

Chemical Analysis Report

NE-DIST-2018-12-06-01

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

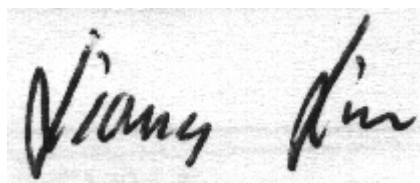
Event Description: **LSJR Southside 1**
Request ID: **RQ-2018-12-03-27**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 07-JAN-2019 14:11

A handwritten signature in black ink, appearing to read "Liang Lin", is shown 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: NE ROC DI

Collection Date/Time: 12/05/2018 10:15

Field ID: BLANK 12052018

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2046811	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P355756	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P356154	
		Sulfate	0.20	U	mg SO4/L	P356156	
		Color (true)	2.5	U	PCU	P355790	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P355946	
	SM 2540 C-97	TDS	15	U	mg/L	P356113	
	SM 2540 D-97	TSS	2	U	mg/L	P356003	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P355949	
2046812	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P355906	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P356222	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P355840	
	EPA 365.1 Rev. 2.0	Total-P	0.005	I	mg P/L	P355900	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P355856	
2046813	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P355764	
2046830	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P355896	
		Iron	30	U	ug/L	P355896	
		Magnesium	0.040	U	mg/L	P355896	
		Potassium	0.30	U	mg/L	P355896	
		Sodium	0.50	U	mg/L	P355896	
		Zinc	5.0	U	ug/L	P355896	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P355896	
		Cadmium	0.020	U	ug/L	P355896	
		Chromium	0.40	U	ug/L	P355896	
		Copper	0.20	U	ug/L	P355896	
		Lead	0.050	U	ug/L	P355896	
		Nickel	0.20	U	ug/L	P355896	
		Silver	0.010	U	ug/L	P355896	

Ref. Method and Comment:

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

EPA 353.2 Rev. 2.0: The result was confirmed on 12/07/2018.

EPA 365.1 Rev. 2.0: Total-P: The result was confirmed on 12/19/2018.

EPA 365.1 Rev. 2.0 dissolved: O-Phosphate-P: The result was confirmed on 12/11/2018.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Sample Location: Miramar at San Jose

Collection Date/Time: 12/05/2018 10:25

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2046808	EPA 180.1 Rev. 2.0	Turbidity	5.7	A	NTU	P355756	
	EPA 300.0 Rev. 2.1	Chloride	47		mg Cl/L	P356154	
		Sulfate	54		mg SO4/L	P356156	
	SM 2120 B	Color (true)	27		PCU	P355790	
	SM 2320 B-97	Total Alkalinity	77		mg CaCO3/L	P355946	
	SM 2540 C-97	TDS	240		mg/L	P356115	
	SM 2540 D-97	TSS	4	I	mg/L	P356005	
	SM 4500 F-C-97	Fluoride	0.13		mg F/L	P355949	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.16		mg N/L	P355906	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.75		mg N/L	P356222	
2046809	EPA 353.2 Rev. 2.0	NO2NO3-N	0.88		mg N/L	P355840	
	EPA 365.1 Rev. 2.0	Total-P	0.062		mg P/L	P355881	
	SM 5310 B-00	Organic Carbon	6.4		mg C/L	P355856	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.022		mg P/L	P355764	
	dissolved						
2046825	EPA 8321B	Aldicarb	0.020	U	ug/L	P355712	
		Aldicarb Sulfone	0.0020	U	ug/L	P355712	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P355712	
		Carbaryl	0.0020	U	ug/L	P355712	
		Carbofuran	0.0020	U	ug/L	P355712	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P355712	
		Methiocarb	0.0020	U	ug/L	P355712	
		Methomyl	0.0020	U	ug/L	P355712	
		Oxamyl	0.0020	U	ug/L	P355712	
		Propoxur	0.0020	U	ug/L	P355712	
2046826		2,4-D	0.023		ug/L	P355712	
		Sucralose**	0.95		ug/L	P355853	
		Bentazon	0.020		ug/L	P355712	
		MCP	0.0083		ug/L	P355712	
		Triclopyr**	0.0040	U	ug/L	P355712	
		Imidacloprid	0.032		ug/L	P355712	
		Diuron	0.017		ug/L	P355712	
		Pyraclostrobin**	0.0020	U	ug/L	P355712	
		Primidone**	0.0040	U	ug/L	P355712	
		Linuron	0.0040	U	ug/L	P355712	
		Acetaminophen**	0.028	I	ug/L	P355712	
		Fenuron	0.016	U	ug/L	P355712	
		Imazapyr**	0.096		ug/L	P355712	
		Carbamazepine**	0.022		ug/L	P355712	
		Fluridone**	4.0E-04	U	ug/L	P355712	
		Hydrocodone**	0.0020	U	ug/L	P355712	
		Naproxen**	0.0080	U	ug/L	P355712	
		Ibuprofen**	0.020	U	ug/L	P355712	
		Glyphosate**	0.10	U	ug/L	P355853	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2046826	EPA 8321B	AMPA**	0.10	U	ug/L	P355853	
		Endothall**	0.25	U	ug/L	P355853	
		Glufosinate**	0.10	U	ug/L	P355853	
		Acesulfame K**	0.61		ug/L	P355853	
2046827	EPA 8270D	Aldrin	4.0	U	ng/L	P356023	
		Alpha-BHC	2.0	U	ng/L	P356023	
		Beta-BHC	4.0	U	ng/L	P356023	
		Delta-BHC	4.0	U	ng/L	P356023	
		Gamma-BHC	4.0	U	ng/L	P356023	
		Carbophenothion	4.0	U	ng/L	P356023	
		Chlorothalonil	2.0	U	ng/L	P356023	
		Cypermethrin	20	U	ng/L	P356023	
		DDD-p,p'	3.0	U	ng/L	P356023	
		DDE-p,p'	3.0	U	ng/L	P356023	
		DDT-p,p'	3.0	U	ng/L	P356023	
		Dieldrin	9.7	I	ng/L	P356023	
		Endosulfan I	4.0	U	ng/L	P356023	
		Endosulfan II	4.0	U	ng/L	P356023	MS
		Endosulfan Sulfate	2.0	U	ng/L	P356023	
		Endrin	2.0	U	ng/L	P356023	RPD
		Endrin Aldehyde	2.0	U	ng/L	P356023	
		Heptachlor	1.5	U	ng/L	P356023	
		Heptachlor Epoxide	2.0	U	ng/L	P356023	
		Methoxychlor	4.0	U	ng/L	P356023	RPD
		Mirex	2.0	U	ng/L	P356023	
		Permethrin	10	U	ng/L	P356023	
		Trifluralin	1.0	U	ng/L	P356023	
		Alpha-Chlordane	1.0	U	ng/L	P356023	
		Gamma-Chlordane	1.0	U	ng/L	P356023	
		Endrin Ketone	2.0	U	ng/L	P356023	
		Dicofol	30	U	ng/L	P356023	
		Chlordane	5.4	I	ng/L	P356023	
		Toxaphene	30	U	ng/L	P356023	
		Alachlor	0.24	U	ng/L	P355765	
		Ametryn	11	J	ng/L	P355765	LCS
		Atrazine	110		ng/L	P355765	
		Atrazine Desethyl	1.4	UJ	ng/L	P355765	MS
		Azinphos Methyl	2.1	U	ng/L	P355765	
		Bromacil	1.9		ng/L	P355765	
		Butylate	0.38	U	ng/L	P355765	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P355765	
		Chlorpyrifos Methyl	0.095	U	ng/L	P355765	
		Demeton	1.9	UJ	ng/L	P355765	CCV
		Diazinon	0.12	U	ng/L	P355765	
		Disulfoton	0.47	U	ng/L	P355765	
2046828	EPA 8270D						

