

Chemical Analysis Report

WQ-ASSESS-2017-09-19-01

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

Event Description: **RUN 11 Moccasin**

Request ID: **RQ-2017-09-18-29**

Customer: **WQ-ASSESS**

Project ID: **SMP**

Send Reports to:

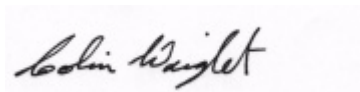
FL Dept. of Environmental Protection
Division Of Water Facilities, FL DEP
13051 N. Telecom Parkway
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Attn: Judy Ashton

For additional information please contact

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Certified by: Colin Wright, Program Administrator

Date Certified: 09-OCT-2017 10:43

A handwritten signature in black ink, appearing to read "Colin Wright", is placed over a light gray rectangular background.

Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Moccasin Crk

Collection Date/Time: 09/18/2017 13:05

Field ID: G1SW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1929535	EPA 180.1 Rev. 2.0	Turbidity	2.8		NTU	P331859	
	SM 2320 B-97	Total Alkalinity	72		mg CaCO3/L	P331930	
	SM 2540 D-97	TSS	4	I	mg/L	P332249	
	SM 4500 F-C-97	Fluoride	0.18		mg F/L	P331935	
1929536	EPA 350.1 Rev. 2.0	Ammonia-N	0.12		mg N/L	P331951	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.6		mg N/L	P332188	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.025		mg N/L	P331901	
	EPA 365.1 Rev. 2.0	Total-P	0.25		mg P/L	P331921	
	SM 5310 B-00	Organic Carbon	34		mg C/L	P332080	
1929537	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.21		mg P/L	P331880	
1929567	EPA 200.7 Rev. 4.4	Iron	710		ug/L	P331862	
		Zinc	5.0	U	ug/L	P331862	
	EPA 200.8 Rev. 5.4	Arsenic	2.30		ug/L	P331862	
		Cadmium	0.020	U	ug/L	P331862	
		Chromium	0.70	I	ug/L	P331862	
		Copper	0.86		ug/L	P331862	
		Lead	0.40		ug/L	P331862	
		Nickel	0.81		ug/L	P331862	
		Silver	0.010	U	ug/L	P331862	

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: Moccasin Crk

Collection Date/Time: 09/18/2017 13:05

Field ID: G1SW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1929559	EPA 8321B	Glyphosate**	1.3	I	ug/L	P331888	
		Pyraclostrobin**	0.0020	U	ug/L	P331787	
		Sucralose**	0.16		ug/L	P331875	
	USGS O-2060-01	2,4-D	0.010		ug/L	P331876	
		Diuron	0.0031	I	ug/L	P331876	
		Fenuron	0.0080	U	ug/L	P331876	
		Imidacloprid	0.16		ug/L	P331876	MS
		Bentazon	0.018		ug/L	P331876	MS
		Linuron	0.0040	U	ug/L	P331876	
		Acetaminophen**	0.0080	U	ug/L	P331876	
		MCP	0.0020	U	ug/L	P331876	
		Carbamazepine**	7.7E-04	I	ug/L	P331876	
		Triclopyr**	0.0040	U	ug/L	P331876	
		Primidone**	0.0040	U	ug/L	P331876	
		Fluridone**	0.039		ug/L	P331876	
1929560	EPA 8270D	Aldrin	4.1	U	ng/L	P331891	RPD
		Alpha-BHC	2.1	UJ	ng/L	P331891	LCS
		Beta-BHC	4.1	U	ng/L	P331891	

Field ID: G1SW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1929560	EPA 8270D	Delta-BHC	4.1	U	ng/L	P331891	
		Gamma-BHC	4.1	U	ng/L	P331891	
		Carbophenothion	4.1	U	ng/L	P331891	
		Chlorothalonil	2.1	U	ng/L	P331891	RPD
		Cypermethrin	21	U	ng/L	P331891	
		DDD-p,p'	3.1	U	ng/L	P331891	RPD
		DDE-p,p'	3.1	U	ng/L	P331891	RPD
		DDT-p,p'	3.1	U	ng/L	P331891	
		Dieldrin	4.1	U	ng/L	P331891	
		Endosulfan I	4.1	U	ng/L	P331891	RPD
		Endosulfan II	4.1	U	ng/L	P331891	
		Endosulfan Sulfate	2.1	U	ng/L	P331891	
		Endrin	2.1	U	ng/L	P331891	
		Endrin Aldehyde	2.1	U	ng/L	P331891	RPD
		Heptachlor	1.6	U	ng/L	P331891	
		Heptachlor Epoxide	2.1	UJ	ng/L	P331891	LCS
		Methoxychlor	4.1	U	ng/L	P331891	
		Mirex	2.1	U	ng/L	P331891	
		Permethrin	10	U	ng/L	P331891	
		Trifluralin	1.0	U	ng/L	P331891	
		Alpha-Chlordane	1.0	U	ng/L	P331891	
		Gamma-Chlordane	1.0	U	ng/L	P331891	
		Endrin Ketone	2.1	UJ	ng/L	P331891	LCS
		Dicofol	31	UJ	ng/L	P331891	CCV, RPD
		Chlordane**	2.6	U	ng/L	P331891	
		Toxaphene**	13	U	ng/L	P331891	
1929561	EPA 8270D	Alachlor	0.24	U	ng/L	P331906	
		Ametryn	2.5	J	ng/L	P331906	LCS
		Atrazine	41		ng/L	P331906	
		Atrazine Desethyl	3.1	I	ng/L	P331906	MS, RPD
		Azinphos Methyl	2.1	U	ng/L	P331906	
		Bromacil	0.47	U	ng/L	P331906	
		Butylate	0.38	U	ng/L	P331906	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P331906	
		Chlorpyrifos Methyl	0.095	U	ng/L	P331906	
		Demeton	1.9	U	ng/L	P331906	
		Diazinon	0.12	U	ng/L	P331906	
		Disulfoton	0.47	U	ng/L	P331906	
		EPTC	1.2	U	ng/L	P331906	
		Ethion	0.14	U	ng/L	P331906	
		Ethoprop	0.095	U	ng/L	P331906	
		Fenamiphos	0.24	U	ng/L	P331906	
		Fipronil	1.4		ng/L	P331906	
		Fipronil Sulfide	1.1		ng/L	P331906	
		Fipronil Sulfone	1.6		ng/L	P331906	

