

Chemical Analysis Report

NW-DIST-2019-04-03-01

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

Event Description: **PACE RUN**
Request ID: **RQ-2019-04-01-42**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 25-APR-2019 18:09



NON-CONFORMANCE REPORT INCLUDED

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: BIG COLDWATER CREEK (EAST FORK)
 UPSTREAM OF SPRINGHILL RD**

Collection Date/Time: 04/02/2019 10:15

Field ID: G4NW0434

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074553	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P361522	
	EPA 300.0 Rev. 2.1	Chloride	3.3		mg Cl/L	P361867	
		Sulfate	0.77		mg SO4/L	P361869	
	SM 2120 B	Color (true)	16		PCU	P361547	
	SM 2320 B-97	Total Alkalinity	1.3	I	mg CaCO3/L	P361854	
	SM 2540 C-97	TDS	21	I	mg/L	P362128	
	SM 2540 D-97	TSS	3	I	mg/L	P362038	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362443	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P361943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.091	I	mg N/L	P361750	
2074555	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P361626	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P361581	
	SM 5310 B-00	Organic Carbon	1.7		mg C/L	P361614	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P361530	
	dissolved						

Ref. Method and Comment:

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

**Sample Location: BIG COLDWATER CREEK (EAST FORK)
 UPSTREAM OF SPRINGHILL RD**

Collection Date/Time: 04/02/2019 10:20

Field ID: G4NW0434_DUP

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074554	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P361522	
	EPA 300.0 Rev. 2.1	Chloride	3.3		mg Cl/L	P361867	
		Sulfate	0.79		mg SO4/L	P361869	
	SM 2120 B	Color (true)	16		PCU	P361547	
	SM 2320 B-97	Total Alkalinity	1.5	I	mg CaCO3/L	P361854	
	SM 2540 C-97	TDS	23	I	mg/L	P362128	
	SM 2540 D-97	TSS	2	I	mg/L	P362038	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362443	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P361943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.091	I	mg N/L	P361829	
2074556	EPA 353.2 Rev. 2.0	NO2NO3-N	0.33		mg N/L	P361626	
	EPA 365.1 Rev. 2.0	Total-P	0.004	I	mg P/L	P361581	
	SM 5310 B-00	Organic Carbon	1.7		mg C/L	P361614	
	EPA 365.1 Rev. 2.0	O-Phosphate-P	0.004	U	mg P/L	P361530	
	dissolved						

Ref. Method and Comment:

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

**Sample Location: BIG COLDWATER CREEK (EAST FORK)
 UPSTREAM OF SPRINGHILL RD**

Collection Date/Time: 04/02/2019 10:25

Field ID: FB_04022019

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074559	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P361523	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P361867	
		Sulfate	0.20	U	mg SO4/L	P361869	
	SM 2120 B	Color (true)	2.5	U	PCU	P361548	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P361854	
	SM 2540 C-97	TDS	15	U	mg/L	P362127	
	SM 2540 D-97	TSS	2	U	mg/L	P362037	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362443	
2074560	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P361944	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P361753	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P361626	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P361622	
	SM 5310 B-00	Organic Carbon	0.50	U	mg C/L	P361614	
2074561	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P361528	

Ref. Method and Comment:

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

Sample Location: MANNING CREEK UPSTREAM OF MANNING CREEK RD

Collection Date/Time: 04/02/2019 10:40

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074547	EPA 180.1 Rev. 2.0	Turbidity	2.0		NTU	P361522	
	EPA 300.0 Rev. 2.1	Chloride	5.4		mg Cl/L	P361867	
		Sulfate	0.57	I	mg SO4/L	P361869	
	SM 2120 B	Color (true)	20		PCU	P361547	
	SM 2320 B-97	Total Alkalinity	2.5		mg CaCO3/L	P361854	
	SM 2540 C-97	TDS	29		mg/L	P362128	
	SM 2540 D-97	TSS	3	I	mg/L	P362038	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362443	
2074549	EPA 350.1 Rev. 2.0	Ammonia-N	0.006		mg N/L	P361943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.22		mg N/L	P361750	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.7		mg N/L	P361625	
	EPA 365.1 Rev. 2.0	Total-P	0.009		mg P/L	P361581	
	SM 5310 B-00	Organic Carbon	1.5		mg C/L	P361614	
2074551	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P361528	
2074599	EPA 8270D	Aldrin	4.4	U	ng/L	P361571	
		Alpha-BHC	2.2	U	ng/L	P361571	
		Alpha-Chlordane	1.1	U	ng/L	P361571	
		Beta-BHC	11	U	ng/L	P361571	MS
		Bifenthrin**	4.4	U	ng/L	P361571	
		Delta-BHC	11	U	ng/L	P361571	
		Gamma-BHC	11	U	ng/L	P361571	MS, RPD
		Carbophenothion	13	U	ng/L	P361571	
		Chlorothalonil	2.2	UJ	ng/L	P361571	LCS, RPD
		Cis-Nonachlor**	1.1	U	ng/L	P361571	
		Cypermethrin	22	U	ng/L	P361571	
		DDD-p,p'	8.8	U	ng/L	P361571	
		DDE-p,p'	8.8	U	ng/L	P361571	
		DDT-p,p'	11	U	ng/L	P361571	
		Dicofol	33	U	ng/L	P361571	
		Dieldrin	4.4	U	ng/L	P361571	
		Endosulfan I	4.4	U	ng/L	P361571	
		Endosulfan II	4.4	U	ng/L	P361571	
		Endosulfan Sulfate	2.2	U	ng/L	P361571	
		Endrin	2.2	U	ng/L	P361571	
		Endrin Aldehyde	2.2	U	ng/L	P361571	
		Endrin Ketone	2.2	U	ng/L	P361571	
		Ethalfuralin**	3.3	U	ng/L	P361571	
		Gamma-Chlordane	1.1	U	ng/L	P361571	
		Heptachlor	1.6	U	ng/L	P361571	
		Heptachlor Epoxide	2.2	U	ng/L	P361571	
		Hexachlorobenzene**	2.2	U	ng/L	P361571	
		Methoxychlor	4.4	U	ng/L	P361571	

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074599	EPA 8270D	Mirex	2.2	UJ	ng/L	P361571	LCS
		Permethrin	11	UJ	ng/L	P361571	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P361571	
		Trifluralin	2.7	U	ng/L	P361571	
		Chlordane	5.5	U	ng/L	P361571	
2074601	EPA 8270D	Toxaphene	33	U	ng/L	P361571	
		Acetochlor	0.26	UJ	ng/L	P361536	SUR
		Alachlor	0.26	UJ	ng/L	P361536	SUR
		Ametryn	0.63	UJ	ng/L	P361536	SUR
		Atrazine	0.26	UJ	ng/L	P361536	SUR
		Atrazine Desethyl	1.6	UJ	ng/L	P361536	SUR
		Azinphos Methyl	5.3	U	ng/L	P361536	
		Bromacil	0.53	UJ	ng/L	P361536	SUR
		Butylate	0.42	UJ	ng/L	P361536	SUR
		Chlorpyrifos Ethyl	0.26	UJ	ng/L	P361536	LCS, MS
		Chlorpyrifos Methyl	0.11	U	ng/L	P361536	MS
		Cyanazine	3.4	UJ	ng/L	P361536	SUR
		Demeton	7.4	U	ng/L	P361536	
		Diazinon	0.13	U	ng/L	P361536	
		Dimethenamid**	0.11	UJ	ng/L	P361536	SUR
		Disulfoton	0.53	U	ng/L	P361536	
		Dithiopyr**	0.11	UJ	ng/L	P361536	SUR
		EPTC	1.3	UJ	ng/L	P361536	RPD, SUR
		Ethion	0.16	U	ng/L	P361536	
		Ethoprop	0.11	U	ng/L	P361536	
		Fenamiphos	0.53	U	ng/L	P361536	
		Fipronil	0.26	UJ	ng/L	P361536	SUR
		Fipronil Desulfinyl**	0.13	UJ	ng/L	P361536	SUR
		Fipronil Sulfide	0.16	UJ	ng/L	P361536	SUR
		Fipronil Sulfone	0.16	UJ	ng/L	P361536	SUR
		Fonofos	0.21	U	ng/L	P361536	
		Hexazinone	3.4	J	ng/L	P361536	SUR
		Malathion	0.37	UJ	ng/L	P361536	LCS, MS
		Metalaxyl	0.32	UJ	ng/L	P361536	SUR
		Metolachlor	19	J	ng/L	P361536	SUR
		Metribuzin	0.79	UJ	ng/L	P361536	SUR
		Mevinphos	0.53	U	ng/L	P361536	
		Molinate	0.32	UJ	ng/L	P361536	SUR
		Norflurazon	0.58	IJ	ng/L	P361536	SUR
		Oxadiazon**	0.11	UJ	ng/L	P361536	SUR
		Parathion Ethyl	0.26	U	ng/L	P361536	
		Parathion Methyl	0.58	U	ng/L	P361536	MS
		Pendimethalin	1.1	UJ	ng/L	P361536	SUR
		Phorate	0.26	U	ng/L	P361536	
		Prodiamine**	0.18	UJ	ng/L	P361536	SUR

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074601	EPA 8270D	Prometon	0.95	UJ	ng/L	P361536	SUR
		Prometryn	0.21	UJ	ng/L	P361536	SUR
		Simazine	0.53	UJ	ng/L	P361536	SUR
		Tebuconazole**	0.53	UJ	ng/L	P361536	MS, SUR
		Terbufos	0.11	U	ng/L	P361536	
		Terbuthylazine	0.45	UJ	ng/L	P361536	SUR
2074603	EPA 200.7 Rev. 4.4	Barium	54.3		ug/L	P361567	
		Calcium	1.94		mg/L	P361567	
		Iron	210		ug/L	P361567	
		Magnesium	1.73		mg/L	P361567	
		Potassium	1.1	I	mg/L	P361567	
		Sodium	2.3		mg/L	P361567	
	EPA 200.8 Rev. 5.4	Zinc	5.0	U	ug/L	P361567	
		Aluminum	92		ug/L	P361567	
		Antimony	0.050	U	ug/L	P361567	
		Arsenic	0.17	I	ug/L	P361567	
		Boron**	10.9		ug/L	P361567	
		Cadmium	0.020	U	ug/L	P361567	
		Chromium	0.40	U	ug/L	P361567	
		Copper	0.40	U	ug/L	P361567	
		Lead	0.20	U	ug/L	P361567	
		Nickel	0.50	U	ug/L	P361567	
		Selenium	0.20	U	ug/L	P361567	
		Silver	0.010	U	ug/L	P361567	
		Thallium	0.10	U	ug/L	P361567	
		Aldicarb	0.020	U	ug/L	P361474	
2075772	EPA 8321B	Aldicarb Sulfone	0.0020	U	ug/L	P361474	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P361474	
		Carbaryl	0.0020	U	ug/L	P361474	
		Carbofuran	0.0020	U	ug/L	P361474	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P361474	
		Methiocarb	0.0020	U	ug/L	P361474	
		Methomyl	0.0020	U	ug/L	P361474	
		Oxamyl	0.0020	U	ug/L	P361474	
		Propoxur	0.0020	U	ug/L	P361474	
		2,4-D	0.0020	U	ug/L	P361561	
		Acesulfame K**	0.10	U	ug/L	P361630	
		AMPA**	0.10	U	ug/L	P361630	
		Sucralose**	0.022	I	ug/L	P361630	
		Acetaminophen**	0.0080	U	ug/L	P361561	
2075773		Endothall**	0.25	U	ug/L	P361630	
		Glufosinate**	0.10	U	ug/L	P361630	
		Bentazon	8.0E-04	U	ug/L	P361561	
		Glyphosate**	0.10	U	ug/L	P361630	
		Carbamazepine**	8.0E-04	U	ug/L	P361561	