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2046828	EPA 8270D	EPTC	1.2	U	ng/L	P355765	
		Ethion	0.14	UJ	ng/L	P355765	MS
		Ethoprop	0.095	U	ng/L	P355765	
		Fenamiphos	0.24	U	ng/L	P355765	
		Fipronil	7.0		ng/L	P355765	
		Fipronil Sulfide	6.4		ng/L	P355765	
		Fipronil Sulfone	15		ng/L	P355765	
		Hexazinone	0.47	U	ng/L	P355765	
		Malathion	0.33	U	ng/L	P355765	
		Metribuzin	0.19	UJ	ng/L	P355765	LCS, MS
		Mevinphos	0.47	U	ng/L	P355765	
		Molinate	0.28	U	ng/L	P355765	
		Norflurazon	0.47	U	ng/L	P355765	
		Pendimethalin	0.95	U	ng/L	P355765	
		Phorate	0.24	U	ng/L	P355765	
		Prometon	0.85	U	ng/L	P355765	
		Prometryn	0.19	U	ng/L	P355765	
		Simazine	58		ng/L	P355765	
		Terbufos	0.095	U	ng/L	P355765	
		Terbutylazine	0.40	U	ng/L	P355765	
		Fonofos	0.19	U	ng/L	P355765	
		Metalaxyl	0.24	U	ng/L	P355765	
		Metolachlor	0.24	U	ng/L	P355765	
		Acetochlor	0.24	U	ng/L	P355765	
		Cyanazine	0.47	U	ng/L	P355765	
		Parathion Ethyl	0.24	U	ng/L	P355765	
		Parathion Methyl	0.24	U	ng/L	P355765	
		Dimethenamid**	0.095	U	ng/L	P355765	
		Fipronil Desulfinyl**	0.97	J	ng/L	P355765	
		Dithiopyr**	0.20	I	ng/L	P355765	
		Prodiamine**	2.2		ng/L	P355765	
		Oxadiazon**	0.38		ng/L	P355765	
		Tebuconazole**	5.2	J	ng/L	P355765	MS
2046829	EPA 200.7 Rev. 4.4	Calcium	39.0		mg/L	P355896	
		Iron	620		ug/L	P355896	
		Magnesium	11.0		mg/L	P355896	
		Potassium	3.1		mg/L	P355896	
		Sodium	26.8		mg/L	P355896	
		Zinc	7.5	I	ug/L	P355896	
	EPA 200.8 Rev. 5.4	Arsenic	1.91		ug/L	P355896	
		Cadmium	0.020	U	ug/L	P355896	
		Chromium	0.40	U	ug/L	P355896	
		Copper	1.12		ug/L	P356654	
		Lead	0.73		ug/L	P355896	
		Nickel	0.70	I	ug/L	P355896	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2046829	EPA 200.8 Rev. 5.4	Silver	0.010	U	ug/L	P355896	

Ref. Method and Comment:

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

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

EPA 8270D: Estimated value for Fipronil Desulfinyl due to lack of the second source standard. MS accuracies for Atrazine, Simazine, Ametryn, Fipronil, Fipronil Sulfide, 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.

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium are unavailable for one of two spiked samples because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P355756

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P355896

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: P355896

Component	Result	Code	Units
Arsenic	0.050	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.26	I	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L
Silver	0.010	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P356654

Component	Result	Code	Units
Copper	0.20	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356154

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356156

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P355906

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P356222

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P355840

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P355881

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P355900

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P355764

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

Reference Method: EPA 8270D
Batch ID: P355765

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
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	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P355765

Component	Result	Code	Units
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
Oxadiazon	0.10	U	ng/L
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
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8270D
Batch ID: P356023

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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P356023

Component	Result	Code	Units
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8276
Batch ID: P356023

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

Reference Method: EPA 8321B
Batch ID: P355712

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	4.0E-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
MCPP	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Oxamyl	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Propoxur	0.0020	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P355853

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P355853

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P355790

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P355946

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

Reference Method: SM 2540 C-97
Batch ID: P356113

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P356115

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P356003

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P356005

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P355949

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P355856

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: P355896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	105		P	85 - 115
Magnesium	101		P	85 - 115
Potassium	102		P	85 - 115
Sodium	89.4		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P355896

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	105		P	85 - 115
Cadmium	106		P	85 - 115
Chromium	105		P	85 - 115
Copper	102		P	85 - 115
Lead	107		P	85 - 115
Nickel	102		P	85 - 115
Silver	106		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P356654

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	96.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356156

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P355906

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P356222

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

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P355840

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: P355881

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P355900

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	95.6		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P355764

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	97.7		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P355765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	95.3	97.3	P/P	74 - 119
Alachlor	95.2	100	P/P	75 - 118
Ametryn	124	142	P/F	59 - 137
Atrazine	104	108	P/P	73 - 120
Atrazine Desethyl	84.6	90.8	P/P	19 - 129
Azinphos Methyl	95.2	103	P/P	65 - 181
Bromacil	86.6	91.2	P/P	43 - 123
Butylate	71.5	66.3	P/P	28 - 85.0
Chlorpyrifos Ethyl	102	101	P/P	55 - 112
Chlorpyrifos Methyl	99.2	97.1	P/P	35 - 124
Cyanazine	202	260	P/P	26 - 262
Demeton	89.3	90.2	P/P	43 - 122
Diazinon	93.0	98.6	P/P	72 - 120
Dimethenamid	93.5	95.8	P/P	60 - 130
Disulfoton	97.7	94.9	P/P	45 - 137
Dithiopyr	98.4	101	P/P	60 - 130
EPTC	65.8	64.5	P/P	28 - 95.0
Ethion	88.6	70.9	P/P	63 - 127
Ethoprop	87.4	88.5	P/P	63 - 109
Fenamiphos	78.8	86.9	P/P	66 - 136
Fipronil	68.0	79.9	P/P	63 - 126
Fipronil Desulfinyl	66.8	69.6	P/P	60 - 130
Fipronil Sulfide	70.2	91.0	P/P	59 - 123
Fipronil Sulfone	65.3	75.9	P/P	56 - 122
Fonofos	90.2	87.7	P/P	64 - 114
Hexazinone	101	92.2	P/P	49 - 144
Malathion	97.1	93.4	P/P	68 - 131
Metalaxyl	90.6	91.7	P/P	57 - 126

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P355765

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Metolachlor	95.8	99.9	P/P	75 - 118
Metribuzin	199	223	F/F	46 - 169
Mevinphos	82.5	73.4	P/P	34 - 126
Molinate	76.0	76.9	P/P	37 - 101
Norflurazon	70.8	79.9	P/P	63 - 127
Oxadiazon	96.8	95.4	P/P	60 - 130
Parathion Ethyl	88.7	86.3	P/P	78 - 109
Parathion Methyl	97.9	100	P/P	74 - 123
Pendimethalin	93.3	93.0	P/P	51 - 130
Phorate	96.4	94.9	P/P	53 - 116
Prodiamine	92.8	90.0	P/P	60 - 130
Prometon	87.3	74.2	P/P	66 - 124
Prometryn	87.7	88.1	P/P	66 - 124
Simazine	98.9	104	P/P	62 - 134
Tebuconazole	64.4	63.6	P/P	30 - 100
Terbufos	99.2	96.3	P/P	59 - 115
Terbutylazine	91.1	101	P/P	76 - 113

Reference Method: EPA 8270D
Batch ID: P356023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	58.3	52.8	P/P	24 - 89.0
Alpha-BHC	110	98.7	P/P	58 - 117
Alpha-Chlordane	90.2	89.0	P/P	56 - 115
Beta-BHC	128	122	P/P	55 - 137
Carbophenothion	115	111	P/P	37 - 145
Chlorothalonil	116	126	P/P	26 - 163
Cypermethrin	87.3	80.1	P/P	42 - 156
DDD-p,p'	107	106	P/P	59 - 129
DDE-p,p'	84.5	83.8	P/P	52 - 117
DDT-p,p'	97.0	94.3	P/P	48 - 128
Delta-BHC	130	125	P/P	59 - 158
Dicofol	116	89.1	P/P	19 - 124
Dieldrin	93.5	94.8	P/P	57 - 126
Endosulfan I	96.5	92.8	P/P	59 - 133
Endosulfan II	105	106	P/P	58 - 148
Endosulfan Sulfate	97.5	92.3	P/P	56 - 135
Endrin	83.4	84.9	P/P	50 - 140
Endrin Aldehyde	102	103	P/P	47 - 141
Endrin Ketone	98.6	91.5	P/P	63 - 123
Gamma-BHC	122	111	P/P	59 - 132
Gamma-Chlordane	88.3	86.5	P/P	55 - 112
Heptachlor	76.6	72.0	P/P	45 - 102
Heptachlor Epoxide	94.2	89.9	P/P	61 - 116
Methoxychlor	118	106	P/P	60 - 133
Mirex	64.7	60.0	P/P	40 - 98.0
Permethrin	80.3	71.6	P/P	45 - 131
Trifluralin	87.0	82.2	P/P	38 - 179