Field ID: G1SW0051

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1929561	EPA 8270D	Hexazinone	0.47	U	ng/L	P331906	LCS, MS, RPD
		Malathion	0.33	U	ng/L	P331906	
		Metribuzin	0.19	UJ	ng/L	P331906	
		Mevinphos	0.47	U	ng/L	P331906	
		Molinate	0.28	U	ng/L	P331906	
		Norflurazon	0.47	U	ng/L	P331906	
		Pendimethalin	0.95	U	ng/L	P331906	
		Phorate	0.24	U	ng/L	P331906	
		Prometon	0.85	U	ng/L	P331906	
		Prometryn	0.19	U	ng/L	P331906	
		Simazine	0.42	T	ng/L	P331906	CCV, MS
		Terbufos	0.095	U	ng/L	P331906	
		Terbutylazine	0.40	U	ng/L	P331906	
		Fonofos	0.19	U	ng/L	P331906	
		Metalaxyl	0.19	U	ng/L	P331906	
		Metolachlor	0.24	U	ng/L	P331906	
		Acetochlor	0.24	U	ng/L	P331906	
		Cyanazine	0.47	UJ	ng/L	P331906	
		Parathion Ethyl	0.24	U	ng/L	P331906	
		Parathion Methyl	0.24	U	ng/L	P331906	

Ref. Method and Comment:
 EPA 8321B: Results confirmed in re-extraction.
 EPA 8270D: Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P331859

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P331862

Component	Result	Code	Units
Iron	30	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P331862

Component	Result	Code	Units
Arsenic	0.25	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Copper	0.20	U	ug/L
Lead	0.050	U	ug/L
Nickel	0.20	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P331862

Component	Result	Code	Units
Silver	0.010	U	ug/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P331951

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P332188

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P331901

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P331921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P331880

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

Reference Method: EPA 8270D
Batch ID: P331891

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	4.0	U	ng/L
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	3.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D

Batch ID: P331891

Component	Result	Code	Units
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D

Batch ID: P331906

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.32	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	2.2	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	0.50	U	ng/L
Demeton	2.0	U	ng/L
Diazinon	0.12	U	ng/L
Disulfoton	0.50	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metalaxyl	0.20	U	ng/L
Metolachlor	0.25	U	ng/L
Metribuzin	0.20	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.25	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P331906

Component	Result	Code	Units
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P331891

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Toxaphene	12	U	ng/L

Reference Method: EPA 8321B
Batch ID: P331787

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P331875

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P331888

Component	Result	Code	Units
Glyphosate	0.50	U	ug/L

Reference Method: SM 2320 B-97
Batch ID: P331930

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

Reference Method: SM 2540 D-97
Batch ID: P332249

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P331935

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P332080

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01

Batch ID: P331876

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	4.0E-04	U	ug/L
Diuron	8.0E-04	U	ug/L
Fenuron	0.0080	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P331862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Iron	104		P	85 - 115
Zinc	98.0		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P331862

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	93.0		P	85 - 115
Cadmium	102		P	85 - 115
Chromium	98.1		P	85 - 115
Copper	96.6		P	85 - 115
Lead	97.3		P	85 - 115
Nickel	97.5		P	85 - 115
Silver	97.5		P	85 - 115

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331951

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

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P332188

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

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P331901

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

Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P331901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P331921

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P331880

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

Reference Method: EPA 8270D

Batch ID: P331891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	37.8	34.8	P/P	26 - 88.0
Alpha-BHC	64.9	62.9	P/F	63 - 114
Alpha-Chlordane	70.7	58.3	P/P	56 - 117
Beta-BHC	68.1	61.2	P/P	57 - 138
Carbophenothion	95.1	83.5	P/P	36 - 148
Chlorothalonil	75.5	57.0	P/P	26 - 173
Cypermethrin	75.3	66.6	P/P	42 - 159
DDD-p,p'	79.9	62.9	P/P	62 - 126
DDE-p,p'	70.6	57.3	P/P	53 - 115
DDT-p,p'	76.3	63.1	P/P	54 - 117
Delta-BHC	75.6	70.9	P/P	68 - 158
Dicofol	51.5	39.3	P/P	25 - 114
Dieldrin	74.3	60.5	P/P	59 - 126
Endosulfan I	76.4	62.9	P/P	62 - 138
Endosulfan II	88.8	66.9	P/P	61 - 150
Endosulfan Sulfate	75.3	64.5	P/P	63 - 132
Endrin	70.7	63.0	P/P	49 - 148
Endrin Aldehyde	75.7	56.3	P/P	50 - 144
Endrin Ketone	77.2	63.5	P/F	66 - 122
Gamma-BHC	70.1	66.9	P/P	60 - 137
Gamma-Chlordane	70.1	58.9	P/P	54 - 113
Heptachlor	62.8	54.7	P/P	43 - 104
Heptachlor Epoxide	70.6	59.6	P/F	64 - 118
Methoxychlor	77.1	68.0	P/P	63 - 129
Mirex	62.9	54.5	P/P	39 - 93.0
Permethrin	68.7	61.8	P/P	51 - 123
Trifluralin	130	119	P/P	35 - 187

Reference Method: EPA 8270D

Batch ID: P331906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	109	115	P/P	78 - 118
Alachlor	103	108	P/P	77 - 119

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D

Batch ID: P331906

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ametryn	126	149	P/F	61 - 136
Atrazine	83.3	103	P/P	73 - 120
Atrazine Desethyl	89.4	90.3	P/P	16 - 122
Azinphos Methyl	101	97.7	P/P	69 - 186
Bromacil	95.1	81.3	P/P	40 - 125
Butylate	44.2	46.9	P/P	32 - 87.0
Chlorpyrifos Ethyl	83.6	87.9	P/P	53 - 110
Chlorpyrifos Methyl	103	117	P/P	31 - 119
Cyanazine	209	201	P/P	36 - 224
Demeton	84.8	91.0	P/P	39 - 122
Diazinon	89.8	94.8	P/P	75 - 119
Disulfoton	99.6	99.1	P/P	42 - 139
EPTC	45.3	46.8	P/P	33 - 96.0
Ethion	85.3	114	P/P	63 - 127
Ethoprop	65.5	71.5	P/P	65 - 107
Fenamiphos	90.0	111	P/P	64 - 137
Fipronil	98.1	81.8	P/P	60 - 126
Fipronil Sulfide	113	102	P/P	58 - 124
Fipronil Sulfone	77.8	93.2	P/P	57 - 126
Fonofos	81.5	94.4	P/P	65 - 111
Hexazinone	89.8	89.1	P/P	46 - 151
Malathion	115	123	P/P	68 - 132
Metaxyl	102	104	P/P	51 - 132
Metolachlor	108	109	P/P	78 - 119
Metribuzin	153	112	F/P	58 - 148
Mevinphos	54.6	64.1	P/P	34 - 128
Molinate	57.0	55.5	P/P	44 - 101
Norflurazon	78.1	84.7	P/P	63 - 129
Parathion Ethyl	85.7	89.7	P/P	80 - 109
Parathion Methyl	88.1	90.4	P/P	74 - 125
Pendimethalin	87.7	94.0	P/P	48 - 134
Phorate	81.5	84.0	P/P	52 - 119
Prometon	85.6	90.8	P/P	69 - 124
Prometryn	99.4	110	P/P	66 - 124
Simazine	95.3	97.2	P/P	61 - 134
Terbufos	85.7	93.1	P/P	58 - 115
Terbutylazine	85.8	92.7	P/P	77 - 113