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2075773	EPA 8321B	Diuron	0.0020	U	ug/L	P361561	
		Fenuron	0.016	U	ug/L	P361561	
		Fluridone**	8.0E-04	U	ug/L	P361561	
		Imazapyr**	0.0040	U	ug/L	P361561	
		Hydrocodone**	0.0020	U	ug/L	P361561	
		Ibuprofen**	0.020	U	ug/L	P361561	
		Imidacloprid	0.0020	U	ug/L	P361561	MS
		Linuron	0.0040	U	ug/L	P361561	
		MCP	0.0020	U	ug/L	P361561	
		Naproxen**	0.0080	U	ug/L	P361561	
		Primidone**	0.0040	U	ug/L	P361561	
		Pyraclostrobin**	0.0020	U	ug/L	P361561	
		Triclopyr**	0.0040	U	ug/L	P361561	
2075774	EPA 8270D	Aldrin	4.2	U	ng/L	P361571	
		Alpha-BHC	2.1	U	ng/L	P361571	
		Alpha-Chlordane	1.1	U	ng/L	P361571	
		Beta-BHC	11	U	ng/L	P361571	MS
		Delta-BHC	11	U	ng/L	P361571	
		Gamma-BHC	11	U	ng/L	P361571	MS, RPD
		Carbophenothion	13	U	ng/L	P361571	
		Chlorothalonil	2.1	UJ	ng/L	P361571	LCS, RPD
		Cis-Nonachlor**	1.1	U	ng/L	P361571	
		Cypermethrin	21	U	ng/L	P361571	
		DDD-p,p'	8.5	U	ng/L	P361571	
		DDE-p,p'	8.5	U	ng/L	P361571	
		DDT-p,p'	11	U	ng/L	P361571	
		Dicofol	32	U	ng/L	P361571	
		Dieldrin	4.2	U	ng/L	P361571	
		Endosulfan I	4.2	U	ng/L	P361571	
		Endosulfan II	4.2	U	ng/L	P361571	
		Endosulfan Sulfate	2.1	U	ng/L	P361571	
		Endrin	2.1	U	ng/L	P361571	
		Endrin Aldehyde	2.1	U	ng/L	P361571	
		Endrin Ketone	2.1	U	ng/L	P361571	
		Ethalfuralin**	3.2	U	ng/L	P361571	
		Gamma-Chlordane	1.1	U	ng/L	P361571	
		Heptachlor	1.6	U	ng/L	P361571	
		Heptachlor Epoxide	2.1	U	ng/L	P361571	
		Hexachlorobenzene**	2.1	U	ng/L	P361571	
		Methoxychlor	4.2	U	ng/L	P361571	
		Mirex	2.1	UJ	ng/L	P361571	LCS
		Permethrin	11	UJ	ng/L	P361571	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P361571	
		Trifluralin	2.6	U	ng/L	P361571	
	EPA 8276	Chlordane	5.3	U	ng/L	P361571	

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2075774	EPA 8276	Toxaphene	32	U	ng/L	P361571	
2075775	EPA 8270D	Acetochlor	0.27	U	ng/L	P361536	
		Alachlor	0.27	U	ng/L	P361536	
		Ametryn	0.64	U	ng/L	P361536	
		Atrazine	0.27	U	ng/L	P361536	
		Atrazine Desethyl	1.6	U	ng/L	P361536	
		Azinphos Methyl	5.4	U	ng/L	P361536	
		Bromacil	0.54	U	ng/L	P361536	
		Butylate	0.43	U	ng/L	P361536	
		Chlorpyrifos Ethyl	0.27	UJ	ng/L	P361536	LCS, MS
		Chlorpyrifos Methyl	0.11	U	ng/L	P361536	MS
		Cyanazine	3.5	U	ng/L	P361536	
		Demeton	7.5	U	ng/L	P361536	
		Diazinon	0.13	U	ng/L	P361536	
		Dimethenamid**	0.11	U	ng/L	P361536	
		Disulfoton	0.54	U	ng/L	P361536	
		Dithiopyr**	0.11	U	ng/L	P361536	
		EPTC	1.3	U	ng/L	P361536	RPD
		Ethion	0.16	U	ng/L	P361536	
		Ethoprop	0.11	U	ng/L	P361536	
		Fenamiphos	0.54	U	ng/L	P361536	
		Fipronil	0.27	U	ng/L	P361536	
		Fipronil Desulfinyl**	0.13	U	ng/L	P361536	
		Fipronil Sulfide	0.16	U	ng/L	P361536	
		Fipronil Sulfone	0.16	U	ng/L	P361536	
		Fonofos	0.21	U	ng/L	P361536	
		Hexazinone	2.8		ng/L	P361536	
		Malathion	0.38	UJ	ng/L	P361536	LCS, MS
		Metalaxyl	0.32	U	ng/L	P361536	
		Metolachlor	13		ng/L	P361536	
		Metribuzin	0.80	U	ng/L	P361536	
		Mevinphos	0.54	U	ng/L	P361536	
		Molinate	0.32	U	ng/L	P361536	
		Norflurazon	0.54	U	ng/L	P361536	
		Oxadiazon**	0.11	U	ng/L	P361536	
		Parathion Ethyl	0.27	U	ng/L	P361536	
		Parathion Methyl	0.59	U	ng/L	P361536	MS
		Pendimethalin	1.1	U	ng/L	P361536	
		Phorate	0.27	U	ng/L	P361536	
		Prodiamine**	0.19	U	ng/L	P361536	
		Prometon	0.97	U	ng/L	P361536	
		Prometryn	0.21	U	ng/L	P361536	
		Simazine	0.54	U	ng/L	P361536	
		Tebuconazole**	0.54	U	ng/L	P361536	MS
		Terbufos	0.11	U	ng/L	P361536	

Field ID: G4NW0435

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2075775	EPA 8270D	Terbuthylazine	0.46	U	ng/L	P361536	

Ref. Method and Comment:

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

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

EPA 8270D: MS accuracies for atrazine, simazine, ethoprop, metolachlor, and metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes. Some reported results are J qualified due to surrogate recovery exceeding control limits.

**Sample Location: BIG COLDWATER CREEK WEST FORK
UPSTREAM OF WALLING RD**

Collection Date/Time: 04/02/2019 11:05

Field ID: G4NW0436

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074548	EPA 180.1 Rev. 2.0	Turbidity	3.0	A	NTU	P361522	
	EPA 300.0 Rev. 2.1	Chloride	6.6		mg Cl/L	P361867	
		Sulfate	1.5		mg SO4/L	P361869	
	SM 2120 B	Color (true)	14		PCU	P361547	
	SM 2320 B-97	Total Alkalinity	3.3		mg CaCO3/L	P361854	
	SM 2540 C-97	TDS	40		mg/L	P362128	
	SM 2540 D-97	TSS	3	I	mg/L	P362038	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P362443	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P361943	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.15	I	mg N/L	P361750	
2074550	EPA 353.2 Rev. 2.0	NO2NO3-N	1.8		mg N/L	P361625	
	EPA 365.1 Rev. 2.0	Total-P	0.006		mg P/L	P361581	
	SM 5310 B-00	Organic Carbon	1.5		mg C/L	P361614	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P361528	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P361474	
2074552		Aldicarb Sulfone	0.0020	U	ug/L	P361474	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P361474	
		Carbaryl	0.0020	U	ug/L	P361474	
		Carbofuran	0.0020	U	ug/L	P361474	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P361474	
		Methiocarb	0.0020	U	ug/L	P361474	
		Methomyl	0.0020	U	ug/L	P361474	
		Oxamyl	0.0020	U	ug/L	P361474	
		Propoxur	0.0020	U	ug/L	P361474	
		2,4-D	0.0020	U	ug/L	P361474	
2074598		Acesulfame K**	0.10	U	ug/L	P361569	MS
		AMPA**	0.10	U	ug/L	P361569	
		Sucralose**	0.010	U	ug/L	P361569	
		Acetaminophen**	0.0080	U	ug/L	P361474	
		Endothall**	0.25	U	ug/L	P361569	
		Glufosinate**	0.10	U	ug/L	P361569	
		Bentazon	0.0056		ug/L	P361474	
		Glyphosate**	0.10	U	ug/L	P361569	
		Carbamazepine**	8.0E-04	U	ug/L	P361474	
		Diuron	0.0020	U	ug/L	P361474	
		Fenuron	0.016	U	ug/L	P361474	
		Fluridone**	8.0E-04	U	ug/L	P361474	
		Imazapyr**	0.0040	U	ug/L	P361474	
		Hydrocodone**	0.0020	U	ug/L	P361474	
		Ibuprofen**	0.020	U	ug/L	P361474	
		Imidacloprid	0.0020	U	ug/L	P361474	
		Linuron	0.0040	U	ug/L	P361474	

Field ID: G4NW0436

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074598	EPA 8321B	MCP	0.0020	U	ug/L	P361474	
		Naproxen**	0.0080	UJ	ug/L	P361474	RPD
		Primidone**	0.0040	U	ug/L	P361474	
		Pyraclostrobin**	0.0020	U	ug/L	P361474	
		Triclopyr**	0.0040	U	ug/L	P361474	
2074600	EPA 8270D	Aldrin	4.4	U	ng/L	P361571	
		Alpha-BHC	2.2	U	ng/L	P361571	
		Alpha-Chlordane	1.1	U	ng/L	P361571	
		Beta-BHC	11	U	ng/L	P361571	MS
		Bifenthrin**	4.4	U	ng/L	P361571	
		Delta-BHC	11	U	ng/L	P361571	
		Gamma-BHC	11	U	ng/L	P361571	MS, RPD
		Carbophenothion	13	U	ng/L	P361571	
		Chlorothalonil	2.2	UJ	ng/L	P361571	LCS, RPD
		Cis-Nonachlor**	1.1	U	ng/L	P361571	
		Cypermethrin	22	U	ng/L	P361571	
		DDD-p,p'	8.7	U	ng/L	P361571	
		DDE-p,p'	8.7	U	ng/L	P361571	
		DDT-p,p'	11	U	ng/L	P361571	
		Dicofol	33	U	ng/L	P361571	
		Dieldrin	4.4	U	ng/L	P361571	
		Endosulfan I	4.4	U	ng/L	P361571	
		Endosulfan II	4.4	U	ng/L	P361571	
		Endosulfan Sulfate	2.2	U	ng/L	P361571	
		Endrin	2.2	U	ng/L	P361571	
		Endrin Aldehyde	2.2	U	ng/L	P361571	
		Endrin Ketone	2.2	U	ng/L	P361571	
		Ethalfuralin**	3.3	U	ng/L	P361571	
		Gamma-Chlordane	1.1	U	ng/L	P361571	
		Heptachlor	1.6	U	ng/L	P361571	
		Heptachlor Epoxide	2.2	U	ng/L	P361571	
		Hexachlorobenzene**	2.2	U	ng/L	P361571	
		Methoxychlor	4.4	U	ng/L	P361571	
		Mirex	2.2	UJ	ng/L	P361571	LCS
		Permethrin	11	UJ	ng/L	P361571	LCS
		Trans-Nonachlor**	1.1	U	ng/L	P361571	
		Trifluralin	2.7	U	ng/L	P361571	
		Chlordane	5.5	U	ng/L	P361571	
		Toxaphene	33	U	ng/L	P361571	
2074602	EPA 8270D	Acetochlor	0.26	U	ng/L	P361536	
		Alachlor	0.26	U	ng/L	P361536	
		Ametryn	0.63	U	ng/L	P361536	
		Atrazine	0.58	I	ng/L	P361536	
		Atrazine Desethyl	1.6	U	ng/L	P361536	
		Azinphos Methyl	5.2	U	ng/L	P361536	

Field ID: G4NW0436

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074602	EPA 8270D	Bromacil	1.3	I	ng/L	P361536	
		Butylate	0.42	U	ng/L	P361536	
		Chlorpyrifos Ethyl	0.26	UJ	ng/L	P361536	LCS, MS
		Chlorpyrifos Methyl	0.10	U	ng/L	P361536	MS
		Cyanazine	3.4	U	ng/L	P361536	
		Demeton	7.3	U	ng/L	P361536	
		Diazinon	0.13	U	ng/L	P361536	
		Dimethenamid**	0.56		ng/L	P361536	
		Disulfoton	0.52	U	ng/L	P361536	
		Dithiopyr**	0.10	U	ng/L	P361536	
		EPTC	1.3	U	ng/L	P361536	RPD
		Ethion	0.16	U	ng/L	P361536	
		Ethoprop	0.10	U	ng/L	P361536	
		Fenamiphos	0.52	U	ng/L	P361536	
		Fipronil	0.26	U	ng/L	P361536	
		Fipronil Desulfinyl**	0.13	U	ng/L	P361536	
		Fipronil Sulfide	0.16	U	ng/L	P361536	
		Fipronil Sulfone	0.16	U	ng/L	P361536	
		Fonofos	0.21	U	ng/L	P361536	
		Hexazinone	3.7		ng/L	P361536	
		Malathion	0.37	UJ	ng/L	P361536	LCS, MS
		Metalaxyl	0.31	U	ng/L	P361536	
		Metolachlor	11		ng/L	P361536	
		Metribuzin	0.78	U	ng/L	P361536	
		Mevinphos	0.52	U	ng/L	P361536	
		Molinate	0.31	U	ng/L	P361536	
		Norflurazon	2.0	I	ng/L	P361536	
		Oxadiazon**	0.10	U	ng/L	P361536	
		Parathion Ethyl	0.26	U	ng/L	P361536	
		Parathion Methyl	0.57	U	ng/L	P361536	MS
		Pendimethalin	1.0	U	ng/L	P361536	
		Phorate	0.26	U	ng/L	P361536	
		Prodiamine**	0.18	U	ng/L	P361536	
		Prometon	0.94	U	ng/L	P361536	
		Prometryn	0.21	U	ng/L	P361536	
		Simazine	0.52	U	ng/L	P361536	
		Tebuconazole**	0.52	U	ng/L	P361536	MS
		Terbufos	0.10	U	ng/L	P361536	
		Terbuthylazine	0.44	U	ng/L	P361536	
2074604	EPA 200.7 Rev. 4.4	Barium	60.1		ug/L	P361567	
		Calcium	2.83		mg/L	P361567	
		Iron	300		ug/L	P361567	
		Magnesium	2.17		mg/L	P361567	
		Potassium	1.0	I	mg/L	P361567	
		Sodium	2.7		mg/L	P361567	

