

Chemical Analysis Report

NE-DIST-2017-04-27-02

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

Event Description: **2017 SMP Kit Template 1**

Request ID: **RQ-2017-04-24-27**

Customer: **NE-DIST**

Project ID: **SMP**

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Date Certified: 24-MAY-2017 10:50



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: Hogan Cr @ Washington St.

Collection Date/Time: 04/26/2017 11:15

Field ID: G2NE078104262017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893791	EPA 180.1 Rev. 2.0	Turbidity	3.4		NTU	P324196	
	EPA 300.0 Rev. 2.1	Chloride	8.1E+03		mg Cl/L	P324872	
		Sulfate	1.2E+03		mg SO4/L	P324873	
	SM 2120 B	Color (true)	22		PCU	P324145	
	SM 2320 B-97	Total Alkalinity	122		mg CaCO3/L	P324858	
	SM 2540 C-97	TDS	1.48E+04		mg/L	P325036	
	SM 2540 D-97	TSS	4	I	mg/L	P324594	
	SM 4500 F-C-97	Fluoride	0.70		mg F/L	P324861	
1893792	EPA 350.1 Rev. 2.0	Ammonia-N	0.078		mg N/L	P324263	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P324344	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.031		mg N/L	P324320	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P324458	
	SM 5310 B-00	Organic Carbon	7.0		mg C/L	P324768	
1893793	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.066		mg P/L	P324188	
1893805	EPA 200.7 Rev. 4.4	Calcium	227		mg/L	P324521	
		Iron	211	I	ug/L	P324521	
		Magnesium	674		mg/L	P324521	
		Potassium	208		mg/L	P324521	
		Sodium	5.35E+03		mg/L	P324521	
	EPA 200.8 Rev. 5.4	Arsenic	1.76		ug/L	P324521	
		Cadmium	0.060	U	ug/L	P324521	
		Chromium	1.2	U	ug/L	P324521	
		Copper	1.2	I	ug/L	P324521	
		Lead	1.73		ug/L	P324521	
		Nickel	0.60	U	ug/L	P324521	
		Silver	0.030	U	ug/L	P324521	
		Zinc	8.0	I	ug/L	P324521	

Ref. Method and Comment:

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

EPA 200.7 Rev. 4.4: Batch matrix spike recoveries for calcium, magnesium, potassium, and sodium are unavailable because of high analyte concentration in the QC sample.

Sample Location: Hogan Cr @ Washington St.

Collection Date/Time: 04/26/2017 11:15

Field ID: G2NE078104262017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893801	EPA 8321B	Glyphosate**	10	U	ug/L	P324039	
		Sucralose**	0.78		ug/L	P324163	
	USGS O-2060-01	2,4-D	0.0067		ug/L	P324171	
		Diuron	0.019		ug/L	P324171	
		Fenuron	0.0087	I	ug/L	P324171	
		Imidacloprid	0.0087	J	ug/L	P324171	MS
		Bentazon	0.0068		ug/L	P324171	
		Linuron	0.011	I	ug/L	P324171	
		Acetaminophen**	0.017	I	ug/L	P324171	

Field ID: G2NE078104262017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893801	USGS O-2060-01	MCP	8.0E-04	U	ug/L	P324171	
		Carbamazepine**	0.0019		ug/L	P324171	
		Triclopyr**	0.0040	U	ug/L	P324171	
		Primidone**	0.0040	U	ug/L	P324171	
		Fluridone**	0.0026		ug/L	P324171	
1893802	EPA 8321B	Pyraclostrobin**	0.0020	U	ug/L	P324033	
1893803	EPA 8270D	Aldrin	4.0	UJ	ng/L	P324073	SUR
		Alpha-BHC	2.0	UJ	ng/L	P324073	SUR
		Beta-BHC	4.0	UJ	ng/L	P324073	SUR
		Delta-BHC	4.0	UJ	ng/L	P324073	SUR
		Gamma-BHC	4.0	UJ	ng/L	P324073	SUR
		Carbophenothion	4.0	UJ	ng/L	P324073	SUR
		Chlorothalonil	2.0	UJ	ng/L	P324073	LCS, RPD, SUR
		Cypermethrin	20	UJ	ng/L	P324073	SUR
		DDD-p,p'	2.0	UJ	ng/L	P324073	SUR
		DDE-p,p'	3.0	UJ	ng/L	P324073	SUR
		DDT-p,p'	3.0	UJ	ng/L	P324073	SUR
		Dieldrin	4.0	UJ	ng/L	P324073	SUR
		Endosulfan I	4.0	UJ	ng/L	P324073	SUR
		Endosulfan II	4.0	UJ	ng/L	P324073	SUR
		Endosulfan Sulfate	2.0	UJ	ng/L	P324073	SUR
		Endrin	2.0	UJ	ng/L	P324073	SUR
		Endrin Aldehyde	2.0	U	ng/L	P324073	SUR
		Heptachlor	1.5	UJ	ng/L	P324073	SUR
		Heptachlor Epoxide	2.0	UJ	ng/L	P324073	SUR
		Methoxychlor	4.0	UJ	ng/L	P324073	SUR
		Mirex	2.0	UJ	ng/L	P324073	SUR
		Permethrin	10	UJ	ng/L	P324073	SUR
		Trifluralin	1.0	UJ	ng/L	P324073	MS, SUR
		Alpha-Chlordane	1.0	UJ	ng/L	P324073	SUR
		Gamma-Chlordane	1.0	UJ	ng/L	P324073	SUR
		Endrin Ketone	2.0	UJ	ng/L	P324073	SUR
		Dicofol	30	UJ	ng/L	P324073	MS, RPD, SUR
	EPA 8276	Chlordane**	2.5	U	ng/L	P324073	
		Toxaphene**	13	U	ng/L	P324073	
1893804	EPA 8270D	Ametryn	0.31	U	ng/L	P324314	
		Atrazine	26		ng/L	P324314	
		Chlorpyrifos Ethyl	0.23	U	ng/L	P324314	
		Chlorpyrifos Methyl	0.094	U	ng/L	P324314	
		Disulfoton	0.31	U	ng/L	P324314	
		Ethion	0.14	U	ng/L	P324314	
		Ethoprop	0.094	U	ng/L	P324314	
		Hexazinone	1.4	I	ng/L	P324314	
		Malathion	0.33	U	ng/L	P324314	

Field ID: G2NE078104262017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893804	EPA 8270D	Metribuzin	2.5		ng/L	P324314	
		Mevinphos	0.47	U	ng/L	P324314	
		Norflurazon	0.47	U	ng/L	P324314	
		Phorate	0.23	U	ng/L	P324314	
		Prometryn	0.19	U	ng/L	P324314	
		Simazine	3.8		ng/L	P324314	
		Atrazine Desethyl	1.4	U	ng/L	P324314	
		Prometon	0.90	I	ng/L	P324314	
		Fipronil	0.32	I	ng/L	P324314	
		Molinate	0.28	U	ng/L	P324314	
		Pendimethalin	1.4	U	ng/L	P324314	
		Terbufos	0.094	U	ng/L	P324314	
		EPTC	1.2	U	ng/L	P324314	
		Terbuthylazine	0.40	U	ng/L	P324314	
		Bromacil	2.5		ng/L	P324314	
		Fipronil Sulfide	0.48	I	ng/L	P324314	
		Fipronil Sulfone	1.2		ng/L	P324314	
		Alachlor	0.23	U	ng/L	P324314	
		Azinphos Methyl	2.1	U	ng/L	P324314	
		Butylate	0.38	U	ng/L	P324314	
		Demeton	1.9	UJ	ng/L	P324314	CCV
		Diazinon	0.12	U	ng/L	P324314	
		Fenamiphos	0.23	UJ	ng/L	P324314	LCS, MS
		Fonofos	0.19	U	ng/L	P324314	
		Metalaxyl	0.50	I	ng/L	P324314	
		Metolachlor	4.3		ng/L	P324314	
		Acetochlor	0.23	U	ng/L	P324314	
		Cyanazine	0.47	UJ	ng/L	P324314	CCV
		Parathion Ethyl	0.23	U	ng/L	P324314	
		Parathion Methyl	0.23	U	ng/L	P324314	

Ref. Method and Comment:

USGS O-2060-01: Indaziflam = 8.0E-04 I ug/L. Refer to the narrative for an explanation of QC Codes.

