

Chemical Analysis Report

NW-DIST-2017-05-16-02

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

Event Description: **Eglin West WBID 468A 495 644 786A 620 843A**
Request ID: **RQ-2017-05-08-48**
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

For additional information please contact
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Certified by: Colin Wright, Program Administrator

Date Certified: 13-JUN-2017 14:11

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: Turkey Creek abv Eglin Rd 232

Collection Date/Time: 05/15/2017 10:40

Field ID: G3NW0093

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899433	EPA 180.1 Rev. 2.0	Turbidity	0.85		NTU	P325377	
	EPA 300.0 Rev. 2.1	Chloride	2.7		mg Cl/L	P325902	
		Sulfate	0.37	I	mg SO4/L	P325899	
	SM 2120 B	Color (true)	8.2		PCU	P325372	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P325700	
	SM 2540 C-97	TDS	15	U	mg/L	P325689	
	SM 2540 D-97	TSS	3	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P325703	RPD
1899438	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P325656	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P325536	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P325433	
	SM 5310 B-00	Organic Carbon	0.88	I	mg C/L	P325583	
1899443	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325386	

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: Juniper Creek @ Hwy 85

Collection Date/Time: 05/15/2017 11:00

Field ID: G3NW0095

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899434	EPA 180.1 Rev. 2.0	Turbidity	1.0		NTU	P325377	
	EPA 300.0 Rev. 2.1	Chloride	2.5		mg Cl/L	P325902	
		Sulfate	0.49	I	mg SO4/L	P325899	
	SM 2120 B	Color (true)	14		PCU	P325372	
	SM 2320 B-97	Total Alkalinity	0.65	U	mg CaCO3/L	P325700	
	SM 2540 C-97	TDS	15	U	mg/L	P325689	
	SM 2540 D-97	TSS	3	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P325703	RPD
1899439	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P325656	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.12	I	mg N/L	P325536	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.070		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.002	I	mg P/L	P325434	
	SM 5310 B-00	Organic Carbon	1.2		mg C/L	P325583	
1899444	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325386	

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: Deer Moss Creek upstream College Blvd

Collection Date/Time: 05/15/2017 11:30

Field ID: G3NW0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899435	EPA 180.1 Rev. 2.0	Turbidity	0.60		NTU	P325377	
	EPA 300.0 Rev. 2.1	Chloride	14		mg Cl/L	P325902	
		Sulfate	9.8		mg SO4/L	P325899	

Field ID: G3NW0045

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899435	SM 2120 B	Color (true)	6.2		PCU	P325372	
	SM 2320 B-97	Total Alkalinity	24		mg CaCO3/L	P325701	
	SM 2540 C-97	TDS	70		mg/L	P325689	
	SM 2540 D-97	TSS	4	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.036	I	mg F/L	P325704	
1899440	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P325657	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30	J	mg N/L	P325536	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.1		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.052		mg P/L	P325434	
	SM 5310 B-00	Organic Carbon	1.4		mg C/L	P325583	
1899445	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.042		mg P/L	P325386	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

EPA 351.2 Rev. 2.0: Refer to the narrative for an explanation of QC Codes.

Sample Location: Bass Lk Drainage Mooney Dr Head

Collection Date/Time: 05/15/2017 12:20

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899463	EPA 8321B	Glyphosate**	10	U	ug/L	P325349	
		Sucralose**	0.82		ug/L	P325291	
	USGS O-2060-01	2,4-D	0.024		ug/L	P325285	
		Diuron	8.0E-04	U	ug/L	P325285	
		Fenuron	0.0040	U	ug/L	P325285	
		Imidacloprid	0.033		ug/L	P325285	MS
		Bentazon	0.0038		ug/L	P325285	
		Linuron	0.0040	U	ug/L	P325285	
		Acetaminophen**	0.0080	U	ug/L	P325285	
		MCP	0.010		ug/L	P325285	
		Carbamazepine**	0.0026		ug/L	P325285	
		Triclopyr**	0.0040	U	ug/L	P325285	
		Primidone**	0.010	I	ug/L	P325285	
		Fluridone**	6.4E-04	I	ug/L	P325285	
1899464	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P325333	
1899465	EPA 8270D	Aldrin	4.3	UJ	ng/L	P325290	LCS, SUR
		Alpha-BHC	2.2	UJ	ng/L	P325290	SUR
		Beta-BHC	4.3	UJ	ng/L	P325290	SUR
		Delta-BHC	4.3	UJ	ng/L	P325290	SUR
		Gamma-BHC	4.3	UJ	ng/L	P325290	SUR
		Carbophenothion	4.3	UJ	ng/L	P325290	SUR
		Chlorothalonil	2.2	UJ	ng/L	P325290	MS, SUR
		Cypermethrin	22	UJ	ng/L	P325290	LCS, SUR
		DDD-p,p'	2.2	UJ	ng/L	P325290	SUR
		DDE-p,p'	3.2	UJ	ng/L	P325290	SUR
		DDT-p,p'	3.2	UJ	ng/L	P325290	SUR

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899465	EPA 8270D	Diieldrin	4.3	UJ	ng/L	P325290	SUR
		Endosulfan I	4.3	UJ	ng/L	P325290	SUR
		Endosulfan II	4.3	UJ	ng/L	P325290	SUR
		Endosulfan Sulfate	2.2	UJ	ng/L	P325290	SUR
		Endrin	2.2	UJ	ng/L	P325290	SUR
		Endrin Aldehyde	2.2	UJ	ng/L	P325290	SUR
		Heptachlor	1.6	UJ	ng/L	P325290	SUR
		Heptachlor Epoxide	2.2	UJ	ng/L	P325290	SUR
		Methoxychlor	4.3	UJ	ng/L	P325290	SUR
		Mirex	2.2	UJ	ng/L	P325290	SUR
		Permethrin	11	UJ	ng/L	P325290	SUR
		Trifluralin	1.1	UJ	ng/L	P325290	SUR
		Alpha-Chlordane	1.1	UJ	ng/L	P325290	SUR
		Gamma-Chlordane	1.1	UJ	ng/L	P325290	SUR
		Endrin Ketone	2.2	UJ	ng/L	P325290	SUR
		Dicofol	32	UJ	ng/L	P325290	RPD, SUR
	EPA 8276	Chlordane**	3.4	IQ	ng/L	P326029	
		Toxaphene**	14	UQ	ng/L	P326029	
1899466	EPA 8270D	Ametryn	0.36	U	ng/L	P325445	
		Atrazine	15		ng/L	P325445	
		Chlorpyrifos Ethyl	0.28	U	ng/L	P325445	
		Chlorpyrifos Methyl	0.11	U	ng/L	P325445	
		Disulfoton	0.36	U	ng/L	P325445	
		Ethion	0.17	U	ng/L	P325445	
		Ethoprop	0.11	U	ng/L	P325445	
		Hexazinone	4.5		ng/L	P325445	
		Malathion	0.39	U	ng/L	P325445	MS, RPD
		Metribuzin	0.46	I	ng/L	P325445	
		Mevinphos	0.56	U	ng/L	P325445	
		Norflurazon	0.56	U	ng/L	P325445	
		Phorate	0.28	U	ng/L	P325445	
		Prometryn	0.22	U	ng/L	P325445	
		Simazine	0.56	U	ng/L	P325445	
		Atrazine Desethyl	2.8	I	ng/L	P325445	
		Prometon	1.0	U	ng/L	P325445	
		Fipronil	0.35	I	ng/L	P325445	
		Molinate	0.33	U	ng/L	P325445	
		Pendimethalin	1.7	U	ng/L	P325445	
		Terbufos	0.11	U	ng/L	P325445	
		EPTC	1.4	U	ng/L	P325445	
		Terbuthylazine	0.47	U	ng/L	P325445	
		Bromacil	1.6	I	ng/L	P325445	
		Fipronil Sulfide	0.61	I	ng/L	P325445	
		Fipronil Sulfone	1.7		ng/L	P325445	
		Alachlor	0.28	U	ng/L	P325445	