Field ID: G4NW0436

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2074604	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P361567	
	EPA 200.8 Rev. 5.4	Aluminum	90		ug/L	P361567	
		Antimony	0.050	U	ug/L	P361567	
		Arsenic	0.19	I	ug/L	P361567	
		Boron**	12.9		ug/L	P361567	
		Cadmium	0.020	U	ug/L	P361567	
		Chromium	0.40	U	ug/L	P361567	
		Copper	0.40	U	ug/L	P361567	
		Lead	0.20	U	ug/L	P361567	
		Nickel	0.56	I	ug/L	P361567	
		Selenium	0.20	U	ug/L	P361567	
		Silver	0.010	U	ug/L	P361567	
		Thallium	0.10	U	ug/L	P361567	

Ref. Method and Comment:

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

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

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

EPA 8270D: MS accuracies for atrazine, simazine, ethoprop, metolachlor, and metribuzin not assessed due to high content of these parameters in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Non-Conformance Report

NCR ID: 7587

Event(s)

NW-DIST-2019-04-03-01
NW-DIST-2019-04-03-01

Job(s)

TLH-2019-04-04-96
TLH-2019-04-04-97

Sample(s)

Test(s)

NCR Type: SHIPPING/RECEIVING

NCR Category: Samples arrived late

Observation: Samples arrived one or more days late by FedEx, samples received within the acceptable temperature range.

TRACKING #475187779007

Resolution: Customer contacted Mike King, email correspondence attached to sample submittal forms.
Samples will be qualified as appropriate.

Authorized by/Date: Joshua Ayres 4/11/2019

The Non-Conformance Report details exceptions or problems encountered with the events/jobs/samples/test.
Please address questions to:

Chemistry	Colin Wright	(850) 245-8085
Biology	Cheryl Swanson	(850) 245-8177

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P361522

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P361523

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P361567

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: P361567

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361867

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361869

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: P361943

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361944

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361750

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361753

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361829

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361625

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361626

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361581

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361622

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361528

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361530

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

Reference Method: EPA 8270D
 Batch ID: P361536

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
Metaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P361536

Component	Result	Code	Units
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: P361571

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	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
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 8276
Batch ID: P361571

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B

Batch ID: P361474

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
3-Hydroxycarbofuran	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
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: P361561

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	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
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P361569

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: EPA 8321B
Batch ID: P361630

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: P361547

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P361548

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P361854

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

Reference Method: SM 2540 C-97
Batch ID: P362127

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P362128

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P362037

Component	Result	Code	Units
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Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 D-97
Batch ID: P362037

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P362038

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P362443

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P361614

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: P361567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	108		P	85 - 115
Iron	105		P	85 - 115
Magnesium	112		P	85 - 115
Potassium	105		P	85 - 115
Sodium	112		P	85 - 115
Zinc	101		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P361567

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	95.5		P	85 - 115
Antimony	93.1		P	85 - 115
Arsenic	101		P	85 - 115
Boron	94.1		P	85 - 115
Cadmium	95.5		P	85 - 115
Chromium	92.5		P	85 - 115
Copper	99.3		P	85 - 115
Lead	94.4		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	97.2		P	85 - 115
Silver	95.7		P	85 - 115
Thallium	93.4		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361867

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361869

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.4		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361944

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: P361750

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361753

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361829

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361625

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361626

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361581

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361622

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P361528

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	96.5		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P361530

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
 Batch ID: P361536

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	102	102	P/P	71 - 121
Alachlor	89.3	95.7	P/P	72 - 119
Ametryn	102	95.7	P/P	47 - 144
Atrazine	95.3	91.3	P/P	75 - 123
Atrazine Desethyl	74.9	71.1	P/P	45 - 133
Azinphos Methyl	119	117	P/P	66 - 165
Bromacil	91.9	76.2	P/P	43 - 123
Butylate	51.1	49.7	P/P	27 - 83.0
Chlorpyrifos Ethyl	121	111	F/P	70 - 117
Chlorpyrifos Methyl	105	103	P/P	71 - 120
Cyanazine	92.4	81.9	P/P	34 - 264
Demeton	71.3	67.5	P/P	41 - 122
Diazinon	73.3	78.4	P/P	70 - 127
Dimethenamid	108	107	P/P	60 - 130
Disulfoton	91.6	80.7	P/P	56 - 127
Dithiopyr	89.5	96.9	P/P	60 - 130
EPTC	50.0	48.3	P/P	24 - 84.0
Ethion	115	97.8	P/P	53 - 132
Ethoprop	62.8	79.6	P/P	57 - 117
Fenamiphos	94.8	81.2	P/P	55 - 136
Fipronil	86.8	79.8	P/P	64 - 126
Fipronil Desulfinyl	99.1	93.3	P/P	60 - 130
Fipronil Sulfide	92.9	94.4	P/P	57 - 120
Fipronil Sulfone	105	81.1	P/P	52 - 115
Fonofos	76.3	81.3	P/P	61 - 121
Hexazinone	106	108	P/P	62 - 131
Malathion	127	109	F/P	67 - 126
Metaxyl	89.0	93.1	P/P	54 - 128
Metolachlor	90.5	93.5	P/P	71 - 118
Metribuzin	146	117	P/P	42 - 221
Mevinphos	78.1	84.6	P/P	45 - 114
Molinate	58.6	57.9	P/P	33 - 91.0
Norflurazon	95.2	91.8	P/P	60 - 123
Oxadiazon	84.1	82.1	P/P	60 - 130
Parathion Ethyl	87.0	82.9	P/P	73 - 111
Parathion Methyl	111	116	P/P	74 - 126
Pendimethalin	70.4	84.2	P/P	63 - 131
Phorate	68.4	69.4	P/P	54 - 115
Prodiamine	116	114	P/P	60 - 130
Prometon	96.2	89.5	P/P	61 - 120
Prometryn	95.6	91.1	P/P	62 - 126
Simazine	104	98.6	P/P	75 - 126
Tebuconazole	94.2	86.4	P/P	30 - 100
Terbufos	80.3	78.4	P/P	65 - 116
Terbutylazine	101	93.8	P/P	73 - 117

Reference Method: EPA 8270D
 Batch ID: P361571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	38.6	46.8	P/P	20 - 93.0
Alpha-BHC	96.1	109	P/P	57 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P361571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Alpha-Chlordane	63.9	74.4	P/P	58 - 112
Beta-BHC	105	129	P/P	56 - 149
Bifenthrin	53.7	65.1	P/P	50 - 130
Carbophenothion	61.3	70.6	P/P	26 - 147
Chlorothalonil	131	174	P/F	20 - 155
Cis-Nonachlor	67.0	78.6	P/P	50 - 130
Cypermethrin	58.1	68.9	P/P	40 - 137
DDD-p,p'	93.6	108	P/P	65 - 129
DDE-p,p'	65.0	77.3	P/P	57 - 116
DDT-p,p'	71.3	85.7	P/P	53 - 133
Delta-BHC	110	138	P/P	59 - 163
Dicofol	74.1	87.4	P/P	24 - 138
Dieldrin	70.4	81.1	P/P	60 - 120
Endosulfan I	81.4	95.9	P/P	64 - 118
Endosulfan II	93.3	113	P/P	58 - 142
Endosulfan Sulfate	103	122	P/P	60 - 127
Endrin	72.9	81.9	P/P	59 - 122
Endrin Aldehyde	98.5	108	P/P	49 - 132
Endrin Ketone	87.1	99.9	P/P	64 - 121
Ethalfuralin	70.9	79.9	P/P	50 - 130
Gamma-BHC	99.7	98.5	P/P	56 - 141
Gamma-Chlordane	59.8	70.2	P/P	56 - 110
Heptachlor	63.5	72.2	P/P	46 - 96.0
Heptachlor Epoxide	75.3	85.8	P/P	61 - 112
Hexachlorobenzene	50.5	59.8	P/P	50 - 130
Methoxychlor	95.0	108	P/P	63 - 134
Mirex	41.7	52.3	F/P	45 - 100
Permethrin	48.1	56.8	F/P	53 - 115
Trans-Nonachlor	55.9	65.9	P/P	50 - 130
Trifluralin	67.8	79.5	P/P	39 - 142

Reference Method: EPA 8276
Batch ID: P361571

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	78.6	81.0	P/P	43 - 128
Toxaphene	72.6	74.0	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P361474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	61.3		P	40 - 150
3-Hydroxycarbofuran	67.0		P	40 - 150
Acetaminophen	70.0		P	30 - 150
Aldicarb	70.6		P	30 - 150
Aldicarb Sulfone	84.0		P	40 - 150
Aldicarb Sulfoxide	77.3		P	40 - 150
Bentazon	90.1		P	30 - 150
Carbamazepine	78.8		P	40 - 150
Carbaryl	73.7		P	40 - 150
Carbofuran	68.8		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P361474

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diuron	70.7		P	40 - 150
Fenuron	87.6		P	40 - 150
Fluridone	126		P	40 - 150
Hydrocodone	79.5		P	40 - 150
Ibuprofen	75.5		P	40 - 150
Imazapyr	77.1		P	40 - 150
Imidacloprid	100		P	40 - 150
Linuron	74.2		P	40 - 150
MCP	67.8		P	40 - 150
Methiocarb	71.6		P	40 - 150
Methomyl	85.0		P	40 - 150
Naproxen	56.9		P	40 - 150
Oxamyl	82.0		P	40 - 150
Primidone	73.8		P	40 - 150
Propoxur	73.9		P	40 - 150
Pyraclostrobin	50.5		P	40 - 150
Triclopyr	48.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P361561

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	70.2		P	40 - 150
Acetaminophen	93.5		P	30 - 150
Bentazon	105		P	30 - 150
Carbamazepine	91.0		P	40 - 150
Diuron	82.9		P	40 - 150
Fenuron	114		P	40 - 150
Fluridone	96.7		P	40 - 150
Hydrocodone	96.6		P	40 - 150
Ibuprofen	57.2		P	40 - 150
Imazapyr	76.9		P	40 - 150
Imidacloprid	117		P	40 - 150
Linuron	71.9		P	40 - 150
MCP	81.1		P	40 - 150
Naproxen	69.4		P	40 - 150
Primidone	66.9		P	40 - 150
Pyraclostrobin	63.6		P	40 - 150
Triclopyr	53.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P361569

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	118		P	40 - 150
AMPA	88.0		P	40 - 150
Endothall	93.0		P	40 - 150
Glufosinate	112		P	40 - 150
Glyphosate	124		P	40 - 140
Sucralose	86.2		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P361630

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	102		P	40 - 150
AMPA	98.8		P	40 - 150
Endothall	135		P	40 - 150
Glufosinate	116		P	40 - 150
Glyphosate	136		P	40 - 140
Sucralose	96.0		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P361547

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

Reference Method: SM 2120 B
Batch ID: P361548

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

Reference Method: SM 2320 B-97
Batch ID: P361854

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	98 - 107

Reference Method: SM 4500 F-C-97
Batch ID: P362443

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.3		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P361614

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: P361567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074452	Barium	98.4		P	80 - 120
2074452	Calcium	99.0		P	80 - 120
2074452	Iron	103		P	80 - 120
2074452	Magnesium	97.9		P	80 - 120
2074452	Potassium	103		P	80 - 120
2074452	Sodium	101		P	80 - 120
2074452	Zinc	98.8		P	80 - 120
2074603	Barium	99.4	98.4	P/P	80 - 120
2074603	Calcium	104	106	P/P	80 - 120
2074603	Iron	103	105	P/P	80 - 120
2074603	Magnesium	107	110	P/P	80 - 120
2074603	Potassium	104	104	P/P	80 - 120
2074603	Sodium	106	107	P/P	80 - 120
2074603	Zinc	100	99.4	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P361567

