

Chemical Analysis Report

NE-DIST-2019-05-16-01

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

Event Description: **LSJR West**
Request ID: **RQ-2019-05-13-20**
Customer: **NE-DIST**
Project ID: **SMP**

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Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 05-JUN-2019 14:03



Case Narrative

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

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

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

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

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

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

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

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

Precision is reported as relative percent difference unless otherwise noted.

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

QC Codes used in this report may include:

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

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

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

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

Sample Location: Williamson cr. 300m below Jammes rd.

Collection Date/Time: 05/15/2019 09:30

Field ID: G2NE1165

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086690	EPA 180.1 Rev. 2.0	Turbidity	3.9	A	NTU	P364092	
	EPA 300.0 Rev. 2.1	Chloride	40		mg Cl/L	P364201	
		Sulfate	20		mg SO4/L	P364203	
		Color (true)	39		PCU	P364096	
	SM 2120 B	Total Alkalinity	90		mg CaCO3/L	P364310	
	SM 2540 C-97	TDS	213	A	mg/L	P364441	
	SM 2540 D-97	TSS	2	UA	mg/L	P364347	
	SM 4500 F-C-97	Fluoride	0.079	I	mg F/L	P364314	
2086693	EPA 350.1 Rev. 2.0	Ammonia-N	0.97		mg N/L	P364549	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.8		mg N/L	P364561	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.23		mg N/L	P364301	
	EPA 365.1 Rev. 2.0	Total-P	0.082		mg P/L	P364473	
	SM 5310 B-00	Organic Carbon	7.5		mg C/L	P364198	
2086696	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.040		mg P/L	P364085	
2086727	EPA 200.7 Rev. 4.4	Barium	39.3		ug/L	P364222	
		Calcium	40.2		mg/L	P364222	
		Iron	990		ug/L	P364222	
		Magnesium	3.39		mg/L	P364222	
		Potassium	1.8		mg/L	P364222	
		Sodium	25.9		mg/L	P364222	
		Zinc	5.0	U	ug/L	P364222	
	EPA 200.8 Rev. 5.4	Aluminum	33		ug/L	P364222	
		Antimony	0.11	I	ug/L	P364222	
		Arsenic	0.76		ug/L	P364222	
		Boron**	90.0		ug/L	P364222	
		Cadmium	0.020	U	ug/L	P364222	
		Chromium	0.40	U	ug/L	P364222	
		Copper	0.75	I	ug/L	P364222	
		Lead	0.20	U	ug/L	P364222	
		Nickel	0.50	U	ug/L	P364222	
		Selenium	0.20	U	ug/L	P364222	
		Silver	0.010	U	ug/L	P364222	
		Thallium	0.10	U	ug/L	P364222	

Ref. Method and Comment:

SM 2120 B: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: WILLS BR at Watergate rd.

Collection Date/Time: 05/15/2019 10:00

Field ID: G2NE1183

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086687	EPA 180.1 Rev. 2.0	Turbidity	2.2		NTU	P364091	
	EPA 300.0 Rev. 2.1	Chloride	350		mg Cl/L	P364201	
		Sulfate	65		mg SO4/L	P364203	
		Color (true)	38		PCU	P364096	
	SM 2320 B-97	Total Alkalinity	99		mg CaCO3/L	P364310	
	SM 2540 C-97	TDS	752		mg/L	P364440	
	SM 2540 D-97	TSS	2	I	mg/L	P364346	
	SM 4500 F-C-97	Fluoride	0.15		mg F/L	P364314	
2086688	EPA 350.1 Rev. 2.0	Ammonia-N	0.063		mg N/L	P364325	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.72		mg N/L	P364559	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.098		mg N/L	P364301	
	EPA 365.1 Rev. 2.0	Total-P	0.16		mg P/L	P364473	
	SM 5310 B-00	Organic Carbon	8.4		mg C/L	P364198	
2086689	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.053		mg P/L	P364085	
2086726	EPA 200.7 Rev. 4.4	Barium	43.6		ug/L	P364222	
		Calcium	46.6		mg/L	P364222	
		Iron	440		ug/L	P364222	
		Magnesium	26.5		mg/L	P364222	
		Potassium	8.6		mg/L	P364222	
		Sodium	196		mg/L	P364222	
		Zinc	5.0	U	ug/L	P364222	
	EPA 200.8 Rev. 5.4	Aluminum	47		ug/L	P364222	
		Antimony	0.24		ug/L	P364222	
		Arsenic	1.39		ug/L	P364222	
		Boron**	126		ug/L	P364222	
		Cadmium	0.020	U	ug/L	P364222	
		Chromium	0.40	U	ug/L	P364222	
		Copper	1.06		ug/L	P364222	
		Lead	0.30	I	ug/L	P364222	
		Nickel	0.58	I	ug/L	P364222	
		Selenium	0.20	U	ug/L	P364222	
		Silver	0.010	U	ug/L	P364222	
		Thallium	0.10	U	ug/L	P364222	

Ref. Method and Comment:

SM 2120 B: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: YELLOW WATER CR AT SR 228

Collection Date/Time: 05/15/2019 10:35

Field ID: 20030549

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086691	EPA 180.1 Rev. 2.0	Turbidity	5.8		NTU	P364092	
	EPA 300.0 Rev. 2.1	Chloride	11		mg Cl/L	P364201	
		Sulfate	3.4		mg SO4/L	P364203	
	SM 2120 B	Color (true)	79	A	PCU	P364097	
	SM 2320 B-97	Total Alkalinity	30		mg CaCO3/L	P364310	
	SM 2540 C-97	TDS	82		mg/L	P364440	
	SM 2540 D-97	TSS	3	I	mg/L	P364346	
	SM 4500 F-C-97	Fluoride	0.056	I	mg F/L	P364314	
2086694	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P364325	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P364561	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.043		mg N/L	P364301	
	EPA 365.1 Rev. 2.0	Total-P	0.037		mg P/L	P364473	
	SM 5310 B-00	Organic Carbon	6.8		mg C/L	P364198	
2086697	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.019		mg P/L	P364085	
2086728	EPA 200.7 Rev. 4.4	Barium	25.5		ug/L	P364222	
		Calcium	11.2		mg/L	P364222	
		Iron	1.23E+03		ug/L	P364222	
		Magnesium	2.33		mg/L	P364222	
		Potassium	0.81	I	mg/L	P364222	
		Sodium	7.1		mg/L	P364222	
		Zinc	5.0	U	ug/L	P364222	
	EPA 200.8 Rev. 5.4	Aluminum	187		ug/L	P364222	
		Antimony	0.050	U	ug/L	P364222	
		Arsenic	0.34		ug/L	P364222	
		Boron**	15.9		ug/L	P364222	
		Cadmium	0.020	U	ug/L	P364222	
		Chromium	0.51	I	ug/L	P364222	
		Copper	0.50	I	ug/L	P364222	
		Lead	0.49		ug/L	P364222	
		Nickel	0.50	U	ug/L	P364222	
		Selenium	0.20	U	ug/L	P364222	
		Silver	0.010	U	ug/L	P364222	
		Thallium	0.10	U	ug/L	P364222	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: MCCOYS CR AT LELAND ST

Collection Date/Time: 05/15/2019 11:30

Field ID: 20030725

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086692	EPA 180.1 Rev. 2.0	Turbidity	4.2		NTU	P364092	
	EPA 300.0 Rev. 2.1	Chloride	24		mg Cl/L	P364201	
		Sulfate	50		mg SO4/L	P364203	
		Color (true)	16		PCU	P364097	
	SM 2320 B-97	Total Alkalinity	181		mg CaCO3/L	P364310	
	SM 2540 C-97	TDS	322		mg/L	P364440	
	SM 2540 D-97	TSS	2	I	mg/L	P364346	
	SM 4500 F-C-97	Fluoride	0.26		mg F/L	P364314	
2086695	EPA 350.1 Rev. 2.0	Ammonia-N	0.057		mg N/L	P364325	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.42		mg N/L	P364561	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.26		mg N/L	P364301	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P364473	
	SM 5310 B-00	Organic Carbon	6.0		mg C/L	P364198	
2086698	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.048		mg P/L	P364085	
2086729	EPA 200.7 Rev. 4.4	Barium	71.8		ug/L	P364222	
		Calcium	71.7		mg/L	P364222	
		Iron	530		ug/L	P364222	
		Magnesium	10.7		mg/L	P364222	
		Potassium	2.8		mg/L	P364222	
		Sodium	22.4		mg/L	P364222	
		Zinc	5.0	U	ug/L	P364222	
	EPA 200.8 Rev. 5.4	Aluminum	45		ug/L	P364222	
		Antimony	0.25		ug/L	P364222	
		Arsenic	1.60		ug/L	P364222	
		Boron**	76.6		ug/L	P364222	
		Cadmium	0.020	U	ug/L	P364222	
		Chromium	0.40	U	ug/L	P364222	
		Copper	0.76	I	ug/L	P364222	
		Lead	0.71		ug/L	P364222	
		Nickel	0.97	I	ug/L	P364222	
		Selenium	0.20	U	ug/L	P364222	
		Silver	0.010	U	ug/L	P364222	
		Thallium	0.10	U	ug/L	P364222	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: HOGAN CR @ WASHINGTON ST

Collection Date/Time: 05/15/2019 12:30

Field ID: 20030773

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086684	EPA 180.1 Rev. 2.0	Turbidity	3.2		NTU	P364091	
	EPA 300.0 Rev. 2.1	Chloride	1.7E+03		mg Cl/L	P364201	
		Sulfate	310		mg SO4/L	P364203	
	SM 2120 B	Color (true)	20		PCU	P364096	
	SM 2320 B-97	Total Alkalinity	140		mg CaCO3/L	P364310	
	SM 2540 C-97	TDS	3.27E+03		mg/L	P364440	
	SM 2540 D-97	TSS	4	I	mg/L	P364346	
	SM 4500 F-C-97	Fluoride	0.51		mg F/L	P364314	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.094		mg N/L	P364324	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.39	I	mg N/L	P364560	
2086685	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P364368	
	EPA 365.1 Rev. 2.0	Total-P	0.10		mg P/L	P364472	
	SM 5310 B-00	Organic Carbon	5.5		mg C/L	P364198	
	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.042		mg P/L	P364086	
	EPA 8321B	Aldicarb	0.020	U	ug/L	P363978	
2086686		Aldicarb Sulfone	0.0020	U	ug/L	P363978	
		Aldicarb Sulfoxide	0.0020	U	ug/L	P363978	MS
		Carbaryl	0.0020	U	ug/L	P363978	
		Carbofuran	0.0020	U	ug/L	P363978	
		3-Hydroxycarbofuran	0.0020	U	ug/L	P363978	
		Methiocarb	0.0020	U	ug/L	P363978	
		Methomyl	0.0020	U	ug/L	P363978	
		Oxamyl	0.0020	U	ug/L	P363978	
		Propoxur	0.0020	U	ug/L	P363978	
		2,4-D	0.0075	I	ug/L	P364056	
2086717		Acesulfame K**	0.10	UJ	ug/L	P364189	SUR
		AMPA**	2.4	I	ug/L	P364189	
		Sucralose**	0.24		ug/L	P364189	
		Acetaminophen**	0.024	I	ug/L	P364056	
		Endothall**	0.25	UJ	ug/L	P364189	SUR
		Glufosinate**	1.0	U	ug/L	P364189	
		Glyphosate**	3.5	I	ug/L	P364189	
		Bentazon	0.011		ug/L	P364056	
		Carbamazepine**	8.0E-04	U	ug/L	P364056	
		Diuron	0.0099		ug/L	P364056	
		Fenuron	0.016	U	ug/L	P364056	
		Fluridone**	0.0051		ug/L	P364056	
		Imazapyr**	0.057		ug/L	P364056	MS
		Hydrocodone**	0.0020	U	ug/L	P364056	
		Ibuprofen**	0.020	U	ug/L	P364056	
		Imidacloprid	0.011		ug/L	P364056	
		Linuron	0.0040	U	ug/L	P364056	
		MCP	0.0038	I	ug/L	P364056	MS