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899466	EPA 8270D	Azinphos Methyl	2.5	U	ng/L	P325445	
		Butylate	0.44	U	ng/L	P325445	
		Demeton	2.2	U	ng/L	P325445	
		Diazinon	0.14	U	ng/L	P325445	
		Fenamiphos	0.28	U	ng/L	P325445	
		Fonofos	0.22	U	ng/L	P325445	
		Metalaxyl	16		ng/L	P325445	
		Metolachlor	1.1	I	ng/L	P325445	
		Acetochlor	0.28	U	ng/L	P325445	
		Cyanazine	0.56	U	ng/L	P325445	
		Parathion Ethyl	0.28	U	ng/L	P325445	
		Parathion Methyl	0.28	U	ng/L	P325445	

Ref. Method and Comment:

EPA 8270D: Refer to the narrative for an explanation of QC Codes. Reported results qualified with J due to surrogate below control limits: the sample was subsequently re-extracted and re-analyzed after expiration with acceptable surrogate recovery and the same analytical results were obtained.

EPA 8276: Sample expired due to need for re-extraction.

Sample Location: Bass Lk Drainage Mooney Dr Head

Collection Date/Time: 05/15/2017 12:20

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899448	EPA 180.1 Rev. 2.0	Turbidity	1.5	A	NTU	P325378	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P325902	
		Sulfate	13		mg SO4/L	P325899	
	SM 2120 B	Color (true)	24		PCU	P325373	
	SM 2320 B-97	Total Alkalinity	37		mg CaCO3/L	P325701	
	SM 2540 C-97	TDS	113		mg/L	P325689	
	SM 2540 D-97	TSS	2	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P325704	
1899449	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P325657	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.40		mg N/L	P325538	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P325434	
	SM 5310 B-00	Organic Carbon	5.0		mg C/L	P325583	
1899450	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325386	
1899467	EPA 200.7 Rev. 4.4	Calcium	8.11		mg/L	P325725	
		Iron	420		ug/L	P325725	
		Magnesium	2.00		mg/L	P325725	
		Potassium	5.3		mg/L	P325725	
		Sodium	26.3		mg/L	P325725	
		Zinc	5.0	U	ug/L	P325725	
	EPA 200.8 Rev. 5.4	Arsenic	1.36		ug/L	P325725	
		Cadmium	0.020	U	ug/L	P325725	
		Chromium	0.40	U	ug/L	P325725	
		Copper	0.80	I	ug/L	P325725	
		Lead	0.17	I	ug/L	P325725	

Field ID: G3NW0097

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899467	EPA 200.8 Rev. 5.4	Nickel	0.20	U	ug/L	P325725	
		Silver	0.010	U	ug/L	P325725	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Mill Creek upstream of Bayshore Dr

Collection Date/Time: 05/15/2017 12:00

Field ID: G3NW0141

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899436	EPA 180.1 Rev. 2.0	Turbidity	0.65		NTU	P325377	
	EPA 300.0 Rev. 2.1	Chloride	5.6		mg Cl/L	P325902	
		Sulfate	5.7		mg SO4/L	P325899	
	SM 2120 B	Color (true)	16		PCU	P325373	
	SM 2320 B-97	Total Alkalinity	17		mg CaCO3/L	P325701	
	SM 2540 C-97	TDS	31		mg/L	P325689	
	SM 2540 D-97	TSS	3	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P325704	
1899441	EPA 350.1 Rev. 2.0	Ammonia-N	0.028		mg N/L	P325657	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.24		mg N/L	P325538	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.068		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P325434	
	SM 5310 B-00	Organic Carbon	2.7		mg C/L	P325583	
1899446	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325386	

Ref. Method and Comment:

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

SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Gap Creek powerline south of Overbrook Dr

Collection Date/Time: 05/15/2017 13:30

Field ID: G3NW0126

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899437	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P325377	
	EPA 300.0 Rev. 2.1	Chloride	14	A	mg Cl/L	P325902	
		Sulfate	5.9	A	mg SO4/L	P325899	
	SM 2120 B	Color (true)	30	A	PCU	P325373	
	SM 2320 B-97	Total Alkalinity	22		mg CaCO3/L	P325701	
	SM 2540 C-97	TDS	61		mg/L	P325689	
	SM 2540 D-97	TSS	2	I	mg/L	P325678	
	SM 4500 F-C-97	Fluoride	0.035	U	mg F/L	P325704	
1899442	EPA 350.1 Rev. 2.0	Ammonia-N	0.016		mg N/L	P325657	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.23		mg N/L	P325538	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.061		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.01		mg P/L	P325434	
	SM 5310 B-00	Organic Carbon	4.6		mg C/L	P325583	
1899447	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P325386	

Field ID: G3NW0126

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment:							
SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.							
SM 4500 F-C-97: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.							

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P325377

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P325378

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
 Batch ID: P325725

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

Reference Method: EPA 200.8 Rev. 5.4
 Batch ID: P325725

Component	Result	Code	Units
Arsenic	0.050	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
Silver	0.010	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P325899

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P325902

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325657

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325538

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325434

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325386

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

Reference Method: EPA 8270D
Batch ID: P325290

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270D
Batch ID: P325290

Component	Result	Code	Units
Carbophenothion	4.0	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	2.0	U	ng/L
DDE-p,p'	3.0	U	ng/L
DDT-p,p'	3.0	U	ng/L
Delta-BHC	4.0	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Gamma-BHC	4.0	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trifluralin	1.0	U	ng/L

Reference Method: EPA 8270D
Batch ID: P325445

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	0.32	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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P325445

Component	Result	Code	Units
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	1.5	U	ng/L
Phorate	0.25	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P326029

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

Reference Method: EPA 8321B
Batch ID: P325291

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B
Batch ID: P325333

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P325349

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: SM 2120 B
Batch ID: P325372

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2120 B
Batch ID: P325373

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report Method Blank Results

Reference Method: SM 2320 B-97
Batch ID: P325700

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

Reference Method: SM 2320 B-97
Batch ID: P325701

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

Reference Method: SM 2540 C-97
Batch ID: P325689

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P325678

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P325703

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P325704

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P325583

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

Reference Method: USGS O-2060-01
Batch ID: P325285

Component	Result	Code	Units
2,4-D	8.0E-04	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	0.0040	U	ug/L
Fluridone	4.0E-04	U	ug/L
Imidacloprid	8.0E-04	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	8.0E-04	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: USGS O-2060-01
Batch ID: P325285

Component	Result	Code	Units
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: P325725

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	103		P	85 - 115
Iron	106		P	85 - 115
Magnesium	105		P	85 - 115
Potassium	103		P	85 - 115
Sodium	106		P	85 - 115
Zinc	97.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325725

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	100		P	85 - 115
Cadmium	98.1		P	85 - 115
Chromium	99.1		P	85 - 115
Copper	95.5		P	85 - 115
Lead	101		P	85 - 115
Nickel	98.0		P	85 - 115
Silver	99.8		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325899

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	90.9		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325902

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	95.0		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325657

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325657

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.2		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325538