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

Sample Location: Big Fishwier Cr. N. Fork @ Hamilton St.

Collection Date/Time: 04/26/2017 09:55

Field ID: G2NE078604262017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893785	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P324195	
	EPA 300.0 Rev. 2.1	Chloride	26		mg Cl/L	P324870	
		Sulfate	50		mg SO4/L	P324874	
	SM 2120 B	Color (true)	19		PCU	P324145	
	SM 2320 B-97	Total Alkalinity	219		mg CaCO3/L	P325142	
	SM 2540 C-97	TDS	368	A	mg/L	P325073	
	SM 2540 D-97	TSS	3	IA	mg/L	P324863	

Field ID: G2NE078604262017

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893785	SM 4500 F-C-97	Fluoride	0.23		mg F/L	P325146	
1893787	EPA 350.1 Rev. 2.0	Ammonia-N	0.022		mg N/L	P324262	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.35		mg N/L	P324287	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.16		mg N/L	P324390	
	EPA 365.1 Rev. 2.0	Total-P	0.029		mg P/L	P324348	
	SM 5310 B-00	Organic Carbon	6.2		mg C/L	P324283	
1893789	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.013		mg P/L	P324187	

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 Creek @ Talleyrand

Collection Date/Time: 04/26/2017 09:10

Field ID: G2NE080004262017

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1893786	EPA 180.1 Rev. 2.0	Turbidity	5.3	A	NTU	P324196	
	EPA 300.0 Rev. 2.1	Chloride	1.1E+04		mg Cl/L	P324870	
		Sulfate	1.6E+03		mg SO4/L	P324874	
	SM 2120 B	Color (true)	16		PCU	P324145	
	SM 2320 B-97	Total Alkalinity	119		mg CaCO3/L	P324858	
	SM 2540 C-97	TDS	1.94E+04		mg/L	P325036	
	SM 2540 D-97	TSS	8	I	mg/L	P324594	
	SM 4500 F-C-97	Fluoride	0.86		mg F/L	P324861	
1893788	EPA 350.1 Rev. 2.0	Ammonia-N	0.18		mg N/L	P324263	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.85		mg N/L	P324290	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.054		mg N/L	P324320	
	EPA 365.1 Rev. 2.0	Total-P	0.12		mg P/L	P324458	
	SM 5310 B-00	Organic Carbon	6.6		mg C/L	P324768	
1893790	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.078		mg P/L	P324188	

Ref. Method and Comment:

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P324195

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0

Batch ID: P324196

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Quality Assurance Report Method Blank Results

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P324521

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30.0	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P324521

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
Zinc	1.0	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324870

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324872

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324873

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324874

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324262

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324263

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324287

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324344

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324320

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324390

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324348

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324458

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324187

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324188

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

Reference Method: EPA 8270D
Batch ID: P324073

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'	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: P324314

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270D
Batch ID: P324314

Component	Result	Code	Units
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
Metaxyl	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
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P324073

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

Reference Method: EPA 8321B
Batch ID: P324033

Component	Result	Code	Units
Pyraclostrobin	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P324039

Component	Result	Code	Units
Glyphosate	10	U	ug/L

Reference Method: EPA 8321B
Batch ID: P324163

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P324145

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P324858

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

Reference Method: SM 2320 B-97
Batch ID: P325142

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

Reference Method: SM 2540 C-97
Batch ID: P325036

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P325073

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P324594

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P324863

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P324861

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 4500 F-C-97
Batch ID: P325146

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report Method Blank Results

Reference Method: SM 5310 B-00
Batch ID: P324283

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

Reference Method: SM 5310 B-00
Batch ID: P324768

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

Reference Method: USGS O-2060-01
Batch ID: P324171

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
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: P324521

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

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P324521

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Arsenic	101		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	100		P	85 - 115
Copper	99.0		P	85 - 115
Lead	102		P	85 - 115
Nickel	102		P	85 - 115
Silver	99.4		P	85 - 115
Zinc	100		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324870

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324872

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324873

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324874

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324262

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324263

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324287

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324344

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P324320

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
 Batch ID: P324390

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P324348

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

Reference Method: EPA 365.1 Rev. 2.0
 Batch ID: P324458

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P324187

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
 Batch ID: P324188

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

Reference Method: EPA 8270D
 Batch ID: P324073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	49.7	46.3	P/P	30 - 83.0
Alpha-BHC	93.1	92.6	P/P	62 - 119
Alpha-Chlordane	94.0	86.3	P/P	56 - 119
Beta-BHC	107	107	P/P	54 - 141
Carbophenothion	109	110	P/P	33 - 147
Chlorothalonil	23.8	61.7	F/P	25 - 175
Cypermethrin	101	83.2	P/P	50 - 155
DDD-p,p'	100	91.7	P/P	56 - 135
DDE-p,p'	92.0	89.0	P/P	48 - 120
DDT-p,p'	98.8	95.4	P/P	51 - 121
Delta-BHC	124	127	P/P	65 - 163
Dicofol	44.1	33.8	P/P	15 - 112
Dieldrin	92.6	85.6	P/P	59 - 134
Endosulfan I	100	95.3	P/P	65 - 142
Endosulfan II	102	98.3	P/P	65 - 154
Endosulfan Sulfate	95.2	93.0	P/P	65 - 136

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P324073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin	102	91.2	P/P	53 - 156
Endrin Aldehyde	89.3	82.8	P/P	47 - 156
Endrin Ketone	93.6	91.1	P/P	70 - 124
Gamma-BHC	103	102	P/P	64 - 142
Gamma-Chlordane	91.1	82.9	P/P	55 - 114
Heptachlor	76.6	73.7	P/P	42 - 105
Heptachlor Epoxide	94.2	87.8	P/P	67 - 120
Methoxychlor	108	100	P/P	63 - 134
Mirex	77.1	72.4	P/P	40 - 90.0
Permethrin	99.6	83.3	P/P	36 - 144
Trifluralin	147	126	P/P	40 - 170

