	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.34		mg P/L	P340892	

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: RHUDA BRANCH @ 192 ST (NW 8th Way)

Collection Date/Time: 03/01/2018 11:40

Field ID: 21030146

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971454	EPA 180.1 Rev. 2.0	Turbidity	1.6		NTU	P340900	
	EPA 300.0 Rev. 2.1	Chloride	13		mg Cl/L	P341419	
		Sulfate	2.9		mg SO4/L	P341424	
	SM 2120 B	Color (true)	270		PCU	P340896	
	SM 2320 B-97	Total Alkalinity	8.3		mg CaCO3/L	P341336	
	SM 2540 C-97	TDS	78		mg/L	P341465	
	SM 2540 D-97	TSS	2	I	mg/L	P341373	
	SM 4500 F-C-97	Fluoride	0.16		mg F/L	P341527	
1971458	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P341258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P340967	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.018		mg N/L	P340948	
	EPA 365.1 Rev. 2.0	Total-P	0.43		mg P/L	P340994	
	SM 5310 B-00	Organic Carbon	24		mg C/L	P341045	
1971462	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.39		mg P/L	P340892	

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: Sunshine Lake Center

Collection Date/Time: 03/01/2018 12:15

Field ID: G1NE0857

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971455	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P340900	
	EPA 300.0 Rev. 2.1	Chloride	7.3		mg Cl/L	P341419	
		Sulfate	1.4		mg SO4/L	P341424	

Field ID: G1NE0857

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971455	SM 2120 B	Color (true)	150		PCU	P340896	
	SM 2320 B-97	Total Alkalinity	16		mg CaCO3/L	P341336	
	SM 2540 C-97	TDS	70		mg/L	P341465	
	SM 2540 D-97	TSS	4	I	mg/L	P341373	
	SM 4500 F-C-97	Fluoride	0.093	I	mg F/L	P341527	
1971459	EPA 350.1 Rev. 2.0	Ammonia-N	0.061		mg N/L	P341258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P340967	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P340948	
	EPA 365.1 Rev. 2.0	Total-P	0.37		mg P/L	P340994	
	SM 5310 B-00	Organic Carbon	20		mg C/L	P341045	
1971463	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.29		mg P/L	P340892	

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: Rocky Creek at 156 th Ave

Collection Date/Time: 03/01/2018 12:35

Field ID: G1NE0020

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971456	EPA 180.1 Rev. 2.0	Turbidity	3.3	A	NTU	P340901	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P341419	
		Sulfate	1.1		mg SO4/L	P341424	
	SM 2120 B	Color (true)	490		PCU	P340897	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P341336	
	SM 2540 C-97	TDS	127		mg/L	P341465	
	SM 2540 D-97	TSS	3	I	mg/L	P341373	
	SM 4500 F-C-97	Fluoride	0.097	I	mg F/L	P341527	
1971460	EPA 350.1 Rev. 2.0	Ammonia-N	0.017		mg N/L	P341258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.1		mg N/L	P340967	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.01	I	mg N/L	P340949	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P341003	
	SM 5310 B-00	Organic Carbon	43		mg C/L	P341045	
1971464	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.10		mg P/L	P340892	

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: Hague Branch Trib @ US 441 80m W 77th Terr

Collection Date/Time: 03/01/2018 09:10

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971465	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P340901	
	EPA 300.0 Rev. 2.1	Chloride	23		mg Cl/L	P341583	
		Sulfate	28		mg SO4/L	P341585	
	SM 2120 B	Color (true)	110	A	PCU	P340897	
	SM 2320 B-97	Total Alkalinity	127		mg CaCO3/L	P341336	
	SM 2540 C-97	TDS	242		mg/L	P341465	
	SM 2540 D-97	TSS	3	I	mg/L	P341373	

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971465	SM 4500 F-C-97	Fluoride	0.30		mg F/L	P341527	
1971466	EPA 350.1 Rev. 2.0	Ammonia-N	0.023		mg N/L	P341258	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.71		mg N/L	P340967	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.6		mg N/L	P340949	
	EPA 365.1 Rev. 2.0	Total-P	0.63		mg P/L	P341003	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P341045	
1971467	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.56		mg P/L	P340892	
1971480	EPA 8321B	Aldicarb	0.020	U	ug/L	P340883	
		Aldicarb Sulfone	0.0020	U	ug/L	P340883	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P340883	
		Carbaryl	0.0020	U	ug/L	P340883	
		Carbofuran	0.0020	U	ug/L	P340883	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P340883	
		Methiocarb	0.0020	U	ug/L	P340883	
		Methomyl	0.0020	U	ug/L	P340883	
		Oxamyl	0.0020	U	ug/L	P340883	
		Propoxur	0.0020	U	ug/L	P340883	
1971481		2,4-D	0.0020	U	ug/L	P340883	
		Sucralose**	0.21		ug/L	P340984	
		Bentazon	8.0E-04	U	ug/L	P340883	MS
		MCP	0.0020	U	ug/L	P340883	MS
		Triclopyr**	0.0040	U	ug/L	P340883	MS
		Imidacloprid	0.0020	U	ug/L	P340883	MS
		Diuron	0.0020	U	ug/L	P340883	
		Pyraclostrobin**	0.0020	U	ug/L	P340883	
		Primidone**	0.0040	U	ug/L	P340883	
		Linuron	0.0040	U	ug/L	P340883	
		Acetaminophen**	0.0080	U	ug/L	P340883	
		Fenuron	0.0080	U	ug/L	P340883	
		Imazapyr**	0.014	I	ug/L	P340883	MS
		Carbamazepine**	4.0E-04	U	ug/L	P340883	
		Fluridone**	8.0E-04	U	ug/L	P340883	
		Glyphosate**	0.10	U	ug/L	P340878	
		AMPA**	0.15	I	ug/L	P340878	
1971482	EPA 8270D	Aldrin	4.3	U	ng/L	P340939	
		Alpha-BHC	2.1	U	ng/L	P340939	
		Beta-BHC	4.3	U	ng/L	P340939	
		Delta-BHC	4.3	U	ng/L	P340939	
		Gamma-BHC	4.3	U	ng/L	P340939	
		Carbophenothion	4.3	U	ng/L	P340939	RPD
		Chlorothalonil	2.1	UJ	ng/L	P340939	RPD
		Cypermethrin	21	U	ng/L	P340939	
		DDD-p,p'	3.2	U	ng/L	P340939	
		DDE-p,p'	3.2	U	ng/L	P340939	