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325434

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P325386

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

Reference Method: EPA 8270D
Batch ID: P325290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	28.3	31.3	F/P	30 - 83.0
Alpha-BHC	83.5	81.6	P/P	62 - 119
Alpha-Chlordane	70.0	66.4	P/P	56 - 119
Beta-BHC	92.0	91.6	P/P	54 - 141
Carbophenothion	75.3	70.2	P/P	33 - 147
Chlorothalonil	102	107	P/P	25 - 175
Cypermethrin	46.6	45.7	F/F	50 - 155
DDD-p,p'	76.5	72.5	P/P	56 - 135
DDE-p,p'	68.3	63.5	P/P	48 - 120
DDT-p,p'	68.7	63.2	P/P	51 - 121

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P325290

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Delta-BHC	98.9	106	P/P	65 - 163
Dicofol	58.0	49.8	P/P	15 - 112
Dieldrin	80.0	69.5	P/P	59 - 134
Endosulfan I	86.0	78.3	P/P	65 - 142
Endosulfan II	89.4	87.3	P/P	65 - 154
Endosulfan Sulfate	81.1	83.3	P/P	65 - 136
Endrin	84.0	77.5	P/P	53 - 156
Endrin Aldehyde	95.5	86.9	P/P	47 - 156
Endrin Ketone	81.7	80.7	P/P	70 - 124
Gamma-BHC	86.9	89.6	P/P	64 - 142
Gamma-Chlordane	64.1	60.2	P/P	55 - 114
Heptachlor	56.9	50.0	P/P	42 - 105
Heptachlor Epoxide	80.3	77.5	P/P	67 - 120
Methoxychlor	78.0	76.3	P/P	63 - 134
Mirex	42.5	40.2	P/P	40 - 90.0
Permethrin	47.6	44.9	P/P	36 - 144
Trifluralin	86.0	78.7	P/P	40 - 170

Reference Method: EPA 8270D
Batch ID: P325445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	90.8	96.6	P/P	78 - 118
Alachlor	91.2	94.1	P/P	77 - 119
Ametryn	115	124	P/P	61 - 136
Atrazine	96.7	96.3	P/P	73 - 120
Atrazine Desethyl	83.4	83.7	P/P	16 - 122
Azinphos Methyl	111	108	P/P	69 - 186
Bromacil	84.9	91.5	P/P	40 - 125
Butylate	49.9	55.6	P/P	32 - 87.0
Chlorpyrifos Ethyl	87.2	88.9	P/P	53 - 110
Chlorpyrifos Methyl	88.9	89.3	P/P	31 - 119
Cyanazine	112	114	P/P	36 - 224
Demeton	84.4	82.9	P/P	39 - 122
Diazinon	89.9	99.7	P/P	75 - 119
Disulfoton	86.3	85.1	P/P	42 - 139
EPTC	49.1	55.4	P/P	33 - 96.0
Ethion	92.1	93.0	P/P	63 - 127
Ethoprop	80.1	82.6	P/P	65 - 107
Fenamiphos	105	101	P/P	64 - 137
Fipronil	96.1	98.2	P/P	60 - 126
Fipronil Sulfide	87.7	82.0	P/P	58 - 124
Fipronil Sulfone	80.3	76.7	P/P	57 - 126
Fonofos	83.2	86.7	P/P	65 - 111
Hexazinone	86.8	92.1	P/P	46 - 151
Malathion	96.4	97.3	P/P	68 - 132
Metalaxyl	85.1	93.6	P/P	51 - 132
Metolachlor	92.5	98.1	P/P	78 - 119
Metribuzin	123	127	P/P	64 - 138
Mevinphos	78.8	67.2	P/P	34 - 128
Molinate	56.5	59.7	P/P	44 - 101
Norflurazon	87.4	87.5	P/P	63 - 129

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P325445

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Parathion Ethyl	91.4	93.7	P/P	80 - 109
Parathion Methyl	95.4	93.6	P/P	74 - 125
Pendimethalin	84.0	88.5	P/P	48 - 134
Phorate	75.5	93.2	P/P	52 - 119
Prometon	100	102	P/P	69 - 124
Prometryn	105	113	P/P	66 - 124
Simazine	102	105	P/P	61 - 134
Terbufos	81.5	84.1	P/P	58 - 115
Terbutylazine	109	112	P/P	77 - 113

Reference Method: EPA 8276
Batch ID: P326029

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	107	95.2	P/P	44 - 118
Toxaphene	110	94.4	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P325291

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	78.3		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P325333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	94.3		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P325349

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	82.4		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P325700

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	103		P	95 - 108

Reference Method: SM 2320 B-97
Batch ID: P325701

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	104		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P325703

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.1		P	92 - 103

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 4500 F-C-97
Batch ID: P325704

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	99.1		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P325583

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

Reference Method: USGS O-2060-01
Batch ID: P325285

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	88.4		P	40 - 140
Acetaminophen	86.2		P	40 - 140
Bentazon	70.6		P	40 - 140
Carbamazepine	107		P	40 - 140
Diuron	108		P	40 - 140
Fenuron	93.2		P	40 - 140
Fluridone	103		P	40 - 140
Imidacloprid	92.0		P	40 - 160
Linuron	100		P	40 - 140
MCPP	91.4		P	40 - 140
Primidone	98.0		P	40 - 140
Triclopyr	94.8		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P325725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900034	Calcium	98.8		P	80 - 120
1900034	Iron	105		P	80 - 120
1900034	Magnesium	101		P	80 - 120
1900034	Potassium	111		P	80 - 120
1900034	Sodium	103		P	80 - 120
1900034	Zinc	97.9		P	80 - 120
1900614	Calcium	103		P	80 - 120
1900614	Iron	105	105	P/P	80 - 120
1900614	Magnesium	103		P	80 - 120
1900614	Potassium	102	102	P/P	80 - 120
1900614	Sodium	105	106	P/P	80 - 120
1900614	Zinc	98.9	98.1	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900034	Arsenic	103		P	80 - 120
1900034	Cadmium	101		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325725

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1900034	Chromium	99.4		P	80 - 120
1900034	Copper	94.0		P	80 - 120
1900034	Lead	103		P	80 - 120
1900034	Nickel	98.2		P	80 - 120
1900034	Silver	102		P	80 - 120
1900614	Arsenic	98.4	99.8	P/P	80 - 120
1900614	Cadmium	98.9	99.7	P/P	80 - 120
1900614	Chromium	95.2	96.3	P/P	80 - 120
1900614	Copper	92.7	93.7	P/P	80 - 120
1900614	Lead	98.4	99.1	P/P	80 - 120
1900614	Nickel	95.6	96.6	P/P	80 - 120
1900614	Silver	94.5	93.9	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325899

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899437	Sulfate	95.2		P	90 - 110
1899448	Sulfate	96.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325902

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899437	Chloride	101		P	90 - 110
1899448	Chloride	97.6		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899322	Ammonia-N	98.9	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325657

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899449	Ammonia-N	102	105	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899440	Kjeldahl Nitrogen	84.9	85.3	F/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325538

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899502	Kjeldahl Nitrogen	97.9	95.9	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P325547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899438	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899438	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325434

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899439	Total-P	108	110	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P325386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899345	O-Phosphate-P	98.5	98.5	P/P	90 - 110