Reference Method: EPA 8276

Batch ID: P331891

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	97.9	95.4	P/P	48 - 121
Toxaphene	116	109	P/P	43 - 135

Reference Method: EPA 8321B

Batch ID: P331787

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	75.7		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P331875

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	78.0		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331888

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	85.4		P	40 - 150

Reference Method: SM 2320 B-97

Batch ID: P331930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	95 - 108

Reference Method: SM 4500 F-C-97

Batch ID: P331935

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	95.5		P	92 - 103

Reference Method: SM 5310 B-00

Batch ID: P332080

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

Reference Method: USGS O-2060-01

Batch ID: P331876

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	65.1		P	40 - 150
Acetaminophen	41.6		P	30 - 150
Bentazon	51.3		P	40 - 150
Carbamazepine	128		P	40 - 150
Diuron	104		P	40 - 150
Fenuron	109		P	40 - 150
Fluridone	114		P	40 - 150
Imidacloprid	98.7		P	40 - 160
Linuron	95.0		P	40 - 150
MCP	60.2		P	40 - 150
Primidone	96.6		P	40 - 150
Triclopyr	57.5		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P331862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929129	Iron	104		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P331862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929129	Zinc	101		P	80 - 120
1929490	Iron	104	104	P/P	80 - 120
1929490	Zinc	100	100	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P331862

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929129	Arsenic	87.9		P	80 - 120
1929129	Cadmium	103		P	80 - 120
1929129	Chromium	97.5		P	80 - 120
1929129	Copper	95.5		P	80 - 120
1929129	Lead	97.5		P	80 - 120
1929129	Nickel	96.9		P	80 - 120
1929129	Silver	95.9		P	80 - 120
1929490	Arsenic	88.9	92.6	P/P	80 - 120
1929490	Cadmium	103	103	P/P	80 - 120
1929490	Chromium	98.0	98.1	P/P	80 - 120
1929490	Copper	96.9	96.5	P/P	80 - 120
1929490	Lead	98.5	97.9	P/P	80 - 120
1929490	Nickel	98.4	99.2	P/P	80 - 120
1929490	Silver	97.0	97.0	P/P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P331951

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929504	Ammonia-N	103	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P332188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929523	Kjeldahl Nitrogen	106	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P331901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929526	NO2NO3-N	104	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P331921

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929555	Total-P	95.6	97.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P331880

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929529	O-Phosphate-P	97.2	99.5	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P331891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1930268	Aldrin	51.8	37.7	P/P	22 - 97.0
1930268	Alpha-BHC	72.4	56.3	P/P	43 - 132
1930268	Alpha-Chlordane	73.7	54.7	P/P	36 - 126
1930268	Beta-BHC	73.6	64.0	P/P	41 - 150
1930268	Carbophenothion	115	89.8	P/P	13 - 196
1930268	Chlorothalonil	136	93.3	P/P	10 - 266
1930268	Cypermethrin	56.0	50.5	P/P	37 - 161
1930268	DDD-p,p'	76.7	56.6	P/P	44 - 131
1930268	DDE-p,p'	70.5	49.0	P/P	32 - 127
1930268	DDT-p,p'	65.9	57.1	P/P	45 - 116
1930268	Delta-BHC	96.9	88.0	P/P	50 - 201
1930268	Dicofol	46.1	27.3	P/P	10 - 100
1930268	Dieldrin	76.4	49.4	P/P	39 - 142
1930268	Endosulfan I	82.4	59.2	P/P	51 - 139
1930268	Endosulfan II	82.8	67.3	P/P	49 - 155
1930268	Endosulfan Sulfate	75.9	64.1	P/P	54 - 136
1930268	Endrin	74.2	58.0	P/P	38 - 141
1930268	Endrin Aldehyde	70.3	48.6	P/P	14 - 152
1930268	Endrin Ketone	74.2	60.9	P/P	60 - 128
1930268	Gamma-BHC	83.1	78.4	P/P	48 - 157
1930268	Gamma-Chlordane	71.1	53.6	P/P	35 - 123
1930268	Heptachlor	64.0	47.6	P/P	25 - 112
1930268	Heptachlor Epoxide	71.9	55.4	P/P	48 - 125
1930268	Methoxychlor	75.6	61.3	P/P	52 - 127
1930268	Mirex	60.0	46.7	P/P	25 - 108
1930268	Permethrin	70.2	58.4	P/P	46 - 133
1930268	Trifluralin	166	125	P/P	29 - 254

Reference Method: EPA 8270D

Batch ID: P331906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929517	Acetochlor	109	99.0	P/P	74 - 123
1929517	Alachlor	105	92.0	P/P	73 - 124
1929517	Ametryn	81.9	79.6	P/P	56 - 149
1929517	Atrazine	89.8	90.0	P/P	73 - 124
1929517	Atrazine Desethyl	73.2	113	P/F	12 - 103
1929517	Azinphos Methyl	83.1	87.5	P/P	60 - 202
1929517	Bromacil	74.6	84.9	P/P	42 - 133
1929517	Butylate	16.0	16.4	P/P	10 - 85.0
1929517	Chlorpyrifos Ethyl	71.2	75.4	P/P	53 - 113
1929517	Chlorpyrifos Methyl	69.6	62.0	P/P	40 - 115
1929517	Cyanazine	185	217	P/F	22 - 210
1929517	Demeton	73.2	65.9	P/P	17 - 149
1929517	Diazinon	86.9	87.2	P/P	72 - 124
1929517	Disulfoton	95.5	74.8	P/P	43 - 139
1929517	EPTC	20.5	19.8	P/P	10 - 86.0
1929517	Ethion	81.3	87.5	P/P	65 - 131
1929517	Ethoprop	74.6	72.7	P/P	59 - 110
1929517	Fenamiphos	84.8	85.1	P/P	57 - 138
1929517	Fipronil	75.6	96.3	P/P	40 - 130
1929517	Fipronil Sulfide	83.4	93.9	P/P	36 - 128