Field ID: 20030773

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086717	EPA 8321B	Naproxen**	0.0080	U	ug/L	P364056	
		Primidone**	0.0040	U	ug/L	P364056	
		Pyraclostrobin**	0.0020	U	ug/L	P364056	
		Triclopyr**	0.0040	U	ug/L	P364056	
2086723	EPA 8270D	Aldrin	4.1	U	ng/L	P364351	
		Alpha-BHC	2.1	UJ	ng/L	P364351	LCS
		Alpha-Chlordane	1.0	U	ng/L	P364351	
		Beta-BHC	10	UJ	ng/L	P364351	LCS
		Bifenthrin**	4.1	U	ng/L	P364351	
		Delta-BHC	10	U	ng/L	P364351	
		Gamma-BHC	10	U	ng/L	P364351	MS
		Carbophenothion	12	U	ng/L	P364351	
		Chlorothalonil	2.1	UJ	ng/L	P364351	CCV
		Cis-Nonachlor**	1.0	U	ng/L	P364351	
		Cypermethrin	21	U	ng/L	P364351	
		DDD-p,p'	8.3	U	ng/L	P364351	
		DDE-p,p'	8.3	U	ng/L	P364351	
		DDT-p,p'	10	U	ng/L	P364351	
		Dicofol	31	U	ng/L	P364351	
		Dieldrin	4.1	U	ng/L	P364351	
		Endosulfan I	4.1	U	ng/L	P364351	
		Endosulfan II	4.1	U	ng/L	P364351	MS
		Endosulfan Sulfate	2.1	U	ng/L	P364351	
		Endrin	2.1	U	ng/L	P364351	
		Endrin Aldehyde	2.1	UJ	ng/L	P364351	CCV
		Endrin Ketone	2.1	U	ng/L	P364351	
		Ethalfuralin**	3.1	U	ng/L	P364351	
		Gamma-Chlordane	1.0	U	ng/L	P364351	
		Heptachlor	1.5	U	ng/L	P364351	
		Heptachlor Epoxide	2.1	U	ng/L	P364351	
		Hexachlorobenzene**	2.1	U	ng/L	P364351	RPD
		Methoxychlor	4.1	U	ng/L	P364351	
		Mirex	2.1	U	ng/L	P364351	
		Permethrin	10	U	ng/L	P364351	
		Trans-Nonachlor**	1.0	U	ng/L	P364351	
		Trifluralin	2.6	U	ng/L	P364351	
		Chlordane	5.2	U	ng/L	P364351	
		Toxaphene	31	U	ng/L	P364351	
2086724	EPA 8270E	Acetochlor	0.25	U	ng/L	P364341	
		Alachlor	0.25	U	ng/L	P364341	
		Ametryn	0.61	U	ng/L	P364341	
		Atrazine	24		ng/L	P364341	
		Atrazine Desethyl	1.5	U	ng/L	P364341	
		Azinphos Methyl	5.1	U	ng/L	P364341	
		Bromacil	5.1		ng/L	P364341	

Field ID: 20030773

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086724	EPA 8270E	Butylate	0.40	U	ng/L	P364341	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P364341	
		Chlorpyrifos Methyl	0.10	UJ	ng/L	P364341	LCS
		Cyanazine	3.3	U	ng/L	P364341	
		Demeton	7.1	UJ	ng/L	P364341	LCS
		Diazinon	0.13	U	ng/L	P364341	
		Dimethenamid**	0.10	U	ng/L	P364341	
		Disulfoton	0.51	UJ	ng/L	P364341	LCS
		Dithiopyr**	0.10	U	ng/L	P364341	
		EPTC	1.3	UJ	ng/L	P364341	RPD
		Ethion	0.15	U	ng/L	P364341	
		Ethoprop	0.10	U	ng/L	P364341	
		Fenamiphos	0.51	UJ	ng/L	P364341	LCS, RPD
		Fipronil	0.47	I	ng/L	P364341	
		Fipronil Desulfinyl**	0.41	I	ng/L	P364341	
		Fipronil Sulfide	0.99		ng/L	P364341	
		Fipronil Sulfone	2.5	J	ng/L	P364341	LCS
		Fonofos	0.20	U	ng/L	P364341	
		Hexazinone	2.5	J	ng/L	P364341	LCS, MS, RPD
		Malathion	0.35	U	ng/L	P364341	
		Metalaxyl	0.30	UJ	ng/L	P364341	LCS, MS, RPD
		Metolachlor	5.4		ng/L	P364341	
		Metribuzin	14		ng/L	P364341	
		Mevinphos	0.51	U	ng/L	P364341	
		Molinate	0.30	U	ng/L	P364341	
		Norflurazon	0.51	U	ng/L	P364341	
		Oxadiazon**	0.42		ng/L	P364341	
		Parathion Ethyl	0.25	U	ng/L	P364341	
		Parathion Methyl	0.56	U	ng/L	P364341	
		Pendimethalin	1.0	U	ng/L	P364341	
		Phorate	0.25	UJ	ng/L	P364341	LCS
		Prodiamine**	0.20	IJ	ng/L	P364341	CCV
		Prometon	1.0	IJ	ng/L	P364341	LCS, RPD
		Prometryn	0.20	U	ng/L	P364341	
		Simazine	1.1	I	ng/L	P364341	
		Tebuconazole**	0.88	I	ng/L	P364341	
		Terbufos	0.10	UJ	ng/L	P364341	LCS
		Terbuthylazine	0.43	U	ng/L	P364341	
2086725	EPA 200.7 Rev. 4.4	Barium	42.5		ug/L	P364222	
		Calcium	89.0		mg/L	P364222	
		Iron	380		ug/L	P364222	
		Magnesium	130		mg/L	P364222	
		Potassium	36		mg/L	P364222	
		Sodium	968		mg/L	P364222	

Field ID: 20030773

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2086725	EPA 200.7 Rev. 4.4	Zinc	5.0	U	ug/L	P364222	
	EPA 200.8 Rev. 5.4	Aluminum	36		ug/L	P364222	
		Antimony	0.16	I	ug/L	P364222	
		Arsenic	0.87		ug/L	P364222	
		Boron**	441		ug/L	P364222	
		Cadmium	0.020	U	ug/L	P364222	
		Chromium	0.40	U	ug/L	P364222	
		Copper	1.25		ug/L	P364222	
		Lead	1.15		ug/L	P364222	
		Nickel	0.50	U	ug/L	P364222	
		Selenium	0.20	U	ug/L	P364222	
		Silver	0.010	U	ug/L	P364222	
		Thallium	0.10	U	ug/L	P364222	

Ref. Method and Comment:

SM 2120 B: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MDL for some parameters elevated due to matrix interference. Refer to the narrative for an explanation of QC Codes. Surrogate spike recovery exceeding the control limits. Results confirmed in sample duplicate.

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

EPA 8270E: MS accuracy for atrazine, simazine, and fipronil sulfone not assessed due to high content of this parameter in the sample spiked. Refer to the narrative for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364091

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364092

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364222

Component	Result	Code	Units
Barium	1.0	U	ug/L
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364222

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364201

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364203

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364324

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364325

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364549

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364560

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364561

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364301

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364368

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364472

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364473

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364085

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364086

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

Reference Method: EPA 8270D
Batch ID: P364351

Component	Result	Code	Units
Aldrin	4.0	U	ng/L
Alpha-BHC	2.0	U	ng/L
Alpha-Chlordane	1.0	U	ng/L
Beta-BHC	10	U	ng/L
Bifenthrin	4.0	U	ng/L
Carbophenothion	12	U	ng/L
Chlorothalonil	2.0	U	ng/L
Cis-Nonachlor	1.0	U	ng/L
Cypermethrin	20	U	ng/L
DDD-p,p'	8.0	U	ng/L
DDE-p,p'	8.0	U	ng/L
DDT-p,p'	10	U	ng/L
Delta-BHC	10	U	ng/L
Dicofol	30	U	ng/L
Dieldrin	4.0	U	ng/L
Endosulfan I	4.0	U	ng/L
Endosulfan II	4.0	U	ng/L
Endosulfan Sulfate	2.0	U	ng/L
Endrin	2.0	U	ng/L
Endrin Aldehyde	2.0	U	ng/L
Endrin Ketone	2.0	U	ng/L
Ethalfuralin	3.0	U	ng/L
Gamma-BHC	10	U	ng/L
Gamma-Chlordane	1.0	U	ng/L
Heptachlor	1.5	U	ng/L
Heptachlor Epoxide	2.0	U	ng/L
Hexachlorobenzene	2.0	U	ng/L
Methoxychlor	4.0	U	ng/L
Mirex	2.0	U	ng/L
Permethrin	10	U	ng/L
Trans-Nonachlor	1.0	U	ng/L
Trifluralin	2.5	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P364341

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Azinphos Methyl	5.0	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.10	U	ng/L
Cyanazine	3.2	U	ng/L
Demeton	7.0	U	ng/L
Diazinon	0.12	U	ng/L
Dimethenamid	0.10	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.10	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Fenamiphos	0.50	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Malathion	0.35	U	ng/L
Metaxyl	0.30	U	ng/L
Metolachlor	0.50	U	ng/L
Metribuzin	0.75	U	ng/L
Mevinphos	0.50	U	ng/L
Molinate	0.30	U	ng/L
Norflurazon	0.50	U	ng/L
Oxadiazon	0.10	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Phorate	0.25	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Simazine	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbutylazine	0.42	U	ng/L

Reference Method: EPA 8276
Batch ID: P364351

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8321B
Batch ID: P363978

Component	Result	Code	Units
3-Hydroxycarbofuran	0.0020	U	ug/L
Aldicarb	0.020	U	ug/L
Aldicarb Sulfone	0.0020	U	ug/L
Aldicarb Sulfoxide	0.0020	U	ug/L
Carbaryl	0.0020	U	ug/L
Carbofuran	0.0020	U	ug/L
Methiocarb	0.0020	U	ug/L
Methomyl	0.0020	U	ug/L
Oxamyl	0.0020	U	ug/L
Propoxur	0.0020	U	ug/L