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P356023

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	60.6	58.0	P/P	47 - 125
Toxaphene	57.5	54.6	P/P	46 - 147

Reference Method: EPA 8321B
Batch ID: P355712

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	76.2		P	40 - 150
3-Hydroxycarbofuran	72.6		P	40 - 150
Acetaminophen	92.6		P	30 - 150
Aldicarb	76.2		P	30 - 150
Aldicarb Sulfone	106		P	40 - 150
Aldicarb Sulfoxide	128		P	40 - 150
Bentazon	74.7		P	30 - 150
Carbamazepine	80.8		P	40 - 150
Carbaryl	79.2		P	40 - 150
Carbofuran	78.4		P	40 - 150
Diuron	81.8		P	40 - 150
Fenuron	112		P	40 - 150
Fluridone	107		P	40 - 150
Hydrocodone	102		P	40 - 150
Ibuprofen	64.2		P	40 - 150
Imazapyr	112		P	40 - 150
Imidacloprid	78.5		P	40 - 160
Linuron	76.1		P	40 - 150
MCPP	95.0		P	40 - 150
Methiocarb	64.4		P	40 - 150
Methomyl	97.9		P	40 - 150
Naproxen	77.5		P	40 - 150
Oxamyl	95.5		P	40 - 150
Primidone	86.2		P	40 - 150
Propoxur	87.1		P	40 - 150
Pyraclostrobin	52.3		P	40 - 150
Triclopyr	58.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P355853

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	122		P	40 - 140
Endothall	96.0		P	40 - 150
Glufosinate	106		P	40 - 150
Glyphosate	104		P	40 - 140
Sucralose	99.8		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P355790

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.4		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P355946

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.8		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P355949

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.9		P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P355856

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P355896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046820	Iron	100		P	80 - 120
2046820	Magnesium	97.9		P	80 - 120
2046820	Potassium	99.8		P	80 - 120
2046820	Sodium	97.3		P	80 - 120
2046820	Zinc	103		P	80 - 120
2047120	Calcium	98.5		P	80 - 120
2047120	Iron	100	96.0	P/P	80 - 120
2047120	Magnesium	95.5		P	80 - 120
2047120	Potassium	106	108	P/P	80 - 120
2047120	Sodium	93.1	91.9	P/P	80 - 120
2047120	Zinc	97.6	98.6	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P355896

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046820	Arsenic	104		P	80 - 120
2046820	Cadmium	104		P	80 - 120
2046820	Chromium	101		P	80 - 120
2046820	Copper	98.9		P	80 - 120
2046820	Lead	104		P	80 - 120
2046820	Nickel	98.1		P	80 - 120
2046820	Silver	103		P	80 - 120
2047120	Arsenic	108	107	P/P	80 - 120
2047120	Cadmium	107	108	P/P	80 - 120
2047120	Chromium	104	105	P/P	80 - 120
2047120	Copper	98.1	99.8	P/P	80 - 120
2047120	Lead	109	109	P/P	80 - 120
2047120	Nickel	101	100	P/P	80 - 120
2047120	Silver	107	108	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P356654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2044663	Copper	107		P	80 - 120
2047182	Copper	102	102	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046778	Chloride	91.9		P	90 - 110
2046835	Chloride	91.5		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356156

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046835	Sulfate	91.3		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P355906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046780	Ammonia-N	97.4	96.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P356222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046782	Kjeldahl Nitrogen	100	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P355840

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046780	NO2NO3-N	99.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P355881

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046780	Total-P	97.8	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P355900

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046914	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P355764

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046810	O-Phosphate-P	94.2	95.6	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P355765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046828	Acetochlor	104	108	P/P	67 - 125
2046828	Alachlor	110	105	P/P	69 - 123
2046828	Atrazine Desethyl	150	131	F/F	10 - 129
2046828	Azinphos Methyl	116	109	P/P	48 - 200
2046828	Bromacil	99.0	87.8	P/P	46 - 130
2046828	Butylate	71.2	81.7	P/P	10 - 85.0
2046828	Chlorpyrifos Ethyl	100	108	P/P	54 - 115
2046828	Chlorpyrifos Methyl	93.4	97.8	P/P	44 - 117
2046828	Cyanazine	253	259	P/P	10 - 262
2046828	Demeton	95.5	98.8	P/P	24 - 145
2046828	Diazinon	107	112	P/P	66 - 129
2046828	Dimethenamid	92.1	103	P/P	60 - 130
2046828	Disulfoton	98.0	105	P/P	45 - 139
2046828	Dithiopyr	98.2	101	P/P	60 - 130
2046828	EPTC	68.7	72.8	P/P	10 - 86.0
2046828	Ethion	40.3	53.1	F/F	59 - 133

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P355765

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046828	Ethoprop	87.0	88.3	P/P	54 - 116
2046828	Fenamiphos	105	81.4	P/P	55 - 140
2046828	Fipronil Desulfinyl	70.5	61.5	P/P	60 - 130
2046828	Fonofos	88.6	88.0	P/P	55 - 118
2046828	Hexazinone	86.9	94.1	P/P	62 - 140
2046828	Malathion	86.7	91.5	P/P	64 - 132
2046828	Metalaxyl	93.3	93.3	P/P	55 - 129
2046828	Metolachlor	108	112	P/P	56 - 137
2046828	Metribuzin	232	229	F/F	16 - 218
2046828	Mevinphos	84.8	85.7	P/P	34 - 129
2046828	Molinate	88.7	90.6	P/P	16 - 99.0
2046828	Norflurazon	89.3	82.2	P/P	43 - 135
2046828	Oxadiazon	89.0	87.4	P/P	60 - 130
2046828	Parathion Ethyl	87.4	92.1	P/P	71 - 112
2046828	Parathion Methyl	98.8	101	P/P	65 - 127
2046828	Pendimethalin	101	109	P/P	35 - 159
2046828	Phorate	96.6	92.4	P/P	41 - 129
2046828	Prodiamine	114	107	P/P	60 - 130
2046828	Prometon	104	98.4	P/P	56 - 140
2046828	Prometryn	82.7	81.2	P/P	65 - 130
2046828	Tebuconazole	23.3	38.3	F/P	30 - 100
2046828	Terbufos	99.8	102	P/P	53 - 126
2046828	Terbutylazine	91.7	95.7	P/P	73 - 114

Reference Method: EPA 8270D
Batch ID: P356023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046805	Aldrin	67.2	60.3	P/P	26 - 96.0
2046805	Alpha-BHC	102	99.7	P/P	51 - 123
2046805	Alpha-Chlordane	92.1	86.8	P/P	45 - 120
2046805	Beta-BHC	135	131	P/P	43 - 146
2046805	Carbophenothion	173	151	P/P	26 - 179
2046805	Chlorothalonil	172	173	P/P	10 - 215
2046805	Cypermethrin	104	95.5	P/P	35 - 169
2046805	DDD-p,p'	111	107	P/P	49 - 131
2046805	DDE-p,p'	87.8	80.7	P/P	39 - 127
2046805	DDT-p,p'	101	95.7	P/P	49 - 120
2046805	Delta-BHC	124	122	P/P	49 - 187
2046805	Dicofol	121	95.8	P/P	10 - 129
2046805	Dieldrin	95.2	90.7	P/P	46 - 132
2046805	Endosulfan I	99.6	93.6	P/P	57 - 130
2046805	Endosulfan II	154	137	F/P	52 - 148
2046805	Endosulfan Sulfate	114	109	P/P	55 - 129
2046805	Endrin	87.7	51.3	P/P	45 - 133
2046805	Endrin Aldehyde	94.0	81.4	P/P	26 - 140
2046805	Endrin Ketone	103	122	P/P	60 - 125
2046805	Gamma-BHC	115	113	P/P	50 - 145
2046805	Gamma-Chlordane	92.1	85.2	P/P	44 - 118
2046805	Heptachlor	81.6	72.0	P/P	35 - 106
2046805	Heptachlor Epoxide	92.9	88.6	P/P	52 - 123
2046805	Methoxychlor	121	78.0	P/P	54 - 132