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8270D

Batch ID: P331906

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929517	Fipronil Sulfone	61.2	68.6	P/P	16 - 145
1929517	Fonofos	81.4	69.1	P/P	60 - 112
1929517	Hexazinone	83.0	73.0	P/P	69 - 142
1929517	Malathion	108	91.5	P/P	68 - 132
1929517	Metalaxyl	78.0	77.5	P/P	66 - 118
1929517	Metolachlor	101	89.0	P/P	71 - 124
1929517	Metribuzin	156	162	F/F	61 - 140
1929517	Mevinphos	63.2	54.6	P/P	38 - 130
1929517	Molinate	32.6	25.6	P/P	23 - 99.0
1929517	Norflurazon	67.9	81.8	P/P	39 - 139
1929517	Parathion Ethyl	79.0	77.3	P/P	75 - 111
1929517	Parathion Methyl	86.1	73.4	P/P	64 - 130
1929517	Pendimethalin	74.7	79.5	P/P	26 - 173
1929517	Phorate	72.4	74.5	P/P	43 - 127
1929517	Prometon	84.5	77.2	P/P	50 - 144
1929517	Prometryn	69.1	74.6	P/P	69 - 126
1929517	Simazine	73.7	72.2	P/P	51 - 152
1929517	Terbufos	88.2	77.1	P/P	54 - 125
1929517	Terbutylazine	82.0	81.6	P/P	76 - 113

Reference Method: EPA 8276

Batch ID: P331891

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929600	Chlordane	98.4	92.9	P/P	44 - 134
1929600	Toxaphene	117	99.7	P/P	36 - 147

Reference Method: EPA 8321B

Batch ID: P331787

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929019	Pyraclostrobin	74.7	70.0	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331875

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929674	Sucralose	56.6	48.4	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P331888

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929559	Glyphosate	90.9	89.1	P/P	40 - 150

Reference Method: SM 4500 F-C-97

Batch ID: P331935

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929263	Fluoride	94.6	95.1	P/P	91 - 105

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
 Batch ID: P332080

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929524	Organic Carbon	98.3	101	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P331876

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1929569	2,4-D	47.7	51.7	P/P	40 - 150
1929569	Acetaminophen	46.4	57.8	P/P	30 - 150
1929569	Bentazon	21.8	24.3	F/F	40 - 150
1929569	Carbamazepine	99.1	101	P/P	40 - 150
1929569	Diuron	73.1	75.7	P/P	40 - 150
1929569	Fenuron	87.3	91.3	P/P	40 - 150
1929569	Fluridone	112	110	P/P	40 - 150
1929569	Imidacloprid	173	182	F/F	40 - 160
1929569	Linuron	94.0	90.2	P/P	40 - 150
1929569	MCP	47.0	47.8	P/P	40 - 150
1929569	Primidone	96.0	97.0	P/P	40 - 150
1929569	Triclopyr	42.0	46.6	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P331859

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929520	Turbidity	1.74	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P331862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929490	Iron	0.823	Spike	P	0 - 20
1929490	Zinc	0.236	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P331862

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929490	Arsenic	4.08	Spike	P	0 - 20
1929490	Cadmium	0.215	Spike	P	0 - 20
1929490	Chromium	0.0550	Spike	P	0 - 20
1929490	Copper	0.353	Spike	P	0 - 20
1929490	Lead	0.562	Spike	P	0 - 20
1929490	Nickel	0.746	Spike	P	0 - 20
1929490	Silver	0.0420	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P331951

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929504	Ammonia-N	3.27	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P332188

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929523	Kjeldahl Nitrogen	5.32	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P331901

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929526	NO2NO3-N	0.816	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P331921

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929555	Total-P	1.57	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Batch ID: P331880

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929529	O-Phosphate-P	2.34	Spike	P	0 - 20

Reference Method: EPA 8270D

Batch ID: P331891

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1930268	Aldrin	31.6	Spike	F	0 - 30
1930268	Alpha-BHC	24.9	Spike	P	0 - 30
1930268	Alpha-Chlordane	29.6	Spike	P	0 - 30
1930268	Beta-BHC	13.9	Spike	P	0 - 30
1930268	Carbophenothion	24.6	Spike	P	0 - 30
1930268	Chlorothalonil	36.9	Spike	F	0 - 30
1930268	Cypermethrin	10.3	Spike	P	0 - 30
1930268	DDD-p,p'	30.2	Spike	F	0 - 30
1930268	DDE-p,p'	36.1	Spike	F	0 - 30
1930268	DDT-p,p'	14.3	Spike	P	0 - 30
1930268	Delta-BHC	9.60	Spike	P	0 - 30
1930268	Dicofol	51.1	Spike	F	0 - 30
1930268	Dieldrin	23.6	Spike	P	0 - 30
1930268	Endosulfan I	32.7	Spike	F	0 - 30
1930268	Endosulfan II	20.7	Spike	P	0 - 30
1930268	Endosulfan Sulfate	16.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P331891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1930268	Endrin	24.4	Spike	P	0 - 30
1930268	Endrin Aldehyde	36.5	Spike	F	0 - 30
1930268	Endrin Ketone	19.6	Spike	P	0 - 30
1930268	Gamma-BHC	5.87	Spike	P	0 - 30
1930268	Gamma-Chlordane	28.2	Spike	P	0 - 30
1930268	Heptachlor	29.4	Spike	P	0 - 30
1930268	Heptachlor Epoxide	25.9	Spike	P	0 - 30
1930268	Methoxychlor	20.8	Spike	P	0 - 30
1930268	Mirex	25.1	Spike	P	0 - 30
1930268	Permethrin	18.5	Spike	P	0 - 30
1930268	Trifluralin	28.5	Spike	P	0 - 30
LFB	Aldrin	8.21	LCS	P	0 - 30
LFB	Alpha-BHC	3.11	LCS	P	0 - 30
LFB	Alpha-Chlordane	19.3	LCS	P	0 - 30
LFB	Beta-BHC	10.8	LCS	P	0 - 30
LFB	Carbophenothion	12.9	LCS	P	0 - 30
LFB	Chlorothalonil	28.0	LCS	P	0 - 30
LFB	Cypermethrin	12.3	LCS	P	0 - 30
LFB	DDD-p,p'	23.7	LCS	P	0 - 30
LFB	DDE-p,p'	20.8	LCS	P	0 - 30
LFB	DDT-p,p'	19.0	LCS	P	0 - 30
LFB	Delta-BHC	6.47	LCS	P	0 - 30
LFB	Dicofol	27.0	LCS	P	0 - 30
LFB	Dieldrin	20.6	LCS	P	0 - 30
LFB	Endosulfan I	19.3	LCS	P	0 - 30
LFB	Endosulfan II	28.1	LCS	P	0 - 30
LFB	Endosulfan Sulfate	15.5	LCS	P	0 - 30
LFB	Endrin	11.5	LCS	P	0 - 30
LFB	Endrin Aldehyde	29.5	LCS	P	0 - 30
LFB	Endrin Ketone	19.5	LCS	P	0 - 30
LFB	Gamma-BHC	4.69	LCS	P	0 - 30
LFB	Gamma-Chlordane	17.4	LCS	P	0 - 30
LFB	Heptachlor	13.8	LCS	P	0 - 30
LFB	Heptachlor Epoxide	16.9	LCS	P	0 - 30
LFB	Methoxychlor	12.5	LCS	P	0 - 30
LFB	Mirex	14.4	LCS	P	0 - 30
LFB	Permethrin	10.5	LCS	P	0 - 30
LFB	Trifluralin	9.00	LCS	P	0 - 30

