

Chemical Analysis Report

NE-DIST-2019-08-13-02

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

Event Description: **Di water check-NE ROC**
Request ID: **RQ-2019-08-12-59**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
Jacksonville, FL 32256-7577
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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 30-AUG-2019 10:39



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: NE ROC DI Source

Collection Date/Time: 08/12/2019 13:00

Field ID: NE ROC DI Source

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2110991	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P368959	
	EPA 300.0	Bromide	0.013	U	mg Br/L	P369434	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P369493	
		Sulfate	0.20	U	mg SO4/L	P369496	
	SM 2120 B	Color (true)	2.5	U	PCU	P368965	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P369442	
	SM 2540 C-97	TDS	15	U	mg/L	P369330	
	SM 2540 D-97	TSS	2	U	mg/L	P369350	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P369445	
2110992	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P369250	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P369223	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P369035	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P369028	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P369053	
2110993	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P368972	
2111004	EPA 8321B	Aldicarb	0.020	U	ug/L	P368762	
		Aldicarb Sulfone	0.0020	U	ug/L	P368762	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P368762	
		Carbaryl	0.0020	U	ug/L	P368762	
		Carbofuran	0.0020	U	ug/L	P368762	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P368762	
		Methiocarb	0.0020	U	ug/L	P368762	
		Methomyl	0.0020	U	ug/L	P368762	
		Oxamyl	0.0020	U	ug/L	P368762	
		Propoxur	0.0020	U	ug/L	P368762	
		2,4-D	0.0020	U	ug/L	P369089	
		Acesulfame K**	0.10	U	ug/L	P369116	
		AMPA**	0.10	U	ug/L	P369116	
2111005		Sucralose**	0.010	U	ug/L	P369116	
		Acetaminophen**	0.0080	U	ug/L	P369089	
		Endothall**	0.25	U	ug/L	P369116	
		Acetamiprid**	0.0020	U	ug/L	P369089	
		Glufosinate**	0.10	U	ug/L	P369116	
		Glyphosate**	0.10	U	ug/L	P369116	
		Afidopyropen**	0.0020	UJ	ug/L	P369089	
		Bentazon	8.0E-04	U	ug/L	P369089	
		Benzovindiflupyr**	0.0020	UJ	ug/L	P369089	RPD
		Carbamazepine**	8.0E-04	U	ug/L	P369089	
		Clothianidin**	0.0020	U	ug/L	P369089	
		Dinotefuran**	0.0020	U	ug/L	P369089	
		Diuron	0.0020	U	ug/L	P369089	
		Fenuron	0.016	U	ug/L	P369089	
		Fluridone**	8.0E-04	U	ug/L	P369089	

Field ID: NE ROC DI Source

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111005	EPA 8321B	Imazapyr**	0.0040	U	ug/L	P369089	
		Hydrocodone**	0.0020	U	ug/L	P369089	
		Ibuprofen**	0.020	U	ug/L	P369089	
		Imidacloprid	0.0020	U	ug/L	P369089	
		Linuron	0.0040	U	ug/L	P369089	
		Mandestrobin**	0.0020	UJ	ug/L	P369089	
		MCP	0.0020	U	ug/L	P369089	
		Naproxen**	0.0080	U	ug/L	P369089	RPD
		Primidone**	0.0040	U	ug/L	P369089	
		Pyraclostrobin**	0.0020	U	ug/L	P369089	RPD
		Thiamethoxam**	0.0020	U	ug/L	P369089	
		Tolfenpyrad**	0.0020	UJ	ug/L	P369089	LCS, MS
		Triclopyr**	0.0040	U	ug/L	P369089	
2111006	EPA 8270E	Aldrin	4.2	U	ng/L	P368901	
		Alpha-BHC	2.1	UJ	ng/L	P368901	LCS, MS
		Alpha-Chlordane	1.1	U	ng/L	P368901	
		Beta-BHC	11	U	ng/L	P368901	
		Bifenthrin**	4.2	U	ng/L	P368901	
		Delta-BHC	8.4	U	ng/L	P368901	
		Gamma-BHC	8.4	U	ng/L	P368901	
		Carbophenothion	11	U	ng/L	P368901	
		Chlorothalonil	2.1	U	ng/L	P368901	
		Cis-Nonachlor**	1.1	U	ng/L	P368901	
		Cypermethrin	21	U	ng/L	P368901	
		DDD-p,p'	6.3	U	ng/L	P368901	
		DDE-p,p'	6.3	U	ng/L	P368901	
		DDT-p,p'	7.4	U	ng/L	P368901	
		Dicofol	32	U	ng/L	P368901	
		Dieldrin	4.2	U	ng/L	P368901	
		Endosulfan I	4.2	U	ng/L	P368901	
		Endosulfan II	4.2	U	ng/L	P368901	
		Endosulfan Sulfate	2.1	U	ng/L	P368901	
		Endrin	2.1	U	ng/L	P368901	
		Endrin Aldehyde	2.1	U	ng/L	P368901	
		Endrin Ketone	2.1	U	ng/L	P368901	
		Ethalfuralin**	3.2	U	ng/L	P368901	
		Gamma-Chlordane	1.1	U	ng/L	P368901	
		Heptachlor	1.6	U	ng/L	P368901	
		Heptachlor Epoxide	2.1	U	ng/L	P368901	
		Hexachlorobenzene	2.1	U	ng/L	P368901	
		Methoxychlor	4.2	U	ng/L	P368901	
		Mirex	2.1	U	ng/L	P368901	
		Permethrin	11	U	ng/L	P368901	
		Trans-Nonachlor**	1.1	U	ng/L	P368901	
		Trifluralin	2.6	U	ng/L	P368901	

Field ID: NE ROC DI Source

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111006	EPA 8276	Chlordane	5.3	U	ng/L	P368901	
		Toxaphene	32	U	ng/L	P368901	
2111007	EPA 8270E	Acetochlor	0.25	U	ng/L	P369004	
		Alachlor	0.25	U	ng/L	P369004	
		Ametryn	0.61	U	ng/L	P369004	
		Atrazine	0.25	U	ng/L	P369004	
		Atrazine Desethyl	1.5	U	ng/L	P369004	
		Azinphos Methyl	5.1	U	ng/L	P369004	
		Bromacil	0.51	U	ng/L	P369004	
		Butylate	0.41	U	ng/L	P369004	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P369004	
		Chlorpyrifos Methyl	0.10	U	ng/L	P369004	
		Cyanazine	3.3	UJ	ng/L	P369004	CCV
		Demeton	7.1	U	ng/L	P369004	
		Diazinon	0.13	U	ng/L	P369004	
		Dimethenamid**	0.10	U	ng/L	P369004	
		Disulfoton	0.51	U	ng/L	P369004	
		Dithiopyr**	0.10	U	ng/L	P369004	
		EPTC	1.3	U	ng/L	P369004	
		Ethion	0.15	U	ng/L	P369004	
		Ethoprop	0.10	U	ng/L	P369004	
		Fenamiphos	0.51	U	ng/L	P369004	
		Fipronil	0.25	U	ng/L	P369004	
		Fipronil Desulfinyl**	0.13	U	ng/L	P369004	
		Fipronil Sulfide	0.15	U	ng/L	P369004	
		Fipronil Sulfone	0.15	U	ng/L	P369004	
		Fonofos	0.20	U	ng/L	P369004	
		Hexazinone	0.51	U	ng/L	P369004	
		Malathion	0.36	U	ng/L	P369004	
		Metalaxyl	0.31	U	ng/L	P369004	
		Metolachlor	0.51	U	ng/L	P369004	
		Metribuzin	0.76	UJ	ng/L	P369004	CCV
		Mevinphos	0.51	U	ng/L	P369004	
		Molinate	0.31	U	ng/L	P369004	
		Norflurazon	0.51	U	ng/L	P369004	
		Oxadiazon**	0.10	U	ng/L	P369004	
		Parathion Ethyl	0.25	U	ng/L	P369004	
		Parathion Methyl	0.56	U	ng/L	P369004	
		Pendimethalin	1.0	U	ng/L	P369004	
		Phorate	0.25	U	ng/L	P369004	
		Prodiamine**	0.18	U	ng/L	P369004	
		Prometon	0.92	U	ng/L	P369004	
		Prometryn	0.20	U	ng/L	P369004	
		Simazine	0.51	U	ng/L	P369004	
		Tebuconazole**	0.51	U	ng/L	P369004	