Reference Method: EPA 8270D
Batch ID: P324314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	105	89.2	P/P	78 - 118
Alachlor	102	84.5	P/P	77 - 119
Ametryn	126	109	P/P	61 - 136
Atrazine	108	92.0	P/P	73 - 120
Atrazine Desethyl	76.0	67.8	P/P	16 - 122
Azinphos Methyl	144	131	P/P	69 - 186
Bromacil	88.1	77.3	P/P	40 - 125
Butylate	52.5	48.4	P/P	32 - 87.0
Chlorpyrifos Ethyl	99.8	87.2	P/P	53 - 110
Chlorpyrifos Methyl	97.7	86.1	P/P	31 - 119
Cyanazine	122	105	P/P	36 - 224
Demeton	102	94.6	P/P	39 - 122
Diazinon	101	84.5	P/P	75 - 119
Disulfoton	99.3	92.0	P/P	42 - 139
EPTC	51.4	47.9	P/P	33 - 96.0
Ethion	126	112	P/P	63 - 127
Ethoprop	103	85.1	P/P	65 - 107
Fenamiphos	150	131	F/P	64 - 137
Fipronil	113	99.2	P/P	60 - 126
Fipronil Sulfide	106	88.1	P/P	58 - 124
Fipronil Sulfone	102	91.1	P/P	57 - 126
Fonofos	97.9	82.9	P/P	65 - 111
Hexazinone	93.3	95.5	P/P	46 - 151
Malathion	102	98.5	P/P	68 - 132
Metalaxyl	98.8	85.1	P/P	51 - 132
Metolachlor	110	91.1	P/P	78 - 119
Metribuzin	111	94.2	P/P	64 - 138
Mevinphos	95.4	81.9	P/P	34 - 128
Molinate	63.3	55.7	P/P	44 - 101
Norflurazon	112	97.5	P/P	63 - 129
Parathion Ethyl	98.7	87.9	P/P	80 - 109
Parathion Methyl	91.9	85.8	P/P	74 - 125
Pendimethalin	97.4	86.1	P/P	48 - 134
Phorate	109	87.1	P/P	52 - 119
Prometon	115	94.8	P/P	69 - 124
Prometryn	118	102	P/P	66 - 124

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270D
Batch ID: P324314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Simazine	105	88.9	P/P	61 - 134
Terbufos	100	85.9	P/P	58 - 115
Terbutylazine	99.0	86.0	P/P	77 - 113

Reference Method: EPA 8276
Batch ID: P324073

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	77.2	84.6	P/P	44 - 118
Toxaphene	92.7	90.9	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P324033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Pyraclostrobin	94.4		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P324039

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Glyphosate	129		P	40 - 140

Reference Method: EPA 8321B
Batch ID: P324163

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	73.6		P	40 - 140

Reference Method: SM 2320 B-97
Batch ID: P324858

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

Reference Method: SM 2320 B-97
Batch ID: P325142

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

Reference Method: SM 4500 F-C-97
Batch ID: P324861

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.4		P	92 - 103

Reference Method: SM 4500 F-C-97
Batch ID: P325146

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	96.7		P	91 - 105

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-00
Batch ID: P324283

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	103		P	85 - 115

Reference Method: SM 5310 B-00
Batch ID: P324768

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.0		P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P324171

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	69.0		P	40 - 140
Acetaminophen	43.4		P	40 - 140
Bentazon	47.0		P	40 - 140
Carbamazepine	114		P	40 - 140
Diuron	119		P	40 - 140
Fenuron	106		P	40 - 140
Fluridone	99.5		P	40 - 140
Imidacloprid	108		P	40 - 160
Linuron	106		P	40 - 140
MCPP	74.2		P	40 - 140
Primidone	99.7		P	40 - 140
Triclopyr	74.9		P	40 - 140

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P324521

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1895132	Iron	102	98.8	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P324521

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1895132	Arsenic	108	107	P/P	80 - 120
1895132	Cadmium	102	104	P/P	80 - 120
1895132	Chromium	88.1	88.5	P/P	80 - 120
1895132	Copper	93.0	91.3	P/P	80 - 120
1895132	Lead	106	106	P/P	80 - 120
1895132	Nickel	98.0	97.6	P/P	80 - 120
1895132	Silver	91.3	91.7	P/P	80 - 120
1895132	Zinc	90.3	91.1	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324870

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324870

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893679	Chloride	97.5		P	90 - 110
1893698	Chloride	98.0		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324872

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893837	Chloride	99.3		P	90 - 110
1894230	Chloride	98.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324873

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893837	Sulfate	95.4		P	90 - 110
1894230	Sulfate	93.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324874

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893679	Sulfate	94.6		P	90 - 110
1893698	Sulfate	93.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324262

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893775	Ammonia-N	105	104	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324263

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1894223	Ammonia-N	107	107	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324287

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893705	Kjeldahl Nitrogen	95.3	94.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893595	Kjeldahl Nitrogen	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324344

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324344

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1894223	Kjeldahl Nitrogen	99.0	98.3	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893715	NO2NO3-N	106	108	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893776	NO2NO3-N	101		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324348

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893704	Total-P	106	106	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324458

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893726	Total-P	91.8	90.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324187

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893708	O-Phosphate-P	95.8	95.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324188

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893721	O-Phosphate-P	96.8	97.6	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P324073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1892624	Aldrin	59.2	70.7	P/P	30 - 83.0
1892624	Alpha-BHC	86.6	110	P/P	62 - 119
1892624	Alpha-Chlordane	75.0	88.4	P/P	56 - 119
1892624	Beta-BHC	89.2	109	P/P	54 - 141
1892624	Carbophenothion	125	147	P/P	33 - 147
1892624	Chlorothalonil	148	153	P/P	25 - 175
1892624	Cypermethrin	109	140	P/P	50 - 155
1892624	DDD-p,p'	78.7	95.2	P/P	56 - 135
1892624	DDE-p,p'	68.5	85.6	P/P	48 - 120
1892624	DDT-p,p'	68.7	79.0	P/P	51 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P324073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1892624	Delta-BHC	116	135	P/P	65 - 163
1892624	Dicofol	11.8	20.1	F/P	15 - 112
1892624	Dieldrin	72.3	85.5	P/P	59 - 134
1892624	Endosulfan I	84.3	96.8	P/P	65 - 142
1892624	Endosulfan II	88.6	105	P/P	65 - 154
1892624	Endosulfan Sulfate	86.4	96.2	P/P	65 - 136
1892624	Endrin	84.6	87.7	P/P	53 - 156
1892624	Endrin Aldehyde	81.3	96.8	P/P	47 - 156
1892624	Endrin Ketone	90.6	110	P/P	70 - 124
1892624	Gamma-BHC	84.0	103	P/P	64 - 142
1892624	Gamma-Chlordane	74.9	87.6	P/P	55 - 114
1892624	Heptachlor	66.6	73.5	P/P	42 - 105
1892624	Heptachlor Epoxide	75.6	88.9	P/P	67 - 120
1892624	Methoxychlor	80.3	93.5	P/P	63 - 134
1892624	Mirex	64.5	78.7	P/P	40 - 90.0
1892624	Permethrin	98.9	124	P/P	36 - 144
1892624	Trifluralin	139	176	P/F	40 - 170