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P356023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046805	Mirex	72.4	63.6	P/P	36 - 107
2046805	Permethrin	92.8	80.1	P/P	47 - 135
2046805	Trifluralin	93.3	89.2	P/P	32 - 228

Reference Method: EPA 8276
Batch ID: P356023

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046654	Chlordane	69.0	64.2	P/P	41 - 134
2046654	Toxaphene	60.3	53.0	P/P	39 - 158

Reference Method: EPA 8321B
Batch ID: P355712

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046825	3-Hydroxycarbofuran	69.9	58.9	P/P	40 - 150
2046825	Aldicarb	88.8	82.4	P/P	30 - 150
2046825	Aldicarb Sulfone	106	95.8	P/P	40 - 150
2046825	Aldicarb Sulfoxide	54.3	51.9	P/P	40 - 150
2046825	Carbaryl	63.3	58.3	P/P	40 - 150
2046825	Carbofuran	66.5	61.4	P/P	40 - 150
2046825	Methiocarb	56.4	51.3	P/P	40 - 150
2046825	Methomyl	104	98.3	P/P	40 - 150
2046825	Oxamyl	90.7	81.8	P/P	40 - 150
2046825	Propoxur	69.7	67.9	P/P	40 - 150
2046826	2,4-D	68.5	75.9	P/P	40 - 150
2046826	Acetaminophen	102	125	P/P	30 - 150
2046826	Bentazon	42.1	33.6	P/P	30 - 150
2046826	Carbamazepine	76.6	72.1	P/P	40 - 150
2046826	Diuron	62.0	62.4	P/P	40 - 150
2046826	Fenuron	92.2	104	P/P	40 - 150
2046826	Fluridone	104	108	P/P	40 - 150
2046826	Hydrocodone	100	103	P/P	40 - 150
2046826	Ibuprofen	54.4	61.9	P/P	40 - 150
2046826	Imazapyr	109	127	P/P	40 - 150
2046826	Imidacloprid	129	134	P/P	40 - 160
2046826	Linuron	59.3	61.2	P/P	40 - 150
2046826	MCPP	83.5	92.5	P/P	40 - 150
2046826	Naproxen	56.8	69.1	P/P	40 - 150
2046826	Primidone	96.9	91.6	P/P	40 - 150
2046826	Pyraclostrobin	51.2	59.3	P/P	40 - 150
2046826	Triclopyr	44.5	49.9	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P355853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046826	Acesulfame K	101	113	P/P	40 - 150
2046826	AMPA	86.2	74.5	P/P	40 - 140
2046826	Endothall	92.6	102	P/P	40 - 150
2046826	Glufosinate	90.2	84.4	P/P	40 - 150
2046826	Glyphosate	105	94.9	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P355853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046826	Sucralose	95.3	106	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P355949

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2047114	Fluoride	101	99.7	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P355856

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2046713	Organic Carbon	102		P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P355756

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046808	Turbidity	1.22	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P355896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2047120	Calcium	1.02	Spike	P	0 - 20
2047120	Iron	3.68	Spike	P	0 - 20
2047120	Magnesium	5.75	Spike	P	0 - 20
2047120	Potassium	2.06	Spike	P	0 - 20
2047120	Sodium	0.684	Spike	P	0 - 20
2047120	Zinc	1.03	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P355896

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2047120	Arsenic	0.623	Spike	P	0 - 20
2047120	Cadmium	0.642	Spike	P	0 - 20
2047120	Chromium	0.150	Spike	P	0 - 20
2047120	Copper	1.60	Spike	P	0 - 20
2047120	Lead	0.0487	Spike	P	0 - 20
2047120	Nickel	0.290	Spike	P	0 - 20
2047120	Silver	0.728	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P356654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2047182	Copper	0.228	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046778	Chloride	1.35	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P356156

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046778	Sulfate	0.980	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P355906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046780	Ammonia-N	0.634	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P356222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046782	Kjeldahl Nitrogen	2.84	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P355840

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046780	NO2NO3-N	0.222	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P355881

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046780	Total-P	1.40	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P355900

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046914	Total-P	0.589	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P355764

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046810	O-Phosphate-P	1.19	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P355765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046828	Acetochlor	3.62	Spike	P	0 - 30
2046828	Alachlor	5.52	Spike	P	0 - 30
2046828	Ametryn	10.8	Spike	P	0 - 30
2046828	Atrazine	4.43	Spike	P	0 - 30
2046828	Atrazine Desethyl	13.7	Spike	P	0 - 30
2046828	Azinphos Methyl	6.14	Spike	P	0 - 30
2046828	Bromacil	9.41	Spike	P	0 - 30
2046828	Butylate	13.7	Spike	P	0 - 30
2046828	Chlorpyrifos Ethyl	7.35	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P355765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046828	Chlorpyrifos Methyl	4.64	Spike	P	0 - 30
2046828	Cyanazine	2.71	Spike	P	0 - 30
2046828	Demeton	3.39	Spike	P	0 - 30
2046828	Diazinon	4.48	Spike	P	0 - 30
2046828	Dimethenamid	11.3	Spike	P	0 - 30
2046828	Disulfoton	6.75	Spike	P	0 - 30
2046828	Dithiopyr	2.36	Spike	P	0 - 30
2046828	EPTC	5.82	Spike	P	0 - 30
2046828	Ethion	27.5	Spike	P	0 - 30
2046828	Ethoprop	1.34	Spike	P	0 - 30
2046828	Fenamiphos	25.0	Spike	P	0 - 30
2046828	Fipronil	12.6	Spike	P	0 - 30
2046828	Fipronil Desulfinyl	9.88	Spike	P	0 - 30
2046828	Fipronil Sulfide	13.7	Spike	P	0 - 30
2046828	Fipronil Sulfone	19.9	Spike	P	0 - 30
2046828	Fonofos	0.697	Spike	P	0 - 30
2046828	Hexazinone	7.89	Spike	P	0 - 30
2046828	Malathion	5.31	Spike	P	0 - 30
2046828	Metalaxyl	0.0563	Spike	P	0 - 30
2046828	Metolachlor	3.85	Spike	P	0 - 30
2046828	Metribuzin	1.29	Spike	P	0 - 30
2046828	Mevinphos	1.13	Spike	P	0 - 30
2046828	Molinate	2.15	Spike	P	0 - 30
2046828	Norflurazon	8.32	Spike	P	0 - 30
2046828	Oxadiazon	1.68	Spike	P	0 - 30
2046828	Parathion Ethyl	5.16	Spike	P	0 - 30
2046828	Parathion Methyl	2.49	Spike	P	0 - 30
2046828	Pendimethalin	8.37	Spike	P	0 - 30
2046828	Phorate	4.44	Spike	P	0 - 30
2046828	Prodiamine	4.18	Spike	P	0 - 30
2046828	Prometon	5.76	Spike	P	0 - 30
2046828	Prometryn	1.72	Spike	P	0 - 30
2046828	Simazine	1.42	Spike	P	0 - 30
2046828	Tebuconazole	19.5	Spike	P	0 - 30
2046828	Terbufos	2.16	Spike	P	0 - 30
2046828	Terbuthylazine	4.24	Spike	P	0 - 30
LFB	Acetochlor	2.06	LCS	P	0 - 30
LFB	Alachlor	4.95	LCS	P	0 - 30
LFB	Ametryn	13.7	LCS	P	0 - 30
LFB	Atrazine	4.19	LCS	P	0 - 30
LFB	Atrazine Desethyl	7.05	LCS	P	0 - 30
LFB	Azinphos Methyl	7.68	LCS	P	0 - 30
LFB	Bromacil	5.19	LCS	P	0 - 30
LFB	Butylate	7.56	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.34	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.10	LCS	P	0 - 30
LFB	Cyanazine	24.9	LCS	P	0 - 30
LFB	Demeton	1.06	LCS	P	0 - 30
LFB	Diazinon	5.80	LCS	P	0 - 30
LFB	Dimethenamid	2.44	LCS	P	0 - 30
LFB	Disulfoton	2.83	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P355765