Field ID: NE ROC DI Source

Matrix: DI-WATER

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2111007	EPA 8270E	Terbufos	0.10	U	ng/L	P369004	
		Terbutylazine	0.43	U	ng/L	P369004	
2111013	EPA 200.7 Rev. 4.4	Barium	1.0	U	ug/L	P368944	
		Calcium	0.075	U	mg/L	P368944	
		Iron	30	U	ug/L	P368944	
		Magnesium	0.040	U	mg/L	P368944	
		Potassium	0.30	U	mg/L	P368944	
		Sodium	0.50	U	mg/L	P368944	
		Zinc	5.0	U	ug/L	P368944	
	EPA 200.8 Rev. 5.4	Aluminum	5.0	U	ug/L	P368944	
		Antimony	0.050	U	ug/L	P368944	
		Arsenic	0.050	U	ug/L	P368944	
		Boron**	2.0	U	ug/L	P368944	
		Cadmium	0.020	U	ug/L	P368944	
		Chromium	0.40	U	ug/L	P368944	
		Copper	0.40	U	ug/L	P368944	
		Lead	0.20	U	ug/L	P368944	
		Nickel	0.50	U	ug/L	P368944	
		Selenium	0.20	U	ug/L	P368944	
		Silver	0.010	U	ug/L	P368944	
		Thallium	0.10	U	ug/L	P368944	

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: J - second source check standards for some analytes were not available for analysis. MS accuracy for imidacloprid could not be assessed due to high concentration of parameter in the spiked sample. Matrix spike precision for tolfenpyad is not available due to low analyte recoveries. Refer to the narrative for an explanation of QC Codes.

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

EPA 8270E: MS accuracy for atrazine not assessed due to high content of this parameter 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: P368959

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368944

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: P368944

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0
Batch ID: P369434

Component	Result	Code	Units
Bromide	0.013	U	mg Br/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

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: P369250

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

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P369223

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

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P369035

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P369028

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P368972

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

Reference Method: EPA 8270E
 Batch ID: P368901

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	10	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	6.0	U	ng/L
DDE-p,p'	6.0	U	ng/L
DDT-p,p'	7.0	U	ng/L
Delta-BHC	8.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E
Batch ID: P368901

Component	Result	Code	Units
Gamma-BHC	8.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Reference Method: EPA 8270E
Batch ID: P369004

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P369004

Component	Result	Code	Units
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
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P368901

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

Reference Method: EPA 8321B
Batch ID: P368762

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

Reference Method: EPA 8321B
Batch ID: P369089

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyrophen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P369089

Component	Result	Code	Units
Mandestrobin	0.0020	U	ug/L
MCP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P369116

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: P368965

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P369442

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-97
Batch ID: P369330

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P369350

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P369445

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: P369053

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: P368944

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	105		P	85 - 115
Iron	106		P	85 - 115
Magnesium	108		P	85 - 115
Potassium	105		P	85 - 115
Sodium	102		P	85 - 115
Zinc	99.2		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368944

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	97.4		P	85 - 115
Antimony	98.7		P	85 - 115
Arsenic	102		P	85 - 115
Boron	99.6		P	85 - 115
Cadmium	98.2		P	85 - 115
Chromium	99.2		P	85 - 115
Copper	98.5		P	85 - 115
Lead	101		P	85 - 115
Nickel	101		P	85 - 115
Selenium	100		P	85 - 115
Silver	102		P	85 - 115
Thallium	101		P	85 - 115

Reference Method: EPA 300.0
Batch ID: P369434

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	97.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369250

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P369223

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	93.3		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P369035

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: P369028

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368972

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

Reference Method: EPA 8270E
Batch ID: P368901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.4	44.9	P/P	20 - 93.0
Alpha-BHC	126	110	F/P	57 - 119
Alpha-Chlordane	84.0	74.9	P/P	58 - 112
Beta-BHC	133	116	P/P	56 - 149
Bifenthrin	85.9	75.1	P/P	30 - 134
Carbophenothion	101	106	P/P	26 - 147
Chlorothalonil	153	128	P/P	20 - 155
Cis-Nonachlor	84.1	75.6	P/P	54 - 115
Cypermethrin	78.6	71.0	P/P	40 - 137
DDD-p,p'	93.9	85.6	P/P	65 - 129
DDE-p,p'	83.2	74.8	P/P	57 - 116
DDT-p,p'	116	107	P/P	53 - 133
Delta-BHC	149	130	P/P	59 - 163
Dicofol	91.1	85.6	P/P	24 - 138
Dieldrin	90.5	78.9	P/P	60 - 120
Endosulfan I	93.3	79.7	P/P	64 - 118
Endosulfan II	99.0	87.9	P/P	58 - 142
Endosulfan Sulfate	91.8	80.1	P/P	60 - 127
Endrin	108	93.4	P/P	59 - 122
Endrin Aldehyde	103	88.1	P/P	49 - 132
Endrin Ketone	91.4	80.1	P/P	64 - 121
Ethalfuralin	98.1	89.8	P/P	60 - 126
Gamma-BHC	133	115	P/P	56 - 141
Gamma-Chlordane	81.0	72.9	P/P	56 - 110
Heptachlor	74.8	66.4	P/P	46 - 96.0
Heptachlor Epoxide	88.1	77.4	P/P	61 - 112
Hexachlorobenzene	79.9	77.5	P/P	44 - 98.0
Methoxychlor	133	123	P/P	63 - 134

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P368901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Mirex	60.6	57.5	P/P	45 - 100
Permethrin	76.8	66.3	P/P	53 - 115
Trans-Nonachlor	77.7	70.8	P/P	47 - 110
Trifluralin	98.8	90.4	P/P	39 - 142

Reference Method: EPA 8270E
Batch ID: P369004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	96.9	98.7	P/P	69 - 122
Alachlor	91.7	93.7	P/P	71 - 120
Ametryn	100	94.1	P/P	47 - 138
Atrazine	108	107	P/P	74 - 124
Atrazine Desethyl	102	93.1	P/P	38 - 138
Azinphos Methyl	98.1	92.5	P/P	69 - 154
Bromacil	92.3	90.6	P/P	39 - 121
Butylate	77.8	70.3	P/P	27 - 87.0
Chlorpyrifos Ethyl	99.0	96.7	P/P	69 - 118
Chlorpyrifos Methyl	96.0	93.4	P/P	70 - 120
Cyanazine	153	151	P/P	20 - 250
Demeton	70.7	79.2	P/P	39 - 118
Diazinon	95.3	96.5	P/P	68 - 127
Dimethenamid	102	101	P/P	66 - 125
Disulfoton	63.6	71.2	P/P	52 - 126
Dithiopyr	93.9	94.5	P/P	67 - 127
EPTC	74.1	62.7	P/P	24 - 88.0
Ethion	85.8	79.8	P/P	51 - 132
Ethoprop	94.0	93.4	P/P	58 - 117
Fenamiphos	94.5	95.0	P/P	38 - 139
Fipronil	93.4	91.5	P/P	61 - 124
Fipronil Desulfinyl	92.2	82.6	P/P	47 - 120
Fipronil Sulfide	95.9	78.9	P/P	56 - 119
Fipronil Sulfone	89.4	85.6	P/P	50 - 117
Fonofos	91.7	90.4	P/P	60 - 121
Hexazinone	106	107	P/P	55 - 137
Malathion	110	101	P/P	66 - 126
Metalaxyl	94.7	95.4	P/P	33 - 140
Metolachlor	93.4	92.2	P/P	69 - 119
Metribuzin	177	140	P/P	31 - 238
Mevinphos	102	103	P/P	42 - 113
Molinate	83.0	79.4	P/P	32 - 96.0
Norflurazon	92.2	87.1	P/P	54 - 123
Oxadiazon	88.3	86.6	P/P	63 - 128
Parathion Ethyl	94.8	95.6	P/P	72 - 111
Parathion Methyl	97.7	102	P/P	74 - 126
Pendimethalin	84.0	83.8	P/P	61 - 131
Phorate	88.2	93.1	P/P	51 - 115
Prodiamine	65.1	63.2	P/P	38 - 144
Prometon	91.9	91.6	P/P	54 - 119
Prometryn	91.0	90.3	P/P	63 - 120
Simazine	108	109	P/P	75 - 126
Tebuconazole	66.1	57.6	P/P	20 - 119

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P369004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Terbufos	90.9	92.5	P/P	64 - 116
Terbutylazine	99.0	96.8	P/P	73 - 117

Reference Method: EPA 8276
Batch ID: P368901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.9	68.7	P/P	43 - 128
Toxaphene	73.9	74.2	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P368762