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971482	EPA 8270D	DDT-p,p'	3.2	U	ng/L	P340939	
		Dieldrin	4.3	U	ng/L	P340939	
		Endosulfan I	4.3	U	ng/L	P340939	RPD
		Endosulfan II	4.3	U	ng/L	P340939	RPD
		Endosulfan Sulfate	2.1	U	ng/L	P340939	
		Endrin	2.1	U	ng/L	P340939	
		Endrin Aldehyde	2.1	U	ng/L	P340939	MS, RPD
		Heptachlor	1.6	U	ng/L	P340939	
		Heptachlor Epoxide	2.1	U	ng/L	P340939	
		Methoxychlor	4.3	U	ng/L	P340939	
		Mirex	2.1	U	ng/L	P340939	
		Permethrin	11	U	ng/L	P340939	
		Trifluralin	1.1	U	ng/L	P340939	
		Alpha-Chlordane	1.1	U	ng/L	P340939	
		Gamma-Chlordane	1.1	U	ng/L	P340939	
		Endrin Ketone	2.1	U	ng/L	P340939	
		Dicofol	32	U	ng/L	P340939	
	EPA 8276	Chlordane**	2.7	U	ng/L	P340939	
		Toxaphene**	32	U	ng/L	P340939	
1971483	EPA 8270D	Alachlor	0.27	U	ng/L	P340974	
		Ametryn	0.77	I	ng/L	P340974	
		Atrazine	0.53	I	ng/L	P340974	
		Atrazine Desethyl	1.6	U	ng/L	P340974	
		Azinphos Methyl	2.5	U	ng/L	P340974	
		Bromacil	3.5	J	ng/L	P340974	LCS
		Butylate	0.44	U	ng/L	P340974	
		Chlorpyrifos Ethyl	0.27	U	ng/L	P340974	
		Chlorpyrifos Methyl	0.11	U	ng/L	P340974	
		Demeton	2.2	U	ng/L	P340974	
		Diazinon	0.14	U	ng/L	P340974	
		Disulfoton	0.55	U	ng/L	P340974	
		EPTC	1.4	U	ng/L	P340974	
		Ethion	0.16	U	ng/L	P340974	
		Ethoprop	0.11	U	ng/L	P340974	
		Fenamiphos	0.27	U	ng/L	P340974	
		Fipronil	0.27	U	ng/L	P340974	
		Fipronil Sulfide	0.16	U	ng/L	P340974	
		Fipronil Sulfone	0.16	U	ng/L	P340974	
		Hexazinone	3.5		ng/L	P340974	
		Malathion	0.38	U	ng/L	P340974	
		Metribuzin	0.22	UJ	ng/L	P340974	LCS, MS
		Mevinphos	0.55	U	ng/L	P340974	
		Molinate	0.33	U	ng/L	P340974	
		Norflurazon	0.55	U	ng/L	P340974	
		Pendimethalin	1.1	U	ng/L	P340974	

Field ID: 21030152

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1971483	EPA 8270D	Phorate	0.27	U	ng/L	P340974	
		Prometon	0.98	U	ng/L	P340974	
		Prometryn	0.22	U	ng/L	P340974	
		Simazine	0.55	U	ng/L	P340974	
		Terbufos	0.11	U	ng/L	P340974	
		Terbuthylazine	0.46	U	ng/L	P340974	
		Fonofos	0.22	U	ng/L	P340974	
		Metalaxyl	0.27	U	ng/L	P340974	
		Metolachlor	0.27	U	ng/L	P340974	
		Acetochlor	0.27	U	ng/L	P340974	
		Cyanazine	0.55	U	ng/L	P340974	
		Parathion Ethyl	0.27	U	ng/L	P340974	
		Parathion Methyl	0.27	U	ng/L	P340974	
1971484	EPA 200.7 Rev. 4.4	Calcium	34.8		mg/L	P340962	
		Iron	390		ug/L	P340962	
		Magnesium	14.0		mg/L	P340962	
		Potassium	8.9		mg/L	P340962	
		Sodium	25.0		mg/L	P340962	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P340962	
		Arsenic	0.89		ug/L	P340962	
		Cadmium	0.851		ug/L	P340962	
		Chromium	1.0	I	ug/L	P340962	
		Copper	0.61	I	ug/L	P342450	
		Lead	0.19	I	ug/L	P341739	
		Nickel	3.59		ug/L	P341739	
		Silver	0.010	U	ug/L	P340962	

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: Fenuron was detected in the method blank slightly above the MDL.

EPA 8321B: Results confirmed in re-extraction.

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

EPA 8270D: MS accuracy for Atrazine, Simazine and Fipronil Sulfone not assessed due to high content of these parameters in the sample spiked.

Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P340900

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P340901

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P340962

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P340962

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P341739

Component	Result	Code	Units
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342450

Component	Result	Code	Units
Copper	0.20	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341419

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341424

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341583

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341585

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341258

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340967

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340948

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340949

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340994

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341003

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340892

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

Reference Method: EPA 8270D
Batch ID: P340939

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P340939

Component	Result	Code	Units
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
Batch ID: P340974

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P340974

Component	Result	Code	Units
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P340939

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

Reference Method: EPA 8321B
Batch ID: P340878

Component	Result	Code	Units
AMPA	0.10	U	ug/L
Glyphosate	0.10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P340883

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	4.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.021	I	ug/L
Fluridone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P340984

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P340896

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P340897

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P341336

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

Reference Method: SM 2540 C-97
Batch ID: P341464

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P341465

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P341372

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P341373

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P341527

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: P341045

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: P340962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	99.4		P	85 - 115
Iron	107		P	85 - 115
Magnesium	103		P	85 - 115
Potassium	102		P	85 - 115
Sodium	99.6		P	85 - 115
Zinc	98.8		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P340962

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	103		P	85 - 115
Cadmium	106		P	85 - 115
Chromium	103		P	85 - 115
Silver	103		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P341739

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Lead	100		P	85 - 115
Nickel	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342450

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Copper	107		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341419

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341424

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.0		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341583

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341585

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341258

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340967

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340948

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: P340949

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: P340994

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	97.4		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341003

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340892

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P340939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	73.4	62.9	P/P	24 - 89.0
Alpha-BHC	95.2	83.9	P/P	58 - 117
Alpha-Chlordane	95.1	84.3	P/P	56 - 115
Beta-BHC	114	106	P/P	55 - 137
Carbophenothion	86.4	84.3	P/P	37 - 145
Chlorothalonil	132	81.6	P/P	26 - 163
Cypermethrin	94.8	84.7	P/P	42 - 156
DDD-p,p'	108	102	P/P	59 - 129
DDE-p,p'	94.3	83.6	P/P	52 - 117
DDT-p,p'	95.8	87.5	P/P	48 - 128
Delta-BHC	122	128	P/P	59 - 158
Dicofol	89.9	80.4	P/P	19 - 124
Dieldrin	99.8	88.8	P/P	57 - 126
Endosulfan I	91.5	86.6	P/P	59 - 133
Endosulfan II	124	116	P/P	58 - 148
Endosulfan Sulfate	116	101	P/P	56 - 135
Endrin	96.1	86.6	P/P	50 - 140
Endrin Aldehyde	101	90.5	P/P	47 - 141
Endrin Ketone	109	96.1	P/P	63 - 123
Gamma-BHC	102	89.2	P/P	59 - 132
Gamma-Chlordane	92.2	81.2	P/P	55 - 112
Heptachlor	77.1	66.5	P/P	45 - 102
Heptachlor Epoxide	96.8	85.9	P/P	61 - 116
Methoxychlor	99.8	93.2	P/P	60 - 133
Mirex	77.0	68.5	P/P	40 - 98.0
Permethrin	94.9	87.2	P/P	45 - 131
Trifluralin	81.8	73.1	P/P	38 - 179

Reference Method: EPA 8270D
Batch ID: P340974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	93.7	97.7	P/P	74 - 119
Alachlor	95.6	100	P/P	75 - 118
Ametryn	94.2	84.6	P/P	59 - 137
Atrazine	96.6	104	P/P	73 - 120
Atrazine Desethyl	116	118	P/P	19 - 129
Azinphos Methyl	113	118	P/P	65 - 181
Bromacil	39.3	52.1	F/P	43 - 123
Butylate	63.3	61.2	P/P	28 - 85.0
Chlorpyrifos Ethyl	91.8	99.7	P/P	55 - 112
Chlorpyrifos Methyl	98.1	105	P/P	35 - 124
Cyanazine	252	253	P/P	26 - 262
Demeton	75.2	90.8	P/P	43 - 122
Diazinon	98.4	103	P/P	72 - 120
Disulfoton	78.2	95.0	P/P	45 - 137
EPTC	61.4	60.1	P/P	28 - 95.0
Ethion	87.8	86.4	P/P	63 - 127
Ethoprop	97.9	102	P/P	63 - 109
Fenamiphos	94.8	102	P/P	66 - 136
Fipronil	96.1	102	P/P	63 - 126
Fipronil Sulfide	93.8	102	P/P	59 - 123