Reference Method: EPA 8270D
 Batch ID: P325290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898999	Aldrin	41.0	41.6	P/P	30 - 83.0
1898999	Alpha-BHC	81.7	77.0	P/P	62 - 119
1898999	Alpha-Chlordane	78.0	80.3	P/P	56 - 119
1898999	Beta-BHC	91.9	106	P/P	54 - 141
1898999	Carbophenothion	99.3	98.9	P/P	33 - 147
1898999	Chlorothalonil	160	190	P/F	25 - 175
1898999	Cypermethrin	78.7	86.0	P/P	50 - 155
1898999	DDD-p,p'	86.6	86.5	P/P	56 - 135
1898999	DDE-p,p'	78.4	77.1	P/P	48 - 120
1898999	DDT-p,p'	77.3	75.9	P/P	51 - 121
1898999	Delta-BHC	137	131	P/P	65 - 163
1898999	Dicofol	36.0	26.1	P/P	15 - 112
1898999	Dieldrin	85.5	86.2	P/P	59 - 134
1898999	Endosulfan I	89.4	89.3	P/P	65 - 142
1898999	Endosulfan II	104	97.9	P/P	65 - 154
1898999	Endosulfan Sulfate	84.4	90.6	P/P	65 - 136
1898999	Endrin	75.4	75.7	P/P	53 - 156
1898999	Endrin Aldehyde	87.6	71.4	P/P	47 - 156
1898999	Endrin Ketone	87.9	96.2	P/P	70 - 124
1898999	Gamma-BHC	86.0	88.9	P/P	64 - 142
1898999	Gamma-Chlordane	74.6	77.4	P/P	55 - 114
1898999	Heptachlor	54.8	62.0	P/P	42 - 105
1898999	Heptachlor Epoxide	81.6	84.8	P/P	67 - 120
1898999	Methoxychlor	82.3	81.5	P/P	63 - 134
1898999	Mirex	55.2	59.6	P/P	40 - 90.0
1898999	Permethrin	70.1	70.2	P/P	36 - 144
1898999	Trifluralin	103	125	P/P	40 - 170

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P325445

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899332	Acetochlor	93.1	82.5	P/P	74 - 123
1899332	Alachlor	101	91.5	P/P	73 - 124
1899332	Ametryn	112	103	P/P	56 - 149
1899332	Atrazine	91.7	91.5	P/P	73 - 124
1899332	Atrazine Desethyl	57.9	47.4	P/P	12 - 103
1899332	Azinphos Methyl	105	94.6	P/P	60 - 202
1899332	Bromacil	71.6	83.9	P/P	42 - 133
1899332	Butylate	16.8	22.3	P/P	10 - 85.0
1899332	Chlorpyrifos Ethyl	82.2	85.3	P/P	53 - 113
1899332	Chlorpyrifos Methyl	77.8	74.1	P/P	40 - 115
1899332	Cyanazine	86.7	93.0	P/P	22 - 210
1899332	Demeton	54.5	60.6	P/P	17 - 149
1899332	Diazinon	93.3	89.6	P/P	72 - 124
1899332	Disulfoton	70.1	65.6	P/P	43 - 139
1899332	EPTC	15.0	20.2	P/P	10 - 86.0
1899332	Ethion	89.3	84.3	P/P	65 - 131
1899332	Ethoprop	76.8	89.0	P/P	59 - 110
1899332	Fenamiphos	82.3	75.4	P/P	57 - 138
1899332	Fipronil	74.3	81.0	P/P	40 - 130
1899332	Fipronil Sulfide	62.7	69.0	P/P	36 - 128
1899332	Fipronil Sulfone	40.2	36.2	P/P	16 - 145
1899332	Fonofos	79.0	83.7	P/P	60 - 112
1899332	Hexazinone	75.0	69.0	P/P	69 - 142
1899332	Malathion	91.1	14.3	P/F	68 - 132
1899332	Metaxyl	88.9	83.4	P/P	66 - 118
1899332	Metolachlor	94.2	83.0	P/P	71 - 124
1899332	Metribuzin	116	106	P/P	61 - 140
1899332	Mevinphos	69.8	81.2	P/P	38 - 130
1899332	Molinate	32.2	42.3	P/P	23 - 99.0
1899332	Norflurazon	66.7	68.3	P/P	39 - 139
1899332	Parathion Ethyl	88.9	87.5	P/P	75 - 111
1899332	Parathion Methyl	89.1	91.0	P/P	64 - 130
1899332	Pendimethalin	92.3	88.7	P/P	26 - 173
1899332	Phorate	75.1	86.3	P/P	43 - 127
1899332	Prometon	101	108	P/P	50 - 144
1899332	Prometryn	106	96.9	P/P	69 - 126
1899332	Simazine	94.5	84.4	P/P	51 - 152
1899332	Terbufos	75.2	83.1	P/P	54 - 125
1899332	Terbutylazine	109	104	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P326029

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899465	Chlordane	99.0	84.4	P/P	44 - 118
1899465	Toxaphene	95.8	85.6	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P325291

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898904	Sucralose	59.7	55.5	P/P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
 Batch ID: P325333

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899022	Pyraclostrobin	99.2	104	P/P	40 - 140

Reference Method: EPA 8321B
 Batch ID: P325349

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899024	Glyphosate	77.2	77.0	P/P	40 - 140

Reference Method: SM 4500 F-C-97
 Batch ID: P325703

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899011	Fluoride	96.5	102	P/P	91 - 105

Reference Method: SM 5310 B-00
 Batch ID: P325583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899365	Organic Carbon	92.8	93.6	P/P	85 - 115

Reference Method: USGS O-2060-01
 Batch ID: P325285

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1898769	2,4-D	81.2	80.8	P/P	40 - 140
1898769	Acetaminophen	97.0	95.4	P/P	40 - 140
1898769	Bentazon	45.6	45.4	P/P	40 - 140
1898769	Carbamazepine	110	122	P/P	40 - 140
1898769	Diuron	111	97.2	P/P	40 - 140
1898769	Fenuron	85.0	88.2	P/P	40 - 140
1898769	Fluridone	46.0	45.0	P/P	40 - 140
1898769	Imidacloprid	156	161	P/F	40 - 160
1898769	Linuron	97.6	102	P/P	40 - 140
1898769	MCP	82.0	75.4	P/P	40 - 140
1898769	Primidone	102	112	P/P	40 - 140
1898769	Triclopyr	83.2	82.4	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P325377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899406	Turbidity	1.66	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325378

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899448	Turbidity	2.70	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P325725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900614	Calcium	0.263	Spike	P	0 - 20
1900614	Iron	0.105	Spike	P	0 - 20
1900614	Magnesium	0.515	Spike	P	0 - 20
1900614	Potassium	0.550	Spike	P	0 - 20
1900614	Sodium	0.300	Spike	P	0 - 20
1900614	Zinc	0.763	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P325725

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1900614	Arsenic	1.33	Spike	P	0 - 20
1900614	Cadmium	0.821	Spike	P	0 - 20
1900614	Chromium	1.19	Spike	P	0 - 20
1900614	Copper	1.07	Spike	P	0 - 20
1900614	Lead	0.715	Spike	P	0 - 20
1900614	Nickel	1.00	Spike	P	0 - 20
1900614	Silver	0.666	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325899

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899437	Sulfate	0.0223	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P325902

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899437	Chloride	0.337	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899322	Ammonia-N	2.17	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P325657

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899449	Ammonia-N	2.27	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P325536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899440	Kjeldahl Nitrogen	0.355	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
 Batch ID: P325538

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899502	Kjeldahl Nitrogen	1.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P325547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899438	NO2NO3-N	0.619	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899438	Total-P	2.73	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P325434

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899439	Total-P	1.79	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P325386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899345	O-Phosphate-P	0.0	Spike	P	0 - 20