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	98.3		P	40 - 160
Aldicarb	66.5		P	30 - 160
Aldicarb Sulfone	92.9		P	40 - 160
Aldicarb Sulfoxide	89.3		P	40 - 160
Carbaryl	82.1		P	40 - 160
Carbofuran	81.1		P	40 - 160
Methiocarb	77.0		P	40 - 160
Methomyl	86.4		P	40 - 160
Oxamyl	96.6		P	40 - 160
Propoxur	78.0		P	40 - 160

Reference Method: EPA 8321B
Batch ID: P369089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	75.3		P	40 - 160
Acetaminophen	68.2		P	30 - 160
Acetamiprid	76.8		P	40 - 160
Afidopyropen	58.1		P	40 - 160
Bentazon	90.0		P	30 - 160
Benzovindiflupyr	80.4		P	40 - 160
Carbamazepine	80.0		P	40 - 160
Clothianidin	77.5		P	40 - 160
Dinotefuran	78.6		P	40 - 160
Diuron	84.1		P	40 - 160
Fenuron	87.2		P	40 - 160
Fluridone	80.9		P	40 - 160
Hydrocodone	86.3		P	40 - 160
Ibuprofen	65.9		P	30 - 160
Imazapyr	91.3		P	40 - 160
Imidacloprid	82.8		P	40 - 160
Linuron	69.4		P	40 - 160
Mandestrobin	75.8		P	40 - 160
MCPP	70.2		P	40 - 160
Naproxen	66.0		P	40 - 160
Primidone	79.3		P	40 - 160
Pyraclostrobin	56.0		P	30 - 160
Thiamethoxam	85.5		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P369089

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Tolfenpyrad	32.2		F	40 - 160
Triclopyr	46.6		P	30 - 160

Reference Method: EPA 8321B
Batch ID: P369116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	98.7		P	40 - 150
AMPA	88.1		P	40 - 150
Endothall	98.1		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	106		P	40 - 140
Sucralose	82.9		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P368965

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	100		P	85 - 115

Reference Method: SM 2320 B-97
Batch ID: P369442

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

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P369053

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.5		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110731	Barium	96.6	97.1	P/P	80 - 120
2110731	Calcium	107		P	80 - 120
2110731	Iron	109	106	P/P	80 - 120
2110731	Magnesium	109	105	P/P	80 - 120
2110731	Potassium	105	102	P/P	80 - 120
2110731	Sodium	103		P	80 - 120
2110731	Zinc	95.8	95.9	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110731	Aluminum	92.6	93.2	P/P	80 - 120
2110731	Antimony	97.9	98.8	P/P	80 - 120
2110731	Arsenic	100	100	P/P	80 - 120
2110731	Boron	98.8	100	P/P	80 - 120
2110731	Cadmium	101	101	P/P	80 - 120
2110731	Chromium	99.6	101	P/P	80 - 120
2110731	Copper	96.1	96.1	P/P	80 - 120
2110731	Lead	100	101	P/P	80 - 120
2110731	Nickel	98.6	98.4	P/P	80 - 120
2110731	Selenium	99.0	99.8	P/P	80 - 120
2110731	Silver	102	101	P/P	80 - 120
2110731	Thallium	101	102	P/P	80 - 120

Reference Method: EPA 300.0
Batch ID: P369434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111690	Bromide	98.0	96.8	P/P	90 - 110
2111695	Bromide	95.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110889	Chloride	97.8	98.8	P/P	90 - 110
2111205	Chloride	98.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110889	Sulfate	102	103	P/P	90 - 110
2111205	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369250

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110890	Ammonia-N	103	102	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P369223

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111042	Kjeldahl Nitrogen	87.7	89.8	F/F	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P369035

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110849	NO2NO3-N	96.5	97.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P369028

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110871	Total-P	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368972

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110891	O-Phosphate-P	98.9	99.4	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P368901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110557	Aldrin	56.0	51.9	P/P	25 - 92.0
2110557	Alpha-BHC	142	148	F/F	49 - 130
2110557	Alpha-Chlordane	80.9	84.1	P/P	50 - 115
2110557	Beta-BHC	132	119	P/P	43 - 157
2110557	Bifenthrin	89.1	97.2	P/P	46 - 116
2110557	Carbophenothion	117	137	P/P	27 - 180
2110557	Chlorothalonil	150	162	P/P	10 - 216
2110557	Cis-Nonachlor	79.6	82.8	P/P	55 - 112
2110557	Cypermethrin	85.8	86.7	P/P	40 - 153
2110557	DDD-p,p'	91.8	95.6	P/P	53 - 128
2110557	DDE-p,p'	79.9	84.7	P/P	48 - 116
2110557	DDT-p,p'	119	113	P/P	47 - 128
2110557	Delta-BHC	176	176	P/P	51 - 196
2110557	Dicofol	94.7	123	P/P	10 - 147
2110557	Dieldrin	84.7	89.8	P/P	48 - 128
2110557	Endosulfan I	98.8	98.9	P/P	58 - 126
2110557	Endosulfan II	137	130	P/P	50 - 150
2110557	Endosulfan Sulfate	90.4	108	P/P	56 - 130
2110557	Endrin	97.8	114	P/P	50 - 126
2110557	Endrin Aldehyde	94.6	97.3	P/P	12 - 145
2110557	Endrin Ketone	82.3	95.5	P/P	59 - 132
2110557	Ethalfuralin	101	107	P/P	65 - 122
2110557	Gamma-BHC	138	155	P/P	50 - 155
2110557	Gamma-Chlordane	78.5	81.2	P/P	50 - 112
2110557	Heptachlor	72.2	75.7	P/P	41 - 98.0
2110557	Heptachlor Epoxide	83.3	88.2	P/P	55 - 117
2110557	Hexachlorobenzene	84.4	84.0	P/P	47 - 91.0
2110557	Methoxychlor	130	129	P/P	55 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P368901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110557	Mirex	66.8	65.4	P/P	44 - 101
2110557	Permethrin	77.0	80.6	P/P	52 - 124
2110557	Trans-Nonachlor	73.1	76.0	P/P	53 - 99.0
2110557	Trifluralin	99.3	103	P/P	10 - 201

Reference Method: EPA 8270E
Batch ID: P369004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110513	Acetochlor	94.9	92.6	P/P	63 - 129
2110513	Alachlor	85.9	84.4	P/P	65 - 127
2110513	Ametryn	119	105	P/P	40 - 164
2110513	Atrazine Desethyl	70.6	77.5	P/P	14 - 157
2110513	Azinphos Methyl	80.6	70.1	P/P	49 - 180
2110513	Bromacil	91.3	90.8	P/P	48 - 130
2110513	Butylate	66.8	61.7	P/P	10 - 94.0
2110513	Chlorpyrifos Ethyl	80.6	80.3	P/P	58 - 123
2110513	Chlorpyrifos Methyl	83.1	78.9	P/P	58 - 125
2110513	Cyanazine	137	130	P/P	24 - 253
2110513	Demeton	88.9	85.5	P/P	25 - 149
2110513	Diazinon	97.9	93.7	P/P	59 - 144
2110513	Dimethenamid	93.8	90.8	P/P	46 - 139
2110513	Disulfoton	72.1	67.5	P/P	54 - 132
2110513	Dithiopyr	87.2	85.9	P/P	64 - 130
2110513	EPTC	62.0	56.9	P/P	10 - 92.0
2110513	Ethion	65.4	49.3	P/P	30 - 148
2110513	Ethoprop	89.5	84.8	P/P	50 - 130
2110513	Fenamiphos	98.9	118	P/P	49 - 142
2110513	Fipronil	88.9	88.7	P/P	46 - 140
2110513	Fipronil Desulfinyl	77.0	69.5	P/P	30 - 121
2110513	Fipronil Sulfide	75.5	68.1	P/P	31 - 136
2110513	Fipronil Sulfone	75.7	65.3	P/P	16 - 136
2110513	Fonofos	82.2	80.6	P/P	55 - 129
2110513	Hexazinone	86.8	84.7	P/P	56 - 141
2110513	Malathion	101	91.1	P/P	56 - 135
2110513	Metalaxyl	73.7	72.5	P/P	54 - 135
2110513	Metolachlor	94.4	87.5	P/P	51 - 140
2110513	Metribuzin	163	166	P/P	45 - 254
2110513	Mevinphos	99.2	96.9	P/P	33 - 131
2110513	Molinate	83.9	77.3	P/P	14 - 98.0
2110513	Norflurazon	78.5	77.8	P/P	34 - 136
2110513	Oxadiazon	73.0	68.2	P/P	67 - 116
2110513	Parathion Ethyl	91.4	84.8	P/P	66 - 118
2110513	Parathion Methyl	97.6	94.2	P/P	64 - 136
2110513	Pendimethalin	84.5	81.7	P/P	59 - 144
2110513	Phorate	88.5	78.8	P/P	42 - 130
2110513	Prodiamine	60.2	53.3	P/P	42 - 148
2110513	Prometon	102	93.7	P/P	59 - 134
2110513	Prometryn	74.4	77.5	P/P	54 - 135
2110513	Simazine	94.2	102	P/P	53 - 156
2110513	Tebuconazole	45.1	36.0	P/P	10 - 131
2110513	Terbufos	90.2	86.9	P/P	57 - 131