Reference Method: EPA 8270D

Batch ID: P331906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929517	Acetochlor	9.91	Spike	P	0 - 30
1929517	Alachlor	12.9	Spike	P	0 - 30
1929517	Ametryn	2.88	Spike	P	0 - 30
1929517	Atrazine	0.112	Spike	P	0 - 30
1929517	Atrazine Desethyl	42.6	Spike	F	0 - 30
1929517	Azinphos Methyl	5.11	Spike	P	0 - 30
1929517	Bromacil	13.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P331906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929517	Butylate	2.42	Spike	P	0 - 30
1929517	Chlorpyrifos Ethyl	5.84	Spike	P	0 - 30
1929517	Chlorpyrifos Methyl	11.5	Spike	P	0 - 30
1929517	Cyanazine	15.9	Spike	P	0 - 30
1929517	Demeton	10.5	Spike	P	0 - 30
1929517	Diazinon	0.369	Spike	P	0 - 30
1929517	Disulfoton	24.3	Spike	P	0 - 30
1929517	EPTC	3.73	Spike	P	0 - 30
1929517	Ethion	7.25	Spike	P	0 - 30
1929517	Ethoprop	2.55	Spike	P	0 - 30
1929517	Fenamiphos	0.328	Spike	P	0 - 30
1929517	Fipronil	24.0	Spike	P	0 - 30
1929517	Fipronil Sulfide	12.0	Spike	P	0 - 30
1929517	Fipronil Sulfone	11.4	Spike	P	0 - 30
1929517	Fonofos	16.2	Spike	P	0 - 30
1929517	Hexazinone	12.7	Spike	P	0 - 30
1929517	Malathion	16.7	Spike	P	0 - 30
1929517	Metalaxyl	0.696	Spike	P	0 - 30
1929517	Metolachlor	12.3	Spike	P	0 - 30
1929517	Metribuzin	3.51	Spike	P	0 - 30
1929517	Mevinphos	14.5	Spike	P	0 - 30
1929517	Molinate	24.3	Spike	P	0 - 30
1929517	Norflurazon	18.5	Spike	P	0 - 30
1929517	Parathion Ethyl	2.15	Spike	P	0 - 30
1929517	Parathion Methyl	16.0	Spike	P	0 - 30
1929517	Pendimethalin	6.22	Spike	P	0 - 30
1929517	Phorate	2.75	Spike	P	0 - 30
1929517	Prometon	9.03	Spike	P	0 - 30
1929517	Prometryn	7.62	Spike	P	0 - 30
1929517	Simazine	1.95	Spike	P	0 - 30
1929517	Terbufos	13.4	Spike	P	0 - 30
1929517	Terbuthylazine	0.492	Spike	P	0 - 30
LFB	Acetochlor	5.59	LCS	P	0 - 30
LFB	Alachlor	4.35	LCS	P	0 - 30
LFB	Ametryn	16.8	LCS	P	0 - 30
LFB	Atrazine	21.4	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.984	LCS	P	0 - 30
LFB	Azinphos Methyl	3.06	LCS	P	0 - 30
LFB	Bromacil	15.7	LCS	P	0 - 30
LFB	Butylate	5.91	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	4.95	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	12.8	LCS	P	0 - 30
LFB	Cyanazine	4.02	LCS	P	0 - 30
LFB	Demeton	7.05	LCS	P	0 - 30
LFB	Diazinon	5.46	LCS	P	0 - 30
LFB	Disulfoton	0.530	LCS	P	0 - 30
LFB	EPTC	3.30	LCS	P	0 - 30
LFB	Ethion	28.6	LCS	P	0 - 30
LFB	Ethoprop	8.73	LCS	P	0 - 30
LFB	Fenamiphos	20.8	LCS	P	0 - 30
LFB	Fipronil	18.0	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D

Batch ID: P331906

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Fipronil Sulfide	10.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	18.0	LCS	P	0 - 30
LFB	Fonofos	14.6	LCS	P	0 - 30
LFB	Hexazinone	0.868	LCS	P	0 - 30
LFB	Malathion	7.18	LCS	P	0 - 30
LFB	Metalaxyl	2.00	LCS	P	0 - 30
LFB	Metolachlor	1.17	LCS	P	0 - 30
LFB	Metribuzin	31.4	LCS	F	0 - 30
LFB	Mevinphos	16.0	LCS	P	0 - 30
LFB	Molinate	2.65	LCS	P	0 - 30
LFB	Norflurazon	8.09	LCS	P	0 - 30
LFB	Parathion Ethyl	4.53	LCS	P	0 - 30
LFB	Parathion Methyl	2.66	LCS	P	0 - 30
LFB	Pendimethalin	7.00	LCS	P	0 - 30
LFB	Phorate	3.09	LCS	P	0 - 30
LFB	Prometon	5.85	LCS	P	0 - 30
LFB	Prometryn	9.78	LCS	P	0 - 30
LFB	Simazine	2.00	LCS	P	0 - 30
LFB	Terbufos	8.34	LCS	P	0 - 30
LFB	Terbutylazine	7.74	LCS	P	0 - 30