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074452	Aluminum	93.1		P	80 - 120
2074452	Antimony	93.9		P	80 - 120
2074452	Arsenic	97.3		P	80 - 120
2074452	Boron	97.4		P	80 - 120
2074452	Cadmium	97.0		P	80 - 120
2074452	Chromium	89.7		P	80 - 120
2074452	Copper	89.1		P	80 - 120
2074452	Lead	98.4		P	80 - 120
2074452	Nickel	94.2		P	80 - 120
2074452	Selenium	102		P	80 - 120
2074452	Silver	103		P	80 - 120
2074452	Thallium	98.1		P	80 - 120
2074603	Aluminum	95.2	93.6	P/P	80 - 120
2074603	Antimony	94.1	93.4	P/P	80 - 120
2074603	Arsenic	99.9	99.1	P/P	80 - 120
2074603	Boron	99.8	99.5	P/P	80 - 120
2074603	Cadmium	99.7	98.0	P/P	80 - 120
2074603	Chromium	94.5	93.2	P/P	80 - 120
2074603	Copper	99.6	98.4	P/P	80 - 120
2074603	Lead	97.2	95.9	P/P	80 - 120
2074603	Nickel	100	99.8	P/P	80 - 120
2074603	Selenium	93.7	93.5	P/P	80 - 120
2074603	Silver	97.3	96.8	P/P	80 - 120
2074603	Thallium	96.2	96.9	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361867

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074445	Chloride	99.9		P	90 - 110
2074548	Chloride	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361869

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074445	Sulfate	95.8		P	90 - 110
2074548	Sulfate	99.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074549	Ammonia-N	95.4	98.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074567	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361750

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074555	Kjeldahl Nitrogen	107	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361753

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074565	Kjeldahl Nitrogen	108	97.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075065	Kjeldahl Nitrogen	90.7	92.7	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361625

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074479	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361626

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074555	NO2NO3-N	99.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P361581

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074501	Total-P	97.9	98.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P361622

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074567	Total-P	95.8	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361528

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074551	O-Phosphate-P	98.8	99.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361530

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074570	O-Phosphate-P	93.5	95.0	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P361536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074888	Acetochlor	118	111	P/P	63 - 129
2074888	Alachlor	106	107	P/P	65 - 127
2074888	Ametryn	150	138	P/P	40 - 164
2074888	Atrazine Desethyl	114	112	P/P	14 - 157
2074888	Azinphos Methyl	134	132	P/P	49 - 180
2074888	Bromacil	94.1	95.0	P/P	48 - 130
2074888	Butylate	27.6	36.2	P/P	10 - 94.0
2074888	Chlorpyrifos Ethyl	114	132	P/F	58 - 123
2074888	Chlorpyrifos Methyl	142	135	F/F	58 - 125
2074888	Cyanazine	92.3	97.7	P/P	24 - 253
2074888	Demeton	76.7	69.2	P/P	25 - 149
2074888	Diazinon	92.9	113	P/P	59 - 144
2074888	Dimethenamid	124	121	P/P	60 - 130
2074888	Disulfoton	117	122	P/P	54 - 132
2074888	Dithiopyr	106	104	P/P	60 - 130
2074888	EPTC	23.5	33.5	P/P	10 - 92.0
2074888	Ethion	123	117	P/P	30 - 148
2074888	Fenamiphos	107	103	P/P	49 - 142
2074888	Fipronil	93.7	83.9	P/P	46 - 140
2074888	Fipronil Desulfanyl	116	118	P/P	60 - 130
2074888	Fipronil Sulfide	105	104	P/P	31 - 136
2074888	Fipronil Sulfone	127	117	P/P	16 - 136
2074888	Fonofos	108	119	P/P	55 - 129
2074888	Hexazinone	118	115	P/P	56 - 141
2074888	Malathion	140	136	F/F	56 - 135
2074888	Metalaxyl	106	108	P/P	54 - 135
2074888	Mevinphos	95.2	107	P/P	33 - 131
2074888	Molinate	50.4	56.8	P/P	14 - 98.0
2074888	Norflurazon	108	103	P/P	34 - 136
2074888	Oxadiazon	92.7	86.1	P/P	60 - 130
2074888	Parathion Ethyl	96.7	94.3	P/P	66 - 118
2074888	Parathion Methyl	158	130	F/P	64 - 136
2074888	Pendimethalin	93.1	78.6	P/P	59 - 144
2074888	Phorate	91.9	87.8	P/P	42 - 130

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P361536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074888	Prodiamine	127	130	P/P	60 - 130
2074888	Prometon	94.1	93.9	P/P	59 - 134
2074888	Prometryn	99.0	96.5	P/P	54 - 135
2074888	Tebuconazole	108	106	F/F	30 - 100
2074888	Terbufos	92.4	92.3	P/P	57 - 131
2074888	Terbutylazine	98.6	96.3	P/P	68 - 125

Reference Method: EPA 8270D
Batch ID: P361571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075776	Aldrin	49.6	58.4	P/P	25 - 92.0
2075776	Alpha-BHC	103	111	P/P	49 - 130
2075776	Alpha-Chlordane	76.3	83.4	P/P	50 - 115
2075776	Beta-BHC	188	143	F/P	43 - 157
2075776	Bifenthrin	68.6	80.5	P/P	50 - 130
2075776	Carbophenothion	78.1	75.7	P/P	27 - 180
2075776	Chlorothalonil	132	39.7	P/P	10 - 216
2075776	Cis-Nonachlor	80.9	88.9	P/P	50 - 130
2075776	Cypermethrin	74.9	84.5	P/P	40 - 153
2075776	DDD-p,p'	89.4	97.2	P/P	53 - 128
2075776	DDE-p,p'	72.4	84.7	P/P	48 - 116
2075776	DDT-p,p'	85.9	95.0	P/P	47 - 128
2075776	Delta-BHC	172	165	P/P	51 - 196
2075776	Dicofol	83.1	92.0	P/P	10 - 147
2075776	Dieldrin	84.3	92.1	P/P	48 - 128
2075776	Endosulfan I	85.2	93.3	P/P	58 - 126
2075776	Endosulfan II	109	116	P/P	50 - 150
2075776	Endosulfan Sulfate	93.9	96.3	P/P	56 - 130
2075776	Endrin	85.7	105	P/P	50 - 126
2075776	Endrin Aldehyde	90.1	93.5	P/P	12 - 145
2075776	Endrin Ketone	90.4	99.8	P/P	59 - 132
2075776	Ethalfuralin	72.8	80.7	P/P	50 - 130
2075776	Gamma-BHC	132	227	P/F	50 - 155
2075776	Gamma-Chlordane	72.6	80.5	P/P	50 - 112
2075776	Heptachlor	56.4	66.4	P/P	41 - 98.0
2075776	Heptachlor Epoxide	80.6	88.6	P/P	55 - 117
2075776	Hexachlorobenzene	52.3	57.0	P/P	50 - 130
2075776	Methoxychlor	97.8	108	P/P	55 - 133
2075776	Mirex	56.2	64.0	P/P	44 - 101
2075776	Permethrin	59.7	67.3	P/P	52 - 124
2075776	Trans-Nonachlor	72.4	79.6	P/P	50 - 130
2075776	Trifluralin	74.9	82.9	P/P	10 - 201

Reference Method: EPA 8276
Batch ID: P361571

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075152	Chlordane	81.6	73.4	P/P	34 - 136
2075152	Toxaphene	86.2	90.9	P/P	22 - 152

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P361474

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074597	3-Hydroxycarbofuran	80.6	97.8	P/P	40 - 150
2074597	Aldicarb	74.4	90.9	P/P	30 - 150
2074597	Aldicarb Sulfone	97.2	99.1	P/P	40 - 150
2074597	Aldicarb Sulfoxide	52.1	59.4	P/P	40 - 150
2074597	Carbaryl	71.3	76.9	P/P	40 - 150
2074597	Carbofuran	63.4	73.0	P/P	40 - 150
2074597	Methiocarb	68.8	72.5	P/P	40 - 150
2074597	Methomyl	91.9	99.3	P/P	40 - 150
2074597	Oxamyl	90.3	96.1	P/P	40 - 150
2074597	Propoxur	73.7	74.3	P/P	40 - 150
2074598	2,4-D	84.7	69.6	P/P	40 - 150
2074598	Acetaminophen	95.9	94.0	P/P	30 - 150
2074598	Bentazon	85.8	80.6	P/P	30 - 150
2074598	Carbamazepine	90.7	85.2	P/P	40 - 150
2074598	Diuron	75.7	73.1	P/P	40 - 150
2074598	Fenuron	109	108	P/P	40 - 150
2074598	Fluridone	150	121	P/P	40 - 150
2074598	Hydrocodone	94.0	86.6	P/P	40 - 150
2074598	Ibuprofen	82.6	73.0	P/P	40 - 150
2074598	Imazapyr	99.2	100	P/P	40 - 150
2074598	Imidacloprid	148	137	P/P	40 - 150
2074598	Linuron	79.7	70.9	P/P	40 - 150
2074598	MCP	105	90.0	P/P	40 - 150
2074598	Naproxen	78.5	53.5	P/P	40 - 150
2074598	Primidone	83.5	76.6	P/P	40 - 150
2074598	Pyraclostrobin	63.7	57.1	P/P	40 - 150
2074598	Triclopyr	64.7	64.5	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P361561

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075090	2,4-D	72.9	60.4	P/P	40 - 150
2075090	Acetaminophen	93.6	88.0	P/P	30 - 150
2075090	Bentazon	55.8	59.9	P/P	30 - 150
2075090	Carbamazepine	83.6	72.2	P/P	40 - 150
2075090	Diuron	62.5	67.1	P/P	40 - 150
2075090	Fenuron	104	112	P/P	40 - 150
2075090	Fluridone	114	139	P/P	40 - 150
2075090	Hydrocodone	91.7	91.6	P/P	40 - 150
2075090	Ibuprofen	71.8	83.8	P/P	40 - 150
2075090	Imazapyr	83.3	74.9	P/P	40 - 150
2075090	Imidacloprid	167	167	F/F	40 - 150
2075090	Linuron	68.0	66.1	P/P	40 - 150
2075090	MCP	97.4	96.6	P/P	40 - 150
2075090	Naproxen	66.2	68.4	P/P	40 - 150
2075090	Primidone	77.8	77.7	P/P	40 - 150
2075090	Pyraclostrobin	60.6	55.9	P/P	40 - 150
2075090	Triclopyr	67.4	64.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P361569

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074312	Acesulfame K	154	147	F/P	40 - 150
2074312	AMPA	56.8	58.6	P/P	40 - 150
2074312	Endothall	74.8	77.6	P/P	40 - 150
2074312	Glufosinate	94.6	91.0	P/P	40 - 150
2074312	Glyphosate	90.7	69.3	P/P	40 - 140
2074312	Sucralose	102	92.0	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P361630

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2075707	Acesulfame K	118	119	P/P	40 - 150
2075707	AMPA	102	110	P/P	40 - 150
2075707	Endothall	90.4	94.0	P/P	40 - 150
2075707	Glufosinate	110	115	P/P	40 - 150
2075707	Glyphosate	124	122	P/P	40 - 140
2075707	Sucralose	83.0	90.1	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P362443

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074564	Fluoride	96.3	95.8	P/P	89 - 106

Reference Method: SM 5310 B-00
Batch ID: P361614

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2074549	Organic Carbon	98.7	99.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P361522

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074548	Turbidity	10.5	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P361523

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074613	Turbidity	4.43	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P361567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074603	Barium	0.885	Spike	P	0 - 20
2074603	Calcium	1.81	Spike	P	0 - 20
2074603	Iron	1.37	Spike	P	0 - 20
2074603	Magnesium	1.88	Spike	P	0 - 20
2074603	Potassium	0.382	Spike	P	0 - 20
2074603	Sodium	1.01	Spike	P	0 - 20
2074603	Zinc	0.663	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P361567

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074603	Aluminum	1.48	Spike	P	0 - 20
2074603	Antimony	0.797	Spike	P	0 - 20
2074603	Arsenic	0.751	Spike	P	0 - 20
2074603	Boron	0.254	Spike	P	0 - 20
2074603	Cadmium	1.66	Spike	P	0 - 20
2074603	Chromium	1.43	Spike	P	0 - 20
2074603	Copper	1.25	Spike	P	0 - 20
2074603	Lead	1.33	Spike	P	0 - 20
2074603	Nickel	0.181	Spike	P	0 - 20
2074603	Selenium	0.171	Spike	P	0 - 20
2074603	Silver	0.522	Spike	P	0 - 20
2074603	Thallium	0.722	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361867

