

Chemical Analysis Report

SO-DIST-2022-03-29-02

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

Event Description: **2022SMP: Caloosa**
Request ID: **RQ-2022-03-28-24**
Customer: **SO-DIST**
Project ID: **SMP**

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FLDEP South District Office
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Certified by: Dr. rer. nat. Bettina Steinbock, Environmental Administrator

Date Certified: 21-APR-2022 14:36



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: 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: PadgettRanchCanalAtSR78

Collection Date/Time: 03/28/2022 09:30

Field ID: G3SD0222

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315046	DEP SOP: NU-094-1	Color (true)**	63		PCU	P411728	
	EPA 180.1 Rev. 2.0	Turbidity	1.2		NTU	P411716	
	EPA 300.0 Rev. 2.1	Chloride	44		mg Cl/L	P411905	
		Sulfate	15		mg SO4/L	P411908	
	SM 2320 B-2011	Total Alkalinity	87		mg CaCO3/L	P411966	
	SM 2540 C-2011	TDS	226		mg/L	P411923	
	SM 2540 D-2011	TSS	2	U	mg/L	P411892	
	SM 4500-F- C-2011	Fluoride	0.20		mg F/L	P411970	
2315048	EPA 350.1 Rev. 2.0	Ammonia-N	0.018		mg N/L	P411761	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.96		mg N/L	P412165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411737	
	EPA 365.1 Rev. 2.0	Total-P	0.19		mg P/L	P411944	
	SM 5310 B-2011	Organic Carbon	16		mg C/L	P411792	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: ChaparralSloughAtSR29

Collection Date/Time: 03/28/2022 10:30

Field ID: G3SD0224

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315047	DEP SOP: NU-094-1	Color (true)**	370		PCU	P411729	
	EPA 180.1 Rev. 2.0	Turbidity	13		NTU	P411716	
	EPA 300.0 Rev. 2.1	Chloride	19		mg Cl/L	P411905	
		Sulfate	0.20	U	mg SO4/L	P411908	
	SM 2320 B-2011	Total Alkalinity	21		mg CaCO3/L	P411966	
	SM 2540 C-2011	TDS	132		mg/L	P411923	
	SM 2540 D-2011	TSS	22		mg/L	P411892	
	SM 4500-F- C-2011	Fluoride	0.060	I	mg F/L	P411970	
2315049	EPA 350.1 Rev. 2.0	Ammonia-N	1.3		mg N/L	P411761	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.5		mg N/L	P412165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.020		mg N/L	P411737	
	EPA 365.1 Rev. 2.0	Total-P	0.78		mg P/L	P411945	
	SM 5310 B-2011	Organic Carbon	40		mg C/L	P411792	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: CaloosaRivDwnstrmOrtona

Collection Date/Time: 03/28/2022 11:30

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315050	DEP SOP: NU-094-1	Color (true)**	56		PCU	P411728	
	EPA 180.1 Rev. 2.0	Turbidity	6.2		NTU	P411716	
	EPA 300.0 Rev. 2.1	Chloride	48		mg Cl/L	P411905	
		Sulfate	19		mg SO4/L	P411908	
	SM 2320 B-2011	Total Alkalinity	109		mg CaCO3/L	P411967	
	SM 2540 C-2011	TDS	254		mg/L	P411923	
	SM 2540 D-2011	TSS	8	I	mg/L	P411892	
	SM 4500-F- C-2011	Fluoride	0.17		mg F/L	P411971	
2315051	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P411761	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.3		mg N/L	P412165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.082		mg N/L	P411738	
	EPA 365.1 Rev. 2.0	Total-P	0.073		mg P/L	P411945	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P411792	
2315068	EPA 8321B	2,4-D	0.0020	U	ug/L	P411659	
		Acesulfame K	0.10	U	ug/L	P411656	
		2,4,5-T	0.0040	U	ug/L	P411659	
		AMPA	0.10	U	ug/L	P411656	
		Acetaminophen	0.0080	U	ug/L	P411659	
		Acetamiprid	0.0020	U	ug/L	P411659	
		Endothall	0.25	U	ug/L	P411656	
		Glufosinate	0.10	U	ug/L	P411656	
		Glyphosate	0.10	U	ug/L	P411656	
		Afidopyropen	0.0020	U	ug/L	P411659	
		Bentazon	0.011		ug/L	P411659	
		Sucralose	0.11		ug/L	P411656	
		Benzovindiflupyr	0.0020	U	ug/L	P411659	
		Carbamazepine	8.0E-04	U	ug/L	P411659	
		Clothianidin	0.0020	U	ug/L	P411659	
		Dinotefuran	0.0020	U	ug/L	P411659	
		Diuron	0.0020	U	ug/L	P411659	
		Fenuron	0.016	U	ug/L	P411659	
		Fluridone	0.0034		ug/L	P411659	
		Imazapyr	0.029		ug/L	P411659	
		Hydrocodone	0.0020	U	ug/L	P411659	
		Ibuprofen	0.020	U	ug/L	P411659	
		Imidacloprid	0.0020	U	ug/L	P411659	MS
		Linuron	0.0040	U	ug/L	P411659	
		Mandestrobin	0.0020	U	ug/L	P411659	
		MCPP	0.0020	U	ug/L	P411659	
		Naproxen	0.0080	U	ug/L	P411659	
		Primidone	0.0040	U	ug/L	P411659	
		Pyraclostrobin	0.0020	U	ug/L	P411659	
		Silvex	0.0040	U	ug/L	P411659	
		Thiamethoxam	0.0020	U	ug/L	P411659	MS