Reference Method: EPA 8321B
Batch ID: P364056

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P364189

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: SM 2120 B
Batch ID: P364096

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Quality Assurance Report

Method Blank Results

Reference Method: SM 2120 B
Batch ID: P364097

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P364310

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

Reference Method: SM 2540 C-97
Batch ID: P364440

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 C-97
Batch ID: P364441

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P364346

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P364347

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P364314

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P364198

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Barium	100		P	85 - 115
Calcium	106		P	85 - 115
Iron	103		P	85 - 115
Magnesium	110		P	85 - 115
Potassium	102		P	85 - 115
Sodium	105		P	85 - 115
Zinc	98.9		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364222

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	101		P	85 - 115
Antimony	99.3		P	85 - 115
Arsenic	101		P	85 - 115
Boron	105		P	85 - 115
Cadmium	103		P	85 - 115
Chromium	97.7		P	85 - 115
Copper	98.7		P	85 - 115
Lead	95.6		P	85 - 115
Nickel	98.6		P	85 - 115
Selenium	101		P	85 - 115
Silver	102		P	85 - 115
Thallium	99.9		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364201

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	99.7		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364203

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364324

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: P364325

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364549

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364559

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364560

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364561

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364301

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364368

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364472

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364473

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364085

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	95.7		P	90 - 110

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364086

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	99.2		P	90 - 110

Reference Method: EPA 8270D
Batch ID: P364351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	57.2	49.6	P/P	20 - 93.0
Alpha-BHC	128	107	F/P	57 - 119
Alpha-Chlordane	88.4	83.1	P/P	58 - 112
Beta-BHC	159	152	F/F	56 - 149
Bifenthrin	106	98.4	P/P	50 - 130
Carbophenothion	40.4	43.8	P/P	26 - 147
Chlorothalonil	81.0	73.2	P/P	20 - 155
Cis-Nonachlor	88.4	85.6	P/P	50 - 130
Cypermethrin	91.5	94.6	P/P	40 - 137
DDD-p,p'	102	99.9	P/P	65 - 129
DDE-p,p'	85.1	80.7	P/P	57 - 116
DDT-p,p'	105	106	P/P	53 - 133
Delta-BHC	155	145	P/P	59 - 163
Dicofol	103	91.8	P/P	24 - 138
Dieldrin	95.3	93.6	P/P	60 - 120
Endosulfan I	100	92.6	P/P	64 - 118
Endosulfan II	115	107	P/P	58 - 142
Endosulfan Sulfate	108	101	P/P	60 - 127
Endrin	101	91.8	P/P	59 - 122
Endrin Aldehyde	99.5	84.2	P/P	49 - 132
Endrin Ketone	105	104	P/P	64 - 121
Ethalfuralin	94.1	76.0	P/P	50 - 130
Gamma-BHC	136	126	P/P	56 - 141
Gamma-Chlordane	86.6	80.3	P/P	56 - 110
Heptachlor	78.1	65.6	P/P	46 - 96.0
Heptachlor Epoxide	96.8	91.1	P/P	61 - 112
Hexachlorobenzene	79.8	60.4	P/P	50 - 130
Methoxychlor	126	124	P/P	63 - 134
Mirex	62.2	60.4	P/P	45 - 100
Permethrin	84.0	83.1	P/P	53 - 115
Trans-Nonachlor	81.0	77.0	P/P	50 - 130
Trifluralin	95.3	83.0	P/P	39 - 142

Reference Method: EPA 8270E
Batch ID: P364341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	103	98.3	P/P	71 - 121
Alachlor	102	95.3	P/P	72 - 119
Ametryn	93.7	83.4	P/P	47 - 144
Atrazine	105	95.5	P/P	75 - 123
Atrazine Desethyl	57.5	51.1	P/P	45 - 133
Azinphos Methyl	95.5	85.3	P/P	66 - 165
Bromacil	59.3	45.9	P/P	43 - 123
Butylate	71.3	53.6	P/P	27 - 83.0
Chlorpyrifos Ethyl	77.5	82.3	P/P	70 - 117

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P364341

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlorpyrifos Methyl	64.2	71.0	F/P	71 - 120
Cyanazine	81.6	72.2	P/P	34 - 264
Demeton	34.3	34.5	F/F	41 - 122
Diazinon	95.6	89.5	P/P	70 - 127
Dimethenamid	103	99.7	P/P	66 - 123
Disulfoton	33.3	36.9	F/F	56 - 127
Dithiopyr	101	93.7	P/P	67 - 125
EPTC	69.0	46.1	P/P	24 - 84.0
Ethion	105	103	P/P	53 - 132
Ethoprop	103	90.4	P/P	57 - 117
Fenamiphos	16.4	6.14	F/F	55 - 136
Fipronil	95.6	85.2	P/P	64 - 126
Fipronil Desulfinyl	98.2	92.4	P/P	47 - 114
Fipronil Sulfide	104	96.8	P/P	57 - 120
Fipronil Sulfone	125	96.2	F/P	52 - 115
Fonofos	70.9	61.6	P/P	61 - 121
Hexazinone	66.3	44.8	P/F	62 - 131
Malathion	100	98.2	P/P	67 - 126
Metalaxyl	5.36	10.5	F/F	54 - 128
Metolachlor	104	98.1	P/P	71 - 118
Metribuzin	78.1	81.1	P/P	42 - 221
Mevinphos	51.7	45.0	P/P	45 - 114
Molinate	84.3	65.4	P/P	33 - 91.0
Norflurazon	88.2	67.6	P/P	60 - 123
Oxadiazon	107	106	P/P	66 - 121
Parathion Ethyl	89.9	88.7	P/P	73 - 111
Parathion Methyl	94.0	88.4	P/P	74 - 126
Pendimethalin	80.6	83.1	P/P	63 - 131
Phorate	39.8	39.6	F/F	54 - 115
Prodiamine	91.2	90.1	P/P	38 - 140
Prometon	70.7	45.5	P/F	61 - 120
Prometryn	90.9	86.6	P/P	62 - 126
Simazine	99.0	90.0	P/P	75 - 126
Tebuconazole	42.8	34.8	P/P	21 - 115
Terbufos	59.3	61.0	F/F	65 - 116
Terbuthylazine	104	99.0	P/P	73 - 117

Reference Method: EPA 8276
Batch ID: P364351

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	72.3	80.6	P/P	43 - 128
Toxaphene	66.2	65.3	P/P	38 - 140

Reference Method: EPA 8321B
Batch ID: P363978

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
3-Hydroxycarbofuran	61.6		P	40 - 150
Aldicarb	78.5		P	30 - 150
Aldicarb Sulfone	87.1		P	40 - 150
Aldicarb Sulfoxide	77.0		P	40 - 150

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8321B
Batch ID: P363978

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Carbaryl	72.5		P	40 - 150
Carbofuran	69.7		P	40 - 150
Methiocarb	69.5		P	40 - 150
Methomyl	75.0		P	40 - 150
Oxamyl	90.7		P	40 - 150
Propoxur	71.2		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364056

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	96.7		P	40 - 150
Acetaminophen	85.1		P	30 - 150
Bentazon	112		P	30 - 150
Carbamazepine	97.1		P	40 - 150
Diuron	94.0		P	40 - 150
Fenuron	118		P	40 - 150
Fluridone	99.7		P	40 - 150
Hydrocodone	105		P	40 - 150
Ibuprofen	82.9		P	40 - 150
Imazapyr	103		P	40 - 150
Imidacloprid	102		P	40 - 150
Linuron	73.1		P	40 - 150
MCPP	117		P	40 - 150
Naproxen	97.7		P	40 - 150
Primidone	92.4		P	40 - 150
Pyraclostrobin	82.8		P	40 - 150
Triclopyr	68.8		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364189

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	111		P	40 - 150
AMPA	138		P	40 - 150
Endothall	120		P	40 - 150
Glufosinate	110		P	40 - 150
Glyphosate	107		P	40 - 140
Sucralose	101		P	40 - 150

Reference Method: SM 2120 B
Batch ID: P364096

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.1		P	85 - 115

Reference Method: SM 2120 B
Batch ID: P364097

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.1		P	85 - 115

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P364310

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	98 - 106

Reference Method: SM 4500 F-C-97
Batch ID: P364314

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	97.2		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P364198

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086663	Barium	101	101	P/P	80 - 120
2086663	Calcium	106	105	P/P	80 - 120
2086663	Iron	104	103	P/P	80 - 120
2086663	Magnesium	111	109	P/P	80 - 120
2086663	Potassium	107	107	P/P	80 - 120
2086663	Sodium	104	103	P/P	80 - 120
2086663	Zinc	99.8	100	P/P	80 - 120
2086727	Barium	98.0		P	80 - 120
2086727	Calcium	101		P	80 - 120
2086727	Iron	103		P	80 - 120
2086727	Magnesium	106		P	80 - 120
2086727	Potassium	101		P	80 - 120
2086727	Sodium	103		P	80 - 120
2086727	Zinc	100		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364222

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086663	Aluminum	102	102	P/P	80 - 120
2086663	Antimony	100	101	P/P	80 - 120
2086663	Arsenic	105	105	P/P	80 - 120
2086663	Boron	109	109	P/P	80 - 120
2086663	Cadmium	105	105	P/P	80 - 120
2086663	Chromium	101	101	P/P	80 - 120
2086663	Copper	103	102	P/P	80 - 120
2086663	Lead	97.2	96.6	P/P	80 - 120
2086663	Nickel	103	103	P/P	80 - 120
2086663	Selenium	108	108	P/P	80 - 120
2086663	Silver	104	103	P/P	80 - 120
2086663	Thallium	94.5	95.1	P/P	80 - 120
2086727	Aluminum	103		P	80 - 120
2086727	Antimony	99.3		P	80 - 120
2086727	Arsenic	103		P	80 - 120
2086727	Boron	103		P	80 - 120
2086727	Cadmium	100		P	80 - 120
2086727	Chromium	97.2		P	80 - 120
2086727	Copper	97.7		P	80 - 120
2086727	Lead	98.6		P	80 - 120
2086727	Nickel	98.1		P	80 - 120
2086727	Selenium	103		P	80 - 120
2086727	Silver	101		P	80 - 120
2086727	Thallium	103		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364201

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086669	Chloride	98.6		P	90 - 110
2086741	Chloride	101		P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086669	Sulfate	99.5		P	90 - 110
2086741	Sulfate	100		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364324

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086606	Ammonia-N	106	105	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364325

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086742	Ammonia-N	104	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364549

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087260	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364559

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086600	Kjeldahl Nitrogen	93.3	96.7	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364560

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086606	Kjeldahl Nitrogen	104	102	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364301

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086670	NO2NO3-N	100	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364368

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086685	NO2NO3-N	102	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086622	Total-P	93.2	100	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086745	Total-P	97.7	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364085

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086747	O-Phosphate-P	95.4	96.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364086