Reference Method: EPA 8270D
 Batch ID: P325290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898999	Aldrin	1.59	Spike	P	0 - 30
1898999	Alpha-BHC	5.99	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898999	Alpha-Chlordane	2.82	Spike	P	0 - 30
1898999	Beta-BHC	13.8	Spike	P	0 - 30
1898999	Carbophenothion	0.415	Spike	P	0 - 30
1898999	Chlorothalonil	17.2	Spike	P	0 - 30
1898999	Cypermethrin	8.91	Spike	P	0 - 30
1898999	DDD-p,p'	0.163	Spike	P	0 - 30
1898999	DDE-p,p'	1.71	Spike	P	0 - 30
1898999	DDT-p,p'	1.78	Spike	P	0 - 30
1898999	Delta-BHC	3.99	Spike	P	0 - 30
1898999	Dicofol	32.0	Spike	F	0 - 30
1898999	Dieldrin	0.678	Spike	P	0 - 30
1898999	Endosulfan I	0.128	Spike	P	0 - 30
1898999	Endosulfan II	6.16	Spike	P	0 - 30
1898999	Endosulfan Sulfate	7.16	Spike	P	0 - 30
1898999	Endrin	0.519	Spike	P	0 - 30
1898999	Endrin Aldehyde	20.3	Spike	P	0 - 30
1898999	Endrin Ketone	9.08	Spike	P	0 - 30
1898999	Gamma-BHC	3.26	Spike	P	0 - 30
1898999	Gamma-Chlordane	3.64	Spike	P	0 - 30
1898999	Heptachlor	12.3	Spike	P	0 - 30
1898999	Heptachlor Epoxide	3.06	Spike	P	0 - 30
1898999	Methoxychlor	1.01	Spike	P	0 - 30
1898999	Mirex	7.63	Spike	P	0 - 30
1898999	Permethrin	0.159	Spike	P	0 - 30
1898999	Trifluralin	19.4	Spike	P	0 - 30
LFB	Aldrin	10.0	LCS	P	0 - 30
LFB	Alpha-BHC	2.28	LCS	P	0 - 30
LFB	Alpha-Chlordane	5.29	LCS	P	0 - 30
LFB	Beta-BHC	0.418	LCS	P	0 - 30
LFB	Carbophenothion	6.99	LCS	P	0 - 30
LFB	Chlorothalonil	5.08	LCS	P	0 - 30
LFB	Cypermethrin	1.87	LCS	P	0 - 30
LFB	DDD-p,p'	5.40	LCS	P	0 - 30
LFB	DDE-p,p'	7.23	LCS	P	0 - 30
LFB	DDT-p,p'	8.35	LCS	P	0 - 30
LFB	Delta-BHC	6.77	LCS	P	0 - 30
LFB	Dicofol	15.2	LCS	P	0 - 30
LFB	Dieldrin	14.1	LCS	P	0 - 30
LFB	Endosulfan I	9.34	LCS	P	0 - 30
LFB	Endosulfan II	2.42	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.77	LCS	P	0 - 30
LFB	Endrin	8.05	LCS	P	0 - 30
LFB	Endrin Aldehyde	9.44	LCS	P	0 - 30
LFB	Endrin Ketone	1.17	LCS	P	0 - 30
LFB	Gamma-BHC	3.04	LCS	P	0 - 30
LFB	Gamma-Chlordane	6.21	LCS	P	0 - 30
LFB	Heptachlor	12.9	LCS	P	0 - 30
LFB	Heptachlor Epoxide	3.61	LCS	P	0 - 30
LFB	Methoxychlor	2.29	LCS	P	0 - 30
LFB	Mirex	5.52	LCS	P	0 - 30
LFB	Permethrin	6.01	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Trifluralin	8.84	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P325445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899332	Acetochlor	12.1	Spike	P	0 - 30
1899332	Alachlor	9.82	Spike	P	0 - 30
1899332	Ametryn	8.73	Spike	P	0 - 30
1899332	Atrazine	0.148	Spike	P	0 - 30
1899332	Atrazine Desethyl	20.1	Spike	P	0 - 30
1899332	Azinphos Methyl	10.3	Spike	P	0 - 30
1899332	Bromacil	15.8	Spike	P	0 - 30
1899332	Butylate	28.2	Spike	P	0 - 30
1899332	Chlorpyrifos Ethyl	3.74	Spike	P	0 - 30
1899332	Chlorpyrifos Methyl	4.89	Spike	P	0 - 30
1899332	Cyanazine	6.93	Spike	P	0 - 30
1899332	Demeton	10.6	Spike	P	0 - 30
1899332	Diazinon	4.08	Spike	P	0 - 30
1899332	Disulfoton	6.62	Spike	P	0 - 30
1899332	EPTC	29.8	Spike	P	0 - 30
1899332	Ethion	5.73	Spike	P	0 - 30
1899332	Ethoprop	14.7	Spike	P	0 - 30
1899332	Fenamiphos	8.70	Spike	P	0 - 30
1899332	Fipronil	8.58	Spike	P	0 - 30
1899332	Fipronil Sulfide	9.60	Spike	P	0 - 30
1899332	Fipronil Sulfone	10.7	Spike	P	0 - 30
1899332	Fonofos	5.77	Spike	P	0 - 30
1899332	Hexazinone	8.34	Spike	P	0 - 30
1899332	Malathion	146	Spike	F	0 - 30
1899332	Metalaxyl	6.31	Spike	P	0 - 30
1899332	Metolachlor	11.9	Spike	P	0 - 30
1899332	Metribuzin	8.75	Spike	P	0 - 30
1899332	Mevinphos	15.0	Spike	P	0 - 30
1899332	Molinate	27.1	Spike	P	0 - 30
1899332	Norflurazon	2.48	Spike	P	0 - 30
1899332	Parathion Ethyl	1.68	Spike	P	0 - 30
1899332	Parathion Methyl	2.16	Spike	P	0 - 30
1899332	Pendimethalin	3.96	Spike	P	0 - 30
1899332	Phorate	13.9	Spike	P	0 - 30
1899332	Prometon	6.61	Spike	P	0 - 30
1899332	Prometryn	8.82	Spike	P	0 - 30
1899332	Simazine	11.4	Spike	P	0 - 30
1899332	Terbufos	10.0	Spike	P	0 - 30
1899332	Terbutylazine	4.44	Spike	P	0 - 30
LFB	Acetochlor	6.18	LCS	P	0 - 30
LFB	Alachlor	3.18	LCS	P	0 - 30
LFB	Ametryn	7.16	LCS	P	0 - 30
LFB	Atrazine	0.475	LCS	P	0 - 30
LFB	Atrazine Desethyl	0.308	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P325445

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Azinphos Methyl	2.82	LCS	P	0 - 30
LFB	Bromacil	7.44	LCS	P	0 - 30
LFB	Butylate	10.9	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	1.90	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	0.475	LCS	P	0 - 30
LFB	Cyanazine	2.32	LCS	P	0 - 30
LFB	Demeton	1.73	LCS	P	0 - 30
LFB	Diazinon	10.4	LCS	P	0 - 30
LFB	Disulfoton	1.48	LCS	P	0 - 30
LFB	EPTC	12.0	LCS	P	0 - 30
LFB	Ethion	1.00	LCS	P	0 - 30
LFB	Ethoprop	3.11	LCS	P	0 - 30
LFB	Fenamiphos	3.33	LCS	P	0 - 30
LFB	Fipronil	2.19	LCS	P	0 - 30
LFB	Fipronil Sulfide	6.66	LCS	P	0 - 30
LFB	Fipronil Sulfone	4.55	LCS	P	0 - 30
LFB	Fonofos	4.13	LCS	P	0 - 30
LFB	Hexazinone	5.84	LCS	P	0 - 30
LFB	Malathion	0.952	LCS	P	0 - 30
LFB	Metalaxyl	9.51	LCS	P	0 - 30
LFB	Metolachlor	5.86	LCS	P	0 - 30
LFB	Metribuzin	3.60	LCS	P	0 - 30
LFB	Mevinphos	15.9	LCS	P	0 - 30
LFB	Molinate	5.51	LCS	P	0 - 30
LFB	Norflurazon	0.0929	LCS	P	0 - 30
LFB	Parathion Ethyl	2.52	LCS	P	0 - 30
LFB	Parathion Methyl	1.89	LCS	P	0 - 30
LFB	Pendimethalin	5.14	LCS	P	0 - 30
LFB	Phorate	21.0	LCS	P	0 - 30
LFB	Prometon	2.08	LCS	P	0 - 30
LFB	Prometryn	6.65	LCS	P	0 - 30
LFB	Simazine	3.61	LCS	P	0 - 30
LFB	Terbufos	3.16	LCS	P	0 - 30
LFB	Terbuthylazine	3.05	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P326029