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P340974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fipronil Sulfone	88.6	94.6	P/P	56 - 122
Fonofos	94.7	98.6	P/P	64 - 114
Hexazinone	110	118	P/P	49 - 144
Malathion	91.6	95.0	P/P	68 - 131
Metalaxyl	94.3	101	P/P	57 - 126
Metolachlor	95.9	101	P/P	75 - 118
Metribuzin	169	189	P/F	46 - 169
Mevinphos	84.5	88.9	P/P	34 - 126
Molinate	67.0	67.9	P/P	37 - 101
Norflurazon	90.3	95.1	P/P	63 - 127
Parathion Ethyl	92.0	98.5	P/P	78 - 109
Parathion Methyl	100	104	P/P	74 - 123
Pendimethalin	104	112	P/P	51 - 130
Phorate	84.4	92.3	P/P	53 - 116
Prometon	87.4	92.2	P/P	66 - 124
Prometryn	93.9	100	P/P	66 - 124
Simazine	105	110	P/P	62 - 134
Terbufos	90.3	98.6	P/P	59 - 115
Terbutylazine	96.3	103	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P340939

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	79.1	66.7	P/P	47 - 125
Toxaphene	87.8	81.2	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P340878

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
AMPA	104		P	40 - 150
Glyphosate	102		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	81.0		P	40 - 150
3-Hydroxycarbofuran	91.5		P	40 - 150
Acetaminophen	91.3		P	30 - 150
Aldicarb	79.3		P	30 - 150
Aldicarb Sulfone	92.7		P	40 - 150
Aldicarb Sulfoxide	94.9		P	40 - 150
Bentazon	103		P	30 - 150
Carbamazepine	78.8		P	40 - 150
Carbaryl	66.7		P	40 - 150
Carbofuran	77.3		P	40 - 150
Diuron	65.0		P	40 - 150
Fenuron	95.5		P	40 - 150
Fluridone	66.0		P	40 - 150
Imazapyr	63.3		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P340883

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Imidacloprid	89.3		P	40 - 160
Linuron	73.6		P	40 - 150
MCPP	83.2		P	40 - 150
Methiocarb	72.3		P	40 - 150
Methomyl	98.0		P	40 - 150
Oxamyl	87.1		P	40 - 150
Primidone	100		P	40 - 150
Propoxur	73.4		P	40 - 150
Pyraclostrobin	67.9		P	40 - 150
Triclopyr	77.5		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	100		P	40 - 150

Reference Method: SM 2320 B-97
Batch ID: P341336

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.0		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P341527

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.6		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P341045

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P340962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971143	Calcium	99.8		P	80 - 120
1971143	Iron	107		P	80 - 120
1971143	Magnesium	104		P	80 - 120
1971143	Potassium	101		P	80 - 120
1971143	Sodium	100		P	80 - 120
1971143	Zinc	99.9		P	80 - 120
1971385	Calcium	101		P	80 - 120
1971385	Iron	108	109	P/P	80 - 120
1971385	Magnesium	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P340962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971385	Potassium	101		P	80 - 120
1971385	Sodium	100		P	80 - 120
1971385	Zinc	93.8	99.7	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P340962

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971143	Arsenic	102		P	80 - 120
1971143	Cadmium	106		P	80 - 120
1971143	Chromium	98.7		P	80 - 120
1971143	Silver	101		P	80 - 120
1971385	Arsenic	100	101	P/P	80 - 120
1971385	Cadmium	104	104	P/P	80 - 120
1971385	Chromium	96.3	97.5	P/P	80 - 120
1971385	Silver	102	101	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P341739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970810	Lead	100	101	P/P	80 - 120
1970810	Nickel	96.2	96.4	P/P	80 - 120
1970843	Lead	101		P	80 - 120
1970843	Nickel	94.1		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342450

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970842	Copper	99.0		P	80 - 120
1978259	Copper	96.9	101	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341419

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971300	Chloride	96.9		P	90 - 110
1971301	Chloride	97.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341424

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971300	Sulfate	97.4		P	90 - 110
1971301	Sulfate	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1973282	Chloride	94.0		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1973284	Chloride	101		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1973282	Sulfate	97.5		P	90 - 110
1973284	Sulfate	101		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341258

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971458	Ammonia-N	97.7	98.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340967

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971457	Kjeldahl Nitrogen	95.9	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340948

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971403	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971460	NO2NO3-N	94.3	93.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340994

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971356	Total-P	93.2	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341003

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971466	Total-P	101	96.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340892

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971411	O-Phosphate-P	94.3	95.8	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P340939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971343	Aldrin	71.3	59.5	P/P	26 - 96.0
1971343	Alpha-BHC	84.1	74.6	P/P	51 - 123
1971343	Alpha-Chlordane	92.3	77.1	P/P	45 - 120
1971343	Beta-BHC	94.6	97.4	P/P	43 - 146
1971343	Carbophenothion	140	98.2	P/P	26 - 179
1971343	Chlorothalonil	182	108	P/P	10 - 215
1971343	Cypermethrin	95.9	81.2	P/P	35 - 169
1971343	DDD-p,p'	105	87.8	P/P	49 - 131
1971343	DDE-p,p'	84.7	77.1	P/P	39 - 127
1971343	DDT-p,p'	89.4	75.2	P/P	49 - 120
1971343	Delta-BHC	113	111	P/P	49 - 187
1971343	Dicofol	81.3	75.8	P/P	10 - 129
1971343	Dieldrin	92.3	79.0	P/P	46 - 132
1971343	Endosulfan I	116	78.6	P/P	57 - 130
1971343	Endosulfan II	141	99.3	P/P	52 - 148
1971343	Endosulfan Sulfate	106	93.5	P/P	55 - 129
1971343	Endrin	93.7	73.7	P/P	45 - 133
1971343	Endrin Aldehyde	14.3	64.4	F/P	26 - 140
1971343	Endrin Ketone	102	89.3	P/P	60 - 125
1971343	Gamma-BHC	103	82.4	P/P	50 - 145
1971343	Gamma-Chlordane	90.9	75.8	P/P	44 - 118
1971343	Heptachlor	74.8	61.4	P/P	35 - 106
1971343	Heptachlor Epoxide	93.9	79.3	P/P	52 - 123
1971343	Methoxychlor	92.5	81.0	P/P	54 - 132
1971343	Mirex	76.8	66.4	P/P	36 - 107
1971343	Permethrin	97.5	87.8	P/P	47 - 135
1971343	Trifluralin	77.2	66.9	P/P	32 - 228

Reference Method: EPA 8270D

Batch ID: P340974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970458	Acetochlor	100	92.9	P/P	67 - 125
1970458	Alachlor	100	97.8	P/P	69 - 123
1970458	Ametryn	109	107	P/P	52 - 151
1970458	Atrazine Desethyl	124	112	P/P	10 - 129
1970458	Azinphos Methyl	126	101	P/P	48 - 200
1970458	Bromacil	94.6	81.2	P/P	46 - 130
1970458	Butylate	70.1	58.3	P/P	10 - 85.0
1970458	Chlorpyrifos Ethyl	102	93.7	P/P	54 - 115
1970458	Chlorpyrifos Methyl	109	99.8	P/P	44 - 117
1970458	Cyanazine	234	209	P/P	10 - 262
1970458	Demeton	82.0	79.5	P/P	24 - 145
1970458	Diazinon	109	102	P/P	66 - 129
1970458	Disulfoton	88.9	81.2	P/P	45 - 139
1970458	EPTC	69.5	57.2	P/P	10 - 86.0
1970458	Ethion	89.9	83.7	P/P	59 - 133
1970458	Ethoprop	113	102	P/P	54 - 116
1970458	Fenamiphos	102	87.9	P/P	55 - 140
1970458	Fipronil	106	92.9	P/P	37 - 142
1970458	Fipronil Sulfide	108	94.4	P/P	37 - 130
1970458	Fonofos	107	96.7	P/P	55 - 118