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086798	O-Phosphate-P	92.3	93.8	P/P	90 - 110

Reference Method: EPA 8270D
Batch ID: P364351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086994	Aldrin	59.3	46.6	P/P	25 - 92.0
2086994	Alpha-BHC	125	100	P/P	49 - 130
2086994	Alpha-Chlordane	84.2	77.1	P/P	50 - 115
2086994	Beta-BHC	137	127	P/P	43 - 157
2086994	Bifenthrin	98.6	89.7	P/P	50 - 130
2086994	Carbophenothion	71.5	74.5	P/P	27 - 180
2086994	Chlorothalonil	88.9	87.6	P/P	10 - 216
2086994	Cis-Nonachlor	85.6	80.3	P/P	50 - 130
2086994	Cypermethrin	92.4	86.7	P/P	40 - 153
2086994	DDD-p,p'	98.9	93.8	P/P	53 - 128
2086994	DDE-p,p'	81.1	77.4	P/P	48 - 116
2086994	DDT-p,p'	99.2	93.7	P/P	47 - 128
2086994	Delta-BHC	147	139	P/P	51 - 196
2086994	Dicofol	97.7	92.8	P/P	10 - 147
2086994	Dieldrin	87.9	85.1	P/P	48 - 128
2086994	Endosulfan I	98.9	94.9	P/P	58 - 126
2086994	Endosulfan II	234	229	F/F	50 - 150
2086994	Endosulfan Sulfate	96.4	92.7	P/P	56 - 130
2086994	Endrin	96.4	86.8	P/P	50 - 126
2086994	Endrin Aldehyde	80.7	84.3	P/P	12 - 145
2086994	Endrin Ketone	103	99.9	P/P	59 - 132
2086994	Ethalfuralin	85.4	66.4	P/P	50 - 130
2086994	Gamma-BHC	188	149	F/P	50 - 155
2086994	Gamma-Chlordane	82.0	74.2	P/P	50 - 112
2086994	Heptachlor	73.6	55.9	P/P	41 - 98.0
2086994	Heptachlor Epoxide	90.0	81.6	P/P	55 - 117
2086994	Hexachlorobenzene	73.1	50.7	P/P	50 - 130
2086994	Methoxychlor	117	110	P/P	55 - 133
2086994	Mirex	58.8	54.9	P/P	44 - 101
2086994	Permethrin	79.1	76.8	P/P	52 - 124
2086994	Trans-Nonachlor	76.6	70.1	P/P	50 - 130
2086994	Trifluralin	86.3	69.1	P/P	10 - 201

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P364341

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085860	Acetochlor	91.9	101	P/P	63 - 129
2085860	Alachlor	89.5	96.2	P/P	65 - 127
2085860	Ametryn	106	105	P/P	40 - 164
2085860	Atrazine Desethyl	61.8	58.6	P/P	14 - 157
2085860	Azinphos Methyl	86.1	92.2	P/P	49 - 180
2085860	Bromacil	77.2	93.3	P/P	48 - 130
2085860	Butylate	31.6	25.9	P/P	10 - 94.0
2085860	Chlorpyrifos Ethyl	86.4	87.9	P/P	58 - 123
2085860	Chlorpyrifos Methyl	80.3	85.2	P/P	58 - 125
2085860	Cyanazine	81.0	79.4	P/P	24 - 253
2085860	Demeton	42.9	46.5	P/P	25 - 149
2085860	Diazinon	80.0	88.8	P/P	59 - 144
2085860	Dimethenamid	94.9	102	P/P	46 - 139
2085860	Disulfoton	61.2	66.4	P/P	54 - 132
2085860	Dithiopyr	85.6	94.0	P/P	64 - 130
2085860	EPTC	30.8	25.9	P/P	10 - 92.0
2085860	Ethion	94.5	98.5	P/P	30 - 148
2085860	Ethoprop	73.6	80.5	P/P	50 - 130
2085860	Fenamiphos	102	89.6	P/P	49 - 142
2085860	Fipronil	90.4	103	P/P	46 - 140
2085860	Fipronil Desulfinyl	94.8	103	P/P	30 - 121
2085860	Fipronil Sulfide	94.4	98.7	P/P	31 - 136
2085860	Fonofos	59.3	70.4	P/P	55 - 129
2085860	Hexazinone	166	154	F/F	56 - 141
2085860	Malathion	95.8	102	P/P	56 - 135
2085860	Metalaxyl	129	32.4	P/F	54 - 135
2085860	Metolachlor	89.6	98.8	P/P	51 - 140
2085860	Metribuzin	94.3	95.7	P/P	45 - 254
2085860	Mevinphos	76.3	76.4	P/P	33 - 131
2085860	Molinate	40.1	39.1	P/P	14 - 98.0
2085860	Norflurazon	86.9	92.1	P/P	34 - 136
2085860	Oxadiazon	88.6	95.0	P/P	67 - 116
2085860	Parathion Ethyl	91.0	98.8	P/P	66 - 118
2085860	Parathion Methyl	93.1	101	P/P	64 - 136
2085860	Pendimethalin	88.7	94.8	P/P	59 - 144
2085860	Phorate	55.1	56.4	P/P	42 - 130
2085860	Prodiamine	108	107	P/P	42 - 148
2085860	Prometon	103	118	P/P	59 - 134
2085860	Prometryn	90.8	97.8	P/P	54 - 135
2085860	Tebuconazole	89.9	84.8	P/P	10 - 131
2085860	Terbufos	66.9	73.7	P/P	57 - 131
2085860	Terbutylazine	93.8	99.9	P/P	68 - 125

Reference Method: EPA 8276
Batch ID: P364351

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086994	Chlordane	75.2	70.2	P/P	34 - 136
2086994	Toxaphene	62.1	61.7	P/P	22 - 152

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B
Batch ID: P363978

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2085811	3-Hydroxycarbofuran	64.0	72.6	P/P	40 - 150
2085811	Aldicarb	72.3	75.2	P/P	30 - 150
2085811	Aldicarb Sulfone	79.8	86.5	P/P	40 - 150
2085811	Aldicarb Sulfoxide	33.4	42.0	F/P	40 - 150
2085811	Carbaryl	53.7	58.8	P/P	40 - 150
2085811	Carbofuran	55.1	58.6	P/P	40 - 150
2085811	Methiocarb	52.6	57.1	P/P	40 - 150
2085811	Methomyl	65.6	72.5	P/P	40 - 150
2085811	Oxamyl	76.7	87.9	P/P	40 - 150
2085811	Propoxur	50.1	59.8	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364056

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087044	2,4-D	119	132	P/P	40 - 150
2087044	Acetaminophen	66.5	70.3	P/P	30 - 150
2087044	Bentazon	88.1	85.4	P/P	30 - 150
2087044	Carbamazepine	74.5	73.2	P/P	40 - 150
2087044	Diuron	69.1	66.3	P/P	40 - 150
2087044	Fenuron	73.9	72.1	P/P	40 - 150
2087044	Fluridone	120	109	P/P	40 - 150
2087044	Hydrocodone	79.7	76.3	P/P	40 - 150
2087044	Ibuprofen	77.4	76.2	P/P	40 - 150
2087044	Imazapyr	157	152	F/F	40 - 150
2087044	Imidacloprid	130	125	P/P	40 - 150
2087044	Linuron	65.4	63.1	P/P	40 - 150
2087044	MCPP	151	154	F/F	40 - 150
2087044	Naproxen	67.0	76.5	P/P	40 - 150
2087044	Primidone	79.8	77.9	P/P	40 - 150
2087044	Pyraclostrobin	93.7	92.5	P/P	40 - 150
2087044	Triclopyr	96.8	113	P/P	40 - 150

Reference Method: EPA 8321B
Batch ID: P364189

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2087406	Acesulfame K	115	116	P/P	40 - 150
2087406	AMPA	128	129	P/P	40 - 150
2087406	Endothall	122	119	P/P	40 - 150
2087406	Glufosinate	108	113	P/P	40 - 150
2087406	Glyphosate	102	99.8	P/P	40 - 140
2087406	Sucralose	105	102	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P364314

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086656	Fluoride	98.4	98.4	P/P	89 - 106

Quality Assurance Report Matrix Spike Accuracy

Reference Method: SM 5310 B-00
Batch ID: P364198

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2086670	Organic Carbon	94.6	94.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364091

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086544	Turbidity	0.678	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P364092

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086690	Turbidity	2.07	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P364222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086663	Barium	0.0454	Spike	P	0 - 20
2086663	Calcium	1.08	Spike	P	0 - 20
2086663	Iron	1.36	Spike	P	0 - 20
2086663	Magnesium	1.29	Spike	P	0 - 20
2086663	Potassium	0.208	Spike	P	0 - 20
2086663	Sodium	0.924	Spike	P	0 - 20
2086663	Zinc	0.327	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P364222

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086663	Aluminum	0.229	Spike	P	0 - 20
2086663	Antimony	0.917	Spike	P	0 - 20
2086663	Arsenic	0.0710	Spike	P	0 - 20
2086663	Boron	0.230	Spike	P	0 - 20
2086663	Cadmium	0.0917	Spike	P	0 - 20
2086663	Chromium	0.129	Spike	P	0 - 20
2086663	Copper	0.618	Spike	P	0 - 20
2086663	Lead	0.518	Spike	P	0 - 20
2086663	Nickel	0.140	Spike	P	0 - 20
2086663	Selenium	0.117	Spike	P	0 - 20
2086663	Silver	1.23	Spike	P	0 - 20
2086663	Thallium	0.563	Spike	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364201

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086669	Chloride	0.454	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P364203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086669	Sulfate	0.156	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364324

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086606	Ammonia-N	0.987	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364325

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086742	Ammonia-N	1.08	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P364549

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087260	Ammonia-N	0.0905	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364559

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086600	Kjeldahl Nitrogen	1.82	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364560

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086606	Kjeldahl Nitrogen	1.12	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P364561

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086693	Kjeldahl Nitrogen	1.39	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364301

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086670	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P364368

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086685	NO2NO3-N	1.12	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086622	Total-P	6.72	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P364473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086745	Total-P	2.57	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364085

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086747	O-Phosphate-P	1.46	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P364086

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086798	O-Phosphate-P	1.48	Spike	P	0 - 20