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315068	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P411659	
		Triclopyr	0.0040	U	ug/L	P411659	
2315070	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P411974	
		Acetochlor	0.24	U	ng/L	P411974	
		Octinoxate**	37	IQ	ng/L	P412360	
		Alachlor	0.24	U	ng/L	P411974	
		Avobenzone**	96	U	ng/L	P411974	
		Ametryn	7.9		ng/L	P411974	
		Atrazine	130		ng/L	P411974	
		Atrazine Desethyl	25		ng/L	P411974	
		Azinphos Methyl	1.9	U	ng/L	P411974	
		Azoxystrobin**	0.48	U	ng/L	P411974	
		Bromacil	1.9		ng/L	P411974	
		Butylate	0.38	U	ng/L	P411974	
		Caffeine**	7.1	UQ	ng/L	P412360	
		Carbophenothion	0.19	U	ng/L	P411974	MS
		Carfentrazone Ethyl**	0.096	U	ng/L	P411974	
		Chlorfenapyr**	0.17	U	ng/L	P411974	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P411974	
		Chlorpyrifos Methyl	0.048	U	ng/L	P411974	
		Coumaphos**	0.48	U	ng/L	P411974	
		Cyanazine	3.1	U	ng/L	P411974	
		Cyprodinil**	0.096	U	ng/L	P411974	
		Demeton	1.4	U	ng/L	P411974	
		Diazinon	0.12	U	ng/L	P411974	
		Difenoconazole**	0.57	U	ng/L	P411974	
		Dimethenamid**	0.096	U	ng/L	P411974	
		Dimethomorph**	0.17	U	ng/L	P411974	
		Disulfoton	0.48	U	ng/L	P411974	
		Dithiopyr**	0.17	U	ng/L	P411974	
		EPTC	1.2	U	ng/L	P411974	
		Ethion	0.14	U	ng/L	P411974	
		Ethoprop	0.096	U	ng/L	P411974	
		Etridiazole**	0.14	U	ng/L	P411974	
		Fenamiphos	0.48	U	ng/L	P411974	
		Fenbuconazole**	0.12	U	ng/L	P411974	
		Fipronil	0.24	U	ng/L	P411974	
		Fipronil Desulfinyl**	0.12	U	ng/L	P411974	
		Fipronil Sulfide	0.14	U	ng/L	P411974	
		Fipronil Sulfone	0.14	U	ng/L	P411974	
		Fluazifop-P-butyl**	0.096	U	ng/L	P411974	
		Fludioxonil**	0.12	U	ng/L	P411974	
		Flumioxazin**	1.7	U	ng/L	P411974	RPD
		Flutolanil**	0.096	U	ng/L	P411974	
		Fluxapyroxad**	1.5		ng/L	P411974	