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P340974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970458	Hexazinone	110	107	P/P	62 - 140
1970458	Malathion	106	92.8	P/P	64 - 132
1970458	Metalaxyl	107	93.7	P/P	55 - 129
1970458	Metolachlor	102	95.3	P/P	56 - 137
1970458	Metribuzin	227	215	F/P	16 - 218
1970458	Mevinphos	101	85.2	P/P	34 - 129
1970458	Molinate	74.3	63.1	P/P	16 - 99.0
1970458	Norflurazon	100	88.4	P/P	43 - 135
1970458	Parathion Ethyl	104	94.5	P/P	71 - 112
1970458	Parathion Methyl	114	101	P/P	65 - 127
1970458	Pendimethalin	120	112	P/P	35 - 159
1970458	Phorate	97.2	89.3	P/P	41 - 129
1970458	Prometon	102	95.7	P/P	56 - 140
1970458	Prometryn	101	95.7	P/P	65 - 130
1970458	Terbufos	104	95.1	P/P	53 - 126
1970458	Terbutylazine	106	100	P/P	73 - 114

Reference Method: EPA 8276
Batch ID: P340939

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971482	Chlordane	76.9	73.8	P/P	41 - 134
1971482	Toxaphene	84.6	80.1	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P340878

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971373	AMPA	81.5	78.3	P/P	40 - 150
1971373	Glyphosate	95.8	87.4	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1972049	2,4-D	44.4	44.3	P/P	40 - 150
1972049	3-Hydroxycarbofuran	92.1	90.3	P/P	40 - 150
1972049	Acetaminophen	119	117	P/P	30 - 150
1972049	Aldicarb	66.6	70.8	P/P	30 - 150
1972049	Aldicarb Sulfone	110	113	P/P	40 - 150
1972049	Aldicarb Sulfoxide	86.9	87.6	P/P	40 - 150
1972049	Bentazon	27.9	28.9	F/F	30 - 150
1972049	Carbamazepine	74.3	75.3	P/P	40 - 150
1972049	Carbaryl	53.7	56.0	P/P	40 - 150
1972049	Carbofuran	59.9	61.0	P/P	40 - 150
1972049	Diuron	55.3	56.0	P/P	40 - 150
1972049	Fenuron	67.5	74.7	P/P	40 - 150
1972049	Fluridone	59.9	59.9	P/P	40 - 150
1972049	Imazapyr	52.1	37.9	P/F	40 - 150
1972049	Imidacloprid	164	161	F/F	40 - 160
1972049	Linuron	77.1	72.0	P/P	40 - 150
1972049	MCP	30.8	31.9	F/F	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P340883

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1972049	Methiocarb	71.7	66.4	P/P	40 - 150
1972049	Methomyl	87.9	81.4	P/P	40 - 150
1972049	Oxamyl	74.9	76.5	P/P	40 - 150
1972049	Primidone	81.4	91.4	P/P	40 - 150
1972049	Propoxur	55.7	56.4	P/P	40 - 150
1972049	Pyraclostrobin	59.3	61.1	P/P	40 - 150
1972049	Triclopyr	40.0	45.0	F/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971431	Sucralose	98.3	104	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P341527

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971311	Fluoride	96.0	96.0	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P341045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1971306	Organic Carbon	94.0	95.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P340900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971359	Turbidity	6.11	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P340901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971456	Turbidity	0.910	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P340962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971385	Calcium	1.22	Spike	P	0 - 20
1971385	Iron	1.24	Spike	P	0 - 20
1971385	Magnesium	1.74	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P340962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971385	Potassium	1.70	Spike	P	0 - 20
1971385	Sodium	1.39	Spike	P	0 - 20
1971385	Zinc	6.12	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P340962

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971385	Arsenic	0.990	Spike	P	0 - 20
1971385	Cadmium	0.0614	Spike	P	0 - 20
1971385	Chromium	1.20	Spike	P	0 - 20
1971385	Silver	0.496	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P341739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970810	Lead	0.547	Spike	P	0 - 20
1970810	Nickel	0.199	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P342450

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1978259	Copper	3.82	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341419

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971300	Chloride	3.92	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341424

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971300	Sulfate	5.09	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1973282	Chloride	4.53	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1973282	Sulfate	5.15	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P341258

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971458	Ammonia-N	0.973	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971457	Kjeldahl Nitrogen	2.46	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340948

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971403	NO2NO3-N	0.258	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971460	NO2NO3-N	1.01	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340994

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971356	Total-P	2.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P341003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971466	Total-P	1.81	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340892