Reference Method: EPA 8270D
Batch ID: P324314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893765	Acetochlor	99.0	98.8	P/P	74 - 123
1893765	Alachlor	92.5	92.4	P/P	73 - 124
1893765	Ametryn	122	125	P/P	56 - 149
1893765	Atrazine	99.3	97.3	P/P	73 - 124
1893765	Atrazine Desethyl	65.9	61.9	P/P	12 - 103
1893765	Azinphos Methyl	147	127	P/P	60 - 202
1893765	Bromacil	92.7	92.1	P/P	42 - 133
1893765	Butylate	41.4	39.2	P/P	10 - 85.0
1893765	Chlorpyrifos Ethyl	93.3	93.3	P/P	53 - 113
1893765	Chlorpyrifos Methyl	89.3	85.7	P/P	40 - 115
1893765	Cyanazine	115	109	P/P	22 - 210
1893765	Demeton	96.9	94.3	P/P	17 - 149
1893765	Diazinon	97.6	97.4	P/P	72 - 124
1893765	Disulfoton	98.6	89.5	P/P	43 - 139
1893765	EPTC	39.7	37.3	P/P	10 - 86.0
1893765	Ethion	120	117	P/P	65 - 131
1893765	Ethoprop	96.8	93.6	P/P	59 - 110
1893765	Fenamiphos	143	141	F/F	57 - 138
1893765	Fipronil	113	108	P/P	40 - 130
1893765	Fipronil Sulfide	99.5	91.9	P/P	36 - 128
1893765	Fipronil Sulfone	100	90.2	P/P	16 - 145
1893765	Fonofos	95.5	89.3	P/P	60 - 112
1893765	Hexazinone	94.1	87.9	P/P	69 - 142
1893765	Malathion	103	92.9	P/P	68 - 132
1893765	Metalaxyl	96.7	95.4	P/P	66 - 118
1893765	Metolachlor	97.9	101	P/P	71 - 124
1893765	Metribuzin	104	98.0	P/P	61 - 140
1893765	Mevinphos	95.6	84.4	P/P	38 - 130
1893765	Molinate	54.5	52.2	P/P	23 - 99.0
1893765	Norflurazon	114	105	P/P	39 - 139

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270D
Batch ID: P324314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893765	Parathion Ethyl	98.1	90.6	P/P	75 - 111
1893765	Parathion Methyl	91.6	85.6	P/P	64 - 130
1893765	Pendimethalin	99.3	93.9	P/P	26 - 173
1893765	Phorate	97.3	95.5	P/P	43 - 127
1893765	Prometon	115	112	P/P	50 - 144
1893765	Prometryn	116	115	P/P	69 - 126
1893765	Simazine	94.0	89.3	P/P	51 - 152
1893765	Terbufos	96.1	93.2	P/P	54 - 125
1893765	Terbuthylazine	92.3	90.5	P/P	76 - 113

Reference Method: EPA 8276
Batch ID: P324073

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893803	Chlordane	83.4	76.9	P/P	44 - 118
1893803	Toxaphene	115	112	P/P	36 - 136

Reference Method: EPA 8321B
Batch ID: P324033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1892645	Pyraclostrobin	94.2	86.2	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P324039

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1892980	Glyphosate	124	128	P/P	40 - 140

Reference Method: EPA 8321B
Batch ID: P324163

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893377	Sucralose	109	114	P/P	40 - 140

Reference Method: SM 4500 F-C-97
Batch ID: P324861

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1895081	Fluoride	98.1	98.1	P/P	91 - 105

Reference Method: SM 4500 F-C-97
Batch ID: P325146

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893811	Fluoride	99.4	103	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P324283

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893581	Organic Carbon	103	103	P/P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P324768

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1896326	Organic Carbon	102	103	P/P	85 - 115

Reference Method: USGS O-2060-01
Batch ID: P324171

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1893801	2,4-D	64.9	67.1	P/P	40 - 140
1893801	Acetaminophen	87.4	91.4	P/P	40 - 140
1893801	Bentazon	52.8	56.6	P/P	40 - 140
1893801	Carbamazepine	103	107	P/P	40 - 140
1893801	Diuron	88.9	98.4	P/P	40 - 140
1893801	Fenuron	81.5	83.8	P/P	40 - 140
1893801	Fluridone	81.5	86.4	P/P	40 - 140
1893801	Imidacloprid	183	198	F/F	40 - 160
1893801	Linuron	97.5	95.9	P/P	40 - 140
1893801	MCCP	57.6	61.7	P/P	40 - 140
1893801	Primidone	103	107	P/P	40 - 140
1893801	Triclopyr	58.8	63.5	P/P	40 - 140

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P324195

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893713	Turbidity	4.06	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P324196

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893786	Turbidity	3.78	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P324521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1895132	Calcium	1.24	Spike	P	0 - 20
1895132	Iron	2.92	Spike	P	0 - 20
1895132	Magnesium	0.977	Spike	P	0 - 20
1895132	Potassium	3.15	Spike	P	0 - 20
1895132	Sodium	1.66	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P324521

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1895132	Arsenic	0.533	Spike	P	0 - 20
1895132	Cadmium	1.46	Spike	P	0 - 20
1895132	Chromium	0.491	Spike	P	0 - 20
1895132	Copper	1.78	Spike	P	0 - 20
1895132	Lead	0.0408	Spike	P	0 - 20
1895132	Nickel	0.404	Spike	P	0 - 20
1895132	Silver	0.409	Spike	P	0 - 20
1895132	Zinc	0.847	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324870

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893679	Chloride	0.217	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324872

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1894230	Chloride	0.118	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324873

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1894230	Sulfate	0.173	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P324874

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893679	Sulfate	0.428	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324262

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893775	Ammonia-N	0.844	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P324263

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1894223	Ammonia-N	0.00687	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324287

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893705	Kjeldahl Nitrogen	1.13	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324290

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893595	Kjeldahl Nitrogen	1.11	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P324344

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1894223	Kjeldahl Nitrogen	0.609	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893715	NO2NO3-N	1.41	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P324390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893776	NO2NO3-N	0.348	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324348

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893704	Total-P	0.179	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P324458

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893726	Total-P	1.37	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324187

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893708	O-Phosphate-P	0.188	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P324188