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Dithiopyr	2.85	LCS	P	0 - 30
LFB	EPTC	2.03	LCS	P	0 - 30
LFB	Ethion	22.2	LCS	P	0 - 30
LFB	Ethoprop	1.21	LCS	P	0 - 30
LFB	Fenamiphos	9.73	LCS	P	0 - 30
LFB	Fipronil	16.1	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	4.24	LCS	P	0 - 30
LFB	Fipronil Sulfide	25.8	LCS	P	0 - 30
LFB	Fipronil Sulfone	15.1	LCS	P	0 - 30
LFB	Fonofos	2.85	LCS	P	0 - 30
LFB	Hexazinone	8.72	LCS	P	0 - 30
LFB	Malathion	3.95	LCS	P	0 - 30
LFB	Metaxyl	1.20	LCS	P	0 - 30
LFB	Metolachlor	4.19	LCS	P	0 - 30
LFB	Metribuzin	11.3	LCS	P	0 - 30
LFB	Mevinphos	11.7	LCS	P	0 - 30
LFB	Molinate	1.07	LCS	P	0 - 30
LFB	Norflurazon	12.1	LCS	P	0 - 30
LFB	Oxadiazon	1.54	LCS	P	0 - 30
LFB	Parathion Ethyl	2.81	LCS	P	0 - 30
LFB	Parathion Methyl	2.50	LCS	P	0 - 30
LFB	Pendimethalin	0.335	LCS	P	0 - 30
LFB	Phorate	1.64	LCS	P	0 - 30
LFB	Prodiamine	3.12	LCS	P	0 - 30
LFB	Prometon	16.2	LCS	P	0 - 30
LFB	Prometryn	0.457	LCS	P	0 - 30
LFB	Simazine	5.26	LCS	P	0 - 30
LFB	Tebuconazole	1.24	LCS	P	0 - 30
LFB	Terbufos	2.91	LCS	P	0 - 30
LFB	Terbutylazine	9.87	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P356023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046805	Aldrin	10.8	Spike	P	0 - 30
2046805	Alpha-BHC	2.42	Spike	P	0 - 30
2046805	Alpha-Chlordane	5.95	Spike	P	0 - 30
2046805	Beta-BHC	3.00	Spike	P	0 - 30
2046805	Carbophenothion	13.8	Spike	P	0 - 30
2046805	Chlorothalonil	0.197	Spike	P	0 - 30
2046805	Cypermethrin	8.60	Spike	P	0 - 30
2046805	DDD-p,p'	4.01	Spike	P	0 - 30
2046805	DDE-p,p'	8.35	Spike	P	0 - 30
2046805	DDT-p,p'	4.93	Spike	P	0 - 30
2046805	Delta-BHC	1.60	Spike	P	0 - 30
2046805	Dicofol	23.2	Spike	P	0 - 30
2046805	Dieldrin	4.90	Spike	P	0 - 30
2046805	Endosulfan I	6.21	Spike	P	0 - 30
2046805	Endosulfan II	11.7	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P356023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046805	Endosulfan Sulfate	4.79	Spike	P	0 - 30
2046805	Endrin	52.5	Spike	F	0 - 30
2046805	Endrin Aldehyde	14.3	Spike	P	0 - 30
2046805	Endrin Ketone	16.4	Spike	P	0 - 30
2046805	Gamma-BHC	2.00	Spike	P	0 - 30
2046805	Gamma-Chlordane	7.71	Spike	P	0 - 30
2046805	Heptachlor	12.5	Spike	P	0 - 30
2046805	Heptachlor Epoxide	4.76	Spike	P	0 - 30
2046805	Methoxychlor	43.2	Spike	F	0 - 30
2046805	Mirex	13.0	Spike	P	0 - 30
2046805	Permethrin	14.7	Spike	P	0 - 30
2046805	Trifluralin	4.56	Spike	P	0 - 30
LFB	Aldrin	9.95	LCS	P	0 - 30
LFB	Alpha-BHC	10.7	LCS	P	0 - 30
LFB	Alpha-Chlordane	1.35	LCS	P	0 - 30
LFB	Beta-BHC	4.65	LCS	P	0 - 30
LFB	Carbophenothion	3.84	LCS	P	0 - 30
LFB	Chlorothalonil	7.93	LCS	P	0 - 30
LFB	Cypermethrin	8.56	LCS	P	0 - 30
LFB	DDD-p,p'	1.46	LCS	P	0 - 30
LFB	DDE-p,p'	0.825	LCS	P	0 - 30
LFB	DDT-p,p'	2.81	LCS	P	0 - 30
LFB	Delta-BHC	3.80	LCS	P	0 - 30
LFB	Dicofol	26.0	LCS	P	0 - 30
LFB	Dieldrin	1.40	LCS	P	0 - 30
LFB	Endosulfan I	3.83	LCS	P	0 - 30
LFB	Endosulfan II	0.441	LCS	P	0 - 30
LFB	Endosulfan Sulfate	5.47	LCS	P	0 - 30
LFB	Endrin	1.70	LCS	P	0 - 30
LFB	Endrin Aldehyde	0.946	LCS	P	0 - 30
LFB	Endrin Ketone	7.45	LCS	P	0 - 30
LFB	Gamma-BHC	9.66	LCS	P	0 - 30
LFB	Gamma-Chlordane	1.95	LCS	P	0 - 30
LFB	Heptachlor	6.24	LCS	P	0 - 30
LFB	Heptachlor Epoxide	4.64	LCS	P	0 - 30
LFB	Methoxychlor	10.6	LCS	P	0 - 30
LFB	Mirex	7.54	LCS	P	0 - 30
LFB	Permethrin	11.4	LCS	P	0 - 30
LFB	Trifluralin	5.66	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P356023

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046654	Chlordane	7.18	Spike	P	0 - 30
2046654	Toxaphene	12.7	Spike	P	0 - 30
LFB	Chlordane	4.24	LCS	P	0 - 30
LFB	Toxaphene	5.23	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P355712

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046825	3-Hydroxycarbofuran	17.1	Spike	P	0 - 30
2046825	Aldicarb	7.42	Spike	P	0 - 30
2046825	Aldicarb Sulfone	10.5	Spike	P	0 - 30
2046825	Aldicarb Sulfoxide	4.52	Spike	P	0 - 30
2046825	Carbaryl	8.14	Spike	P	0 - 30
2046825	Carbofuran	8.02	Spike	P	0 - 30
2046825	Methiocarb	9.56	Spike	P	0 - 30
2046825	Methomyl	5.33	Spike	P	0 - 30
2046825	Oxamyl	10.3	Spike	P	0 - 30
2046825	Propoxur	2.63	Spike	P	0 - 30
2046826	2,4-D	7.32	Spike	P	0 - 30
2046826	Acetaminophen	15.5	Spike	P	0 - 30
2046826	Bentazon	13.6	Spike	P	0 - 30
2046826	Carbamazepine	4.42	Spike	P	0 - 30
2046826	Diuron	0.455	Spike	P	0 - 30
2046826	Fenuron	11.7	Spike	P	0 - 30
2046826	Fluridone	4.37	Spike	P	0 - 30
2046826	Hydrocodone	2.63	Spike	P	0 - 30
2046826	Ibuprofen	12.9	Spike	P	0 - 30
2046826	Imazapyr	7.43	Spike	P	0 - 30
2046826	Imidacloprid	3.24	Spike	P	0 - 30
2046826	Linuron	3.20	Spike	P	0 - 30
2046826	MCP	9.16	Spike	P	0 - 30
2046826	Naproxen	19.6	Spike	P	0 - 30
2046826	Primidone	5.64	Spike	P	0 - 30
2046826	Pyraclostrobin	14.6	Spike	P	0 - 30
2046826	Triclopyr	11.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P355853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046826	Acesulfame K	9.46	Spike	P	0 - 30
2046826	AMPA	14.6	Spike	P	0 - 30
2046826	Endothall	9.75	Spike	P	0 - 30
2046826	Glufosinate	6.69	Spike	P	0 - 30
2046826	Glyphosate	10.0	Spike	P	0 - 30
2046826	Sucralose	7.76	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P355790