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971411	O-Phosphate-P	1.50	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P340939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971343	Aldrin	18.1	Spike	P	0 - 30
1971343	Alpha-BHC	12.0	Spike	P	0 - 30
1971343	Alpha-Chlordane	17.9	Spike	P	0 - 30
1971343	Beta-BHC	2.87	Spike	P	0 - 30
1971343	Carbophenothion	35.0	Spike	F	0 - 30
1971343	Chlorothalonil	50.8	Spike	F	0 - 30
1971343	Cypermethrin	16.6	Spike	P	0 - 30
1971343	DDD-p,p'	17.7	Spike	P	0 - 30
1971343	DDE-p,p'	9.46	Spike	P	0 - 30
1971343	DDT-p,p'	17.2	Spike	P	0 - 30
1971343	Delta-BHC	1.85	Spike	P	0 - 30
1971343	Dicofol	6.94	Spike	P	0 - 30
1971343	Dieldrin	11.2	Spike	P	0 - 30
1971343	Endosulfan I	38.5	Spike	F	0 - 30
1971343	Endosulfan II	34.5	Spike	F	0 - 30
1971343	Endosulfan Sulfate	12.9	Spike	P	0 - 30
1971343	Endrin	23.9	Spike	P	0 - 30
1971343	Endrin Aldehyde	127	Spike	F	0 - 30
1971343	Endrin Ketone	12.8	Spike	P	0 - 30
1971343	Gamma-BHC	22.0	Spike	P	0 - 30
1971343	Gamma-Chlordane	18.1	Spike	P	0 - 30
1971343	Heptachlor	19.8	Spike	P	0 - 30
1971343	Heptachlor Epoxide	14.3	Spike	P	0 - 30
1971343	Methoxychlor	13.2	Spike	P	0 - 30
1971343	Mirex	14.5	Spike	P	0 - 30
1971343	Permethrin	10.5	Spike	P	0 - 30
1971343	Trifluralin	14.4	Spike	P	0 - 30
LFB	Aldrin	15.4	LCS	P	0 - 30
LFB	Alpha-BHC	12.5	LCS	P	0 - 30
LFB	Alpha-Chlordane	12.1	LCS	P	0 - 30
LFB	Beta-BHC	7.23	LCS	P	0 - 30
LFB	Carbophenothion	2.43	LCS	P	0 - 30
LFB	Chlorothalonil	47.2	LCS	F	0 - 30
LFB	Cypermethrin	11.3	LCS	P	0 - 30
LFB	DDD-p,p'	5.63	LCS	P	0 - 30
LFB	DDE-p,p'	12.0	LCS	P	0 - 30
LFB	DDT-p,p'	9.12	LCS	P	0 - 30
LFB	Delta-BHC	5.54	LCS	P	0 - 30
LFB	Dicofol	11.2	LCS	P	0 - 30
LFB	Dieldrin	11.7	LCS	P	0 - 30
LFB	Endosulfan I	5.50	LCS	P	0 - 30
LFB	Endosulfan II	6.38	LCS	P	0 - 30
LFB	Endosulfan Sulfate	13.7	LCS	P	0 - 30
LFB	Endrin	10.4	LCS	P	0 - 30
LFB	Endrin Aldehyde	11.0	LCS	P	0 - 30
LFB	Endrin Ketone	13.0	LCS	P	0 - 30
LFB	Gamma-BHC	13.2	LCS	P	0 - 30
LFB	Gamma-Chlordane	12.7	LCS	P	0 - 30
LFB	Heptachlor	14.9	LCS	P	0 - 30
LFB	Heptachlor Epoxide	11.9	LCS	P	0 - 30
LFB	Methoxychlor	6.90	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P340939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	11.7	LCS	P	0 - 30
LFB	Permethrin	8.47	LCS	P	0 - 30
LFB	Trifluralin	11.2	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P340974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970458	Acetochlor	7.74	Spike	P	0 - 30
1970458	Alachlor	2.45	Spike	P	0 - 30
1970458	Ametryn	1.60	Spike	P	0 - 30
1970458	Atrazine	11.0	Spike	P	0 - 30
1970458	Atrazine Desethyl	7.47	Spike	P	0 - 30
1970458	Azinphos Methyl	21.5	Spike	P	0 - 30
1970458	Bromacil	10.3	Spike	P	0 - 30
1970458	Butylate	18.3	Spike	P	0 - 30
1970458	Chlorpyrifos Ethyl	8.41	Spike	P	0 - 30
1970458	Chlorpyrifos Methyl	8.44	Spike	P	0 - 30
1970458	Cyanazine	11.3	Spike	P	0 - 30
1970458	Demeton	3.09	Spike	P	0 - 30
1970458	Diazinon	6.86	Spike	P	0 - 30
1970458	Disulfoton	9.02	Spike	P	0 - 30
1970458	EPTC	19.4	Spike	P	0 - 30
1970458	Ethion	7.24	Spike	P	0 - 30
1970458	Ethoprop	9.87	Spike	P	0 - 30
1970458	Fenamiphos	15.3	Spike	P	0 - 30
1970458	Fipronil	10.9	Spike	P	0 - 30
1970458	Fipronil Sulfide	9.95	Spike	P	0 - 30
1970458	Fipronil Sulfone	12.3	Spike	P	0 - 30
1970458	Fonofos	10.2	Spike	P	0 - 30
1970458	Hexazinone	2.85	Spike	P	0 - 30
1970458	Malathion	12.9	Spike	P	0 - 30
1970458	Metalaxyl	12.9	Spike	P	0 - 30
1970458	Metolachlor	6.53	Spike	P	0 - 30
1970458	Metribuzin	5.67	Spike	P	0 - 30
1970458	Mevinphos	16.7	Spike	P	0 - 30
1970458	Molinate	16.3	Spike	P	0 - 30
1970458	Norflurazon	12.6	Spike	P	0 - 30
1970458	Parathion Ethyl	9.65	Spike	P	0 - 30
1970458	Parathion Methyl	12.7	Spike	P	0 - 30
1970458	Pendimethalin	6.31	Spike	P	0 - 30
1970458	Phorate	8.56	Spike	P	0 - 30
1970458	Prometon	6.41	Spike	P	0 - 30
1970458	Prometryn	5.13	Spike	P	0 - 30
1970458	Simazine	8.31	Spike	P	0 - 30
1970458	Terbufos	8.51	Spike	P	0 - 30
1970458	Terbuthylazine	5.72	Spike	P	0 - 30
LFB	Acetochlor	4.16	LCS	P	0 - 30
LFB	Alachlor	4.82	LCS	P	0 - 30
LFB	Ametryn	10.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P340974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Atrazine	7.49	LCS	P	0 - 30
LFB	Atrazine Desethyl	1.96	LCS	P	0 - 30
LFB	Azinphos Methyl	4.84	LCS	P	0 - 30
LFB	Bromacil	27.9	LCS	P	0 - 30
LFB	Butylate	3.39	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	8.17	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	6.89	LCS	P	0 - 30
LFB	Cyanazine	0.141	LCS	P	0 - 30
LFB	Demeton	18.8	LCS	P	0 - 30
LFB	Diazinon	4.70	LCS	P	0 - 30
LFB	Disulfoton	19.4	LCS	P	0 - 30
LFB	EPTC	2.08	LCS	P	0 - 30
LFB	Ethion	1.60	LCS	P	0 - 30
LFB	Ethoprop	4.19	LCS	P	0 - 30
LFB	Fenamiphos	6.93	LCS	P	0 - 30
LFB	Fipronil	5.79	LCS	P	0 - 30
LFB	Fipronil Sulfide	8.21	LCS	P	0 - 30
LFB	Fipronil Sulfone	6.53	LCS	P	0 - 30
LFB	Fonofos	4.02	LCS	P	0 - 30
LFB	Hexazinone	6.69	LCS	P	0 - 30
LFB	Malathion	3.73	LCS	P	0 - 30
LFB	Metalaxyl	7.06	LCS	P	0 - 30
LFB	Metolachlor	4.98	LCS	P	0 - 30
LFB	Metribuzin	11.2	LCS	P	0 - 30
LFB	Mevinphos	5.03	LCS	P	0 - 30
LFB	Molinate	1.26	LCS	P	0 - 30
LFB	Norflurazon	5.21	LCS	P	0 - 30
LFB	Parathion Ethyl	6.78	LCS	P	0 - 30
LFB	Parathion Methyl	3.80	LCS	P	0 - 30
LFB	Pendimethalin	6.99	LCS	P	0 - 30
LFB	Phorate	9.03	LCS	P	0 - 30
LFB	Prometon	5.37	LCS	P	0 - 30
LFB	Prometryn	6.53	LCS	P	0 - 30
LFB	Simazine	4.33	LCS	P	0 - 30
LFB	Terbufos	8.77	LCS	P	0 - 30
LFB	Terbuthylazine	6.32	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P340939

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971482	Chlordane	4.05	Spike	P	0 - 30
1971482	Toxaphene	5.48	Spike	P	0 - 30
LFB	Chlordane	16.9	LCS	P	0 - 30
LFB	Toxaphene	7.91	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P340878

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971373	AMPA	3.05	Spike	P	0 - 30
1971373	Glyphosate	8.08	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P340883

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1972049	2,4-D	0.162	Spike	P	0 - 30
1972049	3-Hydroxycarbofuran	1.97	Spike	P	0 - 30
1972049	Acetaminophen	2.37	Spike	P	0 - 30
1972049	Aldicarb	6.10	Spike	P	0 - 30
1972049	Aldicarb Sulfone	2.78	Spike	P	0 - 30
1972049	Aldicarb Sulfoxide	0.871	Spike	P	0 - 30
1972049	Bentazon	2.71	Spike	P	0 - 30
1972049	Carbamazepine	1.32	Spike	P	0 - 30
1972049	Carbaryl	4.05	Spike	P	0 - 30
1972049	Carbofuran	1.95	Spike	P	0 - 30
1972049	Diuron	1.26	Spike	P	0 - 30
1972049	Fenuron	10.2	Spike	P	0 - 30
1972049	Fluridone	0.0788	Spike	P	0 - 30
1972049	Imazapyr	13.5	Spike	P	0 - 30
1972049	Imidacloprid	1.62	Spike	P	0 - 30
1972049	Linuron	6.78	Spike	P	0 - 30
1972049	MCPP	3.48	Spike	P	0 - 30
1972049	Methiocarb	7.61	Spike	P	0 - 30
1972049	Methomyl	7.62	Spike	P	0 - 30
1972049	Oxamyl	2.13	Spike	P	0 - 30
1972049	Primidone	11.7	Spike	P	0 - 30
1972049	Propoxur	1.30	Spike	P	0 - 30
1972049	Pyraclostrobin	2.97	Spike	P	0 - 30
1972049	Triclopyr	11.9	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P340984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971431	Sucralose	5.28	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P340896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971396	Color (true)	4.90	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2120 B
Batch ID: P340897