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899465	Chlordane	14.7	Spike	P	0 - 30
1899465	Toxaphene	11.3	Spike	P	0 - 30
LFB	Chlordane	11.2	LCS	P	0 - 30
LFB	Toxaphene	14.9	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P325291

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898904	Sucralose	6.94	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P325333

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899022	Pyraclostrobin	4.63	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P325349

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899024	Glyphosate	0.259	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P325372

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899371	Color (true)	0.161	Sample	P	0 - 20

Reference Method: SM 2120 B
Batch ID: P325373

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899437	Color (true)	5.09	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P325700

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899011	Total Alkalinity	0.127	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P325701

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899343	Total Alkalinity	0.355	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P325689

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899371	TDS	4.67	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P325703

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899011	Fluoride	3.92	Spike	F	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 4500 F-C-97
Batch ID: P325704

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899343	Fluoride	1.48	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P325583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899365	Organic Carbon	0.616	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P325285

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1898769	2,4-D	0.480	Spike	P	0 - 30
1898769	Acetaminophen	1.66	Spike	P	0 - 30
1898769	Bentazon	0.440	Spike	P	0 - 30
1898769	Carbamazepine	10.4	Spike	P	0 - 30
1898769	Diuron	12.9	Spike	P	0 - 30
1898769	Fenuron	3.70	Spike	P	0 - 30
1898769	Fluridone	2.20	Spike	P	0 - 30
1898769	Imidacloprid	2.81	Spike	P	0 - 30
1898769	Linuron	4.21	Spike	P	0 - 30
1898769	MCP	8.39	Spike	P	0 - 30
1898769	Primidone	9.74	Spike	P	0 - 30
1898769	Triclopyr	0.966	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: 1899463
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	55.8	P	40 - 150
EPA 8321B	Sucralose-d6	97.5	P	40 - 150
USGS O-2060-01	2,4-D-d3	79.4	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	97.0	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	102	P	30 - 160
USGS O-2060-01	Diuron-d6	91.4	P	30 - 150
USGS O-2060-01	Primidone-d5	87.0	P	30 - 150

Lab Sample ID: 1899464
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	74.0	P	30 - 150

Quality Assurance Report Surrogates

Lab Sample ID: 1899465
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	36.8	F	51 - 123
EPA 8270D	Tetrachloro-m-xylene	23.0	F	31 - 111
EPA 8276	Decachlorobiphenyl	50.4	P	41 - 106

Lab Sample ID: 1899466
Field Sample ID: G3NW0097

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	68.3	P	62 - 132
EPA 8270D	Simazine-d10	95.5	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A76461
Included Lab Sample IDs: 1899433, 1899434, 1899435, 1899436, 1899437, 1899448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	96.3	99.8	P/P	85 - 115
Color (true)	99.8	110	P/P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A76462
Included Lab Sample IDs: 1899433, 1899434, 1899435, 1899436, 1899437, 1899448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	101	101	P/P	95 - 105
Turbidity	99.0	101	P/P	95 - 105

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A76466
Included Lab Sample IDs: 1899443, 1899444, 1899445, 1899446, 1899447, 1899450

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.7	98.1	P/P	90 - 110
O-Phosphate-P	98.8	98.7	P/P	90 - 110

Reference Method: EPA 8321B
Run ID: A76476
Included Lab Sample IDs: 1899463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	73.6	98.6	P/P	70 - 130

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A76516
Included Lab Sample IDs: 1899439, 1899440, 1899441, 1899442, 1899449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.2	98.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76541

Included Lab Sample IDs: 1899438

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.8	99.2	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76545

Included Lab Sample IDs: 1899438, 1899439, 1899440, 1899441, 1899442, 1899449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	100	P/P	90 - 110
NO2NO3-N	101	100	P/P	90 - 110
NO2NO3-N	99.0	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76559

Included Lab Sample IDs: 1899463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	80.8	65.2	P/P	60 - 150

Reference Method: SM 5310 B-00

Run ID: A76560

Included Lab Sample IDs: 1899438, 1899439, 1899440, 1899441, 1899442, 1899449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	95.4	P/P	90 - 110

Reference Method: USGS O-2060-01

Run ID: A76569

Included Lab Sample IDs: 1899463

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.0	91.6	P/P	50 - 150
Acetaminophen	74.0	101	P/P	60 - 150
Bentazon	90.8	98.0	P/P	50 - 150
Carbamazepine	80.4	92.8	P/P	60 - 150
Diuron	80.0	94.0	P/P	60 - 150
Fenuron	78.0	100	P/P	60 - 150
Fluridone	81.6	95.2	P/P	60 - 150
Imidacloprid	71.2	88.0	P/P	60 - 150
Linuron	78.8	76.0	P/P	60 - 150
MCP	86.0	84.4	P/P	50 - 150
Primidone	82.0	89.6	P/P	60 - 150
Triclopyr	88.0	92.8	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76600

Included Lab Sample IDs: 1899438, 1899439, 1899440, 1899441, 1899442, 1899449

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76606

Included Lab Sample IDs: 1899438, 1899439, 1899440, 1899441, 1899442, 1899449

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.2	98.9	P/P	90 - 110
Kjeldahl Nitrogen	97.7	99.0	P/P	90 - 110
Kjeldahl Nitrogen	99.0	97.7	P/P	90 - 110

Reference Method: SM 2320 B-97

Run ID: A76617

Included Lab Sample IDs: 1899433, 1899434, 1899435, 1899436, 1899437, 1899448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	104	P/P	90 - 110
Total Alkalinity	104	102	P/P	90 - 110
Total Alkalinity	104	101	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A76617

Included Lab Sample IDs: 1899433, 1899434, 1899435, 1899436, 1899437, 1899448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	100	99.0	P/P	90 - 110
Fluoride	98.0	99.5	P/P	90 - 110
Fluoride	99.0	98.0	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A76647

Included Lab Sample IDs: 1899465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.4		P	80 - 120
Alpha-BHC	95.7		P	80 - 120
Alpha-Chlordane	98.8		P	80 - 120
Beta-BHC	98.6		P	80 - 120
Carbophenothion	83.5		P	80 - 120
Chlorothalonil	100		P	80 - 120
Cypermethrin	95.6		P	80 - 120
DDD-p,p'	101		P	80 - 120
DDE-p,p'	97.6		P	80 - 120
DDT-p,p'	107		P	80 - 120
Delta-BHC	100		P	80 - 120
Dicofol	94.7		P	80 - 120
Dieldrin	101		P	80 - 120
Endosulfan I	93.4		P	80 - 120
Endosulfan II	90.7		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	112		P	80 - 120
Endrin Aldehyde	95.7		P	80 - 120
Endrin Ketone	100		P	80 - 120
Gamma-BHC	98.5		P	80 - 120
Gamma-Chlordane	99.5		P	80 - 120
Heptachlor	95.3		P	80 - 120
Heptachlor Epoxide	97.7		P	80 - 120
Methoxychlor	104		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A76647