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893721	O-Phosphate-P	0.823	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P324073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1892624	Aldrin	17.6	Spike	P	0 - 30
1892624	Alpha-BHC	24.0	Spike	P	0 - 30
1892624	Alpha-Chlordane	16.5	Spike	P	0 - 30
1892624	Beta-BHC	20.0	Spike	P	0 - 30
1892624	Carbophenothion	16.1	Spike	P	0 - 30
1892624	Chlorothalonil	3.21	Spike	P	0 - 30
1892624	Cypermethrin	24.6	Spike	P	0 - 30
1892624	DDD-p,p'	19.0	Spike	P	0 - 30
1892624	DDE-p,p'	22.2	Spike	P	0 - 30
1892624	DDT-p,p'	13.9	Spike	P	0 - 30
1892624	Delta-BHC	14.4	Spike	P	0 - 30
1892624	Dicofol	51.9	Spike	F	0 - 30
1892624	Dieldrin	16.7	Spike	P	0 - 30
1892624	Endosulfan I	13.8	Spike	P	0 - 30
1892624	Endosulfan II	17.2	Spike	P	0 - 30
1892624	Endosulfan Sulfate	10.7	Spike	P	0 - 30
1892624	Endrin	3.50	Spike	P	0 - 30
1892624	Endrin Aldehyde	17.4	Spike	P	0 - 30
1892624	Endrin Ketone	19.3	Spike	P	0 - 30
1892624	Gamma-BHC	20.4	Spike	P	0 - 30
1892624	Gamma-Chlordane	15.6	Spike	P	0 - 30
1892624	Heptachlor	9.76	Spike	P	0 - 30
1892624	Heptachlor Epoxide	16.2	Spike	P	0 - 30
1892624	Methoxychlor	15.1	Spike	P	0 - 30
1892624	Mirex	19.8	Spike	P	0 - 30
1892624	Permethrin	22.2	Spike	P	0 - 30
1892624	Trifluralin	23.7	Spike	P	0 - 30
LFB	Aldrin	7.13	LCS	P	0 - 30
LFB	Alpha-BHC	0.503	LCS	P	0 - 30
LFB	Alpha-Chlordane	8.54	LCS	P	0 - 30
LFB	Beta-BHC	0.0541	LCS	P	0 - 30
LFB	Carbophenothion	1.12	LCS	P	0 - 30
LFB	Chlorothalonil	88.5	LCS	F	0 - 30
LFB	Cypermethrin	18.9	LCS	P	0 - 30
LFB	DDD-p,p'	9.11	LCS	P	0 - 30
LFB	DDE-p,p'	3.27	LCS	P	0 - 30
LFB	DDT-p,p'	3.56	LCS	P	0 - 30
LFB	Delta-BHC	2.40	LCS	P	0 - 30
LFB	Dicofol	26.5	LCS	P	0 - 30
LFB	Dieldrin	7.84	LCS	P	0 - 30
LFB	Endosulfan I	5.08	LCS	P	0 - 30
LFB	Endosulfan II	3.73	LCS	P	0 - 30
LFB	Endosulfan Sulfate	2.32	LCS	P	0 - 30
LFB	Endrin	11.7	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P324073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Endrin Aldehyde	7.60	LCS	P	0 - 30
LFB	Endrin Ketone	2.71	LCS	P	0 - 30
LFB	Gamma-BHC	0.727	LCS	P	0 - 30
LFB	Gamma-Chlordane	9.39	LCS	P	0 - 30
LFB	Heptachlor	3.87	LCS	P	0 - 30
LFB	Heptachlor Epoxide	7.04	LCS	P	0 - 30
LFB	Methoxychlor	7.65	LCS	P	0 - 30
LFB	Mirex	6.35	LCS	P	0 - 30
LFB	Permethrin	17.8	LCS	P	0 - 30
LFB	Trifluralin	15.4	LCS	P	0 - 30

Reference Method: EPA 8270D
Batch ID: P324314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893765	Acetochlor	0.220	Spike	P	0 - 30
1893765	Alachlor	0.128	Spike	P	0 - 30
1893765	Ametryn	2.89	Spike	P	0 - 30
1893765	Atrazine	1.67	Spike	P	0 - 30
1893765	Atrazine Desethyl	6.24	Spike	P	0 - 30
1893765	Azinphos Methyl	14.3	Spike	P	0 - 30
1893765	Bromacil	0.607	Spike	P	0 - 30
1893765	Butylate	5.36	Spike	P	0 - 30
1893765	Chlorpyrifos Ethyl	0.0469	Spike	P	0 - 30
1893765	Chlorpyrifos Methyl	4.12	Spike	P	0 - 30
1893765	Cyanazine	5.56	Spike	P	0 - 30
1893765	Demeton	2.64	Spike	P	0 - 30
1893765	Diazinon	0.233	Spike	P	0 - 30
1893765	Disulfoton	9.59	Spike	P	0 - 30
1893765	EPTC	6.18	Spike	P	0 - 30
1893765	Ethion	2.84	Spike	P	0 - 30
1893765	Ethoprop	3.40	Spike	P	0 - 30
1893765	Fenamiphos	1.13	Spike	P	0 - 30
1893765	Fipronil	3.59	Spike	P	0 - 30
1893765	Fipronil Sulfide	8.01	Spike	P	0 - 30
1893765	Fipronil Sulfone	9.15	Spike	P	0 - 30
1893765	Fonofos	6.72	Spike	P	0 - 30
1893765	Hexazinone	6.02	Spike	P	0 - 30
1893765	Malathion	10.8	Spike	P	0 - 30
1893765	Metalaxyl	1.37	Spike	P	0 - 30
1893765	Metolachlor	2.56	Spike	P	0 - 30
1893765	Metribuzin	5.54	Spike	P	0 - 30
1893765	Mevinphos	12.4	Spike	P	0 - 30
1893765	Molinate	4.39	Spike	P	0 - 30
1893765	Norflurazon	7.92	Spike	P	0 - 30
1893765	Parathion Ethyl	7.92	Spike	P	0 - 30
1893765	Parathion Methyl	6.78	Spike	P	0 - 30
1893765	Pendimethalin	5.61	Spike	P	0 - 30
1893765	Phorate	1.87	Spike	P	0 - 30
1893765	Prometon	2.69	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P324314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893765	Prometryn	0.528	Spike	P	0 - 30
1893765	Simazine	5.17	Spike	P	0 - 30
1893765	Terbufos	3.08	Spike	P	0 - 30
1893765	Terbutylazine	1.94	Spike	P	0 - 30
LFB	Acetochlor	15.9	LCS	P	0 - 30
LFB	Alachlor	18.5	LCS	P	0 - 30
LFB	Ametryn	14.4	LCS	P	0 - 30
LFB	Atrazine	15.9	LCS	P	0 - 30
LFB	Atrazine Desethyl	11.5	LCS	P	0 - 30
LFB	Azinphos Methyl	9.43	LCS	P	0 - 30
LFB	Bromacil	13.0	LCS	P	0 - 30
LFB	Butylate	8.11	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	13.4	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	12.6	LCS	P	0 - 30
LFB	Cyanazine	14.9	LCS	P	0 - 30
LFB	Demeton	7.25	LCS	P	0 - 30
LFB	Diazinon	17.3	LCS	P	0 - 30
LFB	Disulfoton	7.71	LCS	P	0 - 30
LFB	EPTC	7.10	LCS	P	0 - 30
LFB	Ethion	12.3	LCS	P	0 - 30
LFB	Ethoprop	18.6	LCS	P	0 - 30
LFB	Fenamiphos	13.2	LCS	P	0 - 30
LFB	Fipronil	13.2	LCS	P	0 - 30
LFB	Fipronil Sulfide	18.0	LCS	P	0 - 30
LFB	Fipronil Sulfone	10.9	LCS	P	0 - 30
LFB	Fonofos	16.5	LCS	P	0 - 30
LFB	Hexazinone	2.31	LCS	P	0 - 30
LFB	Malathion	3.75	LCS	P	0 - 30
LFB	Metalaxyl	14.9	LCS	P	0 - 30
LFB	Metolachlor	18.8	LCS	P	0 - 30
LFB	Metribuzin	15.9	LCS	P	0 - 30
LFB	Mevinphos	15.3	LCS	P	0 - 30
LFB	Molinate	12.9	LCS	P	0 - 30
LFB	Norflurazon	14.2	LCS	P	0 - 30
LFB	Parathion Ethyl	11.6	LCS	P	0 - 30
LFB	Parathion Methyl	6.81	LCS	P	0 - 30
LFB	Pendimethalin	12.3	LCS	P	0 - 30
LFB	Phorate	22.8	LCS	P	0 - 30
LFB	Prometon	19.5	LCS	P	0 - 30
LFB	Prometryn	13.8	LCS	P	0 - 30
LFB	Simazine	16.8	LCS	P	0 - 30
LFB	Terbufos	15.4	LCS	P	0 - 30
LFB	Terbutylazine	14.1	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P324073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893803	Chlordane	8.10	Spike	P	0 - 30
1893803	Toxaphene	3.05	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P324073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Chlordane	9.10	LCS	P	0 - 30
LFB	Toxaphene	1.96	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P324033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1892645	Pyraclostrobin	8.87	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P324039