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046834	Color (true)	1.80	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P355946

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2047114	Total Alkalinity	0.572	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P356113

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046484	TDS	6.64	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P356115

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046779	TDS	2.05	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P356003

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046484	TSS	6.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P355949

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2047114	Fluoride	0.979	Spike	P	0 - 3.5

Reference Method: SM 5310 B-00
 Batch ID: P355856

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2046713	Organic Carbon	0.843	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: 2046825
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	59.5	P	30 - 160

Lab Sample ID: 2046826
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	60.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	106	P	30 - 160
EPA 8321B	Carbamazepine-d10	68.2	P	30 - 160
EPA 8321B	Diuron-d6	70.5	P	30 - 160
EPA 8321B	Endothall-d6	129	P	40 - 160
EPA 8321B	Endothall-d6	129	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	60.7	P	40 - 160
EPA 8321B	Glyphosate 13C 15N	60.7	P	40 - 160
EPA 8321B	Ibuprofen-d3	62.3	P	30 - 160
EPA 8321B	Primidone-d5	92.7	P	30 - 160
EPA 8321B	Sucralose-d6	110	P	40 - 160
EPA 8321B	Sucralose-d6	110	P	40 - 160

Lab Sample ID: 2046827
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	81.6	P	37 - 117
EPA 8270D	Tetrachloro-m-xylene	60.8	P	34 - 101
EPA 8276	Decachlorobiphenyl	67.2	P	31 - 108
EPA 8276	PCNB	92.8	P	62 - 142

Lab Sample ID: 2046828
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	88.2	P	71 - 126
EPA 8270D	Terbufos-d10	119	P	59 - 149

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A88214

Included Lab Sample IDs: 2046808, 2046811

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A88215

Included Lab Sample IDs: 2046810, 2046813

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.4	98.5	P/P	90 - 110
O-Phosphate-P	99.4	98.4	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A88222

Included Lab Sample IDs: 2046808, 2046811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.5	100	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A88232

Included Lab Sample IDs: 2046809, 2046812

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

Reference Method: SM 5310 B-00

Run ID: A88239

Included Lab Sample IDs: 2046809, 2046812

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A88258

Included Lab Sample IDs: 2046809, 2046812

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

Reference Method: SM 2320 B-97

Run ID: A88275

Included Lab Sample IDs: 2046808, 2046811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A88275

Included Lab Sample IDs: 2046808, 2046811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
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Quality Assurance Report Calibration Verification

Reference Method: SM 4500 F-C-97

Run ID: A88275

Included Lab Sample IDs: 2046808, 2046811

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A88289

Included Lab Sample IDs: 2046829, 2046830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	104	102	P/P	95 - 105
Calcium	98.4	97.1	P/P	90 - 110
Iron	102	101	P/P	95 - 105
Iron	95.0	93.6	P/P	90 - 110
Magnesium	101	100	P/P	95 - 105
Magnesium	95.9	94.4	P/P	90 - 110
Potassium	101	98.5	P/P	95 - 105
Potassium	99.6	98.1	P/P	90 - 110
Sodium	94.4	94.4	P/P	90 - 110
Sodium	98.7	96.7	P/P	95 - 105
Zinc	100	101	P/P	95 - 105
Zinc	100	98.3	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A88298

Included Lab Sample IDs: 2046826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	124	113	P/P	60 - 150
Endothall	84.7	100	P/P	60 - 150

Reference Method: EPA 8321B

Run ID: A88301

Included Lab Sample IDs: 2046826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	104	93.5	P/P	60 - 150
Glufosinate	110	114	P/P	60 - 150
Glyphosate	106	119	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A88309

Included Lab Sample IDs: 2046809

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A88319

Included Lab Sample IDs: 2046829, 2046830

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A88319

Included Lab Sample IDs: 2046829, 2046830

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	101	103	P/P	90 - 110
Cadmium	105	101	P/P	90 - 110
Chromium	102	104	P/P	90 - 110
Chromium	106	102	P/P	90 - 110
Copper	104	103	P/P	90 - 110
Lead	105	106	P/P	90 - 110
Lead	107	105	P/P	90 - 110
Nickel	103	102	P/P	90 - 110
Nickel	104	103	P/P	90 - 110
Silver	103	103	P/P	90 - 110
Silver	106	103	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A88324

Included Lab Sample IDs: 2046808, 2046811

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	99.2	P/P	90 - 110
Sulfate	99.9	98.4	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A88326

Included Lab Sample IDs: 2046826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	105	106	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A88328

Included Lab Sample IDs: 2046812

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

Reference Method: EPA 8276

Run ID: A88370

Included Lab Sample IDs: 2046827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.3		P	80 - 120
Toxaphene	95.0		P	80 - 120

Reference Method: EPA 8270D

Run ID: A88371

Included Lab Sample IDs: 2046827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.0		P	80 - 120
Alpha-BHC	95.1		P	80 - 120
Alpha-Chlordane	94.1		P	80 - 120
Beta-BHC	94.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D
Run ID: A88371
Included Lab Sample IDs: 2046827

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	94.5		P	80 - 120
Chlorothalonil	95.1		P	80 - 120
Cypermethrin	94.5		P	80 - 120
DDD-p,p'	96.0		P	80 - 120
DDE-p,p'	95.6		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	93.4		P	80 - 120
Dicofol	97.3		P	80 - 120
Dieldrin	98.3		P	80 - 120
Endosulfan I	96.0		P	80 - 120
Endosulfan II	93.4		P	80 - 120
Endosulfan Sulfate	94.5		P	80 - 120
Endrin	93.0		P	80 - 120
Endrin Aldehyde	92.0		P	80 - 120
Endrin Ketone	94.7		P	80 - 120
Gamma-BHC	98.0		P	80 - 120
Gamma-Chlordane	94.4		P	80 - 120
Heptachlor	94.1		P	80 - 120
Heptachlor Epoxide	94.5		P	80 - 120
Methoxychlor	99.2		P	80 - 120
Mirex	96.9		P	80 - 120
Permethrin	89.2		P	80 - 120
Trifluralin	94.4		P	80 - 120

Reference Method: EPA 8321B
Run ID: A88378
Included Lab Sample IDs: 2046826

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	93.5	88.6	P/P	50 - 150
3-Hydroxycarbofuran	112	115	P/P	50 - 150
Acetaminophen	96.5	99.6	P/P	60 - 160
Aldicarb	110	87.9	P/P	60 - 150
Aldicarb Sulfone	101	114	P/P	50 - 150
Aldicarb Sulfoxide	99.6	108	P/P	50 - 150
Bentazon	91.8	89.8	P/P	50 - 160
Carbamazepine	113	113	P/P	60 - 160
Carbaryl	99.8	101	P/P	60 - 150
Carbofuran	104	106	P/P	50 - 150
Diuron	109	108	P/P	60 - 150
Fenuron	93.9	106	P/P	60 - 150
Fluridone	107	113	P/P	60 - 160
Hydrocodone	106	99.6	P/P	60 - 150
Ibuprofen	101	87.2	P/P	50 - 160
Imazapyr	128	117	P/P	50 - 150
Imidacloprid	80.0	85.2	P/P	60 - 160
Linuron	97.6	107	P/P	60 - 150
MCPP	93.9	89.9	P/P	50 - 150
Methiocarb	98.1	109	P/P	50 - 150
Methomyl	93.9	92.9	P/P	50 - 150
Naproxen	104	85.6	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A88378

Included Lab Sample IDs: 2046825

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Oxamyl	111	102	P/P	50 - 150
Primidone	103	106	P/P	60 - 160
Propoxur	104	103	P/P	50 - 150
Pyraclostrobin	100	99.2	P/P	60 - 150
Triclopyr	100	93.5	P/P	50 - 160