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P369004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110513	Terbutylazine	92.5	89.4	P/P	68 - 125

Reference Method: EPA 8276
 Batch ID: P368901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111048	Chlordane	89.0	91.4	P/P	34 - 136
2111048	Toxaphene	72.4	77.2	P/P	22 - 152

Reference Method: EPA 8321B
 Batch ID: P368762

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2109109	3-Hydroxycarbofuran	82.2	79.0	P/P	40 - 160
2109109	Aldicarb	53.2	54.1	P/P	30 - 160
2109109	Aldicarb Sulfone	95.5	99.5	P/P	40 - 160
2109109	Aldicarb Sulfoxide	51.7	55.6	P/P	40 - 160
2109109	Carbaryl	67.0	64.8	P/P	40 - 160
2109109	Carbofuran	64.8	61.3	P/P	40 - 160
2109109	Methiocarb	68.0	63.3	P/P	40 - 160
2109109	Methomyl	77.9	73.9	P/P	40 - 160
2109109	Oxamyl	84.1	84.3	P/P	40 - 160
2109109	Propoxur	63.3	62.2	P/P	40 - 160

Reference Method: EPA 8321B
 Batch ID: P369089

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111008	2,4-D	160	140	P/P	40 - 160
2111008	Acetaminophen	79.6	74.0	P/P	30 - 160
2111008	Acetamiprid	96.9	85.2	P/P	40 - 160
2111008	Afidopyropen	79.2	68.1	P/P	40 - 160
2111008	Bentazon	63.4	50.6	P/P	30 - 160
2111008	Benzovindiflupyr	46.4	90.4	P/P	40 - 160
2111008	Carbamazepine	93.6	76.7	P/P	40 - 160
2111008	Clothianidin	96.2	74.9	P/P	40 - 160
2111008	Dinotefuran	104	94.2	P/P	40 - 160
2111008	Diuron	91.6	81.2	P/P	40 - 160
2111008	Fenuron	89.0	82.8	P/P	40 - 160
2111008	Fluridone	75.5	76.1	P/P	40 - 160
2111008	Hydrocodone	101	97.9	P/P	40 - 160
2111008	Ibuprofen	82.8	83.5	P/P	30 - 160
2111008	Imazapyr	103	83.9	P/P	40 - 160
2111008	Linuron	71.3	64.7	P/P	40 - 160
2111008	Mandestrobin	80.7	76.4	P/P	40 - 160
2111008	MCP	160	152	P/P	40 - 160
2111008	Naproxen	110	74.4	P/P	40 - 160
2111008	Primidone	105	86.6	P/P	40 - 160
2111008	Pyraclostrobin	32.7	72.5	P/P	30 - 160
2111008	Thiamethoxam	140	133	P/P	40 - 160
2111008	Tolfenpyrad	0.0	54.8	F/P	40 - 160
2111008	Triclopyr	119	114	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P369116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110859	Acesulfame K	85.1	93.2	P/P	40 - 150
2110859	AMPA	90.6	85.8	P/P	40 - 150
2110859	Endothall	58.5	59.3	P/P	40 - 150
2110859	Glufosinate	103	98.0	P/P	40 - 150
2110859	Glyphosate	114	103	P/P	40 - 140
2110859	Sucralose	52.4	55.9	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2111620	Fluoride	96.3	96.9	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P369053

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2110817	Organic Carbon	99.9		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P368959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110952	Turbidity	6.07	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P368944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110731	Barium	0.433	Spike	P	0 - 20
2110731	Calcium	0.352	Spike	P	0 - 20
2110731	Iron	2.63	Spike	P	0 - 20
2110731	Magnesium	2.52	Spike	P	0 - 20
2110731	Potassium	2.19	Spike	P	0 - 20
2110731	Sodium	0.598	Spike	P	0 - 20
2110731	Zinc	0.107	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P368944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110731	Aluminum	0.531	Spike	P	0 - 20
2110731	Antimony	0.850	Spike	P	0 - 20
2110731	Arsenic	0.0489	Spike	P	0 - 20
2110731	Boron	1.15	Spike	P	0 - 20
2110731	Cadmium	0.0416	Spike	P	0 - 20
2110731	Chromium	1.11	Spike	P	0 - 20
2110731	Copper	0.00902	Spike	P	0 - 20
2110731	Lead	0.363	Spike	P	0 - 20
2110731	Nickel	0.281	Spike	P	0 - 20
2110731	Selenium	0.721	Spike	P	0 - 20
2110731	Silver	0.931	Spike	P	0 - 20
2110731	Thallium	1.68	Spike	P	0 - 20

Reference Method: EPA 300.0
Batch ID: P369434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111690	Bromide	1.08	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110889	Chloride	0.873	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P369496

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110889	Sulfate	0.600	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P369250

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110890	Ammonia-N	0.688	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P369223

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111042	Kjeldahl Nitrogen	1.91	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P369035

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110849	NO2NO3-N	0.549	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P369028

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110871	Total-P	2.15	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P368972

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110891	O-Phosphate-P	0.504	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P368901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110557	Aldrin	7.52	Spike	P	0 - 30
2110557	Alpha-BHC	4.14	Spike	P	0 - 30
2110557	Alpha-Chlordane	3.88	Spike	P	0 - 30
2110557	Beta-BHC	11.0	Spike	P	0 - 30
2110557	Bifenthrin	8.73	Spike	P	0 - 30
2110557	Carbophenothion	15.1	Spike	P	0 - 30
2110557	Chlorothalonil	7.44	Spike	P	0 - 30
2110557	Cis-Nonachlor	3.98	Spike	P	0 - 30
2110557	Cypermethrin	1.07	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110557	DDD-p,p'	4.14	Spike	P	0 - 30
2110557	DDE-p,p'	5.83	Spike	P	0 - 30
2110557	DDT-p,p'	4.72	Spike	P	0 - 30
2110557	Delta-BHC	0.0384	Spike	P	0 - 30
2110557	Dicofol	26.3	Spike	P	0 - 30
2110557	Dieldrin	5.85	Spike	P	0 - 30
2110557	Endosulfan I	0.110	Spike	P	0 - 30
2110557	Endosulfan II	5.46	Spike	P	0 - 30
2110557	Endosulfan Sulfate	18.2	Spike	P	0 - 30
2110557	Endrin	15.4	Spike	P	0 - 30
2110557	Endrin Aldehyde	2.80	Spike	P	0 - 30
2110557	Endrin Ketone	14.8	Spike	P	0 - 30
2110557	Ethalfuralin	5.56	Spike	P	0 - 30
2110557	Gamma-BHC	11.5	Spike	P	0 - 30
2110557	Gamma-Chlordane	3.46	Spike	P	0 - 30
2110557	Heptachlor	4.67	Spike	P	0 - 30
2110557	Heptachlor Epoxide	5.77	Spike	P	0 - 30
2110557	Hexachlorobenzene	0.470	Spike	P	0 - 30
2110557	Methoxychlor	0.757	Spike	P	0 - 30
2110557	Mirex	2.13	Spike	P	0 - 30
2110557	Permethrin	4.52	Spike	P	0 - 30
2110557	Trans-Nonachlor	3.89	Spike	P	0 - 30
2110557	Trifluralin	3.38	Spike	P	0 - 30
LFB	Aldrin	9.45	LCS	P	0 - 30
LFB	Alpha-BHC	13.4	LCS	P	0 - 30
LFB	Alpha-Chlordane	11.4	LCS	P	0 - 30
LFB	Beta-BHC	14.1	LCS	P	0 - 30
LFB	Bifenthrin	13.4	LCS	P	0 - 30
LFB	Carbophenothion	4.59	LCS	P	0 - 30
LFB	Chlorothalonil	18.0	LCS	P	0 - 30
LFB	Cis-Nonachlor	10.6	LCS	P	0 - 30
LFB	Cypermethrin	10.3	LCS	P	0 - 30
LFB	DDD-p,p'	9.23	LCS	P	0 - 30
LFB	DDE-p,p'	10.6	LCS	P	0 - 30
LFB	DDT-p,p'	7.89	LCS	P	0 - 30
LFB	Delta-BHC	13.4	LCS	P	0 - 30
LFB	Dicofol	6.23	LCS	P	0 - 30
LFB	Dieldrin	13.6	LCS	P	0 - 30
LFB	Endosulfan I	15.7	LCS	P	0 - 30
LFB	Endosulfan II	11.8	LCS	P	0 - 30
LFB	Endosulfan Sulfate	13.7	LCS	P	0 - 30
LFB	Endrin	14.6	LCS	P	0 - 30
LFB	Endrin Aldehyde	15.2	LCS	P	0 - 30
LFB	Endrin Ketone	13.3	LCS	P	0 - 30
LFB	Ethalfuralin	8.83	LCS	P	0 - 30
LFB	Gamma-BHC	13.9	LCS	P	0 - 30
LFB	Gamma-Chlordane	10.6	LCS	P	0 - 30
LFB	Heptachlor	11.9	LCS	P	0 - 30
LFB	Heptachlor Epoxide	13.0	LCS	P	0 - 30
LFB	Hexachlorobenzene	3.09	LCS	P	0 - 30
LFB	Methoxychlor	8.00	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P368901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Mirex	5.37	LCS	P	0 - 30
LFB	Permethrin	14.6	LCS	P	0 - 30
LFB	Trans-Nonachlor	9.37	LCS	P	0 - 30
LFB	Trifluralin	8.83	LCS	P	0 - 30