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1892980	Glyphosate	2.86	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P324163

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893377	Sucralose	4.12	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P324145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893700	Color (true)	10.9	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P324858

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1895081	Total Alkalinity	0.811	Sample	P	0 - 4.8

Reference Method: SM 2320 B-97
Batch ID: P325142

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893811	Total Alkalinity	0.0609	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P325036

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893464	TDS	0.864	Sample	P	0 - 10

Quality Assurance Report Precision

Reference Method: SM 2540 C-97
Batch ID: P325073

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893785	TDS	0.816	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P324861

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1895081	Fluoride	0.0	Spike	P	0 - 3.0

Reference Method: SM 4500 F-C-97
Batch ID: P325146

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893811	Fluoride	2.46	Spike	P	0 - 3.0

Reference Method: SM 5310 B-00
Batch ID: P324283

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893581	Organic Carbon	0.214	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P324768

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1896326	Organic Carbon	0.809	Spike	P	0 - 20

Reference Method: USGS O-2060-01
Batch ID: P324171

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1893801	2,4-D	3.17	Spike	P	0 - 30
1893801	Acetaminophen	4.09	Spike	P	0 - 30
1893801	Bentazon	6.47	Spike	P	0 - 30
1893801	Carbamazepine	3.95	Spike	P	0 - 30
1893801	Diuron	9.28	Spike	P	0 - 30
1893801	Fenuron	2.61	Spike	P	0 - 30
1893801	Fluridone	5.75	Spike	P	0 - 30
1893801	Imidacloprid	7.60	Spike	P	0 - 30
1893801	Linuron	1.56	Spike	P	0 - 30
1893801	MCP	6.98	Spike	P	0 - 30
1893801	Primidone	4.20	Spike	P	0 - 30
1893801	Triclopyr	7.72	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: 1893801
Field Sample ID: G2NE078104262017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Glyphosate 13C 15N	48.2	P	40 - 150
EPA 8321B	Sucralose-d6	106	P	40 - 150
USGS O-2060-01	2,4-D-d3	61.9	P	30 - 150
USGS O-2060-01	Acetaminophen-d4	87.1	P	30 - 150
USGS O-2060-01	Carbamazepine-d10	96.7	P	30 - 160
USGS O-2060-01	Diuron-d6	93.8	P	30 - 150
USGS O-2060-01	Primidone-d5	91.4	P	30 - 150

Lab Sample ID: 1893802
Field Sample ID: G2NE078104262017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Diuron-d6	98.6	P	30 - 150

Lab Sample ID: 1893803
Field Sample ID: G2NE078104262017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	47.0	F	51 - 123
EPA 8270D	Tetrachloro-m-xylene	30.2	F	31 - 111
EPA 8276	Decachlorobiphenyl	42.3	P	41 - 106

Lab Sample ID: 1893804
Field Sample ID: G2NE078104262017

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Malathion-d7	110	P	62 - 132
EPA 8270D	Simazine-d10	100	P	72 - 127

Quality Assurance Report Calibration Verification

Reference Method: SM 2120 B
Run ID: A76036
Included Lab Sample IDs: 1893785, 1893786, 1893791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	94.3	98.5	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A76048
Included Lab Sample IDs: 1893789, 1893790, 1893793

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	98.0	98.1	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A76055
Included Lab Sample IDs: 1893785, 1893786, 1893791

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

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A76055

Included Lab Sample IDs: 1893785, 1893786, 1893791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	100	100	P/P	95 - 105
Turbidity	99.0	100	P/P	95 - 105

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76071

Included Lab Sample IDs: 1893787, 1893788, 1893792

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

Reference Method: EPA 8321B

Run ID: A76073

Included Lab Sample IDs: 1893801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Glyphosate	117	114	P/P	70 - 160

Reference Method: EPA 8321B

Run ID: A76074

Included Lab Sample IDs: 1893801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	122	119	P/P	60 - 150

Reference Method: SM 5310 B-00

Run ID: A76081

Included Lab Sample IDs: 1893787

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76094

Included Lab Sample IDs: 1893788, 1893792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	103	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76117

Included Lab Sample IDs: 1893787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76133

Included Lab Sample IDs: 1893787

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76133

Included Lab Sample IDs: 1893787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.7	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A76140

Included Lab Sample IDs: 1893803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.9		P	80 - 120
Toxaphene	109		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76146

Included Lab Sample IDs: 1893788

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76183

Included Lab Sample IDs: 1893787

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	99.0	99.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76185

Included Lab Sample IDs: 1893788

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76191

Included Lab Sample IDs: 1893792

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76206

Included Lab Sample IDs: 1893792

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76229

Included Lab Sample IDs: 1893805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Arsenic	100	99.2	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A76229

Included Lab Sample IDs: 1893805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cadmium	101	103	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Copper	101	94.6	P/P	90 - 110
Lead	102	99.9	P/P	90 - 110
Nickel	102	95.0	P/P	90 - 110
Silver	101	101	P/P	90 - 110
Zinc	102	97.0	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A76230

Included Lab Sample IDs: 1893788, 1893792

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.8	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A76248

Included Lab Sample IDs: 1893802

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pyraclostrobin	103	114	P/P	60 - 150

Reference Method: SM 2320 B-97

Run ID: A76258

Included Lab Sample IDs: 1893786, 1893791

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

Reference Method: SM 4500 F-C-97

Run ID: A76258

Included Lab Sample IDs: 1893786, 1893791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	99.5	98.5	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A76269

Included Lab Sample IDs: 1893785, 1893786, 1893791

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	101	101	P/P	90 - 110
Chloride	99.0	101	P/P	90 - 110
Sulfate	95.7	97.3	P/P	90 - 110
Sulfate	97.3	96.5	P/P	90 - 110

Reference Method: EPA 8270D

Run ID: A76297

Included Lab Sample IDs: 1893803

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

Reference Method: EPA 8270D

Run ID: A76297

Included Lab Sample IDs: 1893803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.2		P	80 - 120
Alpha-BHC	97.4		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	98.0		P	80 - 120
Carbophenothion	95.7		P	80 - 120
Chlorothalonil	97.3		P	80 - 120
Cypermethrin	88.0		P	80 - 120
DDD-p,p'	95.7		P	80 - 120
DDE-p,p'	102		P	80 - 120
DDT-p,p'	108		P	80 - 120
Delta-BHC	102		P	80 - 120
Dicofol	98.2		P	80 - 120
Dieldrin	98.9		P	80 - 120
Endosulfan I	98.1		P	80 - 120
Endosulfan II	87.1		P	80 - 120
Endosulfan Sulfate	92.8		P	80 - 120
Endrin	97.2		P	80 - 120
Endrin Ketone	93.1		P	80 - 120
Gamma-BHC	99.2		P	80 - 120
Gamma-Chlordane	100		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	99.1		P	80 - 120
Methoxychlor	108		P	80 - 120
Mirex	101		P	80 - 120
Permethrin	91.7		P	80 - 120
Trifluralin	98.1		P	80 - 120