Reference Method: EPA 8270D

Run ID: A88401

Included Lab Sample IDs: 2046828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	92.5		P	80 - 120
Alachlor	96.3		P	80 - 120
Ametryn	104		P	80 - 120
Atrazine Desethyl	104		P	80 - 120
Azinphos Methyl	93.0		P	80 - 120
Bromacil	102		P	80 - 120
Butylate	99.5		P	80 - 120
Chlorpyrifos Ethyl	96.1		P	80 - 120
Chlorpyrifos Methyl	98.6		P	80 - 120
Cyanazine	96.9		P	80 - 120
Demeton	61.6*		F	80 - 120
Diazinon	94.8		P	80 - 120
Dimethenamid	95.0		P	80 - 120
Disulfoton	98.3		P	80 - 120
Dithiopyr	94.5		P	80 - 120
EPTC	94.6		P	80 - 120
Ethion	98.3		P	80 - 120
Ethoprop	97.1		P	80 - 120
Fenamiphos	97.5		P	80 - 120
Fipronil	91.7		P	80 - 120
Fipronil Desulfinyl	89.1		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	97.1		P	80 - 120
Fonofos	94.2		P	80 - 120
Hexazinone	98.4		P	80 - 120
Malathion	95.3		P	80 - 120
Metaxalyl	97.7		P	80 - 120
Metolachlor	97.3		P	80 - 120
Metribuzin	96.1		P	80 - 120
Mevinphos	97.3		P	80 - 120
Molinate	94.6		P	80 - 120
Norflurazon	92.0		P	80 - 120
Oxadiazon	97.6		P	80 - 120
Parathion Ethyl	95.7		P	80 - 120
Parathion Methyl	95.5		P	80 - 120
Pendimethalin	97.5		P	80 - 120
Phorate	94.2		P	80 - 120
Prodiamine	101		P	80 - 120
Prometon	89.2		P	80 - 120
Prometryn	95.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A88401

Included Lab Sample IDs: 2046828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tebuconazole	92.5		P	80 - 120
Terbufos	96.3		P	80 - 120
Terbuthylazine	93.8		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A88403

Included Lab Sample IDs: 2046809, 2046812

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

Reference Method: EPA 8270D

Run ID: A88404

Included Lab Sample IDs: 2046828

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	95.8		P	80 - 120
Simazine	94.0		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A88578

Included Lab Sample IDs: 2046829

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Copper	104	107	P/P	90 - 110

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

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							1.22	
EPA 200.7 Rev. 4.4	Calcium	103		98.5					1.02
	Iron	105		100	100	96.0			3.68
	Magnesium	101		97.9	95.5				5.75
	Potassium	102		99.8	106	108			2.06
	Sodium	89.4		97.3	93.1	91.9			0.684
	Zinc	101		103	97.6	98.6			1.03
EPA 200.8 Rev. 5.4	Arsenic	105		104	108	107			0.623
	Cadmium	106		104	107	108			0.642
	Chromium	105		101	104	105			0.150
	Copper	102		98.9	98.1	99.8			1.60
	Copper	107		107	102	102			0.228
	Lead	107		104	109	109			0.0487
	Nickel	102		98.1	101	100			0.290
	Silver	106		103	107	108			0.728
EPA 300.0 Rev. 2.1	Chloride	96.9		91.9	91.5			1.35	
	Sulfate	95.9		91.3				0.980	
EPA 350.1 Rev. 2.0	Ammonia-N	97.3		97.4	96.3				0.634
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107		100	104				2.84
EPA 353.2 Rev. 2.0	NO2NO3-N	100		99.5					0.222
EPA 365.1 Rev. 2.0	Total-P	102		97.8	100				1.40
	Total-P	95.6		102	103				0.589
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	97.7		94.2	95.6				1.19
EPA 8270D	Acetochlor	97.3	95.3	104	108		2.06		3.62
	Alachlor	95.2	100	110	105		4.95		5.52
	Aldrin	58.3	52.8	67.2	60.3		9.95		10.8
	Alpha-BHC	110	98.7	102	99.7		10.7		2.42
	Alpha-Chlordane	90.2	89.0	92.1	86.8		1.35		5.95
	Ametryn	124	142				13.7		10.8
	Atrazine	108	104				4.19		4.43
	Atrazine Desethyl	90.8	84.6	150	131		7.05		13.7
	Azinphos Methyl	103	95.2	116	109		7.68		6.14
	Beta-BHC	128	122	135	131		4.65		3.00
	Bromacil	91.2	86.6	99.0	87.8		5.19		9.41
	Butylate	66.3	71.5	71.2	81.7		7.56		13.7
	Carbophenothion	111	115	173	151		3.84		13.8
	Chlorothalonil	116	126	172	173		7.93		0.197
	Chlorpyrifos Ethyl	101	102	100	108		1.34		7.35
	Chlorpyrifos Methyl	97.1	99.2	93.4	97.8		2.10		4.64
	Cyanazine	260	202	253	259		24.9		2.71
	Cypermethrin	87.3	80.1	104	95.5		8.56		8.60
	DDD-p,p'	107	106	111	107		1.46		4.01
	DDE-p,p'	84.5	83.8	87.8	80.7		0.825		8.35
	DDT-p,p'	97.0	94.3	101	95.7		2.81		4.93
	Delta-BHC	130	125	124	122		3.80		1.60
	Demeton	89.3	90.2	95.5	98.8		1.06		3.39
	Diazinon	93.0	98.6	107	112		5.80		4.48
	Dicofol	116	89.1	121	95.8		26.0		23.2
	Dieldrin	93.5	94.8	95.2	90.7		1.40		4.90
	Dimethenamid	95.8	93.5	92.1	103		2.44		11.3
	Disulfoton	97.7	94.9	98.0	105		2.83		6.75
	Dithiopyr	101	98.4	98.2	101		2.85		2.36
	Endosulfan I	96.5	92.8	99.6	93.6		3.83		6.21
	Endosulfan II	105	106	154	137		0.441		11.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endosulfan Sulfate	97.5	92.3	114	109	5.47	4.79
	Endrin	83.4	84.9	87.7	51.3	1.70	52.5
	Endrin Aldehyde	102	103	94.0	81.4	0.946	14.3
	Endrin Ketone	98.6	91.5	103	122	7.45	16.4
	EPTC	65.8	64.5	68.7	72.8	2.03	5.82
	Ethion	88.6	70.9	40.3	53.1	22.2	27.5
	Ethoprop	87.4	88.5	87.0	88.3	1.21	1.34
	Fenamiphos	78.8	86.9	105	81.4	9.73	25.0
	Fipronil	68.0	79.9			16.1	12.6
	Fipronil Desulfinyl	69.6	66.8	70.5	61.5	4.24	9.88
	Fipronil Sulfide	70.2	91.0			25.8	13.7
	Fipronil Sulfone	65.3	75.9			15.1	19.9
	Fonofos	87.7	90.2	88.6	88.0	2.85	0.697
	Gamma-BHC	122	111	115	113	9.66	2.00
	Gamma-Chlordane	88.3	86.5	92.1	85.2	1.95	7.71
	Heptachlor	76.6	72.0	81.6	72.0	6.24	12.5
	Heptachlor Epoxide	94.2	89.9	92.9	88.6	4.64	4.76
	Hexazinone	101	92.2	86.9	94.1	8.72	7.89
	Malathion	97.1	93.4	86.7	91.5	3.95	5.31
	Metalaxyl	91.7	90.6	93.3	93.3	1.20	0.0563
	Methoxychlor	118	106	121	78.0	10.6	43.2
	Metolachlor	99.9	95.8	108	112	4.19	3.85
	Metribuzin	199	223	232	229	11.3	1.29
	Mevinphos	82.5	73.4	84.8	85.7	11.7	1.13
	Mirex	64.7	60.0	72.4	63.6	7.54	13.0
	Molinate	76.0	76.9	88.7	90.6	1.07	2.15
	Norflurazon	70.8	79.9	89.3	82.2	12.1	8.32
	Oxadiazon	95.4	96.8	89.0	87.4	1.54	1.68
	Parathion Ethyl	86.3	88.7	87.4	92.1	2.81	5.16
	Parathion Methyl	100	97.9	98.8	101	2.50	2.49
	Pendimethalin	93.3	93.0	101	109	0.335	8.37
	Permethrin	80.3	71.6	92.8	80.1	11.4	14.7
	Phorate	96.4	94.9	96.6	92.4	1.64	4.44
	Prodiamine	90.0	92.8	114	107	3.12	4.18
	Prometon	74.2	87.3	104	98.4	16.2	5.76
	Prometryn	88.1	87.7	82.7	81.2	0.457	1.72
	Simazine	104	98.9			5.26	1.42
	Tebuconazole	63.6	64.4	23.3	38.3	1.24	19.5
	Terbufos	96.3	99.2	99.8	102	2.91	2.16
	Terbuthylazine	101	91.1	91.7	95.7	9.87	4.24
	Trifluralin	87.0	82.2	93.3	89.2	5.66	4.56
EPA 8276	Chlordane	60.6	58.0	69.0	64.2	4.24	7.18
	Toxaphene	57.5	54.6	60.3	53.0	5.23	12.7
EPA 8321B	2,4-D	76.2		68.5	75.9		7.32
	3-Hydroxycarbofuran	72.6		69.9	58.9		17.1
	Acesulfame K	118		101	113		9.46
	Acetaminophen	92.6		102	125		15.5
	Aldicarb	76.2		88.8	82.4		7.42
	Aldicarb Sulfone	106		106	95.8		10.5
	Aldicarb Sulfoxide	128		54.3	51.9		4.52
	AMPA	122		86.2	74.5		14.6
	Bentazon	74.7		42.1	33.6		13.6
	Carbamazepine	80.8		76.6	72.1		4.42
	Carbaryl	79.2		63.3	58.3		8.14