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971465	Color (true)	1.18	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P341336

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971311	Total Alkalinity	0.476	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P341464

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971302	TDS	5.05	Sample	P	0 - 10

Reference Method: SM 2540 C-97
Batch ID: P341465

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971408	TDS	6.33	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P341527

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971311	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P341045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1971306	Organic Carbon	0.929	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: 1971480
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	40.4	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1971481
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	58.2	P	30 - 160
EPA 8321B	2,4-D-d3	58.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Acetaminophen-d4	115	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.8	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.8	P	30 - 160
EPA 8321B	Diuron-d6	57.7	P	30 - 160
EPA 8321B	Diuron-d6	57.7	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	85.0	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	85.0	P	40 - 160
EPA 8321B	Primidone-d5	98.0	P	30 - 160
EPA 8321B	Primidone-d5	98.0	P	30 - 160
EPA 8321B	Sucralose-d6	118	P	40 - 160

Lab Sample ID: 1971482
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	84.0	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	58.2	P	34 - 101
EPA 8276	Decachlorobiphenyl	68.5	P	31 - 108
EPA 8276	PCNB	125	P	62 - 142

Lab Sample ID: 1971483
Field Sample ID: 21030152

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	107	P	71 - 126
EPA 8270D	Terbufos-d10	94.7	P	50 - 130

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A82409
Included Lab Sample IDs: 1971461, 1971462, 1971463, 1971464, 1971467

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

Reference Method: SM 2120 B
Run ID: A82410
Included Lab Sample IDs: 1971453, 1971454, 1971455, 1971456, 1971465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.3	99.3	P/P	85 - 115
Color (true)	99.3	101	P/P	85 - 115

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A82411

Included Lab Sample IDs: 1971453, 1971454, 1971455, 1971456, 1971465

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A82428

Included Lab Sample IDs: 1971457, 1971458, 1971459, 1971460, 1971466

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82464

Included Lab Sample IDs: 1971457, 1971458, 1971459, 1971460, 1971466

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

Reference Method: SM 5310 B-00

Run ID: A82470

Included Lab Sample IDs: 1971457, 1971458, 1971459, 1971460, 1971466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.7	95.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A82477

Included Lab Sample IDs: 1971457, 1971458, 1971459, 1971460, 1971466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	99.0	P/P	90 - 110
Kjeldahl Nitrogen	99.0	105	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A82481

Included Lab Sample IDs: 1971481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	71.7	70.9	P/P	70 - 130
Glyphosate	93.3	110	P/P	70 - 160

Reference Method: EPA 8321B

Run ID: A82499

Included Lab Sample IDs: 1971481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	100	100	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A82509

Included Lab Sample IDs: 1971453, 1971454, 1971455, 1971456

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	97.3	P/P	90 - 110
Chloride	95.8	100	P/P	90 - 110
Sulfate	102	98.6	P/P	90 - 110
Sulfate	96.8	102	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A82512

Included Lab Sample IDs: 1971484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	103	102	P/P	90 - 110
Iron	104	102	P/P	90 - 110
Magnesium	105	103	P/P	90 - 110
Potassium	103	103	P/P	90 - 110
Sodium	102	101	P/P	90 - 110
Zinc	100	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A82515

Included Lab Sample IDs: 1971457, 1971458, 1971459, 1971460, 1971466

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A82540

Included Lab Sample IDs: 1971484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	98.3	97.8	P/P	90 - 110
Cadmium	99.2	99.0	P/P	90 - 110
Chromium	95.0	94.3	P/P	90 - 110
Silver	101	101	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A82543

Included Lab Sample IDs: 1971453, 1971454, 1971455, 1971456, 1971465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.4	96.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A82580

Included Lab Sample IDs: 1971481

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.7	93.1	P/P	50 - 150
3-Hydroxycarbofuran	100	99.5	P/P	60 - 150
Acetaminophen	93.6	98.4	P/P	60 - 150
Aldicarb	103	93.1	P/P	60 - 150
Aldicarb Sulfone	99.1	97.2	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A82580
Included Lab Sample IDs: 1971480

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldicarb Sulfoxide	94.4	101	P/P	50 - 150
Bentazon	139	127	P/P	50 - 150
Carbamazepine	102	97.6	P/P	60 - 150
Carbaryl	111	109	P/P	60 - 150
Carbofuran	115	116	P/P	50 - 150
Diuron	102	88.6	P/P	60 - 150
Fenuron	94.7	95.6	P/P	60 - 150
Fluridone	109	109	P/P	60 - 160
Imazapyr	79.4	79.8	P/P	50 - 150
Imidacloprid	105	91.5	P/P	60 - 150
Linuron	112	107	P/P	60 - 150
MCPP	94.3	99.2	P/P	50 - 150
Methiocarb	105	106	P/P	50 - 150
Methomyl	98.1	107	P/P	50 - 150
Oxamyl	94.9	105	P/P	50 - 150
Primidone	92.8	97.2	P/P	60 - 150
Propoxur	104	110	P/P	50 - 150
Pyraclostrobin	104	96.2	P/P	60 - 150
Triclopyr	83.7	96.4	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A82593
Included Lab Sample IDs: 1971482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	101		P	80 - 120
Toxaphene	104		P	80 - 120

Reference Method: SM 4500 F-C-97
Run ID: A82604
Included Lab Sample IDs: 1971453, 1971454, 1971455, 1971456, 1971465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.0	101	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A82622
Included Lab Sample IDs: 1971465

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

Reference Method: EPA 8270D
Run ID: A82659
Included Lab Sample IDs: 1971482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A82659

Included Lab Sample IDs: 1971482

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beta-BHC	90.3		P	80 - 120
Carbophenothion	84.4		P	80 - 120
Chlorothalonil	99.2		P	80 - 120
Cypermethrin	82.7		P	80 - 120
DDD-p,p'	99.9		P	80 - 120
DDE-p,p'	101		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	97.0		P	80 - 120
Dicofol	102		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	93.7		P	80 - 120
Endosulfan II	107		P	80 - 120
Endosulfan Sulfate	94.9		P	80 - 120
Endrin	102		P	80 - 120
Endrin Aldehyde	93.7		P	80 - 120
Endrin Ketone	92.8		P	80 - 120
Gamma-BHC	98.5		P	80 - 120
Gamma-Chlordane	99.3		P	80 - 120
Heptachlor	97.2		P	80 - 120
Heptachlor Epoxide	99.8		P	80 - 120
Methoxychlor	103		P	80 - 120
Mirex	97.6		P	80 - 120
Permethrin	92.3		P	80 - 120
Trifluralin	99.0		P	80 - 120