Reference Method: EPA 8270D
Batch ID: P364351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086994	Aldrin	24.0	Spike	P	0 - 30
2086994	Alpha-BHC	21.9	Spike	P	0 - 30
2086994	Alpha-Chlordane	8.80	Spike	P	0 - 30
2086994	Beta-BHC	7.26	Spike	P	0 - 30
2086994	Bifenthrin	9.36	Spike	P	0 - 30
2086994	Carbophenothion	4.12	Spike	P	0 - 30
2086994	Chlorothalonil	1.43	Spike	P	0 - 30
2086994	Cis-Nonachlor	6.33	Spike	P	0 - 30
2086994	Cypermethrin	6.42	Spike	P	0 - 30
2086994	DDD-p,p'	5.22	Spike	P	0 - 30
2086994	DDE-p,p'	4.62	Spike	P	0 - 30
2086994	DDT-p,p'	5.67	Spike	P	0 - 30
2086994	Delta-BHC	5.79	Spike	P	0 - 30
2086994	Dicofol	5.10	Spike	P	0 - 30
2086994	Dieldrin	3.24	Spike	P	0 - 30
2086994	Endosulfan I	4.11	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270D
Batch ID: P364351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086994	Endosulfan II	2.01	Spike	P	0 - 30
2086994	Endosulfan Sulfate	3.94	Spike	P	0 - 30
2086994	Endrin	10.5	Spike	P	0 - 30
2086994	Endrin Aldehyde	4.34	Spike	P	0 - 30
2086994	Endrin Ketone	2.61	Spike	P	0 - 30
2086994	Ethalfuralin	25.0	Spike	P	0 - 30
2086994	Gamma-BHC	23.0	Spike	P	0 - 30
2086994	Gamma-Chlordane	9.88	Spike	P	0 - 30
2086994	Heptachlor	27.2	Spike	P	0 - 30
2086994	Heptachlor Epoxide	9.88	Spike	P	0 - 30
2086994	Hexachlorobenzene	36.1	Spike	F	0 - 30
2086994	Methoxychlor	5.50	Spike	P	0 - 30
2086994	Mirex	6.85	Spike	P	0 - 30
2086994	Permethrin	2.93	Spike	P	0 - 30
2086994	Trans-Nonachlor	8.86	Spike	P	0 - 30
2086994	Trifluralin	22.2	Spike	P	0 - 30
LFB	Aldrin	14.1	LCS	P	0 - 30
LFB	Alpha-BHC	17.5	LCS	P	0 - 30
LFB	Alpha-Chlordane	6.19	LCS	P	0 - 30
LFB	Beta-BHC	4.78	LCS	P	0 - 30
LFB	Bifenthrin	7.79	LCS	P	0 - 30
LFB	Carbophenothion	7.94	LCS	P	0 - 30
LFB	Chlorothalonil	10.2	LCS	P	0 - 30
LFB	Cis-Nonachlor	3.22	LCS	P	0 - 30
LFB	Cypermethrin	3.24	LCS	P	0 - 30
LFB	DDD-p,p'	1.87	LCS	P	0 - 30
LFB	DDE-p,p'	5.37	LCS	P	0 - 30
LFB	DDT-p,p'	1.38	LCS	P	0 - 30
LFB	Delta-BHC	7.11	LCS	P	0 - 30
LFB	Dicofol	11.9	LCS	P	0 - 30
LFB	Dieldrin	1.84	LCS	P	0 - 30
LFB	Endosulfan I	7.96	LCS	P	0 - 30
LFB	Endosulfan II	6.70	LCS	P	0 - 30
LFB	Endosulfan Sulfate	7.28	LCS	P	0 - 30
LFB	Endrin	9.13	LCS	P	0 - 30
LFB	Endrin Aldehyde	16.7	LCS	P	0 - 30
LFB	Endrin Ketone	1.64	LCS	P	0 - 30
LFB	Ethalfuralin	21.3	LCS	P	0 - 30
LFB	Gamma-BHC	7.06	LCS	P	0 - 30
LFB	Gamma-Chlordane	7.50	LCS	P	0 - 30
LFB	Heptachlor	17.4	LCS	P	0 - 30
LFB	Heptachlor Epoxide	6.15	LCS	P	0 - 30
LFB	Hexachlorobenzene	27.6	LCS	P	0 - 30
LFB	Methoxychlor	1.25	LCS	P	0 - 30
LFB	Mirex	3.00	LCS	P	0 - 30
LFB	Permethrin	0.994	LCS	P	0 - 30
LFB	Trans-Nonachlor	5.09	LCS	P	0 - 30
LFB	Trifluralin	13.8	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085860	Acetochlor	9.88	Spike	P	0 - 30
2085860	Alachlor	7.19	Spike	P	0 - 30
2085860	Ametryn	1.15	Spike	P	0 - 30
2085860	Atrazine	5.98	Spike	P	0 - 30
2085860	Atrazine Desethyl	2.23	Spike	P	0 - 30
2085860	Azinphos Methyl	6.85	Spike	P	0 - 30
2085860	Bromacil	11.7	Spike	P	0 - 30
2085860	Butylate	19.8	Spike	P	0 - 30
2085860	Chlorpyrifos Ethyl	1.76	Spike	P	0 - 30
2085860	Chlorpyrifos Methyl	5.84	Spike	P	0 - 30
2085860	Cyanazine	2.01	Spike	P	0 - 30
2085860	Demeton	8.13	Spike	P	0 - 30
2085860	Diazinon	10.4	Spike	P	0 - 30
2085860	Dimethenamid	7.27	Spike	P	0 - 30
2085860	Disulfoton	8.16	Spike	P	0 - 30
2085860	Dithiopyr	8.34	Spike	P	0 - 30
2085860	EPTC	17.1	Spike	P	0 - 30
2085860	Ethion	4.17	Spike	P	0 - 30
2085860	Ethoprop	8.98	Spike	P	0 - 30
2085860	Fenamiphos	13.4	Spike	P	0 - 30
2085860	Fipronil	7.21	Spike	P	0 - 30
2085860	Fipronil Desulfinyl	6.70	Spike	P	0 - 30
2085860	Fipronil Sulfide	3.21	Spike	P	0 - 30
2085860	Fipronil Sulfone	6.44	Spike	P	0 - 30
2085860	Fonofos	17.2	Spike	P	0 - 30
2085860	Hexazinone	7.89	Spike	P	0 - 30
2085860	Malathion	6.43	Spike	P	0 - 30
2085860	Metalaxyl	120	Spike	F	0 - 30
2085860	Metolachlor	8.16	Spike	P	0 - 30
2085860	Metribuzin	1.51	Spike	P	0 - 30
2085860	Mevinphos	0.138	Spike	P	0 - 30
2085860	Molinate	2.46	Spike	P	0 - 30
2085860	Norflurazon	5.71	Spike	P	0 - 30
2085860	Oxadiazon	6.33	Spike	P	0 - 30
2085860	Parathion Ethyl	8.23	Spike	P	0 - 30
2085860	Parathion Methyl	8.40	Spike	P	0 - 30
2085860	Pendimethalin	6.68	Spike	P	0 - 30
2085860	Phorate	2.16	Spike	P	0 - 30
2085860	Prodiamine	0.504	Spike	P	0 - 30
2085860	Prometon	14.2	Spike	P	0 - 30
2085860	Prometryn	7.49	Spike	P	0 - 30
2085860	Simazine	5.34	Spike	P	0 - 30
2085860	Tebuconazole	5.00	Spike	P	0 - 30
2085860	Terbufos	9.76	Spike	P	0 - 30
2085860	Terbutylazine	5.39	Spike	P	0 - 30
LFB	Acetochlor	4.30	LCS	P	0 - 30
LFB	Alachlor	6.48	LCS	P	0 - 30
LFB	Ametryn	11.7	LCS	P	0 - 30
LFB	Atrazine	9.80	LCS	P	0 - 30
LFB	Atrazine Desethyl	11.7	LCS	P	0 - 30
LFB	Azinphos Methyl	11.3	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P364341

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Bromacil	25.5	LCS	P	0 - 30
LFB	Butylate	28.3	LCS	P	0 - 30
LFB	Chlorpyrifos Ethyl	6.01	LCS	P	0 - 30
LFB	Chlorpyrifos Methyl	10.0	LCS	P	0 - 30
LFB	Cyanazine	12.2	LCS	P	0 - 30
LFB	Demeton	0.431	LCS	P	0 - 30
LFB	Diazinon	6.62	LCS	P	0 - 30
LFB	Dimethenamid	3.06	LCS	P	0 - 30
LFB	Disulfoton	10.1	LCS	P	0 - 30
LFB	Dithiopyr	7.42	LCS	P	0 - 30
LFB	EPTC	39.8	LCS	F	0 - 30
LFB	Ethion	2.16	LCS	P	0 - 30
LFB	Ethoprop	12.6	LCS	P	0 - 30
LFB	Fenamiphos	91.2	LCS	F	0 - 30
LFB	Fipronil	11.5	LCS	P	0 - 30
LFB	Fipronil Desulfinyl	6.04	LCS	P	0 - 30
LFB	Fipronil Sulfide	7.03	LCS	P	0 - 30
LFB	Fipronil Sulfone	26.1	LCS	P	0 - 30
LFB	Fonofos	14.0	LCS	P	0 - 30
LFB	Hexazinone	38.7	LCS	F	0 - 30
LFB	Malathion	2.14	LCS	P	0 - 30
LFB	Metalaxyl	65.2	LCS	F	0 - 30
LFB	Metolachlor	5.84	LCS	P	0 - 30
LFB	Metribuzin	3.75	LCS	P	0 - 30
LFB	Mevinphos	13.7	LCS	P	0 - 30
LFB	Molinate	25.2	LCS	P	0 - 30
LFB	Norflurazon	26.4	LCS	P	0 - 30
LFB	Oxadiazon	1.36	LCS	P	0 - 30
LFB	Parathion Ethyl	1.31	LCS	P	0 - 30
LFB	Parathion Methyl	6.16	LCS	P	0 - 30
LFB	Pendimethalin	3.12	LCS	P	0 - 30
LFB	Phorate	0.579	LCS	P	0 - 30
LFB	Prodiamine	1.25	LCS	P	0 - 30
LFB	Prometon	43.3	LCS	F	0 - 30
LFB	Prometryn	4.86	LCS	P	0 - 30
LFB	Simazine	9.57	LCS	P	0 - 30
LFB	Tebuconazole	20.5	LCS	P	0 - 30
LFB	Terbufos	2.83	LCS	P	0 - 30
LFB	Terbutylazine	5.25	LCS	P	0 - 30

Reference Method: EPA 8276
Batch ID: P364351

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086994	Chlordane	14.4	Spike	P	0 - 30
2086994	Toxaphene	8.09	Spike	P	0 - 30
LFB	Chlordane	10.9	LCS	P	0 - 30
LFB	Toxaphene	1.40	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
 Batch ID: P363978

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2085811	3-Hydroxycarbofuran	12.5	Spike	P	0 - 30
2085811	Aldicarb	3.90	Spike	P	0 - 30
2085811	Aldicarb Sulfone	8.02	Spike	P	0 - 30
2085811	Aldicarb Sulfoxide	22.9	Spike	P	0 - 30
2085811	Carbaryl	8.97	Spike	P	0 - 30
2085811	Carbofuran	6.19	Spike	P	0 - 30
2085811	Methiocarb	8.20	Spike	P	0 - 30
2085811	Methomyl	9.93	Spike	P	0 - 30
2085811	Oxamyl	13.5	Spike	P	0 - 30
2085811	Propoxur	17.8	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P364056