Included Lab Sample IDs: 1899465

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Mirex	102		P	80 - 120
Permethrin	93.5		P	80 - 120
Trifluralin	94.7		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A76672

Included Lab Sample IDs: 1899433, 1899434, 1899435, 1899436, 1899437, 1899448

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	103	104	P/P	90 - 110
Chloride	104	103	P/P	90 - 110
Sulfate	94.8	99.0	P/P	90 - 110
Sulfate	97.9	94.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76766

Included Lab Sample IDs: 1899464

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	116	116	P/P	60 - 150

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A76796

Included Lab Sample IDs: 1899467

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76816

Included Lab Sample IDs: 1899467

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	99.5	P/P	90 - 110
Cadmium	100	97.4	P/P	90 - 110
Chromium	99.4	96.1	P/P	90 - 110
Copper	100	101	P/P	90 - 110
Lead	101	99.3	P/P	90 - 110
Nickel	100	101	P/P	90 - 110
Silver	99.3	98.5	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A76823

Included Lab Sample IDs: 1899465

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

Reference Method: EPA 8276
Run ID: A76823
Included Lab Sample IDs: 1899465

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

Reference Method: EPA 8270D
Run ID: A76849
Included Lab Sample IDs: 1899466

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	98.9		P	80 - 120
Alachlor	100		P	80 - 120
Ametryn	107		P	80 - 120
Atrazine	98.3		P	80 - 120
Atrazine Desethyl	95.7		P	80 - 120
Azinphos Methyl	89.7		P	80 - 120
Bromacil	104		P	80 - 120
Butylate	99.1		P	80 - 120
Chlorpyrifos Ethyl	95.6		P	80 - 120
Chlorpyrifos Methyl	95.6		P	80 - 120
Cyanazine	96.0		P	80 - 120
Demeton	97.1		P	80 - 120
Diazinon	98.5		P	80 - 120
Disulfoton	95.5		P	80 - 120
EPTC	102		P	80 - 120
Ethion	93.2		P	80 - 120
Ethoprop	100		P	80 - 120
Fenamiphos	93.3		P	80 - 120
Fipronil	98.2		P	80 - 120
Fipronil Sulfide	98.8		P	80 - 120
Fipronil Sulfone	97.8		P	80 - 120
Fonofos	95.3		P	80 - 120
Hexazinone	99.1		P	80 - 120
Malathion	93.7		P	80 - 120
Metalaxyl	99.9		P	80 - 120
Metolachlor	102		P	80 - 120
Metribuzin	89.1		P	80 - 120
Mevinphos	114		P	80 - 120
Molinate	99.4		P	80 - 120
Norflurazon	98.1		P	80 - 120
Parathion Ethyl	94.4		P	80 - 120
Parathion Methyl	95.8		P	80 - 120
Pendimethalin	93.5		P	80 - 120
Phorate	96.0		P	80 - 120
Prometon	103		P	80 - 120
Prometryn	101		P	80 - 120
Simazine	94.4		P	80 - 120
Terbufos	91.6		P	80 - 120
Terbuthylazine	118		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						1.66	
	Turbidity						2.70	
EPA 200.7 Rev. 4.4	Calcium	103		98.8	103			0.263
	Iron	106		105	105	105		0.105
	Magnesium	105		101	103			0.515
	Potassium	103		111	102	102		0.550
	Sodium	106		103	105	106		0.300
	Zinc	97.9		97.9	98.9	98.1		0.763
EPA 200.8 Rev. 5.4	Arsenic	100		98.4	99.8	103		1.33
	Cadmium	98.1		98.9	99.7	101		0.821
	Chromium	99.1		95.2	96.3	99.4		1.19
	Copper	95.5		92.7	93.7	94.0		1.07
	Lead	101		98.4	99.1	103		0.715
	Nickel	98.0		95.6	96.6	98.2		1.00
	Silver	99.8		94.5	93.9	102		0.666
EPA 300.0 Rev. 2.1	Chloride	99.5		101	97.6		0.337	
	Sulfate	90.9		95.2	96.0		0.0223	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0		98.9	101			2.17
	Ammonia-N	98.2		102	105			2.27
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100		84.9	85.3			0.355
	Kjeldahl Nitrogen	99.5		97.9	95.9			1.53
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	99.5		100	102			0.619
EPA 365.1 Rev. 2.0	Total-P	99.3		101	104			2.73
	Total-P	102		108	110			1.79
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100		98.5	98.5			0.0
EPA 8270D	Acetochlor	90.8	96.6	93.1	82.5	6.18		12.1
	Alachlor	91.2	94.1	101	91.5	3.18		9.82
	Aldrin	28.3	31.3	41.0	41.6	10.0		1.59
	Alpha-BHC	83.5	81.6	81.7	77.0	2.28		5.99
	Alpha-Chlordane	70.0	66.4	78.0	80.3	5.29		2.82
	Ametryn	115	124	112	103	7.16		8.73
	Atrazine	96.7	96.3	91.7	91.5	0.475		0.148
	Atrazine Desethyl	83.4	83.7	57.9	47.4	0.308		20.1
	Azinphos Methyl	111	108	105	94.6	2.82		10.3
	Beta-BHC	92.0	91.6	91.9	106	0.418		13.8
	Bromacil	84.9	91.5	71.6	83.9	7.44		15.8
	Butylate	49.9	55.6	16.8	22.3	10.9		28.2
	Carbophenothion	75.3	70.2	99.3	98.9	6.99		0.415
	Chlorothalonil	102	107	160	190	5.08		17.2
	Chlorpyrifos Ethyl	87.2	88.9	82.2	85.3	1.90		3.74
	Chlorpyrifos Methyl	88.9	89.3	77.8	74.1	0.475		4.89
	Cyanazine	112	114	86.7	93.0	2.32		6.93
	Cypermethrin	46.6	45.7	78.7	86.0	1.87		8.91
	DDD-p,p'	76.5	72.5	86.6	86.5	5.40		0.163
	DDE-p,p'	68.3	63.5	78.4	77.1	7.23		1.71
	DDT-p,p'	68.7	63.2	77.3	75.9	8.35		1.78
	Delta-BHC	98.9	106	137	131	6.77		3.99
	Demeton	84.4	82.9	54.5	60.6	1.73		10.6
	Diazinon	89.9	99.7	93.3	89.6	10.4		4.08
	Dicofol	58.0	49.8	36.0	26.1	15.2		32.0
	Dieldrin	80.0	69.5	85.5	86.2	14.1		0.678
	Disulfoton	86.3	85.1	70.1	65.6	1.48		6.62
	Endosulfan I	86.0	78.3	89.4	89.3	9.34		0.128
	Endosulfan II	89.4	87.3	104	97.9	2.42		6.16