Reference Method: EPA 8270E
Batch ID: P369004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110513	Acetochlor	2.46	Spike	P	0 - 30
2110513	Alachlor	1.73	Spike	P	0 - 30
2110513	Ametryn	12.4	Spike	P	0 - 30
2110513	Atrazine	1.11	Spike	P	0 - 30
2110513	Atrazine Desethyl	6.88	Spike	P	0 - 30
2110513	Azinphos Methyl	13.9	Spike	P	0 - 30
2110513	Bromacil	0.485	Spike	P	0 - 30
2110513	Butylate	7.86	Spike	P	0 - 30
2110513	Chlorpyrifos Ethyl	0.379	Spike	P	0 - 30
2110513	Chlorpyrifos Methyl	5.26	Spike	P	0 - 30
2110513	Cyanazine	5.12	Spike	P	0 - 30
2110513	Demeton	3.89	Spike	P	0 - 30
2110513	Diazinon	4.44	Spike	P	0 - 30
2110513	Dimethenamid	3.30	Spike	P	0 - 30
2110513	Disulfoton	6.64	Spike	P	0 - 30
2110513	Dithiopyr	1.57	Spike	P	0 - 30
2110513	EPTC	8.69	Spike	P	0 - 30
2110513	Ethion	28.0	Spike	P	0 - 30
2110513	Ethoprop	5.35	Spike	P	0 - 30
2110513	Fenamiphos	17.8	Spike	P	0 - 30
2110513	Fipronil	0.165	Spike	P	0 - 30
2110513	Fipronil Desulfinyl	8.31	Spike	P	0 - 30
2110513	Fipronil Sulfide	10.3	Spike	P	0 - 30
2110513	Fipronil Sulfone	8.30	Spike	P	0 - 30
2110513	Fonofos	2.00	Spike	P	0 - 30
2110513	Hexazinone	2.52	Spike	P	0 - 30
2110513	Malathion	10.5	Spike	P	0 - 30
2110513	Metaxyl	1.62	Spike	P	0 - 30
2110513	Metolachlor	7.68	Spike	P	0 - 30
2110513	Metribuzin	1.63	Spike	P	0 - 30
2110513	Mevinphos	2.30	Spike	P	0 - 30
2110513	Molinate	8.22	Spike	P	0 - 30
2110513	Norflurazon	0.885	Spike	P	0 - 30
2110513	Oxadiazon	5.54	Spike	P	0 - 30
2110513	Parathion Ethyl	7.49	Spike	P	0 - 30
2110513	Parathion Methyl	3.60	Spike	P	0 - 30
2110513	Pendimethalin	3.37	Spike	P	0 - 30
2110513	Phorate	11.5	Spike	P	0 - 30
2110513	Prodiamine	7.79	Spike	P	0 - 30
2110513	Prometon	8.60	Spike	P	0 - 30
2110513	Prometryn	4.12	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P369004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110513	Simazine	5.90	Spike	P	0 - 30
2110513	Tebuconazole	18.0	Spike	P	0 - 30
2110513	Terbufos	3.67	Spike	P	0 - 30
2110513	Terbutylazine	3.49	Spike	P	0 - 30
LFB	Acetochlor	1.86	LCS	P	0 - 30
LFB	Alachlor	2.24	LCS	P	0 - 30
LFB	Ametryn	6.25	LCS	P	0 - 30
LFB	Atrazine	0.863	LCS	P	0 - 30
LFB	Atrazine Desethyl	8.93	LCS	P	0 - 30
LFB	Azinphos Methyl	5.89	LCS	P	0 - 30
LFB	Bromacil	1.85	LCS	P	0 - 30
LFB	Butylate	10.0	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	2.29	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.73	LCS	P	0 - 30
LFB	Cyanazine	1.27	LCS	P	0 - 30
LFB	Demeton	11.4	LCS	P	0 - 30
LFB	Diazinon	1.30	LCS	P	0 - 30
LFB	Dimethenamid	1.33	LCS	P	0 - 30
LFB	Disulfoton	11.3	LCS	P	0 - 30
LFB	Dithiopyr	0.559	LCS	P	0 - 30
LFB	EPTC	16.8	LCS	P	0 - 30
LFB	Ethion	7.17	LCS	P	0 - 30
LFB	Ethoprop	0.644	LCS	P	0 - 30
LFB	Fenamiphos	0.540	LCS	P	0 - 30
LFB	Fipronil	2.03	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	11.0	LCS	P	0 - 30
LFB	Fipronil Sulfide	19.5	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.34	LCS	P	0 - 30
LFB	Fonofos	1.48	LCS	P	0 - 30
LFB	Hexazinone	1.58	LCS	P	0 - 30
LFB	Malathion	7.96	LCS	P	0 - 30
LFB	Metalaxyl	0.745	LCS	P	0 - 30
LFB	Metolachlor	1.28	LCS	P	0 - 30
LFB	Metribuzin	23.5	LCS	P	0 - 30
LFB	Mevinphos	1.14	LCS	P	0 - 30
LFB	Molinate	4.46	LCS	P	0 - 30
LFB	Norflurazon	5.72	LCS	P	0 - 30
LFB	Oxadiazon	1.96	LCS	P	0 - 30
LFB	Parathion Ethyl	0.777	LCS	P	0 - 30
LFB	Parathion Methyl	4.08	LCS	P	0 - 30
LFB	Pendimethalin	0.148	LCS	P	0 - 30
LFB	Phorate	5.40	LCS	P	0 - 30
LFB	Prodiamine	2.95	LCS	P	0 - 30
LFB	Prometon	0.319	LCS	P	0 - 30
LFB	Prometryn	0.728	LCS	P	0 - 30
LFB	Simazine	0.930	LCS	P	0 - 30
LFB	Tebuconazole	13.6	LCS	P	0 - 30
LFB	Terbufos	1.72	LCS	P	0 - 30
LFB	Terbutylazine	2.19	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P368901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111048	Chlordane	2.65	Spike	P	0 - 30
2111048	Toxaphene	6.52	Spike	P	0 - 30
LFB	Chlordane	5.88	LCS	P	0 - 30
LFB	Toxaphene	0.384	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P368762

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2109109	3-Hydroxycarbofuran	4.02	Spike	P	0 - 30
2109109	Aldicarb	1.65	Spike	P	0 - 30
2109109	Aldicarb Sulfone	4.11	Spike	P	0 - 30
2109109	Aldicarb Sulfoxide	7.26	Spike	P	0 - 30
2109109	Carbaryl	3.39	Spike	P	0 - 30
2109109	Carbofuran	5.50	Spike	P	0 - 30
2109109	Methiocarb	7.19	Spike	P	0 - 30
2109109	Methomyl	5.35	Spike	P	0 - 30
2109109	Oxamyl	0.209	Spike	P	0 - 30
2109109	Propoxur	1.72	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P369089