Reference Method: EPA 8276

Batch ID: P331891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929600	Chlordane	5.71	Spike	P	0 - 30
1929600	Toxaphene	16.0	Spike	P	0 - 30
LFB	Chlordane	2.63	LCS	P	0 - 30
LFB	Toxaphene	6.19	LCS	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P331787

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929019	Pyraclostrobin	6.58	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P331875

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929674	Sucralose	9.29	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P331888

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929559	Glyphosate	1.98	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-97
 Batch ID: P331930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929263	Total Alkalinity	0.384	Sample	P	0 - 4.8

Reference Method: SM 4500 F-C-97
 Batch ID: P331935

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929263	Fluoride	0.500	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
 Batch ID: P332080

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929524	Organic Carbon	2.83	Spike	P	0 - 20

Reference Method: USGS O-2060-01
 Batch ID: P331876

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1929569	2,4-D	8.09	Spike	P	0 - 30
1929569	Acetaminophen	21.9	Spike	P	0 - 30
1929569	Bentazon	10.9	Spike	P	0 - 30
1929569	Carbamazepine	2.33	Spike	P	0 - 30
1929569	Diuron	3.47	Spike	P	0 - 30
1929569	Fenuron	4.48	Spike	P	0 - 30
1929569	Fluridone	2.49	Spike	P	0 - 30
1929569	Imidacloprid	4.95	Spike	P	0 - 30
1929569	Linuron	4.15	Spike	P	0 - 30
1929569	MCP	1.69	Spike	P	0 - 30
1929569	Primidone	1.08	Spike	P	0 - 30
1929569	Triclopyr	10.4	Spike	P	0 - 30

* 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: 1929559
 Field Sample ID: G1SW0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Acetaminophen-d4	104	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.1	P	30 - 160
EPA 8321B	Carbamazepine-d10	75.1	P	30 - 160
EPA 8321B	Diuron-d6	94.0	P	30 - 160
EPA 8321B	Diuron-d6	58.5	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1929559

Field Sample ID: G1SW0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	94.0	P	30 - 160
EPA 8321B	Diuron-d6	58.5	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.4	P	40 - 160
EPA 8321B	Primidone-d5	95.8	P	30 - 160
EPA 8321B	Primidone-d5	95.8	P	30 - 160
EPA 8321B	Sucralose-d6	56.1	P	40 - 160
EPA 8321B	Sucralose-d6	56.1	P	40 - 160
USGS O-2060-01	2,4-D-d3	80.6	P	40 - 160
USGS O-2060-01	Acetaminophen-d4	104	P	30 - 160
USGS O-2060-01	Carbamazepine-d10	75.1	P	30 - 160
USGS O-2060-01	Diuron-d6	94.0	P	30 - 160
USGS O-2060-01	Diuron-d6	58.5	P	30 - 160
USGS O-2060-01	Primidone-d5	95.8	P	30 - 160
USGS O-2060-01	Sucralose-d6	56.1	P	40 - 160

Lab Sample ID: 1929560

Field Sample ID: G1SW0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	50.1	P	39 - 118
EPA 8270D	Tetrachloro-m-xylene	47.7	P	32 - 103
EPA 8276	Decachlorobiphenyl	43.0	P	31 - 100

Lab Sample ID: 1929561

Field Sample ID: G1SW0051

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	67.3	P	53 - 135
EPA 8270D	Simazine-d10	72.0	P	71 - 126

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A79018

Included Lab Sample IDs: 1929535

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

Reference Method: EPA 8321B

Run ID: A79024

Included Lab Sample IDs: 1929559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	80.4	100	P/P	60 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A79026

Included Lab Sample IDs: 1929537

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A79032

Included Lab Sample IDs: 1929536

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A79041

Included Lab Sample IDs: 1929567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	104	104	P/P	90 - 110
Chromium	102	99.9	P/P	90 - 110
Copper	101	101	P/P	90 - 110
Lead	99.4	99.3	P/P	90 - 110
Nickel	101	100	P/P	90 - 110
Silver	97.7	98.1	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A79042

Included Lab Sample IDs: 1929567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Iron	102	102	P/P	90 - 110
Zinc	98.3	99.9	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A79043

Included Lab Sample IDs: 1929535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.2	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A79043

Included Lab Sample IDs: 1929535

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	98.0	99.1	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A79044

Included Lab Sample IDs: 1929536

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A79065

Included Lab Sample IDs: 1929536

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A79072

Included Lab Sample IDs: 1929567

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	96.6	90.3	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A79090

Included Lab Sample IDs: 1929536

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

Reference Method: EPA 8321B

Run ID: A79095

Included Lab Sample IDs: 1929559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	75.8	81.6	P/P	70 - 160

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A79174

Included Lab Sample IDs: 1929536

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	97.4	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A79179

Included Lab Sample IDs: 1929559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	113	106	P/P	50 - 150
Acetaminophen	101	101	P/P	60 - 150
Bentazon	139	145	P/P	50 - 150
Carbamazepine	114	109	P/P	60 - 150
Diuron	108	102	P/P	60 - 150
Fenuron	99.4	102	P/P	60 - 150
Fluridone	115	112	P/P	60 - 160
Imidacloprid	95.5	95.1	P/P	60 - 150
Linuron	104	106	P/P	60 - 150
MCPP	102	98.7	P/P	50 - 150
Primidone	103	102	P/P	60 - 150
Triclopyr	117	101	P/P	50 - 150

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A79188

Included Lab Sample IDs: 1929560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	108		P	80 - 120
Toxaphene	117		P	80 - 120

Reference Method: EPA 8321B

Run ID: A79230

Included Lab Sample IDs: 1929559

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	75.8	80.5	P/P	60 - 150

Reference Method: EPA 8270D

Run ID: A79260

Included Lab Sample IDs: 1929560

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.7		P	80 - 120
Alpha-BHC	102		P	80 - 120
Alpha-Chlordane	95.1		P	80 - 120
Beta-BHC	99.3		P	80 - 120
Carbophenothion	107		P	80 - 120
Chlorothalonil	110		P	80 - 120
Cypermethrin	88.7		P	80 - 120
DDD-p,p'	97.5		P	80 - 120
DDE-p,p'	97.1		P	80 - 120
DDT-p,p'	106		P	80 - 120
Delta-BHC	101		P	80 - 120
Dicofol	120*		F	80 - 120
Dieldrin	97.6		P	80 - 120
Endosulfan I	90.0		P	80 - 120
Endosulfan II	93.2		P	80 - 120
Endosulfan Sulfate	99.9		P	80 - 120
Endrin	97.5		P	80 - 120
Endrin Aldehyde	93.5		P	80 - 120
Endrin Ketone	100		P	80 - 120
Gamma-BHC	96.1		P	80 - 120
Gamma-Chlordane	96.1		P	80 - 120
Heptachlor	93.7		P	80 - 120
Heptachlor Epoxide	97.7		P	80 - 120
Methoxychlor	100		P	80 - 120
Mirex	96.4		P	80 - 120
Permethrin	92.7		P	80 - 120
Trifluralin	95.3		P	80 - 120