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087044	2,4-D	6.94	Spike	P	0 - 30
2087044	Acetaminophen	5.60	Spike	P	0 - 30
2087044	Bentazon	0.908	Spike	P	0 - 30
2087044	Carbamazepine	1.70	Spike	P	0 - 30
2087044	Diuron	3.54	Spike	P	0 - 30
2087044	Fenuron	2.50	Spike	P	0 - 30
2087044	Fluridone	3.73	Spike	P	0 - 30
2087044	Hydrocodone	4.39	Spike	P	0 - 30
2087044	Ibuprofen	1.46	Spike	P	0 - 30
2087044	Imazapyr	1.08	Spike	P	0 - 30
2087044	Imidacloprid	2.89	Spike	P	0 - 30
2087044	Linuron	3.68	Spike	P	0 - 30
2087044	MCPP	1.72	Spike	P	0 - 30
2087044	Naproxen	13.3	Spike	P	0 - 30
2087044	Primidone	2.46	Spike	P	0 - 30
2087044	Pyraclostrobin	1.31	Spike	P	0 - 30
2087044	Triclopyr	15.0	Spike	P	0 - 30

Reference Method: EPA 8321B
 Batch ID: P364189

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2087406	Acesulfame K	1.06	Spike	P	0 - 30
2087406	AMPA	0.634	Spike	P	0 - 30
2087406	Endothall	2.63	Spike	P	0 - 30
2087406	Glufosinate	4.10	Spike	P	0 - 30
2087406	Glyphosate	2.51	Spike	P	0 - 30
2087406	Sucralose	3.20	Spike	P	0 - 30

Reference Method: SM 2120 B
 Batch ID: P364097

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

Reference Method: SM 2120 B
 Batch ID: P364097

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086691	Color (true)	4.92	Sample	P	0 - 20

Reference Method: SM 2320 B-97
 Batch ID: P364310

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086656	Total Alkalinity	0.578	Sample	P	0 - 2.8

Reference Method: SM 2540 C-97
 Batch ID: P364440

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086669	TDS	3.90	Sample	P	0 - 10

Reference Method: SM 2540 C-97
 Batch ID: P364441

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086690	TDS	1.88	Sample	P	0 - 10

Reference Method: SM 2540 D-97
 Batch ID: P364346

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086669	TSS	0.0	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
 Batch ID: P364314

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086656	Fluoride	0.0	Spike	P	0 - 2.5

Reference Method: SM 5310 B-00
 Batch ID: P364198

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2086670	Organic Carbon	0.0771	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
 Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 2086716
Field Sample ID: 20030773

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Carbaryl-d7	80.3	P	30 - 160

Lab Sample ID: 2086717
Field Sample ID: 20030773

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	112	P	30 - 160
EPA 8321B	Acetaminophen-d4	95.4	P	30 - 160
EPA 8321B	Carbamazepine-d10	93.5	P	30 - 160
EPA 8321B	Diuron-d6	87.0	P	30 - 160
EPA 8321B	Endothall-d6	388	F	30 - 160
EPA 8321B	Endothall-d6	388	F	30 - 160
EPA 8321B	Glyphosate 13C 15N	64.1	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	64.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	107	P	30 - 160
EPA 8321B	Primidone-d5	109	P	30 - 160
EPA 8321B	Sucralose-d6	89.1	P	30 - 160
EPA 8321B	Sucralose-d6	89.1	P	30 - 160

Lab Sample ID: 2086723
Field Sample ID: 20030773

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270D	Decachlorobiphenyl	80.0	P	39 - 109
EPA 8270D	Tetrachloro-m-xylene	71.1	P	28 - 96.0
EPA 8276	Decachlorobiphenyl	58.8	P	30 - 103
EPA 8276	PCNB	96.6	P	37 - 143

Lab Sample ID: 2086724
Field Sample ID: 20030773

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Simazine-d10	99.3	P	68 - 130
EPA 8270E	Terbufos-d10	69.0	P	61 - 136

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A91404

Included Lab Sample IDs: 2086684, 2086687, 2086690, 2086691, 2086692

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A91479

Included Lab Sample IDs: 2086686, 2086689, 2086696, 2086697, 2086698

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	97.9	98.6	P/P	90 - 110
O-Phosphate-P	98.6	96.6	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A91482

Included Lab Sample IDs: 2086684, 2086687, 2086690, 2086691, 2086692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.5	P/P	95 - 105
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A91486

Included Lab Sample IDs: 2086684, 2086687, 2086690, 2086691, 2086692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	101	100	P/P	90 - 115
Color (true)	99.5	101	P/P	90 - 115

Reference Method: SM 5310 B-00

Run ID: A91525

Included Lab Sample IDs: 2086685, 2086688, 2086693, 2086694, 2086695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.0	95.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A91553

Included Lab Sample IDs: 2086717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	95.5	89.7	P/P	60 - 160
Glufosinate	103	95.6	P/P	60 - 160
Glyphosate	92.6	94.4	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91563

Included Lab Sample IDs: 2086688, 2086693, 2086694, 2086695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.0	98.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A91564

Included Lab Sample IDs: 2086684, 2086687, 2086690, 2086691, 2086692

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	102	105	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A91564

Included Lab Sample IDs: 2086684, 2086687, 2086690, 2086691, 2086692

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A91568

Included Lab Sample IDs: 2086685, 2086688, 2086694, 2086695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	105	P/P	90 - 110
Ammonia-N	105	106	P/P	90 - 110
Ammonia-N	107	107	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A91577

Included Lab Sample IDs: 2086725, 2086726, 2086727, 2086728, 2086729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Barium	100	101	P/P	90 - 110
Barium	101	100	P/P	90 - 110
Calcium	98.7	99.9	P/P	90 - 110
Calcium	99.0	98.7	P/P	90 - 110
Iron	99.0	99.3	P/P	90 - 110
Iron	99.3	99.0	P/P	90 - 110
Magnesium	99.7	99.9	P/P	90 - 110
Magnesium	100	99.7	P/P	90 - 110
Potassium	100	99.0	P/P	90 - 110
Potassium	99.2	100	P/P	90 - 110
Sodium	102	103	P/P	90 - 110
Sodium	103	103	P/P	90 - 110
Zinc	101	102	P/P	90 - 110
Zinc	102	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A91586

Included Lab Sample IDs: 2086717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	124	90.0	P/P	60 - 160
Endothall	118	127	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91592

Included Lab Sample IDs: 2086685

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A91592

Included Lab Sample IDs: 2086685

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	96.5	97.0	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A91610

Included Lab Sample IDs: 2086716

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
3-Hydroxycarbofuran	80.5	88.5	P/P	60 - 150
Aldicarb	89.0	92.8	P/P	60 - 150
Aldicarb Sulfone	99.7	104	P/P	50 - 150
Aldicarb Sulfoxide	74.0	95.5	P/P	50 - 150
Carbaryl	100	96.6	P/P	60 - 150
Carbofuran	103	96.5	P/P	50 - 150
Methiocarb	106	101	P/P	50 - 150
Methomyl	98.8	86.4	P/P	50 - 150
Oxamyl	103	94.4	P/P	50 - 150
Propoxur	102	99.6	P/P	50 - 150

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91613

Included Lab Sample IDs: 2086725, 2086726, 2086727, 2086728, 2086729

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	103	104	P/P	90 - 110
Aluminum	104	103	P/P	90 - 110
Antimony	96.3	97.2	P/P	90 - 110
Antimony	97.2	96.5	P/P	90 - 110
Arsenic	101	102	P/P	90 - 110
Arsenic	102	101	P/P	90 - 110
Boron	108	109	P/P	90 - 110
Boron	109	108	P/P	90 - 110
Cadmium	101	101	P/P	90 - 110
Cadmium	101	100	P/P	90 - 110
Chromium	101	101	P/P	90 - 110
Chromium	102	101	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Copper	102	102	P/P	90 - 110
Lead	98.2	99.1	P/P	90 - 110
Lead	99.1	98.6	P/P	90 - 110
Nickel	100	101	P/P	90 - 110
Nickel	101	100	P/P	90 - 110
Selenium	103	103	P/P	90 - 110
Selenium	103	101	P/P	90 - 110
Silver	103	102	P/P	90 - 110
Silver	103	103	P/P	90 - 110
Thallium	103	98.5	P/P	90 - 110
Thallium	98.5	95.7	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B
Run ID: A91622
Included Lab Sample IDs: 2086717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	88.8	94.3	P/P	50 - 150
Acetaminophen	101	103	P/P	60 - 160
Bentazon	106	107	P/P	50 - 160
Carbamazepine	103	102	P/P	60 - 150
Diuron	107	106	P/P	60 - 150
Fenuron	107	107	P/P	60 - 150
Fluridone	104	101	P/P	60 - 160
Hydrocodone	106	107	P/P	60 - 150
Ibuprofen	104	111	P/P	50 - 160
Imazapyr	107	104	P/P	50 - 150
Imidacloprid	97.1	94.9	P/P	60 - 150
Linuron	99.6	103	P/P	60 - 150
MCPP	90.4	98.5	P/P	50 - 150
Naproxen	108	94.4	P/P	50 - 160
Primidone	103	98.3	P/P	60 - 150
Pyraclostrobin	102	104	P/P	60 - 150
Triclopyr	97.8	92.4	P/P	50 - 150

Reference Method: EPA 8276
Run ID: A91643
Included Lab Sample IDs: 2086723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	103		P	80 - 120
Toxaphene	90.7		P	80 - 120

Reference Method: EPA 8321B
Run ID: A91646
Included Lab Sample IDs: 2086717

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	102	106	P/P	60 - 160

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91662
Included Lab Sample IDs: 2086688, 2086693, 2086695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	97.5	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A91666
Included Lab Sample IDs: 2086685, 2086694

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

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A91667

Included Lab Sample IDs: 2086693

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A91674

Included Lab Sample IDs: 2086725

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

Reference Method: EPA 8270D

Run ID: A91675

Included Lab Sample IDs: 2086723

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.4		P	80 - 120
Alpha-BHC	97.5		P	80 - 120
Alpha-Chlordane	92.7		P	80 - 120
Beta-BHC	97.7		P	80 - 120
Bifenthrin	94.6		P	80 - 120
Carbophenothion	109		P	80 - 120
Chlorothalonil	64.1*		F	80 - 120
Cis-Nonachlor	90.3		P	80 - 120
Cypermethrin	85.0		P	80 - 120
DDD-p,p'	87.4		P	80 - 120
DDE-p,p'	94.7		P	80 - 120
DDT-p,p'	102		P	80 - 120
Delta-BHC	91.5		P	80 - 120
Dicofol	96.6		P	80 - 120
Dieldrin	92.2		P	80 - 120
Endosulfan I	87.9		P	80 - 120
Endosulfan II	85.1		P	80 - 120
Endosulfan Sulfate	86.9		P	80 - 120
Endrin	94.1		P	80 - 120
Endrin Aldehyde	76.8*		F	80 - 120
Endrin Ketone	90.6		P	80 - 120
Ethalfuralin	87.2		P	80 - 120
Gamma-BHC	97.2		P	80 - 120
Gamma-Chlordane	92.4		P	80 - 120
Heptachlor	91.0		P	80 - 120
Heptachlor Epoxide	92.3		P	80 - 120
Hexachlorobenzene	96.8		P	80 - 120
Methoxychlor	99.7		P	80 - 120
Mirex	96.0		P	80 - 120
Permethrin	89.6		P	80 - 120
Trans-Nonachlor	91.7		P	80 - 120
Trifluralin	94.4		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
 Run ID: A91710
 Included Lab Sample IDs: 2086724