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111008	2,4-D	10.3	Spike	P	0 - 30
2111008	Acetaminophen	7.26	Spike	P	0 - 30
2111008	Acetamiprid	12.4	Spike	P	0 - 30
2111008	Afidopyropen	15.0	Spike	P	0 - 30
2111008	Bentazon	9.63	Spike	P	0 - 30
2111008	Benzovindiflupyr	64.4	Spike	F	0 - 30
2111008	Carbamazepine	13.1	Spike	P	0 - 30
2111008	Clothianidin	19.3	Spike	P	0 - 30
2111008	Dinotefuran	9.46	Spike	P	0 - 30
2111008	Diuron	11.5	Spike	P	0 - 30
2111008	Fenuron	7.24	Spike	P	0 - 30
2111008	Fluridone	0.503	Spike	P	0 - 30
2111008	Hydrocodone	2.95	Spike	P	0 - 30
2111008	Ibuprofen	0.847	Spike	P	0 - 30
2111008	Imazapyr	10.9	Spike	P	0 - 30
2111008	Imidacloprid	8.13	Spike	P	0 - 30
2111008	Linuron	9.59	Spike	P	0 - 30
2111008	Mandestrobin	5.46	Spike	P	0 - 30
2111008	MCP	4.55	Spike	P	0 - 30
2111008	Naproxen	38.9	Spike	F	0 - 30
2111008	Primidone	16.5	Spike	P	0 - 30
2111008	Pyraclostrobin	75.7	Spike	F	0 - 30
2111008	Thiamethoxam	3.76	Spike	P	0 - 30
2111008	Triclopyr	4.21	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P369116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110859	Acesulfame K	9.11	Spike	P	0 - 30
2110859	AMPA	2.48	Spike	P	0 - 30
2110859	Endothall	1.28	Spike	P	0 - 30
2110859	Glufosinate	5.12	Spike	P	0 - 30
2110859	Glyphosate	2.93	Spike	P	0 - 30
2110859	Sucralose	5.99	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P368965

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110867	Color (true)	5.35	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P369442

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111620	Total Alkalinity	0.0323	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
Batch ID: P369330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110277	TDS	3.44	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P369445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2111620	Fluoride	0.519	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P369053

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2110817	Organic Carbon	0.146	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: 2111004

Field Sample ID: NE ROC DI Source

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	80.7	P	30 - 160

Lab Sample ID: 2111005

Field Sample ID: NE ROC DI Source

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	74.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	72.0	P	30 - 160
EPA 8321B	Carbamazepine-d10	85.7	P	30 - 160
EPA 8321B	Diuron-d6	80.5	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Endothall-d6	113	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.6	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.6	P	30 - 160
EPA 8321B	Ibuprofen-d3	63.2	P	30 - 160
EPA 8321B	Primidone-d5	93.5	P	30 - 160
EPA 8321B	Sucralose-d6	92.8	P	30 - 160
EPA 8321B	Sucralose-d6	92.8	P	30 - 160

Lab Sample ID: 2111006

Field Sample ID: NE ROC DI Source

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	66.1	P	39 - 109
EPA 8270E	Tetrachloro-m-xylene	69.8	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	43.5	P	30 - 103
EPA 8276	PCNB	87.7	P	37 - 143

Lab Sample ID: 2111007

Field Sample ID: NE ROC DI Source

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	96.4	P	68 - 130
EPA 8270E	Terbufos-d10	96.6	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A93474

Included Lab Sample IDs: 2110991

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

Reference Method: SM 2120 B

Run ID: A93476

Included Lab Sample IDs: 2110991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	102	P/P	90 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A93480

Included Lab Sample IDs: 2110993

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A93504

Included Lab Sample IDs: 2111013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	98.1	97.8	P/P	95 - 105
Calcium	101	103	P/P	95 - 105
Iron	104	103	P/P	95 - 105
Magnesium	102	102	P/P	95 - 105
Potassium	101	99.6	P/P	95 - 105
Sodium	99.2	99.1	P/P	95 - 105
Zinc	99.1	99.3	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A93511

Included Lab Sample IDs: 2110992

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

Reference Method: SM 5310 B-00

Run ID: A93517

Included Lab Sample IDs: 2110992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	99.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A93538

Included Lab Sample IDs: 2110992

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A93547

Included Lab Sample IDs: 2111013

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	98.1	96.6	P/P	90 - 110
Antimony	95.7	94.3	P/P	90 - 110
Arsenic	99.2	98.6	P/P	90 - 110
Boron	98.9	98.0	P/P	90 - 110
Cadmium	99.0	98.0	P/P	90 - 110
Chromium	99.9	98.5	P/P	90 - 110
Copper	99.4	96.9	P/P	90 - 110
Lead	101	99.6	P/P	90 - 110
Nickel	99.6	97.0	P/P	90 - 110
Selenium	98.0	98.1	P/P	90 - 110
Silver	104	103	P/P	90 - 110
Thallium	97.1	95.6	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A93587

Included Lab Sample IDs: 2111006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	92.2		P	80 - 120
Alpha-BHC	93.6		P	80 - 120
Alpha-Chlordane	91.9		P	80 - 120
Beta-BHC	93.5		P	80 - 120
Bifenthrin	89.6		P	80 - 120
Carbophenothion	90.5		P	80 - 120
Chlorothalonil	83.4		P	80 - 120
Cis-Nonachlor	89.5		P	80 - 120
Cypermethrin	90.4		P	80 - 120
DDD-p,p'	91.8		P	80 - 120
DDE-p,p'	92.2		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	95.5		P	80 - 120
Dicofol	96.4		P	80 - 120
Dieldrin	91.1		P	80 - 120
Endosulfan I	90.2		P	80 - 120
Endosulfan II	87.8		P	80 - 120
Endosulfan Sulfate	92.7		P	80 - 120
Endrin	104		P	80 - 120
Endrin Aldehyde	87.8		P	80 - 120
Endrin Ketone	93.3		P	80 - 120
Ethalfuralin	92.5		P	80 - 120
Gamma-BHC	95.9		P	80 - 120
Gamma-Chlordane	91.7		P	80 - 120
Heptachlor	91.8		P	80 - 120
Heptachlor Epoxide	91.2		P	80 - 120
Hexachlorobenzene	97.5		P	80 - 120
Methoxychlor	98.4		P	80 - 120
Mirex	96.3		P	80 - 120
Permethrin	90.5		P	80 - 120
Trans-Nonachlor	90.5		P	80 - 120
Trifluralin	93.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
 Run ID: A93592
 Included Lab Sample IDs: 2111005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.9	96.7	P/P	50 - 150
3-Hydroxycarbofuran	99.8	102	P/P	60 - 150
Acetaminophen	99.0	91.6	P/P	60 - 160
Acetamiprid	106	107	P/P	50 - 150
Afidopyropen	85.0	79.5	P/P	50 - 150
Aldicarb	102	109	P/P	60 - 150
Aldicarb Sulfone	100	101	P/P	50 - 150
Aldicarb Sulfoxide	98.8	100	P/P	50 - 150
Bentazon	100	103	P/P	50 - 160
Benzovindiflupyr	102	104	P/P	50 - 150
Carbamazepine	94.8	92.3	P/P	60 - 150
Carbaryl	94.1	83.3	P/P	60 - 150
Carbofuran	97.6	98.6	P/P	50 - 150
Clothianidin	92.6	94.2	P/P	60 - 150
Dinotefuran	89.8	83.9	P/P	50 - 150
Diuron	102	101	P/P	60 - 150
Fenuron	73.5	74.2	P/P	60 - 150
Fluridone	95.9	94.4	P/P	60 - 160
Hydrocodone	105	99.9	P/P	60 - 150
Ibuprofen	85.1	97.5	P/P	50 - 160
Imazapyr	93.2	121	P/P	50 - 150
Imidacloprid	90.3	87.5	P/P	60 - 150
Linuron	86.8	88.9	P/P	60 - 150
Mandestrobin	98.2	98.4	P/P	50 - 150
MCPP	87.4	88.6	P/P	50 - 150
Methiocarb	91.9	88.1	P/P	50 - 150
Methomyl	100	104	P/P	50 - 150
Naproxen	113	67.9	P/P	50 - 160
Oxamyl	96.8	100	P/P	50 - 150
Primidone	88.4	90.5	P/P	60 - 150
Propoxur	96.2	99.7	P/P	50 - 150
Pyraclostrobin	92.9	96.6	P/P	60 - 150
Thiamethoxam	93.6	80.3	P/P	50 - 150
Tolfenpyrad	99.2	96.8	P/P	60 - 150
Triclopyr	91.7	91.4	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0
 Run ID: A93593
 Included Lab Sample IDs: 2110992