Reference Method: EPA 8270D

Run ID: A76310

Included Lab Sample IDs: 1893804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.5		P	80 - 120
Alachlor	95.0		P	80 - 120
Ametryn	93.6		P	80 - 120
Atrazine	96.4		P	80 - 120
Atrazine Desethyl	93.6		P	80 - 120
Azinphos Methyl	89.5		P	80 - 120
Bromacil	106		P	80 - 120
Butylate	82.2		P	80 - 120
Chlorpyrifos Ethyl	92.6		P	80 - 120
Chlorpyrifos Methyl	102		P	80 - 120
Cyanazine	77.9*		F	80 - 120
Demeton	77.5*		F	80 - 120
Diazinon	81.1		P	80 - 120
Disulfoton	93.1		P	80 - 120
EPTC	90.3		P	80 - 120
Ethion	92.7		P	80 - 120
Ethoprop	94.0		P	80 - 120
Fenamiphos	91.7		P	80 - 120
Fipronil	94.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270D

Run ID: A76310

Included Lab Sample IDs: 1893804

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fipronil Sulfide	96.1		P	80 - 120
Fipronil Sulfone	98.0		P	80 - 120
Fonofos	94.2		P	80 - 120
Hexazinone	100		P	80 - 120
Malathion	88.8		P	80 - 120
Metalaxyl	90.8		P	80 - 120
Metolachlor	96.3		P	80 - 120
Metribuzin	91.8		P	80 - 120
Mevinphos	96.9		P	80 - 120
Molinate	88.1		P	80 - 120
Norflurazon	92.4		P	80 - 120
Parathion Ethyl	113		P	80 - 120
Parathion Methyl	96.1		P	80 - 120
Pendimethalin	92.7		P	80 - 120
Phorate	99.5		P	80 - 120
Prometon	90.8		P	80 - 120
Prometryn	95.3		P	80 - 120
Simazine	94.3		P	80 - 120
Terbufos	94.9		P	80 - 120
Terbutylazine	118		P	80 - 120

Reference Method: EPA 8270D

Run ID: A76326

Included Lab Sample IDs: 1893803

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Endrin Aldehyde	95.3		P	80 - 120

Reference Method: SM 2320 B-97

Run ID: A76363

Included Lab Sample IDs: 1893785

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	104	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A76363

Included Lab Sample IDs: 1893785

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A76366

Included Lab Sample IDs: 1893805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.1	99.8	P/P	90 - 110
Iron	102	101	P/P	90 - 110
Magnesium	102	100	P/P	90 - 110
Potassium	103	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4
Run ID: A76428
Included Lab Sample IDs: 1893805

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sodium	100	98.2	P/P	90 - 110

Reference Method: USGS O-2060-01
Run ID: A76477
Included Lab Sample IDs: 1893801

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	92.4	88.4	P/P	50 - 150
Acetaminophen	108	108	P/P	60 - 150
Bentazon	86.8	82.8	P/P	50 - 150
Carbamazepine	93.2	106	P/P	60 - 150
Diuron	118	114	P/P	60 - 150
Fenuron	107	104	P/P	60 - 150
Fluridone	118	116	P/P	60 - 150
Imidacloprid	102	110	P/P	60 - 150
Linuron	103	94.0	P/P	60 - 150
MCPP	90.8	89.6	P/P	50 - 150
Primidone	91.6	99.6	P/P	60 - 150
Triclopyr	89.6	91.2	P/P	50 - 150

* Pass/Fail determinations are made for each bracketing calibration verification check.
Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.
Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
EPA 180.1 Rev. 2.0	Turbidity				4.06	
	Turbidity				3.78	
EPA 200.7 Rev. 4.4	Calcium	102				1.24
	Iron	103	102 98.8			2.92
	Magnesium	103				0.977
	Potassium	102				3.15
	Sodium	105				1.66
EPA 200.8 Rev. 5.4	Arsenic	101	108 107			0.533
	Cadmium	103	102 104			1.46
	Chromium	100	88.1 88.5			0.491
	Copper	99.0	93.0 91.3			1.78
	Lead	102	106 106			0.0408
	Nickel	102	98.0 97.6			0.404
	Silver	99.4	91.3 91.7			0.409
	Zinc	100	90.3 91.1			0.847
EPA 300.0 Rev. 2.1	Chloride	99.4	97.5 98.0		0.217	
	Chloride	98.8	98.1 99.3		0.118	
	Sulfate	95.2	93.7 95.4		0.173	
	Sulfate	95.1	94.6 93.9		0.428	
EPA 350.1 Rev. 2.0	Ammonia-N	102	105 104			0.844
	Ammonia-N	104	107 107			0.0068

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision	MS
							SMP	
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	96.9		95.3	94.0			1.13
	Kjeldahl Nitrogen	101		101	102			1.11
	Kjeldahl Nitrogen	101		99.0	98.3			0.609
EPA 353.2 Rev. 2.0	NO2NO3-N	106		106	108			1.41
	NO2NO3-N	102		101				0.348
EPA 365.1 Rev. 2.0	Total-P	102		106	106			0.179
	Total-P	98.0		91.8	90.5			1.37
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.7		95.8	95.6			0.188
	O-Phosphate-P	98.4		96.8	97.6			0.823
EPA 8270D	Acetochlor	105	89.2	99.0	98.8	15.9		0.220
	Alachlor	102	84.5	92.5	92.4	18.5		0.128
	Aldrin	49.7	46.3	59.2	70.7	7.13		17.6
	Alpha-BHC	93.1	92.6	86.6	110	0.503		24.0
	Alpha-Chlordane	94.0	86.3	75.0	88.4	8.54		16.5
	Ametryn	126	109	122	125	14.4		2.89
	Atrazine	108	92.0	99.3	97.3	15.9		1.67
	Atrazine Desethyl	76.0	67.8	65.9	61.9	11.5		6.24
	Azinphos Methyl	144	131	147	127	9.43		14.3
	Beta-BHC	107	107	89.2	109	0.0541		20.0
	Bromacil	88.1	77.3	92.7	92.1	13.0		0.607
	Butylate	52.5	48.4	41.4	39.2	8.11		5.36
	Carbophenothion	109	110	125	147	1.12		16.1
	Chlorothalonil	23.8	61.7	148	153	88.5		3.21
	Chlorpyrifos Ethyl	99.8	87.2	93.3	93.3	13.4		0.0469
	Chlorpyrifos Methyl	97.7	86.1	89.3	85.7	12.6		4.12
	Cyanazine	122	105	115	109	14.9		5.56
	Cypermethrin	101	83.2	109	140	18.9		24.6
	DDD-p,p'	100	91.7	78.7	95.2	9.11		19.0
	DDE-p,p'	92.0	89.0	68.5	85.6	3.27		22.2
	DDT-p,p'	98.8	95.4	68.7	79.0	3.56		13.9
	Delta-BHC	124	127	116	135	2.40		14.4
	Demeton	102	94.6	96.9	94.3	7.25		2.64
	Diazinon	101	84.5	97.6	97.4	17.3		0.233
	Dicofol	44.1	33.8	11.8	20.1	26.5		51.9
	Dieldrin	92.6	85.6	72.3	85.5	7.84		16.7
	Disulfoton	99.3	92.0	98.6	89.5	7.71		9.59
	Endosulfan I	100	95.3	84.3	96.8	5.08		13.8
	Endosulfan II	102	98.3	88.6	105	3.73		17.2
	Endosulfan Sulfate	95.2	93.0	86.4	96.2	2.32		10.7
	Endrin	102	91.2	84.6	87.7	11.7		3.50
	Endrin Aldehyde	89.3	82.8	81.3	96.8	7.60		17.4
	Endrin Ketone	93.6	91.1	90.6	110	2.71		19.3
	EPTC	51.4	47.9	39.7	37.3	7.10		6.18
	Ethion	126	112	120	117	12.3		2.84
	Ethoprop	103	85.1	96.8	93.6	18.6		3.40
	Fenamiphos	150	131	143	141	13.2		1.13
	Fipronil	113	99.2	113	108	13.2		3.59
	Fipronil Sulfide	106	88.1	99.5	91.9	18.0		8.01
	Fipronil Sulfone	102	91.1	100	90.2	10.9		9.15
	Fonofos	97.9	82.9	95.5	89.3	16.5		6.72
	Gamma-BHC	103	102	84.0	103	0.727		20.4
	Gamma-Chlordane	91.1	82.9	74.9	87.6	9.39		15.6
	Heptachlor	76.6	73.7	66.6	73.5	3.87		9.76
	Heptachlor Epoxide	94.2	87.8	75.6	88.9	7.04		16.2