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074445	Chloride	0.699	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P361869

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074445	Sulfate	1.05	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074549	Ammonia-N	2.89	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P361944

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074567	Ammonia-N	0.00919	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361750

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074555	Kjeldahl Nitrogen	4.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361753

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074565	Kjeldahl Nitrogen	6.20	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P361829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075065	Kjeldahl Nitrogen	1.59	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361625

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074479	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P361626

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074555	NO2NO3-N	0.568	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P361581

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074501	Total-P	0.553	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P361622

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074567	Total-P	3.88	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074551	O-Phosphate-P	0.706	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P361530

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074570	O-Phosphate-P	1.59	Spike	P	0 - 20

Reference Method: EPA 8270D
 Batch ID: P361536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074888	Acetochlor	5.57	Spike	P	0 - 30
2074888	Alachlor	0.421	Spike	P	0 - 30
2074888	Ametryn	8.11	Spike	P	0 - 30
2074888	Atrazine	17.8	Spike	P	0 - 30
2074888	Atrazine Desethyl	1.39	Spike	P	0 - 30
2074888	Azinphos Methyl	1.75	Spike	P	0 - 30
2074888	Bromacil	0.825	Spike	P	0 - 30
2074888	Butylate	27.1	Spike	P	0 - 30
2074888	Chlorpyrifos Ethyl	14.8	Spike	P	0 - 30
2074888	Chlorpyrifos Methyl	5.74	Spike	P	0 - 30
2074888	Cyanazine	5.68	Spike	P	0 - 30
2074888	Demeton	10.2	Spike	P	0 - 30
2074888	Diazinon	19.5	Spike	P	0 - 30
2074888	Dimethenamid	2.22	Spike	P	0 - 30
2074888	Disulfoton	3.41	Spike	P	0 - 30
2074888	Dithiopyr	1.11	Spike	P	0 - 30
2074888	EPTC	34.9	Spike	F	0 - 30
2074888	Ethion	5.33	Spike	P	0 - 30
2074888	Ethoprop	2.24	Spike	P	0 - 30
2074888	Fenamiphos	3.99	Spike	P	0 - 30
2074888	Fipronil	9.11	Spike	P	0 - 30
2074888	Fipronil Desulfinyl	1.99	Spike	P	0 - 30
2074888	Fipronil Sulfide	0.731	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P361536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074888	Fipronil Sulfone	4.25	Spike	P	0 - 30
2074888	Fonofos	10.2	Spike	P	0 - 30
2074888	Hexazinone	1.33	Spike	P	0 - 30
2074888	Malathion	3.41	Spike	P	0 - 30
2074888	Metalaxyl	1.53	Spike	P	0 - 30
2074888	Metolachlor	13.6	Spike	P	0 - 30
2074888	Metribuzin	6.92	Spike	P	0 - 30
2074888	Mevinphos	12.2	Spike	P	0 - 30
2074888	Molinate	11.9	Spike	P	0 - 30
2074888	Norflurazon	4.48	Spike	P	0 - 30
2074888	Oxadiazon	6.12	Spike	P	0 - 30
2074888	Parathion Ethyl	2.58	Spike	P	0 - 30
2074888	Parathion Methyl	19.8	Spike	P	0 - 30
2074888	Pendimethalin	16.8	Spike	P	0 - 30
2074888	Phorate	4.52	Spike	P	0 - 30
2074888	Prodiamine	1.75	Spike	P	0 - 30
2074888	Prometon	0.239	Spike	P	0 - 30
2074888	Prometryn	2.56	Spike	P	0 - 30
2074888	Simazine	21.9	Spike	P	0 - 30
2074888	Tebuconazole	1.38	Spike	P	0 - 30
2074888	Terbufos	0.147	Spike	P	0 - 30
2074888	Terbuthylazine	2.33	Spike	P	0 - 30
LFB	Acetochlor	0.423	LCS	P	0 - 30
LFB	Alachlor	6.92	LCS	P	0 - 30
LFB	Ametryn	6.43	LCS	P	0 - 30
LFB	Atrazine	4.35	LCS	P	0 - 30
LFB	Atrazine Desethyl	5.31	LCS	P	0 - 30
LFB	Azinphos Methyl	1.64	LCS	P	0 - 30
LFB	Bromacil	18.7	LCS	P	0 - 30
LFB	Butylate	2.65	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	9.23	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	2.53	LCS	P	0 - 30
LFB	Cyanazine	12.1	LCS	P	0 - 30
LFB	Demeton	5.48	LCS	P	0 - 30
LFB	Diazinon	6.79	LCS	P	0 - 30
LFB	Dimethenamid	0.0430	LCS	P	0 - 30
LFB	Disulfoton	12.6	LCS	P	0 - 30
LFB	Dithiopyr	7.92	LCS	P	0 - 30
LFB	EPTC	3.48	LCS	P	0 - 30
LFB	Ethion	15.8	LCS	P	0 - 30
LFB	Ethoprop	23.6	LCS	P	0 - 30
LFB	Fenamiphos	15.4	LCS	P	0 - 30
LFB	Fipronil	8.30	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	5.98	LCS	P	0 - 30
LFB	Fipronil Sulfide	1.60	LCS	P	0 - 30
LFB	Fipronil Sulfone	25.3	LCS	P	0 - 30
LFB	Fonofos	6.29	LCS	P	0 - 30
LFB	Hexazinone	1.74	LCS	P	0 - 30
LFB	Malathion	15.9	LCS	P	0 - 30
LFB	Metalaxyl	4.47	LCS	P	0 - 30
LFB	Metolachlor	3.31	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P361536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Metribuzin	22.2	LCS	P	0 - 30
LFB	Mevinphos	8.03	LCS	P	0 - 30
LFB	Molinate	1.19	LCS	P	0 - 30
LFB	Norflurazon	3.59	LCS	P	0 - 30
LFB	Oxadiazon	2.50	LCS	P	0 - 30
LFB	Parathion Ethyl	4.82	LCS	P	0 - 30
LFB	Parathion Methyl	4.89	LCS	P	0 - 30
LFB	Pendimethalin	17.9	LCS	P	0 - 30
LFB	Phorate	1.50	LCS	P	0 - 30
LFB	Prodiamine	2.06	LCS	P	0 - 30
LFB	Prometon	7.27	LCS	P	0 - 30
LFB	Prometryn	4.88	LCS	P	0 - 30
LFB	Simazine	5.76	LCS	P	0 - 30
LFB	Tebuconazole	8.67	LCS	P	0 - 30
LFB	Terbufos	2.41	LCS	P	0 - 30
LFB	Terbutylazine	7.15	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P361571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075776	Aldrin	16.4	Spike	P	0 - 30
2075776	Alpha-BHC	8.01	Spike	P	0 - 30
2075776	Alpha-Chlordane	8.96	Spike	P	0 - 30
2075776	Beta-BHC	27.4	Spike	P	0 - 30
2075776	Bifenthrin	16.1	Spike	P	0 - 30
2075776	Carbophenothion	3.11	Spike	P	0 - 30
2075776	Chlorothalonil	107	Spike	F	0 - 30
2075776	Cis-Nonachlor	9.35	Spike	P	0 - 30
2075776	Cypermethrin	12.0	Spike	P	0 - 30
2075776	DDD-p,p'	8.39	Spike	P	0 - 30
2075776	DDE-p,p'	15.6	Spike	P	0 - 30
2075776	DDT-p,p'	10.0	Spike	P	0 - 30
2075776	Delta-BHC	3.77	Spike	P	0 - 30
2075776	Dicofol	10.1	Spike	P	0 - 30
2075776	Dieldrin	8.76	Spike	P	0 - 30
2075776	Endosulfan I	9.13	Spike	P	0 - 30
2075776	Endosulfan II	6.28	Spike	P	0 - 30
2075776	Endosulfan Sulfate	2.58	Spike	P	0 - 30
2075776	Endrin	20.2	Spike	P	0 - 30
2075776	Endrin Aldehyde	3.65	Spike	P	0 - 30
2075776	Endrin Ketone	9.84	Spike	P	0 - 30
2075776	Ethalfuralin	10.2	Spike	P	0 - 30
2075776	Gamma-BHC	53.3	Spike	F	0 - 30
2075776	Gamma-Chlordane	10.4	Spike	P	0 - 30
2075776	Heptachlor	16.2	Spike	P	0 - 30
2075776	Heptachlor Epoxide	9.45	Spike	P	0 - 30
2075776	Hexachlorobenzene	8.71	Spike	P	0 - 30
2075776	Methoxychlor	9.75	Spike	P	0 - 30
2075776	Mirex	12.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P361571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075776	Permethrin	11.9	Spike	P	0 - 30
2075776	Trans-Nonachlor	9.52	Spike	P	0 - 30
2075776	Trifluralin	10.2	Spike	P	0 - 30
LFB	Aldrin	19.1	LCS	P	0 - 30
LFB	Alpha-BHC	13.0	LCS	P	0 - 30
LFB	Alpha-Chlordane	15.1	LCS	P	0 - 30
LFB	Beta-BHC	20.5	LCS	P	0 - 30
LFB	Bifenthrin	19.1	LCS	P	0 - 30
LFB	Carbophenothion	14.1	LCS	P	0 - 30
LFB	Chlorothalonil	28.0	LCS	P	0 - 30
LFB	Cis-Nonachlor	15.8	LCS	P	0 - 30
LFB	Cypermethrin	17.0	LCS	P	0 - 30
LFB	DDD-p,p'	14.5	LCS	P	0 - 30
LFB	DDE-p,p'	17.2	LCS	P	0 - 30
LFB	DDT-p,p'	18.2	LCS	P	0 - 30
LFB	Delta-BHC	22.5	LCS	P	0 - 30
LFB	Dicofol	16.4	LCS	P	0 - 30
LFB	Dieldrin	14.1	LCS	P	0 - 30
LFB	Endosulfan I	16.3	LCS	P	0 - 30
LFB	Endosulfan II	19.2	LCS	P	0 - 30
LFB	Endosulfan Sulfate	16.1	LCS	P	0 - 30
LFB	Endrin	11.7	LCS	P	0 - 30
LFB	Endrin Aldehyde	9.53	LCS	P	0 - 30
LFB	Endrin Ketone	13.7	LCS	P	0 - 30
LFB	Ethalfuralin	11.8	LCS	P	0 - 30
LFB	Gamma-BHC	1.29	LCS	P	0 - 30
LFB	Gamma-Chlordane	16.0	LCS	P	0 - 30
LFB	Heptachlor	12.8	LCS	P	0 - 30
LFB	Heptachlor Epoxide	13.1	LCS	P	0 - 30
LFB	Hexachlorobenzene	16.9	LCS	P	0 - 30
LFB	Methoxychlor	12.3	LCS	P	0 - 30
LFB	Mirex	22.4	LCS	P	0 - 30
LFB	Permethrin	16.4	LCS	P	0 - 30
LFB	Trans-Nonachlor	16.3	LCS	P	0 - 30
LFB	Trifluralin	15.9	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P361571

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075152	Chlordane	10.6	Spike	P	0 - 30
2075152	Toxaphene	5.28	Spike	P	0 - 30
LFB	Chlordane	2.97	LCS	P	0 - 30
LFB	Toxaphene	1.86	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P361474