Reference Method: EPA 8270D

Run ID: A79322

Included Lab Sample IDs: 1929561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	119		P	80 - 120
Alachlor	119		P	80 - 120
Ametryn	116		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A79322

Included Lab Sample IDs: 1929561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	108		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	100		P	80 - 120
Bromacil	115		P	80 - 120
Butylate	95.9		P	80 - 120
Chlorpyrifos Ethyl	113		P	80 - 120
Chlorpyrifos Methyl	114		P	80 - 120
Cyanazine	122*		F	80 - 120
Demeton	91.8		P	80 - 120
Diazinon	106		P	80 - 120
Disulfoton	97.2		P	80 - 120
EPTC	97.6		P	80 - 120
Ethion	108		P	80 - 120
Ethoprop	91.9		P	80 - 120
Fenamiphos	106		P	80 - 120
Fonofos	101		P	80 - 120
Hexazinone	96.6		P	80 - 120
Malathion	112		P	80 - 120
Metalaxyl	111		P	80 - 120
Metolachlor	114		P	80 - 120
Metribuzin	117		P	80 - 120
Mevinphos	89.1		P	80 - 120
Molinate	97.3		P	80 - 120
Norflurazon	103		P	80 - 120
Parathion Ethyl	89.6		P	80 - 120
Parathion Methyl	92.4		P	80 - 120
Pendimethalin	101		P	80 - 120
Phorate	102		P	80 - 120
Prometon	96.5		P	80 - 120
Prometryn	120		P	80 - 120
Simazine	105		P	80 - 120
Terbufos	104		P	80 - 120
Terbuthylazine	101		P	80 - 120

Reference Method: EPA 8270D

Run ID: A79327

Included Lab Sample IDs: 1929561

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil	115		P	80 - 120
Fipronil Sulfide	100		P	80 - 120
Fipronil Sulfone	111		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			Precision
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					1.74	
EPA 200.7 Rev. 4.4	Iron	104		104	104		0.823
	Zinc	98.0		101	100		0.236
EPA 200.8 Rev. 5.4	Arsenic	93.0		87.9	88.9	92.6	4.08
	Cadmium	102		103	103		0.215
	Chromium	98.1		97.5	98.0	98.1	0.0550
	Copper	96.6		95.5	96.9	96.5	0.353
	Lead	97.3		97.5	98.5	97.9	0.562
	Nickel	97.5		96.9	98.4	99.2	0.746
	Silver	97.5		95.9	97.0	97.0	0.0420
EPA 350.1 Rev. 2.0	Ammonia-N	109		103	107		3.27
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100		100	106		5.32
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	104		104	103		0.816
EPA 365.1 Rev. 2.0	Total-P	96.5		95.6	97.2		1.57
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	99.0		97.2	99.5		2.34
EPA 8270D	Acetochlor	109	115	109	99.0	5.59	9.91
	Alachlor	103	108	105	92.0	4.35	12.9
	Aldrin	37.8	34.8	51.8	37.7	8.21	31.6
	Alpha-BHC	64.9	62.9	72.4	56.3	3.11	24.9
	Alpha-Chlordane	70.7	58.3	73.7	54.7	19.3	29.6
	Ametryn	126	149	81.9	79.6	16.8	2.88
	Atrazine	83.3	103	89.8	90.0	21.4	0.112
	Atrazine Desethyl	89.4	90.3	73.2	113	0.984	42.6
	Azinphos Methyl	101	97.7	83.1	87.5	3.06	5.11
	Beta-BHC	68.1	61.2	73.6	64.0	10.8	13.9
	Bromacil	95.1	81.3	74.6	84.9	15.7	13.0
	Butylate	44.2	46.9	16.0	16.4	5.91	2.42
	Carbophenothion	95.1	83.5	115	89.8	12.9	24.6
	Chlorothalonil	75.5	57.0	136	93.3	28.0	36.9
	Chlorpyrifos Ethyl	83.6	87.9	71.2	75.4	4.95	5.84
	Chlorpyrifos Methyl	103	117	69.6	62.0	12.8	11.5
	Cyanazine	209	201	185	217	4.02	15.9
	Cypermethrin	75.3	66.6	56.0	50.5	12.3	10.3
	DDD-p,p'	79.9	62.9	76.7	56.6	23.7	30.2
	DDE-p,p'	70.6	57.3	70.5	49.0	20.8	36.1
	DDT-p,p'	76.3	63.1	65.9	57.1	19.0	14.3
	Delta-BHC	75.6	70.9	96.9	88.0	6.47	9.60
	Demeton	84.8	91.0	73.2	65.9	7.05	10.5
	Diazinon	89.8	94.8	86.9	87.2	5.46	0.369
	Dicofol	51.5	39.3	46.1	27.3	27.0	51.1
	Dieldrin	74.3	60.5	76.4	49.4	20.6	23.6
	Disulfoton	99.6	99.1	95.5	74.8	0.530	24.3
	Endosulfan I	76.4	62.9	82.4	59.2	19.3	32.7
	Endosulfan II	88.8	66.9	82.8	67.3	28.1	20.7
	Endosulfan Sulfate	75.3	64.5	75.9	64.1	15.5	16.9
	Endrin	70.7	63.0	74.2	58.0	11.5	24.4
	Endrin Aldehyde	75.7	56.3	70.3	48.6	29.5	36.5
	Endrin Ketone	77.2	63.5	74.2	60.9	19.5	19.6
	EPTC	45.3	46.8	20.5	19.8	3.30	3.73
	Ethion	85.3	114	81.3	87.5	28.6	7.25
	Ethoprop	65.5	71.5	74.6	72.7	8.73	2.55
	Fenamiphos	90.0	111	84.8	85.1	20.8	0.328
	Fipronil	98.1	81.8	75.6	96.3	18.0	24.0
	Fipronil Sulfide	113	102	83.4	93.9	10.0	12.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Fipronil Sulfone	77.8	93.2	61.2	68.6	18.0	11.4
	Fonofos	81.5	94.4	81.4	69.1	14.6	16.2
	Gamma-BHC	70.1	66.9	83.1	78.4	4.69	5.87
	Gamma-Chlordane	70.1	58.9	71.1	53.6	17.4	28.2
	Heptachlor	62.8	54.7	64.0	47.6	13.8	29.4
	Heptachlor Epoxide	70.6	59.6	71.9	55.4	16.9	25.9
	Hexazinone	89.8	89.1	83.0	73.0	0.868	12.7
	Malathion	115	123	108	91.5	7.18	16.7
	Metalaxyl	102	104	78.0	77.5	2.00	0.696
	Methoxychlor	77.1	68.0	75.6	61.3	12.5	20.8
	Metolachlor	108	109	101	89.0	1.17	12.3
	Metribuzin	153	112	156	162	31.4	3.51
	Mevinphos	54.6	64.1	63.2	54.6	16.0	14.5
	Mirex	54.5	62.9	60.0	46.7	14.4	25.1
	Molinate	57.0	55.5	32.6	25.6	2.65	24.3
	Norflurazon	78.1	84.7	67.9	81.8	8.09	18.5
	Parathion Ethyl	85.7	89.7	79.0	77.3	4.53	2.15
	Parathion Methyl	88.1	90.4	86.1	73.4	2.66	16.0
	Pendimethalin	87.7	94.0	74.7	79.5	7.00	6.22
	Permethrin	68.7	61.8	70.2	58.4	10.5	18.5
	Phorate	81.5	84.0	72.4	74.5	3.09	2.75
	Prometon	85.6	90.8	84.5	77.2	5.85	9.03
	Prometryn	99.4	110	69.1	74.6	9.78	7.62
	Simazine	95.3	97.2	73.7	72.2	2.00	1.95
	Terbufos	85.7	93.1	88.2	77.1	8.34	13.4
	Terbuthylazine	85.8	92.7	82.0	81.6	7.74	0.492
	Trifluralin	130	119	166	125	9.00	28.5
EPA 8276	Chlordane	97.9	95.4	98.4	92.9	2.63	5.71
	Toxaphene	116	109	117	99.7	6.19	16.0
EPA 8321B	Glyphosate	85.4		90.9	89.1		1.98
	Pyraclostrobin	75.7		74.7	70.0		6.58
	Sucralose	78.0		56.6	48.4		9.29
SM 2320 B-97	Total Alkalinity	101				0.384	
SM 4500 F-C-97	Fluoride	95.5		94.6	95.1		0.500
SM 5310 B-00	Organic Carbon	99.9		98.3	101		2.83
USGS O-2060-01	2,4-D	65.1		47.7	51.7		8.09
	Acetaminophen	41.6		46.4	57.8		21.9
	Bentazon	51.3		21.8	24.3		10.9
	Carbamazepine	128		99.1	101		2.33
	Diuron	104		73.1	75.7		3.47
	Fenuron	109		87.3	91.3		4.48
	Fluridone	114		112	110		2.49
	Imidacloprid	98.7		173	182		4.95
	Linuron	95.0		94.0	90.2		4.15
	MCPP	60.2		47.0	47.8		1.69
	Primidone	96.6		96.0	97.0		1.08
	Triclopyr	57.5		42.0	46.6		10.4