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270D	Hexazinone	93.3	95.5	94.1	87.9	2.31	6.02
	Malathion	102	98.5	103	92.9	3.75	10.8
	Metalaxyl	98.8	85.1	96.7	95.4	14.9	1.37
	Methoxychlor	108	100	80.3	93.5	7.65	15.1
	Metolachlor	110	91.1	97.9	101	18.8	2.56
	Metribuzin	111	94.2	104	98.0	15.9	5.54
	Mevinphos	95.4	81.9	95.6	84.4	15.3	12.4
	Mirex	77.1	72.4	64.5	78.7	6.35	19.8
	Molinate	63.3	55.7	54.5	52.2	12.9	4.39
	Norflurazon	112	97.5	114	105	14.2	7.92
	Parathion Ethyl	98.7	87.9	98.1	90.6	11.6	7.92
	Parathion Methyl	91.9	85.8	91.6	85.6	6.81	6.78
	Pendimethalin	97.4	86.1	99.3	93.9	12.3	5.61
	Permethrin	99.6	83.3	98.9	124	17.8	22.2
	Phorate	109	87.1	97.3	95.5	22.8	1.87
	Prometon	115	94.8	115	112	19.5	2.69
	Prometryn	118	102	116	115	13.8	0.528
	Simazine	105	88.9	94.0	89.3	16.8	5.17
	Terbufos	100	85.9	96.1	93.2	15.4	3.08
	Terbuthylazine	99.0	86.0	92.3	90.5	14.1	1.94
EPA 8276	Trifluralin	147	126	139	176	15.4	23.7
	Chlordane	77.2	84.6	83.4	76.9	9.10	8.10
	Toxaphene	92.7	90.9	115	112	1.96	3.05
EPA 8321B	Glyphosate	129		124	128		2.86
	Pyraclostrobin	94.4		94.2	86.2		8.87
	Sucralose	73.6		109	114		4.12
SM 2120 B	Color (true)					10.9	
SM 2320 B-97	Total Alkalinity	103				0.811	
	Total Alkalinity	103				0.0609	
SM 2540 C-97	TDS					0.864	
	TDS					0.816	
SM 4500 F-C-97	Fluoride	97.4		98.1	98.1		0.0
	Fluoride	96.7		99.4	103		2.46
SM 5310 B-00	Organic Carbon	103		103	103		0.214
	Organic Carbon	99.0		102	103		0.809
USGS O-2060-01	2,4-D	69.0		64.9	67.1		3.17
	Acetaminophen	43.4		87.4	91.4		4.09
	Bentazon	47.0		52.8	56.6		6.47
	Carbamazepine	114		103	107		3.95
	Diuron	119		88.9	98.4		9.28
	Fenuron	106		81.5	83.8		2.61
	Fluridone	99.5		81.5	86.4		5.75
	Imidacloprid	108		183	198		7.60
	Linuron	106		97.5	95.9		1.56
	MCPD	74.2		57.6	61.7		6.98
	Primidone	99.7		103	107		4.20
	Triclopyr	74.9		58.8	63.5		7.72

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1893785, 1893786, 1893791

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	1893805
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	1893805
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1893785, 1893786, 1893791
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1893785, 1893786, 1893791
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1893787, 1893788, 1893792
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1893787, 1893788, 1893792
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1893787, 1893788, 1893792
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1893787, 1893788, 1893792
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1893789, 1893790, 1893793
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	1893803
EPA 8270D / E31780	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	1893804
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	1893803
EPA 8321B / E31780	Glyphosate in water matrices by HPLC/MS/MS	1893801
EPA 8321B / E31780	Pyraclostrobin in water matrices by HPLC/MS/MS	1893802
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1893801
SM 2120 B / E31780	True Color measured at 450 nm	1893785, 1893786, 1893791
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1893785, 1893786, 1893791
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1893785, 1893786, 1893791
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1893785, 1893786, 1893791
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1893785, 1893786, 1893791
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1893787, 1893788, 1893792
USGS O-2060-01 / E31780	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	1893801
USGS O-2060-01 / E31780	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	1893801

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	04/27/2017			04/27/2017 16:59	Sima Feizi	1893785, 1893786, 1893791
EPA 200.7 Rev. 4.4	04/27/2017	05/03/2017	Elliott D. Healy	05/11/2017	Martin Acosta	1893805
	04/27/2017	05/03/2017	Elliott D. Healy	05/12/2017	Martin Acosta	1893805
EPA 200.8 Rev. 5.4	04/27/2017	05/03/2017	Elliott D. Healy	05/05/2017	Betina Topolski	1893805
EPA 300.0 Rev. 2.1	04/27/2017			05/08/2017	Ping Hua	1893785
	04/27/2017			05/09/2017	Ping Hua	1893786, 1893791
EPA 350.1 Rev. 2.0	04/27/2017			04/28/2017	Julie Michelle Frank	1893787, 1893788, 1893792
EPA 351.2 Rev. 2.0	04/27/2017	05/01/2017	Adrian Shelby	05/02/2017	Joseph Suarez	1893787
	04/27/2017	05/01/2017	Adrian Shelby	05/03/2017	Joseph Suarez	1893788
	04/27/2017	05/02/2017	Adrian Shelby	05/05/2017	Joseph Suarez	1893792
EPA 353.2 Rev. 2.0	04/27/2017			05/01/2017	Beverly Y. Sanders	1893788, 1893792
	04/27/2017			05/02/2017	Beverly Y. Sanders	1893787
EPA 365.1 Rev. 2.0	04/27/2017	05/02/2017	Adrian Shelby	05/04/2017	Lipi Saha	1893787
	04/27/2017	05/03/2017	Vijayalakshmi Reddy	05/04/2017	Lipi Saha	1893788, 1893792
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	04/27/2017	04/28/2017	Fe-Val Siddell	05/10/2017	Marek Topolski	1893803
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EPA 8321B	04/27/2017	04/28/2017	Mohammad Ghaffari	04/28/2017	Mohammad Ghaffari	1893801
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