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

Reference Method: EPA 8321B
Batch ID: P361474

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074597	3-Hydroxycarbofuran	19.3	Spike	P	0 - 30
2074597	Aldicarb	20.0	Spike	P	0 - 30
2074597	Aldicarb Sulfone	1.91	Spike	P	0 - 30
2074597	Aldicarb Sulfoxide	13.0	Spike	P	0 - 30
2074597	Carbaryl	7.59	Spike	P	0 - 30
2074597	Carbofuran	14.0	Spike	P	0 - 30
2074597	Methiocarb	5.23	Spike	P	0 - 30
2074597	Methomyl	7.76	Spike	P	0 - 30
2074597	Oxamyl	6.23	Spike	P	0 - 30
2074597	Propoxur	0.807	Spike	P	0 - 30
2074598	2,4-D	19.7	Spike	P	0 - 30
2074598	Acetaminophen	2.00	Spike	P	0 - 30
2074598	Bentazon	4.61	Spike	P	0 - 30
2074598	Carbamazepine	6.25	Spike	P	0 - 30
2074598	Diuron	3.49	Spike	P	0 - 30
2074598	Fenuron	1.06	Spike	P	0 - 30
2074598	Fluridone	21.0	Spike	P	0 - 30
2074598	Hydrocodone	8.20	Spike	P	0 - 30
2074598	Ibuprofen	12.3	Spike	P	0 - 30
2074598	Imazapyr	1.02	Spike	P	0 - 30
2074598	Imidacloprid	7.54	Spike	P	0 - 30
2074598	Linuron	11.7	Spike	P	0 - 30
2074598	MCPP	15.0	Spike	P	0 - 30
2074598	Naproxen	37.8	Spike	F	0 - 30
2074598	Primidone	8.70	Spike	P	0 - 30
2074598	Pyraclostrobin	10.8	Spike	P	0 - 30
2074598	Triclopyr	0.379	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P361561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075090	2,4-D	18.9	Spike	P	0 - 30
2075090	Acetaminophen	6.15	Spike	P	0 - 30
2075090	Bentazon	7.21	Spike	P	0 - 30
2075090	Carbamazepine	14.7	Spike	P	0 - 30
2075090	Diuron	7.07	Spike	P	0 - 30
2075090	Fenuron	6.91	Spike	P	0 - 30
2075090	Fluridone	19.5	Spike	P	0 - 30
2075090	Hydrocodone	0.0336	Spike	P	0 - 30
2075090	Ibuprofen	15.5	Spike	P	0 - 30
2075090	Imazapyr	8.45	Spike	P	0 - 30
2075090	Imidacloprid	0.0188	Spike	P	0 - 30
2075090	Linuron	2.81	Spike	P	0 - 30
2075090	MCPP	0.798	Spike	P	0 - 30
2075090	Naproxen	3.30	Spike	P	0 - 30
2075090	Primidone	0.130	Spike	P	0 - 30
2075090	Pyraclostrobin	8.11	Spike	P	0 - 30
2075090	Triclopyr	4.43	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P361569

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074312	Acesulfame K	5.18	Spike	P	0 - 30
2074312	AMPA	1.22	Spike	P	0 - 30
2074312	Endothall	3.65	Spike	P	0 - 30
2074312	Glufosinate	3.95	Spike	P	0 - 30
2074312	Glyphosate	21.2	Spike	P	0 - 30
2074312	Sucralose	10.1	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P361630

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2075707	Acesulfame K	0.611	Spike	P	0 - 30
2075707	AMPA	7.73	Spike	P	0 - 30
2075707	Endothall	3.92	Spike	P	0 - 30
2075707	Glufosinate	4.72	Spike	P	0 - 30
2075707	Glyphosate	1.75	Spike	P	0 - 30
2075707	Sucralose	8.14	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P361547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074510	Color (true)	9.46	Sample	P	0 - 20

Reference Method: SM 2120 B
 Batch ID: P361548

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074564	Color (true)	3.15	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P361854

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074374	Total Alkalinity	1.01	Sample	P	0 - 1.6

Reference Method: SM 2540 C-97
 Batch ID: P362127

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074374	TDS	4.35	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P362128

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074433	TDS	6.19	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P362443

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074564	Fluoride	0.482	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
Batch ID: P361614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2074549	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: 2074597
Field Sample ID: G4NW0436

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	77.5	P	30 - 160

Lab Sample ID: 2074598
Field Sample ID: G4NW0436

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	63.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	87.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	89.1	P	30 - 160
EPA 8321B	Diuron-d6	75.0	P	30 - 160
EPA 8321B	Endothall-d6	50.9	P	30 - 160
EPA 8321B	Endothall-d6	50.9	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	111	P	30 - 160
EPA 8321B	Ibuprofen-d3	101	P	30 - 160
EPA 8321B	Primidone-d5	56.3	P	30 - 160
EPA 8321B	Sucralose-d6	52.1	P	30 - 160
EPA 8321B	Sucralose-d6	52.1	P	30 - 160

Lab Sample ID: 2074599
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	60.9	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	38.6	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	38.8	P	30 - 103
EPA 8276	PCNB	109	P	37 - 143

Lab Sample ID: 2074600
Field Sample ID: G4NW0436

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	68.3	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	37.3	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	47.4	P	30 - 103
EPA 8276	PCNB	123	P	37 - 143

Lab Sample ID: 2074601
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	141	F	68 - 130
EPA 8270D	Terbufos-d10	129	P	61 - 136

Lab Sample ID: 2074602
Field Sample ID: G4NW0436

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	99.9	P	68 - 130
EPA 8270D	Terbufos-d10	113	P	61 - 136

Quality Assurance Report Surrogates

Lab Sample ID: 2075772
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	70.7	P	30 - 160

Lab Sample ID: 2075773
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	75.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	82.4	P	30 - 160
EPA 8321B	Diuron-d6	81.9	P	30 - 160
EPA 8321B	Endothall-d6	67.5	P	30 - 160
EPA 8321B	Endothall-d6	67.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	121	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	121	P	30 - 160
EPA 8321B	Ibuprofen-d3	152	P	30 - 160
EPA 8321B	Primidone-d5	90.4	P	30 - 160
EPA 8321B	Sucralose-d6	93.1	P	30 - 160
EPA 8321B	Sucralose-d6	93.1	P	30 - 160

Lab Sample ID: 2075774
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	70.4	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	54.7	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	49.3	P	30 - 103
EPA 8276	PCNB	139	P	37 - 143

Lab Sample ID: 2075775
Field Sample ID: G4NW0435

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Simazine-d10	108	P	68 - 130
EPA 8270D	Terbufos-d10	116	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A90416

Included Lab Sample IDs: 2074547, 2074548, 2074553, 2074554, 2074559

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A90417

Included Lab Sample IDs: 2074551, 2074552, 2074557, 2074558, 2074561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	100	99.5	P/P	90 - 110
O-Phosphate-P	97.3	97.5	P/P	90 - 110
O-Phosphate-P	97.5	97.9	P/P	90 - 110
O-Phosphate-P	99.5	97.3	P/P	90 - 110

Reference Method: SM 2120 B

Run ID: A90429

Included Lab Sample IDs: 2074547, 2074548, 2074553, 2074554, 2074559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.4	102	P/P	90 - 115
Color (true)	98.9	98.4	P/P	90 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A90436

Included Lab Sample IDs: 2074549, 2074550, 2074555, 2074556, 2074560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110
NO2NO3-N	102	102	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A90463

Included Lab Sample IDs: 2074549, 2074550, 2074555, 2074556, 2074560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	101	102	P/P	90 - 110
Organic Carbon	102	102	P/P	90 - 110
Organic Carbon	102	103	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A90481

Included Lab Sample IDs: 2074603, 2074604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	98.5	98.0	P/P	90 - 110
Barium	99.0	98.5	P/P	90 - 110
Calcium	101	99.7	P/P	90 - 110
Calcium	99.7	101	P/P	90 - 110
Iron	98.7	98.2	P/P	90 - 110
Iron	99.3	98.7	P/P	90 - 110
Magnesium	100	100	P/P	90 - 110
Magnesium	102	100	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A90481

Included Lab Sample IDs: 2074603, 2074604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Potassium	98.0	98.5	P/P	90 - 110
Potassium	99.6	98.0	P/P	90 - 110
Sodium	102	104	P/P	90 - 110
Sodium	102	102	P/P	90 - 110
Zinc	100	99.8	P/P	90 - 110
Zinc	99.8	98.9	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A90517

Included Lab Sample IDs: 2074598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	83.9	74.4	P/P	60 - 160
Glufosinate	113	106	P/P	60 - 160
Glyphosate	133	113	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A90521

Included Lab Sample IDs: 2074598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	122	60.1	P/P	60 - 160
Endothall	107	110	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A90528

Included Lab Sample IDs: 2075773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	91.4	89.0	P/P	60 - 160
Glufosinate	110	110	P/P	60 - 160
Glyphosate	115	110	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A90530

Included Lab Sample IDs: 2074549, 2074550, 2074555, 2074556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.5	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A90535

Included Lab Sample IDs: 2074560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A90538

Included Lab Sample IDs: 2074547, 2074548, 2074553, 2074554, 2074559

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

Reference Method: EPA 8321B

Run ID: A90557

Included Lab Sample IDs: 2075773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	153	100	P/P	60 - 160
Endothall	129	134	P/P	60 - 160

Reference Method: SM 2320 B-97

Run ID: A90560

Included Lab Sample IDs: 2074547, 2074548, 2074553, 2074554, 2074559

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A90567

Included Lab Sample IDs: 2074603, 2074604

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	97.1	98.0	P/P	90 - 110
Aluminum	99.7	97.1	P/P	90 - 110
Antimony	95.1	95.1	P/P	90 - 110
Antimony	95.1	95.4	P/P	90 - 110
Arsenic	99.5	99.6	P/P	90 - 110
Arsenic	99.6	98.8	P/P	90 - 110
Boron	101	99.1	P/P	90 - 110
Boron	99.1	99.8	P/P	90 - 110
Cadmium	97.9	97.9	P/P	90 - 110
Cadmium	98.4	97.9	P/P	90 - 110
Chromium	101	99.3	P/P	90 - 110
Chromium	99.3	99.0	P/P	90 - 110
Copper	100	98.0	P/P	90 - 110
Copper	101	100	P/P	90 - 110
Lead	98.3	98.3	P/P	90 - 110
Lead	99.5	98.3	P/P	90 - 110
Nickel	101	99.5	P/P	90 - 110
Nickel	99.5	97.9	P/P	90 - 110
Selenium	96.6	97.1	P/P	90 - 110
Selenium	97.1	97.1	P/P	90 - 110
Silver	98.3	97.9	P/P	90 - 110
Silver	98.7	98.3	P/P	90 - 110
Thallium	92.7	91.4	P/P	90 - 110
Thallium	93.0	92.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A90572
Included Lab Sample IDs: 2074598

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	62.1	100	P/P	60 - 160

Reference Method: EPA 8276
Run ID: A90584
Included Lab Sample IDs: 2074599, 2074600, 2075774

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	96.7		P	80 - 120
Chlordane	99.0		P	80 - 120
Toxaphene	83.8		P	80 - 120
Toxaphene	97.6		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A90591
Included Lab Sample IDs: 2074556

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	99.3	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A90592
Included Lab Sample IDs: 2074549, 2074550, 2074555, 2074560

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

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A90596
Included Lab Sample IDs: 2074549, 2074550, 2074555, 2074556, 2074560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	102	P/P	90 - 110
Ammonia-N	102	100	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A90605
Included Lab Sample IDs: 2075773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	99.6	88.2	P/P	60 - 160

Reference Method: EPA 8270D
Run ID: A90617
Included Lab Sample IDs: 2074599, 2074600, 2075774

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	101		P	80 - 120
Alpha-BHC	95.9		P	80 - 120
Alpha-Chlordane	90.7		P	80 - 120
Beta-BHC	86.5		P	80 - 120
Bifenthrin	93.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A90617

Included Lab Sample IDs: 2074599, 2074600, 2075774

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carbophenothion	82.8		P	80 - 120
Chlorothalonil	90.4		P	80 - 120
Cis-Nonachlor	92.2		P	80 - 120
Cypermethrin	85.3		P	80 - 120
DDD-p,p'	98.8		P	80 - 120
DDE-p,p'	95.8		P	80 - 120
DDT-p,p'	103		P	80 - 120
Delta-BHC	85.6		P	80 - 120
Dicofol	98.1		P	80 - 120
Dieldrin	94.8		P	80 - 120
Endosulfan I	91.7		P	80 - 120
Endosulfan II	98.9		P	80 - 120
Endosulfan Sulfate	93.5		P	80 - 120
Endrin	91.1		P	80 - 120
Endrin Aldehyde	92.6		P	80 - 120
Endrin Ketone	92.9		P	80 - 120
Ethalfuralin	93.9		P	80 - 120
Gamma-BHC	95.5		P	80 - 120
Gamma-Chlordane	90.8		P	80 - 120
Heptachlor	97.2		P	80 - 120
Heptachlor Epoxide	92.6		P	80 - 120
Hexachlorobenzene	96.5		P	80 - 120
Methoxychlor	104		P	80 - 120
Mirex	92.7		P	80 - 120
Permethrin	90.1		P	80 - 120
Trans-Nonachlor	90.9		P	80 - 120
Trifluralin	95.5		P	80 - 120

Reference Method: EPA 8321B

Run ID: A90744

Included Lab Sample IDs: 2074597, 2075772

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	109	112	P/P	60 - 150
Aldicarb	114	118	P/P	60 - 150
Aldicarb Sulfone	107	110	P/P	50 - 150
Aldicarb Sulfoxide	103	104	P/P	50 - 150
Carbaryl	100	100	P/P	60 - 150
Carbofuran	94.3	103	P/P	50 - 150
Methiocarb	107	105	P/P	50 - 150
Methomyl	103	117	P/P	50 - 150
Oxamyl	102	96.5	P/P	50 - 150
Propoxur	102	103	P/P	50 - 150