Reference Method: EPA 8270D

Run ID: A82686

Included Lab Sample IDs: 1971483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	99.0		P	80 - 120
Alachlor	101		P	80 - 120
Ametryn	95.8		P	80 - 120
Atrazine	93.0		P	80 - 120
Atrazine Desethyl	97.6		P	80 - 120
Azinphos Methyl	101		P	80 - 120
Bromacil	97.9		P	80 - 120
Butylate	97.2		P	80 - 120
Chlorpyrifos Ethyl	97.5		P	80 - 120
Chlorpyrifos Methyl	98.6		P	80 - 120
Cyanazine	103		P	80 - 120
Demeton	95.1		P	80 - 120
Diazinon	97.3		P	80 - 120
Disulfoton	95.7		P	80 - 120
EPTC	98.7		P	80 - 120
Ethion	93.3		P	80 - 120
Ethoprop	101		P	80 - 120
Fenamiphos	97.8		P	80 - 120
Fipronil	96.0		P	80 - 120
Fipronil Sulfide	96.4		P	80 - 120
Fipronil Sulfone	95.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A82686
Included Lab Sample IDs: 1971483

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fonofos	97.6		P	80 - 120
Hexazinone	93.2		P	80 - 120
Malathion	99.5		P	80 - 120
Metalaxyl	100		P	80 - 120
Metolachlor	104		P	80 - 120
Metribuzin	103		P	80 - 120
Mevinphos	96.6		P	80 - 120
Molinate	98.4		P	80 - 120
Norflurazon	96.5		P	80 - 120
Parathion Ethyl	91.9		P	80 - 120
Parathion Methyl	94.2		P	80 - 120
Pendimethalin	99.1		P	80 - 120
Phorate	95.4		P	80 - 120
Prometon	97.9		P	80 - 120
Prometryn	101		P	80 - 120
Simazine	96.3		P	80 - 120
Terbufos	97.2		P	80 - 120
Terbutylazine	98.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A82878
Included Lab Sample IDs: 1971484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Lead	95.5	95.4	P/P	90 - 110
Nickel	94.2	94.6	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4
Run ID: A83056
Included Lab Sample IDs: 1971484

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	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 SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				6.11	
	Turbidity				0.910	
EPA 200.7 Rev. 4.4	Calcium	99.4	99.8	101		1.22
	Iron	107	107	108	109	1.24
	Magnesium	103	104	101		1.74
	Potassium	102	101	101		1.70
	Sodium	99.6	100	100		1.39

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			Precision SMP	MS
EPA 200.7 Rev. 4.4	Zinc	98.8		99.9	93.8	99.7		6.12
EPA 200.8 Rev. 5.4	Arsenic	103		102	100	101		0.990
	Cadmium	106		106	104	104		0.0614
	Chromium	103		98.7	96.3	97.5		1.20
	Copper	107		99.0	96.9	101		3.82
	Lead	100		100	101	101		0.547
	Nickel	101		96.2	96.4	94.1		0.199
	Silver	103		101	102	101		0.496
EPA 300.0 Rev. 2.1	Chloride	97.1		96.9	97.6		3.92	
	Chloride	99.5		94.0	101		4.53	
	Sulfate	98.0		97.4	98.2		5.09	
	Sulfate	100		97.5	101		5.15	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6		97.7	98.9			0.973
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		95.9	100			2.46
EPA 353.2 Rev. 2.0	NO2NO3-N	100		102	102			0.258
	NO2NO3-N	100		94.3	93.3			1.01
EPA 365.1 Rev. 2.0	Total-P	97.4		93.2	97.2			2.54
	Total-P	101		101	96.6			1.81
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102		94.3	95.8			1.50
EPA 8270D	Acetochlor	93.7	97.7	100	92.9	4.16		7.74
	Alachlor	95.6	100	100	97.8	4.82		2.45
	Aldrin	73.4	62.9	71.3	59.5	15.4		18.1
	Alpha-BHC	95.2	83.9	84.1	74.6	12.5		12.0
	Alpha-Chlordane	95.1	84.3	92.3	77.1	12.1		17.9
	Ametryn	94.2	84.6	109	107	10.8		1.60
	Atrazine	96.6	104			7.49		11.0
	Atrazine Desethyl	116	118	124	112	1.96		7.47
	Azinphos Methyl	113	118	126	101	4.84		21.5
	Beta-BHC	114	106	94.6	97.4	7.23		2.87
	Bromacil	39.3	52.1	94.6	81.2	27.9		10.3
	Butylate	63.3	61.2	70.1	58.3	3.39		18.3
	Carbophenothion	86.4	84.3	140	98.2	2.43		35.0
	Chlorothalonil	132	81.6	182	108	47.2		50.8
	Chlorpyrifos Ethyl	91.8	99.7	102	93.7	8.17		8.41
	Chlorpyrifos Methyl	98.1	105	109	99.8	6.89		8.44
	Cyanazine	252	253	234	209	0.141		11.3
	Cypermethrin	94.8	84.7	95.9	81.2	11.3		16.6
	DDD-p,p'	108	102	105	87.8	5.63		17.7
	DDE-p,p'	94.3	83.6	84.7	77.1	12.0		9.46
	DDT-p,p'	95.8	87.5	89.4	75.2	9.12		17.2
	Delta-BHC	122	128	113	111	5.54		1.85
	Demeton	75.2	90.8	82.0	79.5	18.8		3.09
	Diazinon	98.4	103	109	102	4.70		6.86
	Dicofol	89.9	80.4	81.3	75.8	11.2		6.94
	Dieldrin	99.8	88.8	92.3	79.0	11.7		11.2
	Disulfoton	78.2	95.0	88.9	81.2	19.4		9.02
	Endosulfan I	91.5	86.6	116	78.6	5.50		38.5
	Endosulfan II	124	116	141	99.3	6.38		34.5
	Endosulfan Sulfate	116	101	106	93.5	13.7		12.9
	Endrin	96.1	86.6	93.7	73.7	10.4		23.9
	Endrin Aldehyde	101	90.5	14.3	64.4	11.0		127
	Endrin Ketone	109	96.1	102	89.3	13.0		12.8
	EPTC	61.4	60.1	69.5	57.2	2.08		19.4
	Ethion	87.8	86.4	89.9	83.7	1.60		7.24