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

Reference Method: EPA 8270E
 Run ID: A93606
 Included Lab Sample IDs: 2111007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	100		P	80 - 120
Alachlor	96.5		P	80 - 120
Ametryn	97.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A93606
Included Lab Sample IDs: 2111007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	99.4		P	80 - 120
Atrazine Desethyl	85.7		P	80 - 120
Azinphos Methyl	93.4		P	80 - 120
Bromacil	100		P	80 - 120
Butylate	106		P	80 - 120
Chlorpyrifos Ethyl	96.8		P	80 - 120
Chlorpyrifos Methyl	95.9		P	80 - 120
Cyanazine	77.8*		F	80 - 120
Demeton	99.1		P	80 - 120
Diazinon	99.9		P	80 - 120
Dimethenamid	102		P	80 - 120
Disulfoton	95.6		P	80 - 120
Dithiopyr	100		P	80 - 120
EPTC	97.6		P	80 - 120
Ethion	97.4		P	80 - 120
Ethoprop	96.3		P	80 - 120
Fenamiphos	101		P	80 - 120
Fipronil	101		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	92.0		P	80 - 120
Fipronil Sulfone	100		P	80 - 120
Fonofos	99.7		P	80 - 120
Hexazinone	98.5		P	80 - 120
Malathion	95.5		P	80 - 120
Metalaxyl	102		P	80 - 120
Metolachlor	101		P	80 - 120
Metribuzin	78.3*		F	80 - 120
Mevinphos	100		P	80 - 120
Molinate	101		P	80 - 120
Norflurazon	98.7		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	94.7		P	80 - 120
Parathion Methyl	89.5		P	80 - 120
Pendimethalin	87.2		P	80 - 120
Phorate	98.1		P	80 - 120
Prodiamine	84.5		P	80 - 120
Prometon	94.9		P	80 - 120
Prometryn	98.0		P	80 - 120
Simazine	101		P	80 - 120
Tebuconazole	103		P	80 - 120
Terbufos	97.2		P	80 - 120
Terbuthylazine	95.2		P	80 - 120

Reference Method: EPA 8321B
Run ID: A93618
Included Lab Sample IDs: 2111005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	96.0	86.9	P/P	60 - 160
Endothall	93.9	105	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A93621
Included Lab Sample IDs: 2111005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	76.3	84.7	P/P	60 - 160
Glufosinate	102	101	P/P	60 - 160
Glyphosate	93.0	113	P/P	60 - 160

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A93624
Included Lab Sample IDs: 2110992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	94.9	P/P	90 - 110

Reference Method: EPA 300.0
Run ID: A93690
Included Lab Sample IDs: 2110991

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

Reference Method: SM 2320 B-97
Run ID: A93694
Included Lab Sample IDs: 2110991

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

Reference Method: SM 4500 F-C-97
Run ID: A93694
Included Lab Sample IDs: 2110991

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

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A93717
Included Lab Sample IDs: 2110991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.8	99.3	P/P	90 - 110
Sulfate	103	104	P/P	90 - 110

Reference Method: EPA 8276
Run ID: A93742
Included Lab Sample IDs: 2111006

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.0		P	80 - 120
Toxaphene	99.6		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A93859

Included Lab Sample IDs: 2111005

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	71.3	83.8	P/P	60 - 160

* 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						6.07	
EPA 200.7 Rev. 4.4	Barium	100		96.6	97.1			0.433
	Calcium	105		107				0.352
	Iron	106		109	106			2.63
	Magnesium	108		109	105			2.52
	Potassium	105		105	102			2.19
	Sodium	102		103				0.598
	Zinc	99.2		95.8	95.9			0.107
EPA 200.8 Rev. 5.4	Aluminum	97.4		92.6	93.2			0.531
	Antimony	98.7		97.9	98.8			0.850
	Arsenic	102		100	100			0.0489
	Boron	99.6		98.8	100			1.15
	Cadmium	98.2		101	101			0.0416
	Chromium	99.2		99.6	101			1.11
	Copper	98.5		96.1	96.1			0.0090
	Lead	101		100	101			0.363
	Nickel	101		98.6	98.4			0.281
	Selenium	100		99.0	99.8			0.721
	Silver	102		102	101			0.931
	Thallium	101		101	102			1.68
EPA 300.0	Bromide	98.6		98.0	96.8	95.9		1.08
EPA 300.0 Rev. 2.1	Chloride	97.0		97.8	98.8	98.9		0.873
	Sulfate	101		102	103	103		0.600
EPA 350.1 Rev. 2.0	Ammonia-N	102		103	102			0.688
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	93.3		87.7	89.8			1.91
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100		96.5	97.5			0.549
EPA 365.1 Rev. 2.0	Total-P	100		100	102			2.15
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.5		98.9	99.4			0.504
EPA 8270E	Acetochlor	96.9	98.7	94.9	92.6	1.86		2.46
	Alachlor	91.7	93.7	85.9	84.4	2.24		1.73
	Aldrin	49.4	44.9	56.0	51.9	9.45		7.52
	Alpha-BHC	126	110	142	148	13.4		4.14
	Alpha-Chlordane	84.0	74.9	80.9	84.1	11.4		3.88
	Ametryn	100	94.1	119	105	6.25		12.4
	Atrazine	108	107			0.863		1.11
	Atrazine Desethyl	102	93.1	70.6	77.5	8.93		6.88
	Azinphos Methyl	98.1	92.5	80.6	70.1	5.89		13.9
	Beta-BHC	133	116	132	119	14.1		11.0
	Bifenthrin	85.9	75.1	89.1	97.2	13.4		8.73
	Bromacil	92.3	90.6	91.3	90.8	1.85		0.485
	Butylate	77.8	70.3	66.8	61.7	10.0		7.86
	Carbophenothion	101	106	117	137	4.59		15.1
	Chlorothalonil	153	128	150	162	18.0		7.44
	Chlorpyrifos Ethyl	99.0	96.7	80.6	80.3	2.29		0.379
	Chlorpyrifos Methyl	96.0	93.4	83.1	78.9	2.73		5.26
	Cis-Nonachlor	84.1	75.6	79.6	82.8	10.6		3.98
	Cyanazine	153	151	137	130	1.27		5.12
	Cypermethrin	78.6	71.0	85.8	86.7	10.3		1.07
	DDD-p,p'	93.9	85.6	91.8	95.6	9.23		4.14
	DDE-p,p'	83.2	74.8	79.9	84.7	10.6		5.83
	DDT-p,p'	116	107	119	113	7.89		4.72
	Delta-BHC	149	130	176	176	13.4		0.0384
	Demeton	70.7	79.2	88.9	85.5	11.4		3.89
	Diazinon	95.3	96.5	97.9	93.7	1.30		4.44