Reference Method: EPA 8321B

Run ID: A90784

Included Lab Sample IDs: 2074598, 2075773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	105	81.4	P/P	50 - 150
2,4-D	84.9	89.7	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A90784

Included Lab Sample IDs: 2074598, 2075773

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetaminophen	90.4	113	P/P	60 - 160
Acetaminophen	95.8	109	P/P	60 - 160
Bentazon	133	133	P/P	50 - 160
Bentazon	87.1	113	P/P	50 - 160
Carbamazepine	105	111	P/P	60 - 150
Carbamazepine	112	107	P/P	60 - 150
Diuron	106	111	P/P	60 - 150
Diuron	108	105	P/P	60 - 150
Fenuron	103	102	P/P	60 - 150
Fenuron	95.2	109	P/P	60 - 150
Fluridone	123	104	P/P	60 - 160
Fluridone	87.6	128	P/P	60 - 160
Hydrocodone	105	104	P/P	60 - 150
Hydrocodone	89.9	98.8	P/P	60 - 150
Ibuprofen	93.6	72.7	P/P	50 - 160
Ibuprofen	96.9	124	P/P	50 - 160
Imazapyr	103	90.3	P/P	50 - 150
Imazapyr	99.3	111	P/P	50 - 150
Imidacloprid	108	99.3	P/P	60 - 150
Imidacloprid	98.5	109	P/P	60 - 150
Linuron	95.7	90.8	P/P	60 - 150
Linuron	99.7	97.3	P/P	60 - 150
MCPP	93.6	95.0	P/P	50 - 150
MCPP	96.4	102	P/P	50 - 150
Naproxen	103	85.5	P/P	50 - 160
Naproxen	92.2	89.8	P/P	50 - 160
Primidone	78.9	92.7	P/P	60 - 150
Primidone	97.1	88.9	P/P	60 - 150
Pyraclostrobin	106	101	P/P	60 - 150
Pyraclostrobin	96.4	99.6	P/P	60 - 150
Triclopyr	102	96.3	P/P	50 - 150
Triclopyr	106	99.8	P/P	50 - 150

Reference Method: SM 4500 F-C-97

Run ID: A90826

Included Lab Sample IDs: 2074547, 2074548, 2074553, 2074554, 2074559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.1	98.6	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A90911

Included Lab Sample IDs: 2074601, 2074602, 2075775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	94.6		P	80 - 120
Alachlor	112		P	80 - 120
Ametryn	108		P	80 - 120
Atrazine	97.1		P	80 - 120
Atrazine Desethyl	99.4		P	80 - 120
Azinphos Methyl	109		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A90911

Included Lab Sample IDs: 2074601, 2074602, 2075775

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Bromacil	97.8		P	80 - 120
Butylate	95.2		P	80 - 120
Chlorpyrifos Ethyl	104		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Cyanazine	97.7		P	80 - 120
Demeton	100		P	80 - 120
Diazinon	95.3		P	80 - 120
Dimethenamid	98.1		P	80 - 120
Disulfoton	91.5		P	80 - 120
Dithiopyr	106		P	80 - 120
EPTC	95.2		P	80 - 120
Ethion	89.5		P	80 - 120
Ethoprop	90.7		P	80 - 120
Fenamiphos	93.4		P	80 - 120
Fipronil	107		P	80 - 120
Fipronil Desulfinyl	113		P	80 - 120
Fipronil Sulfide	115		P	80 - 120
Fipronil Sulfone	87.4		P	80 - 120
Fonofos	92.3		P	80 - 120
Hexazinone	98.3		P	80 - 120
Malathion	101		P	80 - 120
Metalaxyl	105		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	118		P	80 - 120
Mevinphos	91.3		P	80 - 120
Molinate	96.6		P	80 - 120
Norflurazon	99.8		P	80 - 120
Oxadiazon	89.7		P	80 - 120
Parathion Ethyl	96.2		P	80 - 120
Parathion Methyl	109		P	80 - 120
Pendimethalin	93.7		P	80 - 120
Phorate	89.8		P	80 - 120
Prodiamine	107		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	106		P	80 - 120
Simazine	107		P	80 - 120
Tebuconazole	104		P	80 - 120
Terbufos	89.9		P	80 - 120
Terbuthylazine	102		P	80 - 120

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

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							10.5	
	Turbidity							4.43	
EPA 200.7 Rev. 4.4	Barium	100		98.4	99.4	98.4			0.885
	Calcium	108		99.0	104	106			1.81
	Iron	105		103	103	105			1.37
	Magnesium	112		97.9	107	110			1.88
	Potassium	105		103	104	104			0.382
	Sodium	112		101	106	107			1.01
	Zinc	101		98.8	100	99.4			0.663
EPA 200.8 Rev. 5.4	Aluminum	95.5		95.2	93.6	93.1			1.48
	Antimony	93.1		94.1	93.4	93.9			0.797
	Arsenic	101		99.9	99.1	97.3			0.751
	Boron	94.1		99.8	99.5	97.4			0.254
	Cadmium	95.5		99.7	98.0	97.0			1.66
	Chromium	92.5		94.5	93.2	89.7			1.43
	Copper	99.3		99.6	98.4	89.1			1.25
	Lead	94.4		97.2	95.9	98.4			1.33
	Nickel	98.6		100	99.8	94.2			0.181
	Selenium	97.2		93.7	93.5	102			0.171
	Silver	95.7		97.3	96.8	103			0.522
	Thallium	93.4		96.2	96.9	98.1			0.722
EPA 300.0 Rev. 2.1	Chloride	101		99.9	101			0.699	
	Sulfate	100		95.8	99.8			1.05	
EPA 350.1 Rev. 2.0	Ammonia-N	98.4		95.4	98.6				2.89
	Ammonia-N	102		101	101				0.0091
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.8		107	102				4.20
	Kjeldahl Nitrogen	102		108	97.1				6.20
	Kjeldahl Nitrogen	97.4		90.7	92.7				1.59
EPA 353.2 Rev. 2.0	NO2NO3-N	100		102	102				0.0
	NO2NO3-N	102		99.2					0.568
EPA 365.1 Rev. 2.0	Total-P	104		97.9	98.5				0.553
	Total-P	105		95.8	99.8				3.88
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	96.5		98.8	99.5				0.706
	O-Phosphate-P	98.8		93.5	95.0				1.59
EPA 8270D	Acetochlor	102	102	118	111	0.423			5.57
	Alachlor	89.3	95.7	106	107	6.92			0.421
	Aldrin	38.6	46.8	49.6	58.4	19.1			16.4
	Alpha-BHC	96.1	109	103	111	13.0			8.01
	Alpha-Chlordane	63.9	74.4	76.3	83.4	15.1			8.96
	Ametryn	102	95.7	150	138	6.43			8.11
	Atrazine	91.3	95.3			4.35			17.8
	Atrazine Desethyl	71.1	74.9	114	112	5.31			1.39
	Azinphos Methyl	117	119	134	132	1.64			1.75
	Beta-BHC	105	129	188	143	20.5			27.4
	Bifenthrin	53.7	65.1	68.6	80.5	19.1			16.1
	Bromacil	76.2	91.9	94.1	95.0	18.7			0.825
	Butylate	49.7	51.1	27.6	36.2	2.65			27.1
	Carbophenothion	61.3	70.6	78.1	75.7	14.1			3.11
	Chlorothalonil	131	174	132	39.7	28.0			107
	Chlorpyrifos Ethyl	111	121	114	132	9.23			14.8
	Chlorpyrifos Methyl	105	103	142	135	2.53			5.74
	Cis-Nonachlor	67.0	78.6	80.9	88.9	15.8			9.35
	Cyanazine	92.4	81.9	92.3	97.7	12.1			5.68
	Cypermethrin	58.1	68.9	74.9	84.5	17.0			12.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	DDD-p,p'	93.6	108	89.4	97.2	14.5		8.39
	DDE-p,p'	65.0	77.3	72.4	84.7	17.2		15.6
	DDT-p,p'	71.3	85.7	85.9	95.0	18.2		10.0
	Delta-BHC	110	138	172	165	22.5		3.77
	Demeton	71.3	67.5	76.7	69.2	5.48		10.2
	Diazinon	73.3	78.4	92.9	113	6.79		19.5
	Dicofol	74.1	87.4	83.1	92.0	16.4		10.1
	Dieldrin	70.4	81.1	84.3	92.1	14.1		8.76
	Dimethenamid	108	107	124	121	0.0430		2.22
	Disulfoton	91.6	80.7	117	122	12.6		3.41
	Dithiopyr	89.5	96.9	106	104	7.92		1.11
	Endosulfan I	81.4	95.9	85.2	93.3	16.3		9.13
	Endosulfan II	93.3	113	109	116	19.2		6.28
	Endosulfan Sulfate	103	122	93.9	96.3	16.1		2.58
	Endrin	72.9	81.9	85.7	105	11.7		20.2
	Endrin Aldehyde	98.5	108	90.1	93.5	9.53		3.65
	Endrin Ketone	87.1	99.9	90.4	99.8	13.7		9.84
	EPTC	50.0	48.3	23.5	33.5	3.48		34.9
	Ethalfuralin	70.9	79.9	72.8	80.7	11.8		10.2
	Ethion	115	97.8	123	117	15.8		5.33
	Ethoprop	62.8	79.6			23.6		2.24
	Fenamiphos	94.8	81.2	107	103	15.4		3.99
	Fipronil	86.8	79.8	93.7	83.9	8.30		9.11
	Fipronil Desulfinyl	99.1	93.3	116	118	5.98		1.99
	Fipronil Sulfide	92.9	94.4	105	104	1.60		0.731
	Fipronil Sulfone	105	81.1	127	117	25.3		4.25
	Fonofos	76.3	81.3	108	119	6.29		10.2
	Gamma-BHC	99.7	98.5	227	132	1.29		53.3
	Gamma-Chlordane	59.8	70.2	72.6	80.5	16.0		10.4
	Heptachlor	63.5	72.2	56.4	66.4	12.8		16.2
	Heptachlor Epoxide	75.3	85.8	80.6	88.6	13.1		9.45
	Hexachlorobenzene	50.5	59.8	52.3	57.0	16.9		8.71
	Hexazinone	106	108	118	115	1.74		1.33
	Malathion	127	109	140	136	15.9		3.41
	Metalaxyl	89.0	93.1	106	108	4.47		1.53
	Methoxychlor	95.0	108	97.8	108	12.3		9.75
	Metolachlor	90.5	93.5			3.31		13.6
	Metribuzin	146	117			22.2		6.92
	Mevinphos	78.1	84.6	95.2	107	8.03		12.2
	Mirex	41.7	52.3	56.2	64.0	22.4		12.9
	Molinate	58.6	57.9	50.4	56.8	1.19		11.9
	Norflurazon	95.2	91.8	108	103	3.59		4.48
	Oxadiazon	84.1	82.1	92.7	86.1	2.50		6.12
	Parathion Ethyl	87.0	82.9	96.7	94.3	4.82		2.58
	Parathion Methyl	111	116	158	130	4.89		19.8
	Pendimethalin	84.2	70.4	93.1	78.6	17.9		16.8
	Permethrin	48.1	56.8	59.7	67.3	16.4		11.9
	Phorate	69.4	68.4	91.9	87.8	1.50		4.52
	Prodiamine	114	116	127	130	2.06		1.75
	Prometon	89.5	96.2	94.1	93.9	7.27		0.239
	Prometryn	91.1	95.6	99.0	96.5	4.88		2.56
	Simazine	98.6	104			5.76		21.9
	Tebuconazole	86.4	94.2	108	106	8.67		1.38
	Terbufos	78.4	80.3	92.4	92.3	2.41		0.147