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Endosulfan Sulfate	81.1	83.3	84.4	90.6	2.77	7.16
	Endrin	84.0	77.5	75.4	75.7	8.05	0.519
	Endrin Aldehyde	95.5	86.9	87.6	71.4	9.44	20.3
	Endrin Ketone	81.7	80.7	87.9	96.2	1.17	9.08
	EPTC	49.1	55.4	15.0	20.2	12.0	29.8
	Ethion	92.1	93.0	89.3	84.3	1.00	5.73
	Ethoprop	80.1	82.6	76.8	89.0	3.11	14.7
	Fenamiphos	105	101	82.3	75.4	3.33	8.70
	Fipronil	96.1	98.2	74.3	81.0	2.19	8.58
	Fipronil Sulfide	87.7	82.0	62.7	69.0	6.66	9.60
	Fipronil Sulfone	80.3	76.7	40.2	36.2	4.55	10.7
	Fonofos	83.2	86.7	79.0	83.7	4.13	5.77
	Gamma-BHC	86.9	89.6	86.0	88.9	3.04	3.26
	Gamma-Chlordane	64.1	60.2	74.6	77.4	6.21	3.64
	Heptachlor	56.9	50.0	54.8	62.0	12.9	12.3
	Heptachlor Epoxide	80.3	77.5	81.6	84.8	3.61	3.06
	Hexazinone	86.8	92.1	75.0	69.0	5.84	8.34
	Malathion	96.4	97.3	91.1	14.3	0.952	146
	Metalaxyl	85.1	93.6	88.9	83.4	9.51	6.31
	Methoxychlor	78.0	76.3	82.3	81.5	2.29	1.01
	Metolachlor	92.5	98.1	94.2	83.0	5.86	11.9
	Metribuzin	123	127	116	106	3.60	8.75
	Mevinphos	78.8	67.2	69.8	81.2	15.9	15.0
	Mirex	42.5	40.2	55.2	59.6	5.52	7.63
	Molinate	56.5	59.7	32.2	42.3	5.51	27.1
	Norflurazon	87.4	87.5	66.7	68.3	0.0929	2.48
	Parathion Ethyl	91.4	93.7	88.9	87.5	2.52	1.68
	Parathion Methyl	95.4	93.6	89.1	91.0	1.89	2.16
	Pendimethalin	84.0	88.5	92.3	88.7	5.14	3.96
	Permethrin	47.6	44.9	70.1	70.2	6.01	0.159
	Phorate	75.5	93.2	75.1	86.3	21.0	13.9
	Prometon	100	102	101	108	2.08	6.61
	Prometryn	105	113	106	96.9	6.65	8.82
	Simazine	102	105	94.5	84.4	3.61	11.4
	Terbufos	81.5	84.1	75.2	83.1	3.16	10.0
	Terbutylazine	109	112	109	104	3.05	4.44
	Trifluralin	86.0	78.7	103	125	8.84	19.4
EPA 8276	Chlordane	107	95.2	99.0	84.4	11.2	14.7
	Toxaphene	110	94.4	95.8	85.6	14.9	11.3
EPA 8321B	Glyphosate	82.4		77.2	77.0		0.259
	Pyraclostrobin	94.3		99.2	104		4.63
	Sucralose	78.3		59.7	55.5		6.94
SM 2120 B	Color (true)					0.161	
	Color (true)					5.09	
SM 2320 B-97	Total Alkalinity	103				0.127	
	Total Alkalinity	104				0.355	
SM 2540 C-97	TDS					4.67	
SM 4500 F-C-97	Fluoride	97.1		96.5	102		3.92
	Fluoride	99.1					1.48
SM 5310 B-00	Organic Carbon	94.0		92.8	93.6		0.616
USGS O-2060-01	2,4-D	88.4		81.2	80.8		0.480
	Acetaminophen	86.2		97.0	95.4		1.66
	Bentazon	70.6		45.6	45.4		0.440
	Carbamazepine	107		110	122		10.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
USGS O-2060-01	Diuron	108	111	97.2		12.9
	Fenuron	93.2	85.0	88.2		3.70
	Fluridone	103	46.0	45.0		2.20
	Imidacloprid	92.0	156	161		2.81
	Linuron	100	97.6	102		4.21
	MCPP	91.4	82.0	75.4		8.39
	Primidone	98.0	102	112		9.74
	Triclopyr	94.8	83.2	82.4		0.966

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
EPA 200.7 Rev. 4.4 / E31780	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	1899467
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1899467
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1899443, 1899444, 1899445, 1899446, 1899447, 1899450
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1899465
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1899466
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1899465
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1899463
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1899464
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1899463
SM 2120 B / E31780	True Color measured at 450 nm	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1899463
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1899463

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	05/16/2017			05/16/2017 15:00	Sima Feizi	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
EPA 200.7 Rev. 4.4	05/16/2017	05/23/2017	Elliott D. Healy	05/31/2017	Betina Topolski	1899467
EPA 200.8 Rev. 5.4	05/16/2017	05/23/2017	Elliott D. Healy	06/01/2017	Robert K Palmer	1899467
EPA 300.0 Rev. 2.1	05/16/2017			05/26/2017	Ping Hua	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
EPA 350.1 Rev. 2.0	05/16/2017			05/22/2017	Julia Storbeck	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 351.2 Rev. 2.0	05/16/2017	05/19/2017	Adrian Shelby	05/23/2017	Joseph Suarez	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 353.2 Rev. 2.0	05/16/2017			05/19/2017	Beverly Y. Sanders	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
EPA 365.1 Rev. 2.0	05/16/2017	05/17/2017	Vijayalakshmi Reddy	05/18/2017	Lipi Saha	1899439, 1899440, 1899441, 1899442, 1899449
EPA 365.1 Rev. 2.0 dissolved	05/16/2017	05/17/2017	Vijayalakshmi Reddy	05/19/2017	Lipi Saha	1899438
	05/16/2017			05/16/2017 15:56	Anthony C. Onicha	1899443
	05/16/2017			05/16/2017 15:57	Anthony C. Onicha	1899444
	05/16/2017			05/16/2017 15:58	Anthony C. Onicha	1899445, 1899446
	05/16/2017			05/16/2017 16:04	Anthony C. Onicha	1899447, 1899450
EPA 8270D	05/16/2017	05/17/2017	Fe-Val Siddell	05/22/2017	Vandana T. Nagar	1899465
	05/16/2017	05/17/2017	John Kaba	05/26/2017	Irina Carbone	1899466
EPA 8276	05/16/2017	05/25/2017	John Kaba	06/01/2017	Vandana T. Nagar	1899465
EPA 8321B	05/16/2017	05/17/2017	Mohammad Ghaffari	05/17/2017	Mohammad Ghaffari	1899463
	05/16/2017	05/18/2017	Hoor Shaik	05/23/2017	Juyoung Kim	1899464
	05/16/2017	05/18/2017	Mohammad Ghaffari	05/18/2017	Mohammad Ghaffari	1899463
SM 2120 B	05/16/2017			05/16/2017 14:45	Blanca Fach	1899433
	05/16/2017			05/16/2017 14:46	Blanca Fach	1899434
	05/16/2017			05/16/2017 14:47	Blanca Fach	1899435
	05/16/2017			05/16/2017 14:50	Blanca Fach	1899436
	05/16/2017			05/16/2017 14:51	Blanca Fach	1899437
	05/16/2017			05/16/2017 14:52	Blanca Fach	1899448
SM 2320 B-97	05/16/2017			05/23/2017	Dale L. Simmons	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 2540 C-97	05/16/2017			05/17/2017	Yijie Li	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 2540 D-97	05/16/2017			05/17/2017	Yijie Li	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 4500 F-C-97	05/16/2017			05/23/2017	Dale L. Simmons	1899433, 1899434, 1899435, 1899436, 1899437, 1899448
SM 5310 B-00	05/16/2017			05/20/2017	Christopher Armour	1899438, 1899439, 1899440, 1899441, 1899442, 1899449
USGS O-2060-01	05/16/2017	05/17/2017	Hoor Shaik	05/21/2017	Juyoung Kim	1899463