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Ethoprop	97.9	102	113	102	4.19	9.87
	Fenamiphos	94.8	102	102	87.9	6.93	15.3
	Fipronil	96.1	102	106	92.9	5.79	10.9
	Fipronil Sulfide	93.8	102	108	94.4	8.21	9.95
	Fipronil Sulfone	88.6	94.6			6.53	12.3
	Fonofos	94.7	98.6	107	96.7	4.02	10.2
	Gamma-BHC	102	89.2	103	82.4	13.2	22.0
	Gamma-Chlordane	92.2	81.2	90.9	75.8	12.7	18.1
	Heptachlor	77.1	66.5	74.8	61.4	14.9	19.8
	Heptachlor Epoxide	96.8	85.9	93.9	79.3	11.9	14.3
	Hexazinone	110	118	110	107	6.69	2.85
	Malathion	91.6	95.0	106	92.8	3.73	12.9
	Metalaxyl	94.3	101	107	93.7	7.06	12.9
	Methoxychlor	99.8	93.2	92.5	81.0	6.90	13.2
	Metolachlor	95.9	101	102	95.3	4.98	6.53
	Metribuzin	169	189	227	215	11.2	5.67
	Mevinphos	84.5	88.9	101	85.2	5.03	16.7
	Mirex	77.0	68.5	76.8	66.4	11.7	14.5
	Molinate	67.0	67.9	74.3	63.1	1.26	16.3
	Norflurazon	90.3	95.1	100	88.4	5.21	12.6
	Parathion Ethyl	92.0	98.5	104	94.5	6.78	9.65
	Parathion Methyl	100	104	114	101	3.80	12.7
	Pendimethalin	104	112	120	112	6.99	6.31
	Permethrin	94.9	87.2	97.5	87.8	8.47	10.5
	Phorate	84.4	92.3	97.2	89.3	9.03	8.56
	Prometon	87.4	92.2	102	95.7	5.37	6.41
	Prometryn	93.9	100	101	95.7	6.53	5.13
	Simazine	105	110			4.33	8.31
	Terbufos	90.3	98.6	104	95.1	8.77	8.51
	Terbutylazine	96.3	103	106	100	6.32	5.72
	Trifluralin	81.8	73.1	77.2	66.9	11.2	14.4
EPA 8276	Chlordane	79.1	66.7	76.9	73.8	16.9	4.05
	Toxaphene	87.8	81.2	84.6	80.1	7.91	5.48
EPA 8321B	2,4-D	81.0		44.4	44.3		0.162
	3-Hydroxycarbofuran	91.5		92.1	90.3		1.97
	Acetaminophen	91.3		119	117		2.37
	Aldicarb	79.3		66.6	70.8		6.10
	Aldicarb Sulfone	92.7		110	113		2.78
	Aldicarb Sulfoxide	94.9		86.9	87.6		0.871
	AMPA	104		81.5	78.3		3.05
	Bentazon	103		27.9	28.9		2.71
	Carbamazepine	78.8		74.3	75.3		1.32
	Carbaryl	66.7		53.7	56.0		4.05
	Carbofuran	77.3		59.9	61.0		1.95
	Diuron	65.0		55.3	56.0		1.26
	Fenuron	95.5		67.5	74.7		10.2
	Fluridone	66.0		59.9	59.9		0.0788
	Glyphosate	102		95.8	87.4		8.08
	Imazapyr	63.3		52.1	37.9		13.5
	Imidacloprid	89.3		164	161		1.62
	Linuron	73.6		77.1	72.0		6.78
	MCPP	83.2		30.8	31.9		3.48
	Methiocarb	72.3		71.7	66.4		7.61
	Methomyl	98.0		87.9	81.4		7.62

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Oxamyl	87.1	74.9	76.5		2.13
	Primidone	100	81.4	91.4		11.7
	Propoxur	73.4	55.7	56.4		1.30
	Pyraclostrobin	67.9	59.3	61.1		2.97
	Sucralose	100	98.3	104		5.28
	Triclopyr	77.5	40.0	45.0		11.9
SM 2120 B	Color (true)				4.90	
	Color (true)				1.18	
SM 2320 B-97	Total Alkalinity	99.0			0.476	
SM 2540 C-97	TDS				5.05	
	TDS				6.33	
SM 4500 F-C-97	Fluoride	97.6	96.0	96.0		0.0
SM 5310 B-00	Organic Carbon	95.6	94.0	95.6		0.929

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1971453, 1971454, 1971455, 1971456, 1971465
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1971484
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1971484
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1971453, 1971454, 1971455, 1971456, 1971465
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1971453, 1971454, 1971455, 1971456, 1971465
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1971457, 1971458, 1971459, 1971460, 1971466
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1971457, 1971458, 1971459, 1971460, 1971466
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1971457, 1971458, 1971459, 1971460, 1971466
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1971457, 1971458, 1971459, 1971460, 1971466
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1971461, 1971462, 1971463, 1971464, 1971467
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1971482
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1971483
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1971482
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	1971480
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1971481
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1971481
SM 2120 B / E31780	True Color measured at 450 nm	1971453, 1971454, 1971455, 1971456, 1971465
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	1971453, 1971454, 1971455, 1971456, 1971465
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1971453, 1971454, 1971455, 1971456, 1971465
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1971453, 1971454, 1971455, 1971456, 1971465
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1971453, 1971454, 1971455, 1971456, 1971465
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1971457, 1971458, 1971459, 1971460, 1971466

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	03/02/2018			03/02/2018 14:59	Tanya Welborn	1971453, 1971454, 1971455, 1971456, 1971465
EPA 200.7 Rev. 4.4	03/02/2018	03/05/2018	Elliott D. Healy	03/08/2018	Betina Topolski	1971484
EPA 200.8 Rev. 5.4	03/02/2018	03/05/2018	Elliott D. Healy	03/09/2018	Nadine Brooks	1971484
	03/02/2018	03/19/2018	Elliott D. Healy	03/27/2018	Robert K Palmer	1971484
	03/02/2018	03/29/2018	Elliott D. Healy	04/03/2018	Robert K Palmer	1971484
EPA 300.0 Rev. 2.1	03/02/2018			03/08/2018	Julia Storbeck	1971453, 1971454, 1971455, 1971456
	03/02/2018			03/14/2018	Julia Storbeck	1971465
EPA 350.1 Rev. 2.0	03/02/2018			03/08/2018	Ping Hua	1971457, 1971458, 1971459, 1971460, 1971466
EPA 351.2 Rev. 2.0	03/02/2018	03/06/2018	Adrian Shelby	03/07/2018	Joseph Suarez	1971457, 1971458, 1971459, 1971460, 1971466
EPA 353.2 Rev. 2.0	03/02/2018			03/05/2018	Lauren Bottorf	1971457, 1971458, 1971459, 1971460, 1971466
EPA 365.1 Rev. 2.0	03/02/2018	03/06/2018	Sima Feizi	03/07/2018	Beverly Y. Sanders	1971457, 1971458, 1971459, 1971460, 1971466
EPA 365.1 Rev. 2.0 dissolved	03/02/2018			03/02/2018 15:38	Julia Storbeck	1971464
	03/02/2018			03/02/2018 15:50	Julia Storbeck	1971461
	03/02/2018			03/02/2018 15:51	Julia Storbeck	1971462
	03/02/2018			03/02/2018 15:52	Julia Storbeck	1971463
	03/02/2018			03/02/2018 15:55	Julia Storbeck	1971467
EPA 8270D	03/02/2018	03/05/2018	Rasheda Ghaffari	03/09/2018	Vandana T. Nagar	1971482
EPA 8276	03/02/2018	03/05/2018	Rasheda Ghaffari	03/13/2018	John P. Burgos	1971482
EPA 8321B	03/02/2018	03/07/2018	Hoor Shaik	03/08/2018	Julie Michelle Frank	1971480
	03/02/2018	03/07/2018	Hoor Shaik	03/09/2018	Julie Michelle Frank	1971481
	03/02/2018	03/07/2018	Julie Michelle Frank	03/07/2018	Julie Michelle Frank	1971481
	03/02/2018	03/07/2018	Julie Michelle Frank	03/07/2018	Juyoung Kim	1971481
SM 2120 B	03/02/2018			03/02/2018 16:27	Tanya Welborn	1971453
	03/02/2018			03/02/2018 16:33	Tanya Welborn	1971465
	03/02/2018			03/02/2018 16:35	Tanya Welborn	1971454
	03/02/2018			03/02/2018 16:36	Tanya Welborn	1971455
	03/02/2018			03/02/2018 16:37	Tanya Welborn	1971456
SM 2320 B-97	03/02/2018			03/09/2018	Lauren Bottorf	1971453, 1971454, 1971455, 1971456, 1971465
SM 2540 C-97	03/02/2018			03/07/2018	Yijie Li	1971453, 1971454, 1971455, 1971456, 1971465
SM 2540 D-97	03/02/2018			03/07/2018	Yijie Li	1971453, 1971454, 1971455, 1971456, 1971465
SM 4500 F-C-97	03/02/2018			03/14/2018	Dale L. Simmons	1971453, 1971454, 1971455, 1971456, 1971465
SM 5310 B-00	03/02/2018			03/07/2018	Megan Treadwell	1971457, 1971458, 1971459, 1971460, 1971466