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270D	Terbutylazine	93.8	101	98.6	96.3	7.15		2.33
	Trans-Nonachlor	55.9	65.9	72.4	79.6	16.3		9.52
	Trifluralin	67.8	79.5	74.9	82.9	15.9		10.2
EPA 8276	Chlordane	78.6	81.0	81.6	73.4	2.97		10.6
	Toxaphene	72.6	74.0	86.2	90.9	1.86		5.28
EPA 8321B	2,4-D	61.3		69.6	84.7			19.7
	2,4-D	70.2		72.9	60.4			18.9
	3-Hydroxycarbofuran	67.0		80.6	97.8			19.3
	Acesulfame K	118		154	147			5.18
	Acesulfame K	102		118	119			0.611
	Acetaminophen	70.0		94.0	95.9			2.00
	Acetaminophen	93.5		93.6	88.0			6.15
	Aldicarb	70.6		74.4	90.9			20.0
	Aldicarb Sulfone	84.0		97.2	99.1			1.91
	Aldicarb Sulfoxide	77.3		52.1	59.4			13.0
	AMPA	88.0		56.8	58.6			1.22
	AMPA	98.8		102	110			7.73
	Bentazon	90.1		80.6	85.8			4.61
	Bentazon	105		55.8	59.9			7.21
	Carbamazepine	78.8		85.2	90.7			6.25
	Carbamazepine	91.0		83.6	72.2			14.7
	Carbaryl	73.7		71.3	76.9			7.59
	Carbofuran	68.8		63.4	73.0			14.0
	Diuron	70.7		73.1	75.7			3.49
	Diuron	82.9		62.5	67.1			7.07
	Endothall	93.0		74.8	77.6			3.65
	Endothall	135		90.4	94.0			3.92
	Fenuron	87.6		108	109			1.06
	Fenuron	114		104	112			6.91
	Fluridone	126		121	150			21.0
	Fluridone	96.7		114	139			19.5
	Glufosinate	112		94.6	91.0			3.95
	Glufosinate	116		110	115			4.72
	Glyphosate	124		90.7	69.3			21.2
	Glyphosate	136		124	122			1.75
	Hydrocodone	79.5		86.6	94.0			8.20
	Hydrocodone	96.6		91.7	91.6			0.0336
	Ibuprofen	75.5		73.0	82.6			12.3
	Ibuprofen	57.2		71.8	83.8			15.5
	Imazapyr	77.1		100	99.2			1.02
	Imazapyr	76.9		83.3	74.9			8.45
	Imidacloprid	100		137	148			7.54
	Imidacloprid	117		167	167			0.0188
	Linuron	74.2		70.9	79.7			11.7
	Linuron	71.9		68.0	66.1			2.81
	MCPP	67.8		90.0	105			15.0
	MCPP	81.1		97.4	96.6			0.798
	Methiocarb	71.6		68.8	72.5			5.23
	Methomyl	85.0		91.9	99.3			7.76
	Naproxen	56.9		53.5	78.5			37.8
	Naproxen	69.4		66.2	68.4			3.30
	Oxamyl	82.0		90.3	96.1			6.23
	Primidone	73.8		76.6	83.5			8.70
	Primidone	66.9		77.8	77.7			0.130

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8321B	Propoxur	73.9	73.7	74.3		0.807
	Pyraclostrobin	50.5	57.1	63.7		10.8
	Pyraclostrobin	63.6	60.6	55.9		8.11
	Sucralose	86.2	102	92.0		10.1
	Sucralose	96.0	83.0	90.1		8.14
	Triclopyr	48.3	64.5	64.7		0.379
	Triclopyr	53.3	67.4	64.5		4.43
SM 2120 B	Color (true)	101			9.46	
	Color (true)	101			3.15	
SM 2320 B-97	Total Alkalinity	101			1.01	
SM 2540 C-97	TDS				4.35	
	TDS				6.19	
SM 4500 F-C-97	Fluoride	97.3	96.3	95.8		0.482
SM 5310 B-00	Organic Carbon	101	98.7	99.6		0.843

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	2074547, 2074548, 2074553, 2074554, 2074559
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2074603, 2074604
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2074603, 2074604
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2074547, 2074548, 2074553, 2074554, 2074559
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2074547, 2074548, 2074553, 2074554, 2074559
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2074549, 2074550, 2074555, 2074556, 2074560
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2074549, 2074550, 2074555, 2074556, 2074560
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2074549, 2074550, 2074555, 2074556, 2074560
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2074549, 2074550, 2074555, 2074556, 2074560
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2074551, 2074552, 2074557, 2074558, 2074561
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2074599, 2074600, 2075774
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2074601, 2074602, 2075775
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2074599, 2074600, 2075774
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2074597, 2075772
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2074598, 2075773
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2074598, 2075773
SM 2120 B / E31780	True Color measured at 450 nm	2074547, 2074548, 2074553, 2074554, 2074559
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2074547, 2074548, 2074553, 2074554, 2074559
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2074547, 2074548, 2074553, 2074554, 2074559
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2074547, 2074548, 2074553, 2074554, 2074559
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2074547, 2074548, 2074553, 2074554, 2074559
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2074549, 2074550, 2074555, 2074556, 2074560

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	04/03/2019			04/03/2019 16:46	Adrian Shelby	2074547, 2074548, 2074553, 2074554, 2074559
EPA 200.7 Rev. 4.4	04/03/2019	04/04/2019 15:00	Alexander Thompson	04/05/2019 13:58	Betina Topolski	2074603
	04/03/2019	04/04/2019 15:00	Alexander Thompson	04/05/2019 14:42	Betina Topolski	2074604
EPA 200.8 Rev. 5.4	04/03/2019	04/04/2019 15:00	Alexander Thompson	04/10/2019 01:57	Robert K Palmer	2074603
	04/03/2019	04/04/2019 15:00	Alexander Thompson	04/10/2019 02:54	Robert K Palmer	2074604
EPA 300.0 Rev. 2.1	04/03/2019			04/10/2019 00:08	Lipi Saha	2074548
	04/03/2019			04/10/2019 02:33	Lipi Saha	2074547
	04/03/2019			04/10/2019 02:45	Lipi Saha	2074553
	04/03/2019			04/10/2019 02:57	Lipi Saha	2074554
	04/03/2019			04/10/2019 03:09	Lipi Saha	2074559
EPA 350.1 Rev. 2.0	04/03/2019			04/09/2019 13:15	Ping Hua	2074549
	04/03/2019			04/09/2019 13:27	Ping Hua	2074550
	04/03/2019			04/09/2019 13:34	Ping Hua	2074555
	04/03/2019			04/09/2019 13:36	Ping Hua	2074556
	04/03/2019			04/09/2019 13:46	Ping Hua	2074560
EPA 351.2 Rev. 2.0	04/03/2019	04/08/2019 15:00	Jhamieka S. Greenwood	04/10/2019 11:33	Joseph Suarez	2074549
	04/03/2019	04/08/2019 15:00	Jhamieka S. Greenwood	04/10/2019 11:35	Joseph Suarez	2074550
	04/03/2019	04/08/2019 15:00	Jhamieka S. Greenwood	04/10/2019 11:36	Joseph Suarez	2074555
	04/03/2019	04/08/2019 15:00	Jhamieka S. Greenwood	04/10/2019 11:44	Joseph Suarez	2074560
	04/03/2019	04/09/2019 12:30	Adrian Shelby	04/10/2019 15:47	Joseph Suarez	2074556
EPA 353.2 Rev. 2.0	04/03/2019			04/04/2019 10:20	Beverly Y. Sanders	2074555
	04/03/2019			04/04/2019 10:25	Beverly Y. Sanders	2074556
	04/03/2019			04/04/2019 10:27	Beverly Y. Sanders	2074560
	04/03/2019			04/04/2019 11:33	Beverly Y. Sanders	2074549
	04/03/2019			04/04/2019 11:34	Beverly Y. Sanders	2074550
EPA 365.1 Rev. 2.0	04/03/2019	04/04/2019 13:35	Sima Feizi	04/05/2019 17:16	Rosalyn Ballman	2074549
	04/03/2019	04/04/2019 13:35	Sima Feizi	04/05/2019 17:17	Rosalyn Ballman	2074550
	04/03/2019	04/04/2019 13:35	Sima Feizi	04/05/2019 17:18	Rosalyn Ballman	2074555
	04/03/2019	04/04/2019 13:35	Sima Feizi	04/05/2019 17:19	Rosalyn Ballman	2074556
	04/03/2019	04/05/2019 13:45	Sima Feizi	04/08/2019 15:59	Rosalyn Ballman	2074560
EPA 365.1 Rev. 2.0 dissolved	04/03/2019			04/03/2019 17:12	Jhamieka S. Greenwood	2074551
	04/03/2019			04/03/2019 17:55	Jhamieka S. Greenwood	2074561
	04/03/2019			04/03/2019 18:03	Jhamieka S. Greenwood	2074557
	04/03/2019			04/03/2019 18:04	Jhamieka S. Greenwood	2074558
	04/03/2019			04/03/2019 18:19	Jhamieka S. Greenwood	2074552
EPA 8270D	04/03/2019	04/05/2019 08:00	Fe-Val Siddell	04/09/2019 00:10	Vandana T. Nagar	2074601
	04/03/2019	04/05/2019 08:00	Fe-Val Siddell	04/09/2019 00:34	Vandana T. Nagar	2074602
	04/03/2019	04/05/2019 08:30	Rasheda Ghaffari	04/08/2019 21:45	Arthur Maknenko	2074599
	04/03/2019	04/05/2019 08:30	Rasheda Ghaffari	04/08/2019 22:16	Arthur Maknenko	2074600

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8270D	04/04/2019	04/05/2019 08:00	Fe-Val Siddell	04/09/2019 03:45	Vandana T. Nagar	2075775
	04/04/2019	04/05/2019 08:30	Rasheda Ghaffari	04/09/2019 01:27	Arthur Maknenko	2075774
EPA 8276	04/03/2019	04/05/2019 08:30	Rasheda Ghaffari	04/10/2019 00:08	Dinesh Mishra	2074599
	04/03/2019	04/05/2019 08:30	Rasheda Ghaffari	04/10/2019 01:04	Dinesh Mishra	2074600
EPA 8321B	04/04/2019	04/05/2019 08:30	Rasheda Ghaffari	04/10/2019 08:56	Dinesh Mishra	2075774
	04/03/2019	04/04/2019 13:30	Rebecca Ware	04/04/2019 18:00	Rebecca Ware	2074598
	04/03/2019	04/04/2019 13:30	Rebecca Ware	04/05/2019 13:34	Rebecca Ware	2074598
	04/03/2019	04/04/2019 13:30	Rebecca Ware	04/09/2019 19:51	Rebecca Ware	2074598
	04/03/2019	04/05/2019 10:00	Hoor Shaik	04/15/2019 23:46	Juyoung Kim	2074597
	04/03/2019	04/05/2019 10:00	Hoor Shaik	04/16/2019 22:15	Juyoung Kim	2074598
	04/04/2019	04/05/2019 10:00	Hoor Shaik	04/16/2019 03:14	Juyoung Kim	2075772
	04/04/2019	04/05/2019 15:44	Rebecca Ware	04/05/2019 17:54	Rebecca Ware	2075773
	04/04/2019	04/05/2019 15:44	Rebecca Ware	04/08/2019 12:58	Rebecca Ware	2075773
	04/04/2019	04/05/2019 15:44	Rebecca Ware	04/10/2019 01:23	Rebecca Ware	2075773
SM 2120 B	04/04/2019	04/08/2019 10:00	Hoor Shaik	04/17/2019 15:00	Juyoung Kim	2075773
	04/03/2019			04/03/2019 16:14	Mariam Hanna	2074547
	04/03/2019			04/03/2019 16:15	Mariam Hanna	2074548
	04/03/2019			04/03/2019 16:16	Mariam Hanna	2074553, 2074554
SM 2320 B-97	04/03/2019			04/03/2019 16:20	Mariam Hanna	2074559
	04/03/2019			04/09/2019 17:34	Samantha Davila	2074547
	04/03/2019			04/09/2019 17:49	Samantha Davila	2074548
	04/03/2019			04/09/2019 18:02	Samantha Davila	2074553
	04/03/2019			04/09/2019 18:16	Samantha Davila	2074554
SM 2540 C-97	04/03/2019			04/09/2019 18:29	Samantha Davila	2074559
	04/03/2019			04/05/2019 15:52	Yijie Li	2074547, 2074548, 2074553, 2074554, 2074559
SM 2540 D-97	04/03/2019			04/05/2019 15:52	Yijie Li	2074547, 2074548, 2074553, 2074554, 2074559
SM 4500 F-C-97	04/03/2019			04/18/2019 08:13	Samantha Davila	2074547
	04/03/2019			04/18/2019 08:18	Samantha Davila	2074548
	04/03/2019			04/18/2019 08:24	Samantha Davila	2074553
	04/03/2019			04/18/2019 08:29	Samantha Davila	2074554
	04/03/2019			04/18/2019 08:36	Samantha Davila	2074559
SM 5310 B-00	04/03/2019			04/04/2019 21:25	Julia Storbeck	2074549
	04/03/2019			04/05/2019 00:03	Julia Storbeck	2074550
	04/03/2019			04/05/2019 00:40	Julia Storbeck	2074555
	04/03/2019			04/05/2019 00:52	Julia Storbeck	2074556
	04/03/2019			04/05/2019 01:04	Julia Storbeck	2074560