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Dicofol	91.1	85.6	94.7	123	6.23	26.3
	Dieldrin	90.5	78.9	84.7	89.8	13.6	5.85
	Dimethenamid	102	101	93.8	90.8	1.33	3.30
	Disulfoton	63.6	71.2	72.1	67.5	11.3	6.64
	Dithiopyr	93.9	94.5	87.2	85.9	0.559	1.57
	Endosulfan I	93.3	79.7	98.8	98.9	15.7	0.110
	Endosulfan II	99.0	87.9	137	130	11.8	5.46
	Endosulfan Sulfate	91.8	80.1	90.4	108	13.7	18.2
	Endrin	108	93.4	97.8	114	14.6	15.4
	Endrin Aldehyde	103	88.1	94.6	97.3	15.2	2.80
	Endrin Ketone	91.4	80.1	82.3	95.5	13.3	14.8
	EPTC	74.1	62.7	62.0	56.9	16.8	8.69
	Ethalfuralin	98.1	89.8	101	107	8.83	5.56
	Ethion	85.8	79.8	65.4	49.3	7.17	28.0
	Ethoprop	94.0	93.4	89.5	84.8	0.644	5.35
	Fenamiphos	94.5	95.0	98.9	118	0.540	17.8
	Fipronil	93.4	91.5	88.9	88.7	2.03	0.165
	Fipronil Desulfinyl	92.2	82.6	77.0	69.5	11.0	8.31
	Fipronil Sulfide	95.9	78.9	75.5	68.1	19.5	10.3
	Fipronil Sulfone	89.4	85.6	75.7	65.3	4.34	8.30
	Fonofos	91.7	90.4	82.2	80.6	1.48	2.00
	Gamma-BHC	133	115	138	155	13.9	11.5
	Gamma-Chlordane	81.0	72.9	78.5	81.2	10.6	3.46
	Heptachlor	74.8	66.4	72.2	75.7	11.9	4.67
	Heptachlor Epoxide	88.1	77.4	83.3	88.2	13.0	5.77
	Hexachlorobenzene	79.9	77.5	84.4	84.0	3.09	0.470
	Hexazinone	106	107	86.8	84.7	1.58	2.52
	Malathion	110	101	101	91.1	7.96	10.5
	Metalaxyl	94.7	95.4	73.7	72.5	0.745	1.62
	Methoxychlor	133	123	130	129	8.00	0.757
	Metolachlor	93.4	92.2	94.4	87.5	1.28	7.68
	Metribuzin	177	140	163	166	23.5	1.63
	Mevinphos	102	103	99.2	96.9	1.14	2.30
	Mirex	60.6	57.5	66.8	65.4	5.37	2.13
	Molinate	83.0	79.4	83.9	77.3	4.46	8.22
	Norflurazon	92.2	87.1	78.5	77.8	5.72	0.885
	Oxadiazon	88.3	86.6	73.0	68.2	1.96	5.54
	Parathion Ethyl	94.8	95.6	91.4	84.8	0.777	7.49
	Parathion Methyl	97.7	102	97.6	94.2	4.08	3.60
	Pendimethalin	84.0	83.8	84.5	81.7	0.148	3.37
	Permethrin	76.8	66.3	77.0	80.6	14.6	4.52
	Phorate	88.2	93.1	88.5	78.8	5.40	11.5
	Prodiamine	65.1	63.2	60.2	53.3	2.95	7.79
	Prometon	91.9	91.6	102	93.7	0.319	8.60
	Prometryn	91.0	90.3	74.4	77.5	0.728	4.12
	Simazine	108	109	94.2	102	0.930	5.90
	Tebuconazole	66.1	57.6	45.1	36.0	13.6	18.0
	Terbufos	90.9	92.5	90.2	86.9	1.72	3.67
	Terbutylazine	99.0	96.8	92.5	89.4	2.19	3.49
	Trans-Nonachlor	77.7	70.8	73.1	76.0	9.37	3.89
	Trifluralin	98.8	90.4	99.3	103	8.83	3.38
EPA 8276	Chlordane	72.9	68.7	89.0	91.4	5.88	2.65
	Toxaphene	73.9	74.2	72.4	77.2	0.384	6.52
EPA 8321B	2,4-D	75.3		160	140		10.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	3-Hydroxycarbofuran	98.3	82.2	79.0			4.02
	Acesulfame K	98.7	85.1	93.2			9.11
	Acetaminophen	68.2	79.6	74.0			7.26
	Acetamiprid	76.8	96.9	85.2			12.4
	Afidopyropen	58.1	79.2	68.1			15.0
	Aldicarb	66.5	53.2	54.1			1.65
	Aldicarb Sulfone	92.9	95.5	99.5			4.11
	Aldicarb Sulfoxide	89.3	51.7	55.6			7.26
	AMPA	88.1	90.6	85.8			2.48
	Bentazon	90.0	63.4	50.6			9.63
	Benzovindiflupyr	80.4	46.4	90.4			64.4
	Carbamazepine	80.0	93.6	76.7			13.1
	Carbaryl	82.1	67.0	64.8			3.39
	Carbofuran	81.1	64.8	61.3			5.50
	Clothianidin	77.5	96.2	74.9			19.3
	Dinotefuran	78.6	104	94.2			9.46
	Diuron	84.1	91.6	81.2			11.5
	Endothall	98.1	58.5	59.3			1.28
	Fenuron	87.2	89.0	82.8			7.24
	Fluridone	80.9	75.5	76.1			0.503
	Glufosinate	106	103	98.0			5.12
	Glyphosate	106	114	103			2.93
	Hydrocodone	86.3	101	97.9			2.95
	Ibuprofen	65.9	82.8	83.5			0.847
	Imazapyr	91.3	103	83.9			10.9
	Imidacloprid	82.8					8.13
	Linuron	69.4	71.3	64.7			9.59
	Mandestrobin	75.8	80.7	76.4			5.46
	MCPP	70.2	160	152			4.55
	Methiocarb	77.0	68.0	63.3			7.19
	Methomyl	86.4	77.9	73.9			5.35
	Naproxen	66.0	110	74.4			38.9
	Oxamyl	96.6	84.1	84.3			0.209
	Primidone	79.3	105	86.6			16.5
	Propoxur	78.0	63.3	62.2			1.72
	Pyraclostrobin	56.0	32.7	72.5			75.7
	Sucralose	82.9	52.4	55.9			5.99
	Thiamethoxam	85.5	140	133			3.76
	Tolfenpyrad	32.2	0.0	54.8			
	Triclopyr	46.6	119	114			4.21
SM 2120 B	Color (true)	100				5.35	
SM 2320 B-97	Total Alkalinity	102				0.0323	
SM 2540 C-97	TDS					3.44	
SM 4500 F-C-97	Fluoride	98.9	96.3	96.9			0.519
SM 5310 B-00	Organic Carbon	99.5	99.9				0.146

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2110991
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2111013

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2111013
EPA 300.0 / E31780	Bromide in aqueous matrices	2110991
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2110991
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2110991
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2110992
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2110992
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2110992
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2110992
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2110993
EPA 8270E / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2111006
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2111007
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2111006
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2111004
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2111005
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2111005
SM 2120 B / E31780	True Color measured at 450 nm	2110991
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2110991
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2110991
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2110991
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2110991
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2110992

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	08/13/2019			08/13/2019 16:20	Samantha Davila	2110991
EPA 200.7 Rev. 4.4	08/13/2019	08/13/2019 16:10	Elliott D. Healy	08/14/2019 12:12	Betina Topolski	2111013
EPA 200.8 Rev. 5.4	08/13/2019	08/13/2019 16:10	Elliott D. Healy	08/15/2019 19:23	Martin Acosta	2111013
EPA 300.0	08/13/2019			08/20/2019 10:15	Jhamieka S. Greenwood	2110991
EPA 300.0 Rev. 2.1	08/13/2019			08/21/2019 01:30	Jhamieka S. Greenwood	2110991
EPA 350.1 Rev. 2.0	08/13/2019			08/16/2019 14:00	Ping Hua	2110992
EPA 351.2 Rev. 2.0	08/13/2019	08/16/2019 14:55	Sima Feizi	08/20/2019 08:46	Joseph Suarez	2110992
EPA 353.2 Rev. 2.0	08/13/2019			08/14/2019 13:34	Beverly Y. Sanders	2110992
EPA 365.1 Rev. 2.0	08/13/2019	08/14/2019 12:19	Vijayalakshmi Reddy	08/15/2019 15:05	Lipi Saha	2110992
EPA 365.1 Rev. 2.0 dissolved	08/13/2019			08/13/2019 16:41	Jhamieka S. Greenwood	2110993
EPA 8270E	08/13/2019	08/14/2019 08:30	Rasheda Ghaffari	08/16/2019 18:43	Vandana T. Nagar	2111007
	08/13/2019	08/14/2019 09:00	Fe-Val Siddell	08/16/2019 23:19	Arthur Maknenko	2111006
EPA 8276	08/13/2019	08/14/2019 09:00	Fe-Val Siddell	08/22/2019 12:44	Luis Flores	2111006
EPA 8321B	08/13/2019	08/13/2019 14:00	Fe-Val Siddell	08/17/2019 12:19	Juyoung Kim	2111004
	08/13/2019	08/15/2019 14:45	Rebecca Ware	08/16/2019 14:42	Rebecca Ware	2111005
	08/13/2019	08/15/2019 14:45	Rebecca Ware	08/16/2019 15:24	Rebecca Ware	2111005
	08/13/2019	08/15/2019 14:45	Rebecca Ware	08/22/2019 15:37	Rebecca Ware	2111005
	08/13/2019	08/16/2019 09:30	Fe-Val Siddell	08/18/2019 01:34	Juyoung Kim	2111005
SM 2120 B	08/13/2019			08/13/2019 15:55	Madeline Funaro	2110991
SM 2320 B-97	08/13/2019			08/20/2019 23:56	Dale L. Simmons	2110991
SM 2540 C-97	08/13/2019			08/14/2019 15:01	Yijie Li	2110991
SM 2540 D-97	08/13/2019			08/14/2019 15:01	Yijie Li	2110991
SM 4500 F-C-97	08/13/2019			08/20/2019 23:56	Dale L. Simmons	2110991
SM 5310 B-00	08/13/2019			08/14/2019 19:33	Madeline Funaro	2110992