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	101		P	80 - 120
Alachlor	104		P	80 - 120
Ametryn	100		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	94.3		P	80 - 120
Azinphos Methyl	80.8		P	80 - 120
Bromacil	101		P	80 - 120
Butylate	97.9		P	80 - 120
Chlorpyrifos Ethyl	90.4		P	80 - 120
Chlorpyrifos Methyl	94.3		P	80 - 120
Cyanazine	94.5		P	80 - 120
Demeton	96.5		P	80 - 120
Diazinon	100		P	80 - 120
Dimethenamid	101		P	80 - 120
Disulfoton	92.7		P	80 - 120
Dithiopyr	99.1		P	80 - 120
EPTC	98.5		P	80 - 120
Ethion	93.2		P	80 - 120
Ethoprop	99.1		P	80 - 120
Fenamiphos	98.7		P	80 - 120
Fipronil	103		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fipronil Sulfide	94.8		P	80 - 120
Fipronil Sulfone	96.4		P	80 - 120
Fonofos	95.1		P	80 - 120
Hexazinone	101		P	80 - 120
Malathion	90.7		P	80 - 120
Metaxyl	103		P	80 - 120
Metolachlor	103		P	80 - 120
Metribuzin	85.6		P	80 - 120
Mevinphos	96.9		P	80 - 120
Molinate	101		P	80 - 120
Norflurazon	93.9		P	80 - 120
Oxadiazon	106		P	80 - 120
Parathion Ethyl	94.6		P	80 - 120
Parathion Methyl	92.4		P	80 - 120
Pendimethalin	89.9		P	80 - 120
Phorate	95.4		P	80 - 120
Prodiamine	77.9*		F	80 - 120
Prometon	102		P	80 - 120
Prometryn	98.8		P	80 - 120
Simazine	94.9		P	80 - 120
Tebuconazole	101		P	80 - 120
Terbufos	92.8		P	80 - 120
Terbutylazine	99.3		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0
 Run ID: A91729
 Included Lab Sample IDs: 2086685, 2086688, 2086693, 2086694, 2086695

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: A91729

Included Lab Sample IDs: 2086685, 2086688, 2086693, 2086694, 2086695

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.2	98.1	P/P	90 - 110
Kjeldahl Nitrogen	96.0	93.2	P/P	90 - 110
Kjeldahl Nitrogen	97.1	96.0	P/P	90 - 110
Kjeldahl Nitrogen	98.1	101	P/P	90 - 110

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

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery			LCS	Precision	MS
								SMP	
EPA 180.1 Rev. 2.0	Turbidity							0.678	
	Turbidity							2.07	
EPA 200.7 Rev. 4.4	Barium	100		101	101	98.0			0.0454
	Calcium	106		106	105	101			1.08
	Iron	103		104	103	103			1.36
	Magnesium	110		111	109	106			1.29
	Potassium	102		107	107	101			0.208
	Sodium	105		104	103	103			0.924
	Zinc	98.9		99.8	100	100			0.327
EPA 200.8 Rev. 5.4	Aluminum	101		102	102	103			0.229
	Antimony	99.3		100	101	99.3			0.917
	Arsenic	101		105	105	103			0.0710
	Boron	105		109	109	103			0.230
	Cadmium	103		105	105	100			0.0917
	Chromium	97.7		101	101	97.2			0.129
	Copper	98.7		103	102	97.7			0.618
	Lead	95.6		97.2	96.6	98.6			0.518
	Nickel	98.6		103	103	98.1			0.140
	Selenium	101		108	108	103			0.117
	Silver	102		104	103	101			1.23
	Thallium	99.9		94.5	95.1	103			0.563
EPA 300.0 Rev. 2.1	Chloride	99.7		98.6	101			0.454	
	Sulfate	98.9		99.5	100			0.156	
EPA 350.1 Rev. 2.0	Ammonia-N	102		106	105				0.987
	Ammonia-N	102		104	103				1.08
	Ammonia-N	99.8		101	101				0.0905
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	103		93.3	96.7				1.82
	Kjeldahl Nitrogen	99.5		104	102				1.12
	Kjeldahl Nitrogen	100							1.39
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0		100	100				0.0
	NO2NO3-N	100		102	100				1.12
EPA 365.1 Rev. 2.0	Total-P	100		93.2	100				6.72
	Total-P	99.0		97.7	100				2.57
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	95.7		95.4	96.8				1.46
	O-Phosphate-P	99.2		92.3	93.8				1.48
EPA 8270D	Aldrin	49.6	57.2	59.3	46.6	14.1			24.0
	Alpha-BHC	128	107	125	100	17.5			21.9
	Alpha-Chlordane	88.4	83.1	84.2	77.1	6.19			8.80
	Beta-BHC	159	152	137	127	4.78			7.26
	Bifenthrin	106	98.4	98.6	89.7	7.79			9.36
	Carbophenothion	40.4	43.8	71.5	74.5	7.94			4.12
	Chlorothalonil	81.0	73.2	88.9	87.6	10.2			1.43
	Cis-Nonachlor	85.6	88.4	85.6	80.3	3.22			6.33
	Cypermethrin	94.6	91.5	92.4	86.7	3.24			6.42
	DDD-p,p'	99.9	102	98.9	93.8	1.87			5.22
	DDE-p,p'	80.7	85.1	81.1	77.4	5.37			4.62
	DDT-p,p'	106	105	99.2	93.7	1.38			5.67
	Delta-BHC	155	145	147	139	7.11			5.79
	Dicofol	91.8	103	97.7	92.8	11.9			5.10
	Dieldrin	93.6	95.3	87.9	85.1	1.84			3.24
	Endosulfan I	92.6	100	98.9	94.9	7.96			4.11
	Endosulfan II	107	115	234	229	6.70			2.01
	Endosulfan Sulfate	101	108	96.4	92.7	7.28			3.94
	Endrin	91.8	101	96.4	86.8	9.13			10.5

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						SMP	MS
EPA 8270D	Endrin Aldehyde	84.2	99.5	80.7	84.3	16.7	4.34
	Endrin Ketone	104	105	103	99.9	1.64	2.61
	Ethalfuralin	76.0	94.1	85.4	66.4	21.3	25.0
	Gamma-BHC	136	126	188	149	7.06	23.0
	Gamma-Chlordane	80.3	86.6	82.0	74.2	7.50	9.88
	Heptachlor	78.1	65.6	73.6	55.9	17.4	27.2
	Heptachlor Epoxide	96.8	91.1	90.0	81.6	6.15	9.88
	Hexachlorobenzene	79.8	60.4	73.1	50.7	27.6	36.1
	Methoxychlor	126	124	117	110	1.25	5.50
	Mirex	62.2	60.4	58.8	54.9	3.00	6.85
	Permethrin	84.0	83.1	79.1	76.8	0.994	2.93
	Trans-Nonachlor	81.0	77.0	76.6	70.1	5.09	8.86
	Trifluralin	95.3	83.0	86.3	69.1	13.8	22.2
	Acetochlor	103	98.3	91.9	101	4.30	9.88
EPA 8270E	Alachlor	102	95.3	89.5	96.2	6.48	7.19
	Ametryn	93.7	83.4	106	105	11.7	1.15
	Atrazine	105	95.5			9.80	5.98
	Atrazine Desethyl	57.5	51.1	61.8	58.6	11.7	2.23
	Azinphos Methyl	95.5	85.3	86.1	92.2	11.3	6.85
	Bromacil	59.3	45.9	77.2	93.3	25.5	11.7
	Butylate	71.3	53.6	31.6	25.9	28.3	19.8
	Chlorpyrifos Ethyl	77.5	82.3	86.4	87.9	6.01	1.76
	Chlorpyrifos Methyl	64.2	71.0	80.3	85.2	10.0	5.84
	Cyanazine	81.6	72.2	81.0	79.4	12.2	2.01
	Demeton	34.3	34.5	42.9	46.5	0.431	8.13
	Diazinon	95.6	89.5	80.0	88.8	6.62	10.4
	Dimethenamid	103	99.7	94.9	102	3.06	7.27
	Disulfoton	33.3	36.9	61.2	66.4	10.1	8.16
	Dithiopyr	101	93.7	85.6	94.0	7.42	8.34
	EPTC	69.0	46.1	30.8	25.9	39.8	17.1
	Ethion	105	103	94.5	98.5	2.16	4.17
	Ethoprop	103	90.4	73.6	80.5	12.6	8.98
	Fenamiphos	16.4	6.14	102	89.6	91.2	13.4
	Fipronil	95.6	85.2	90.4	103	11.5	7.21
	Fipronil Desulfinyl	98.2	92.4	94.8	103	6.04	6.70
	Fipronil Sulfide	104	96.8	94.4	98.7	7.03	3.21
	Fipronil Sulfone	125	96.2			26.1	6.44
	Fonofos	70.9	61.6	59.3	70.4	14.0	17.2
	Hexazinone	66.3	44.8	166	154	38.7	7.89
	Malathion	100	98.2	95.8	102	2.14	6.43
	Metalaxyl	5.36	10.5	129	32.4	65.2	120
	Metolachlor	104	98.1	89.6	98.8	5.84	8.16
	Metribuzin	78.1	81.1	94.3	95.7	3.75	1.51
	Mevinphos	51.7	45.0	76.3	76.4	13.7	0.138
	Molinate	84.3	65.4	40.1	39.1	25.2	2.46
	Norflurazon	88.2	67.6	86.9	92.1	26.4	5.71
	Oxadiazon	107	106	88.6	95.0	1.36	6.33
	Parathion Ethyl	89.9	88.7	91.0	98.8	1.31	8.23
	Parathion Methyl	94.0	88.4	93.1	101	6.16	8.40
	Pendimethalin	80.6	83.1	88.7	94.8	3.12	6.68
	Phorate	39.8	39.6	55.1	56.4	0.579	2.16
	Prodiamine	91.2	90.1	108	107	1.25	0.504
	Prometon	70.7	45.5	103	118	43.3	14.2
	Prometryn	90.9	86.6	90.8	97.8	4.86	7.49