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8321B	Carbofuran	78.4	66.5	61.4			8.02
	Diuron	81.8	62.0	62.4			0.455
	Endothall	96.0	92.6	102			9.75
	Fenuron	112	92.2	104			11.7
	Fluridone	107	104	108			4.37
	Glufosinate	106	90.2	84.4			6.69
	Glyphosate	104	105	94.9			10.0
	Hydrocodone	102	100	103			2.63
	Ibuprofen	64.2	54.4	61.9			12.9
	Imazapyr	112	109	127			7.43
	Imidacloprid	78.5	129	134			3.24
	Linuron	76.1	59.3	61.2			3.20
	MCPP	95.0	83.5	92.5			9.16
	Methiocarb	64.4	56.4	51.3			9.56
	Methomyl	97.9	104	98.3			5.33
	Naproxen	77.5	56.8	69.1			19.6
	Oxamyl	95.5	90.7	81.8			10.3
	Primidone	86.2	96.9	91.6			5.64
	Propoxur	87.1	69.7	67.9			2.63
	Pyraclostrobin	52.3	51.2	59.3			14.6
	Sucralose	99.8	95.3	106			7.76
	Triclopyr	58.3	44.5	49.9			11.4
SM 2120 B	Color (true)	99.4				1.80	
SM 2320 B-97	Total Alkalinity	99.8				0.572	
SM 2540 C-97	TDS					6.64	
	TDS					2.05	
SM 2540 D-97	TSS					6.67	
SM 4500 F-C-97	Fluoride	98.9	101	99.7			0.979
SM 5310 B-00	Organic Carbon	101	102				0.843

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2046808, 2046811
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2046829, 2046830
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2046829, 2046830
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2046808, 2046811
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2046808, 2046811
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2046809, 2046812
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2046809, 2046812
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2046809, 2046812
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2046809, 2046812
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2046810, 2046813
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2046827
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2046828

Reference Method Descriptions

Method / DoH Cert #	Description	<u>Associated Samples</u>
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2046827
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2046825
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2046826
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2046826
SM 2120 B / E31780	True Color measured at 450 nm	2046808, 2046811
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2046808, 2046811
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2046808, 2046811
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2046808, 2046811
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2046808, 2046811
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2046809, 2046812

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	12/06/2018			12/06/2018 16:50	Megan Treadwell	2046808, 2046811
EPA 200.7 Rev. 4.4	12/06/2018	12/10/2018 17:55	Elliott D. Healy	12/11/2018 18:44	Martin Acosta	2046830
	12/06/2018	12/10/2018 17:55	Elliott D. Healy	12/11/2018 21:17	Martin Acosta	2046829
EPA 200.8 Rev. 5.4	12/06/2018	12/10/2018 17:55	Elliott D. Healy	12/12/2018 08:54	Allison Taylor	2046830
	12/06/2018	12/10/2018 17:55	Elliott D. Healy	12/12/2018 10:57	Allison Taylor	2046829
	12/06/2018	12/27/2018 16:45	Elliott D. Healy	12/29/2018 01:40	Allison Taylor	2046829
EPA 300.0 Rev. 2.1	12/06/2018			12/13/2018 19:51	Lipi Saha	2046808
	12/06/2018			12/13/2018 20:03	Lipi Saha	2046811
EPA 350.1 Rev. 2.0	12/06/2018			12/07/2018 13:53	Ping Hua	2046809
	12/06/2018			12/07/2018 13:59	Ping Hua	2046812
EPA 351.2 Rev. 2.0	12/06/2018	12/14/2018 12:30	Adrian Shelby	12/17/2018 15:06	Chelsea Hernandez	2046809
	12/06/2018	12/14/2018 12:30	Adrian Shelby	12/17/2018 15:08	Chelsea Hernandez	2046812
EPA 353.2 Rev. 2.0	12/06/2018			12/07/2018 13:32	Lauren Bottorf	2046812
	12/06/2018			12/07/2018 14:34	Lauren Bottorf	2046809
EPA 365.1 Rev. 2.0	12/06/2018	12/10/2018 12:50	Sima Feizi	12/11/2018 14:34	Beverly Y. Sanders	2046809
	12/06/2018	12/11/2018 11:15	Sima Feizi	12/12/2018 14:58	Beverly Y. Sanders	2046812
EPA 365.1 Rev. 2.0 dissolved	12/06/2018			12/06/2018 14:44	Jhamieka S. Greenwood	2046810
	12/06/2018			12/06/2018 15:02	Jhamieka S. Greenwood	2046813
EPA 8270D	12/06/2018	12/07/2018 09:00	Fe-Val Siddell	12/11/2018 15:39	Vandana T. Nagar	2046828
	12/06/2018	12/07/2018 09:00	Fe-Val Siddell	12/12/2018 14:20	Vandana T. Nagar	2046828
	12/06/2018	12/10/2018 09:30	Rasheda Ghaffari	12/13/2018 21:54	Dinesh Mishra	2046827
EPA 8276	12/06/2018	12/10/2018 09:30	Rasheda Ghaffari	12/14/2018 05:49	Arthur Maknenko	2046827
EPA 8321B	12/06/2018	12/11/2018 12:30	Rebecca Ware	12/11/2018 15:50	Rebecca Ware	2046826
	12/06/2018	12/11/2018 12:30	Rebecca Ware	12/12/2018 09:26	Rebecca Ware	2046826
	12/06/2018	12/11/2018 12:30	Rebecca Ware	12/12/2018 17:33	Mohammad Ghaffari	2046826
	12/06/2018	12/12/2018 10:00	Hoor Shaik	12/13/2018 21:22	Juyoung Kim	2046825
	12/06/2018	12/12/2018 10:00	Hoor Shaik	12/13/2018 23:40	Juyoung Kim	2046826
SM 2120 B	12/06/2018			12/06/2018 17:22	Chelsea Hernandez	2046808
	12/06/2018			12/06/2018 17:23	Chelsea Hernandez	2046811
SM 2320 B-97	12/06/2018			12/11/2018 02:09	Lauren Bottorf	2046811
	12/06/2018			12/11/2018 03:27	Lauren Bottorf	2046808
SM 2540 C-97	12/06/2018			12/10/2018 14:10	Yijie Li	2046808, 2046811
SM 2540 D-97	12/06/2018			12/10/2018 14:10	Yijie Li	2046808, 2046811
SM 4500 F-C-97	12/06/2018			12/11/2018 02:09	Lauren Bottorf	2046811
	12/06/2018			12/11/2018 03:27	Lauren Bottorf	2046808
SM 5310 B-00	12/06/2018			12/08/2018 01:06	Megan Treadwell	2046809
	12/06/2018			12/08/2018 01:20	Megan Treadwell	2046812