Reference Method Descriptions

Method / DoH Cert

EPA 180.1 Rev. 2.0 /
E31780

Description

Turbidity in aqueous matrices

Associated Samples

1929535

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1929567
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1929567
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1929536
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1929536
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1929536
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1929536
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1929537
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1929560
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1929561
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1929560
EPA 8321B / E31780	Analysis of sucralose in water matrices by HPLC/MS/MS	1929559
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1929559
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1929559
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1929535
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1929535
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1929535
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1929536
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1929559
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1929559

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	09/19/2017			09/19/2017 16:12	DeAsia Armster	1929535
EPA 200.7 Rev. 4.4	09/19/2017	09/19/2017	Elliott D. Healy	09/20/2017	Betina Topolski	1929567
EPA 200.8 Rev. 5.4	09/19/2017	09/19/2017	Elliott D. Healy	09/20/2017	Nadine Brooks	1929567
	09/19/2017	09/19/2017	Elliott D. Healy	09/21/2017	Robert K Palmer	1929567
EPA 350.1 Rev. 2.0	09/19/2017			09/20/2017	Sofia Elnemr	1929536
EPA 351.2 Rev. 2.0	09/19/2017	09/25/2017	Adrian Shelby	09/27/2017	Joseph Suarez	1929536
EPA 353.2 Rev. 2.0	09/19/2017			09/20/2017	Beverly Y. Sanders	1929536
EPA 365.1 Rev. 2.0	09/19/2017	09/20/2017	Sima Feizi	09/21/2017	Lipi Saha	1929536
EPA 365.1 Rev. 2.0 dissolved	09/19/2017			09/19/2017 15:25	Megan Treadwell	1929537
EPA 8270D	09/19/2017	09/20/2017	John Kaba	09/21/2017	Irina Carbone	1929561
	09/19/2017	09/20/2017	John Kaba	09/27/2017	Irina Carbone	1929561
	09/19/2017	09/21/2017	Fe-Val Siddell	09/26/2017	Vandana T. Nagar	1929560
EPA 8276	09/19/2017	09/21/2017	Fe-Val Siddell	09/25/2017	Marek Topolski	1929560
EPA 8321B	09/19/2017	09/19/2017	Hoor Shaik	09/19/2017	Juyoung Kim	1929559
	09/19/2017	09/21/2017	Hoor Shaik	09/28/2017	Juyoung Kim	1929559
	09/19/2017	09/22/2017	Julie Michelle Frank	09/22/2017	Juyoung Kim	1929559
SM 2320 B-97	09/19/2017			09/21/2017	Dale L. Simmons	1929535
SM 2540 D-97	09/19/2017			09/21/2017	Yijie Li	1929535
SM 4500 F-C-97	09/19/2017			09/21/2017	Dale L. Simmons	1929535
SM 5310 B-00	09/19/2017			09/22/2017	Ping Hua	1929536
USGS O-2060-01	09/19/2017	09/21/2017	Hoor Shaik	09/27/2017	Julie Michelle Frank	1929559