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision	
						LCS	MS
						SMP	
EPA 8270E	Simazine	99.0	90.0			9.57	5.34
	Tebuconazole	42.8	34.8	89.9	84.8	20.5	5.00
	Terbufos	59.3	61.0	66.9	73.7	2.83	9.76
	Terbuthylazine	104	99.0	93.8	99.9	5.25	5.39
EPA 8276	Chlordane	72.3	80.6	75.2	70.2	10.9	14.4
	Toxaphene	66.2	65.3	62.1	61.7	1.40	8.09
EPA 8321B	2,4-D	96.7		119	132		6.94
	3-Hydroxycarbofuran	61.6		64.0	72.6		12.5
	Acesulfame K	111		115	116		1.06
	Acetaminophen	85.1		66.5	70.3		5.60
	Aldicarb	78.5		72.3	75.2		3.90
	Aldicarb Sulfone	87.1		79.8	86.5		8.02
	Aldicarb Sulfoxide	77.0		33.4	42.0		22.9
	AMPA	138		128	129		0.634
	Bentazon	112		88.1	85.4		0.908
	Carbamazepine	97.1		74.5	73.2		1.70
	Carbaryl	72.5		53.7	58.8		8.97
	Carbofuran	69.7		55.1	58.6		6.19
	Diuron	94.0		69.1	66.3		3.54
	Endothall	120		122	119		2.63
	Fenuron	118		73.9	72.1		2.50
	Fluridone	99.7		120	109		3.73
	Glufosinate	110		108	113		4.10
	Glyphosate	107		102	99.8		2.51
	Hydrocodone	105		79.7	76.3		4.39
	Ibuprofen	82.9		77.4	76.2		1.46
	Imazapyr	103		157	152		1.08
	Imidacloprid	102		130	125		2.89
	Linuron	73.1		65.4	63.1		3.68
	MCPP	117		151	154		1.72
	Methiocarb	69.5		52.6	57.1		8.20
	Methomyl	75.0		65.6	72.5		9.93
	Naproxen	97.7		67.0	76.5		13.3
	Oxamyl	90.7		76.7	87.9		13.5
	Primidone	92.4		79.8	77.9		2.46
	Propoxur	71.2		50.1	59.8		17.8
	Pyraclostrobin	82.8		93.7	92.5		1.31
	Sucralose	101		105	102		3.20
	Triclopyr	68.8		96.8	113		15.0
SM 2120 B	Color (true)	99.1					
	Color (true)	98.1				4.92	
SM 2320 B-97	Total Alkalinity	102				0.578	
SM 2540 C-97	TDS					3.90	
	TDS					1.88	
SM 2540 D-97	TSS					0.0	
SM 4500 F-C-97	Fluoride	97.2		98.4	98.4		0.0
SM 5310 B-00	Organic Carbon	95.2		94.6	94.7		0.0771

Reference Method Descriptions

Method / DoH Cert #
EPA 180.1 Rev. 2.0 /
E31780

Description
Turbidity in aqueous matrices

Associated Samples
2086684, 2086687, 2086690, 2086691,
2086692

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	2086725, 2086726, 2086727, 2086728, 2086729
EPA 200.8 Rev. 5.4 / E31780	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2086725, 2086726, 2086727, 2086728, 2086729
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	2086684, 2086687, 2086690, 2086691, 2086692
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	2086684, 2086687, 2086690, 2086691, 2086692
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	2086685, 2086688, 2086693, 2086694, 2086695
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	2086685, 2086688, 2086693, 2086694, 2086695
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	2086685, 2086688, 2086693, 2086694, 2086695
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	2086685, 2086688, 2086693, 2086694, 2086695
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2086686, 2086689, 2086696, 2086697, 2086698
EPA 8270D / E31780	Organochlorine pesticides in water matrices by GC/MS-SIM	2086723
EPA 8270E / E31780	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2086724
EPA 8276 / E31780	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2086723
EPA 8321B / E31780	Carbamates in water matrices by HPLC/MS/MS	2086716
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2086717
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	2086717
SM 2120 B / E31780	True Color measured at 450 nm	2086684, 2086687, 2086690, 2086691, 2086692
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO3/L	2086684, 2086687, 2086690, 2086691, 2086692
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	2086684, 2086687, 2086690, 2086691, 2086692
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2086684, 2086687, 2086690, 2086691, 2086692
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2086684, 2086687, 2086690, 2086691, 2086692
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	2086685, 2086688, 2086693, 2086694, 2086695

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	05/16/2019			05/16/2019 16:15	Sima Feizi	2086684, 2086687, 2086690, 2086691, 2086692
EPA 200.7 Rev. 4.4	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 15:05	Betina Topolski	2086725
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 15:16	Betina Topolski	2086725
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 15:23	Betina Topolski	2086726
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 15:33	Betina Topolski	2086727
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 16:10	Betina Topolski	2086728
EPA 200.8 Rev. 5.4	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/21/2019 16:16	Betina Topolski	2086729
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/23/2019 00:09	Robert K Palmer	2086725
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/23/2019 00:19	Robert K Palmer	2086726
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/23/2019 00:29	Robert K Palmer	2086727
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/23/2019 01:18	Robert K Palmer	2086728
EPA 300.0 Rev. 2.1	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/23/2019 01:28	Robert K Palmer	2086729
	05/16/2019	05/20/2019 14:30	Elliott D. Healy	05/24/2019 16:47	Robert K Palmer	2086725
	05/16/2019			05/17/2019 22:53	Lipi Saha	2086684
	05/16/2019			05/17/2019 23:05	Lipi Saha	2086687
	05/16/2019			05/17/2019 23:17	Lipi Saha	2086690
EPA 350.1 Rev. 2.0	05/16/2019			05/17/2019 23:29	Lipi Saha	2086691
	05/16/2019			05/17/2019 23:41	Lipi Saha	2086692
	05/16/2019			05/20/2019 11:25	Ping Hua	2086685
	05/16/2019			05/20/2019 11:49	Ping Hua	2086688
	05/16/2019			05/20/2019 11:54	Ping Hua	2086695
EPA 351.2 Rev. 2.0	05/16/2019			05/20/2019 14:24	Ping Hua	2086694
	05/16/2019			05/23/2019 12:03	Ping Hua	2086693
	05/16/2019	05/24/2019 12:30	Adrian Shelby	05/29/2019 12:47	Joseph Suarez	2086688
	05/16/2019	05/24/2019 12:30	Adrian Shelby	05/29/2019 13:04	Joseph Suarez	2086685
	05/16/2019	05/24/2019 12:30	Adrian Shelby	05/29/2019 13:23	Joseph Suarez	2086693
EPA 353.2 Rev. 2.0	05/16/2019	05/24/2019 12:30	Adrian Shelby	05/29/2019 13:28	Joseph Suarez	2086694
	05/16/2019	05/24/2019 12:30	Adrian Shelby	05/29/2019 13:32	Joseph Suarez	2086695
	05/16/2019			05/21/2019 10:34	Beverly Y. Sanders	2086688
	05/16/2019			05/21/2019 10:36	Beverly Y. Sanders	2086693
	05/16/2019			05/21/2019 10:37	Beverly Y. Sanders	2086694
EPA 365.1 Rev. 2.0	05/16/2019			05/21/2019 10:38	Beverly Y. Sanders	2086695
	05/16/2019			05/22/2019 09:55	Beverly Y. Sanders	2086685
	05/16/2019	05/23/2019 15:15	Adrian Shelby	05/24/2019 12:38	Rosalyn Ballman	2086688
	05/16/2019	05/23/2019 15:15	Adrian Shelby	05/24/2019 12:39	Rosalyn Ballman	2086693
	05/16/2019	05/23/2019 15:15	Adrian Shelby	05/24/2019 12:41	Rosalyn Ballman	2086695
EPA 365.1 Rev. 2.0 dissolved	05/16/2019	05/23/2019 15:15	Adrian Shelby	05/24/2019 14:48	Rosalyn Ballman	2086685
	05/16/2019	05/23/2019 15:15	Adrian Shelby	05/24/2019 15:01	Rosalyn Ballman	2086694
	05/16/2019			05/16/2019 15:02	Jhamieka S. Greenwood	2086689

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 365.1 Rev. 2.0 dissolved	05/16/2019			05/16/2019 15:03	Jhamieka S. Greenwood	2086698
	05/16/2019			05/16/2019 15:07	Jhamieka S. Greenwood	2086696
	05/16/2019			05/16/2019 15:08	Jhamieka S. Greenwood	2086697
	05/16/2019			05/16/2019 15:18	Jhamieka S. Greenwood	2086686
EPA 8270D	05/16/2019	05/20/2019 08:30	Rasheda Ghaffari	05/23/2019 19:22	Arthur Maknenko	2086723
EPA 8270E	05/16/2019	05/20/2019 09:00	Julie Wi	05/22/2019 16:40	Vandana T. Nagar	2086724
EPA 8276	05/16/2019	05/20/2019 08:30	Rasheda Ghaffari	05/23/2019 20:24	Dinesh Mishra	2086723
EPA 8321B	05/16/2019	05/17/2019 10:00	Hoor Shaik	05/21/2019 11:20	Juyoung Kim	2086717
	05/16/2019	05/20/2019 09:00	Hoor Shaik	05/22/2019 21:28	Juyoung Kim	2086716
	05/16/2019	05/20/2019 10:30	Rebecca Ware	05/20/2019 15:52	Rebecca Ware	2086717
	05/16/2019	05/20/2019 10:30	Rebecca Ware	05/21/2019 11:25	Rebecca Ware	2086717
SM 2120 B	05/16/2019	05/20/2019 10:30	Rebecca Ware	05/24/2019 01:45	Rebecca Ware	2086717
	05/16/2019			05/16/2019 15:50	Madeline Funaro	2086684
	05/16/2019			05/16/2019 15:51	Madeline Funaro	2086687, 2086690
	05/16/2019			05/16/2019 15:56	Madeline Funaro	2086691
SM 2320 B-97	05/16/2019			05/16/2019 15:57	Madeline Funaro	2086692
	05/16/2019			05/21/2019 09:40	Dale L. Simmons	2086690
	05/16/2019			05/21/2019 09:53	Dale L. Simmons	2086691
	05/16/2019			05/21/2019 10:07	Dale L. Simmons	2086692
SM 2540 C-97	05/16/2019			05/21/2019 11:14	Dale L. Simmons	2086687
	05/16/2019			05/21/2019 11:27	Dale L. Simmons	2086684
	05/16/2019			05/17/2019 16:30	Sima Feizi	2086684, 2086687, 2086690, 2086691, 2086692
	05/16/2019			05/17/2019 16:30	Sima Feizi	2086684, 2086687, 2086690, 2086691, 2086692
SM 4500 F-C-97	05/16/2019			05/21/2019 09:40	Dale L. Simmons	2086690
	05/16/2019			05/21/2019 09:53	Dale L. Simmons	2086691
	05/16/2019			05/21/2019 10:07	Dale L. Simmons	2086692
	05/16/2019			05/21/2019 11:14	Dale L. Simmons	2086687
	05/16/2019			05/21/2019 11:27	Dale L. Simmons	2086684
SM 5310 B-00	05/16/2019			05/18/2019 01:06	Julia Storbeck	2086688
	05/16/2019			05/18/2019 01:19	Julia Storbeck	2086693
	05/16/2019			05/18/2019 01:32	Julia Storbeck	2086694
	05/16/2019			05/18/2019 01:45	Julia Storbeck	2086695
	05/16/2019			05/18/2019 12:52	Julia Storbeck	2086685