Field ID: G3SD0225

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315070	EPA 8270E	Fonofos	0.19	U	ng/L	P411974	
		Hexazinone	30		ng/L	P411974	
		Imazalil**	0.72	U	ng/L	P411974	
		Iprodione**	0.57	U	ng/L	P411974	
		Loratadine**	0.096	U	ng/L	P411974	
		Malathion	0.34	U	ng/L	P411974	
		Metalaxyl	1.0	I	ng/L	P411974	
		Metolachlor	9.1		ng/L	P411974	
		Metribuzin	2.4	U	ng/L	P411974	
		Mevinphos	1.0	U	ng/L	P411974	
		Molinate	0.29	U	ng/L	P411974	
		Myclobutanil**	0.24	U	ng/L	P411974	
		Naled**	1.4	U	ng/L	P411974	
		Napropamide**	0.38	U	ng/L	P411974	
		Norflurazon	2.4		ng/L	P411974	
		Oxadiazon	0.29	UQ	ng/L	P412360	
		Oxyfluorfen**	0.14	U	ng/L	P411974	
		Parathion Ethyl	0.24	U	ng/L	P411974	
		Parathion Methyl	0.53	U	ng/L	P411974	
		Pendimethalin	0.96	U	ng/L	P411974	
		Phenytol**	3.4	U	ng/L	P411974	
		Phorate	0.50	U	ng/L	P411974	
		Prodiamine**	0.17	U	ng/L	P411974	
		Prometon	0.86	U	ng/L	P411974	
		Prometryn	0.19	U	ng/L	P411974	
		Pronamide**	0.14	U	ng/L	P411974	
		Propanil**	0.12	U	ng/L	P411974	
		Propargite**	1.4	U	ng/L	P411974	
		Propiconazole**	1.2	I	ng/L	P411974	
		Pyraflufen Ethyl**	0.24	UJ	ng/L	P411974	LCS
		Pyridaben**	0.43	U	ng/L	P411974	
		Pyriproxyfen**	0.12	U	ng/L	P411974	
		Simazine	4.2		ng/L	P411974	
		Stirophos**	0.14	I	ng/L	P411974	
		Sulfentrazone**	0.48	U	ng/L	P411974	
		Tebuconazole**	0.52	I	ng/L	P411974	RPD
		Terbufos	0.096	U	ng/L	P411974	
		Terbutylazine	0.41	U	ng/L	P411974	
		Thiobencarb**	0.57	U	ng/L	P411974	
		Triadimefon**	0.24	U	ng/L	P411974	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

EPA 8270E: Sample expired for preparation for octinoxate due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation for caffeine and oxadiazon due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction.

Sample Location: FB

Collection Date/Time: 03/28/2022 12:00

Field ID: FB_03282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315052	DEP SOP: NU-094-1	Color (true)**	2.5	U	PCU	P411728	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P411716	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P411905	
		Sulfate	0.20	U	mg SO4/L	P411908	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P411967	
	SM 2540 C-2011	TDS	15	U	mg/L	P411923	
	SM 2540 D-2011	TSS	2	U	mg/L	P411892	
2315053	SM 4500-F- C-2011	Fluoride	0.035	U	mg F/L	P411971	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P411761	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P412165	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P411738	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P411945	
2315069	SM 5310 B-2011	Organic Carbon	0.50	U	mg C/L	P412045	
	EPA 8321B	2,4-D	0.0020	U	ug/L	P411659	
		Acesulfame K	0.10	U	ug/L	P411656	
		2,4,5-T	0.0040	U	ug/L	P411659	
		AMPA	0.10	U	ug/L	P411656	
		Acetaminophen	0.0080	U	ug/L	P411659	
		Acetamiprid	0.0020	U	ug/L	P411659	
		Endothall	0.25	U	ug/L	P411656	
		Glufosinate	0.10	U	ug/L	P411656	
		Glyphosate	0.10	U	ug/L	P411656	
		Afidopyropen	0.0020	U	ug/L	P411659	
		Bentazon	8.0E-04	U	ug/L	P411659	
		Sucralose	0.010	U	ug/L	P411656	
		Benzovindiflupyr	0.0020	U	ug/L	P411659	
		Carbamazepine	8.0E-04	U	ug/L	P411659	
		Clothianidin	0.0020	U	ug/L	P411659	
		Dinotefuran	0.0020	U	ug/L	P411659	
		Diuron	0.0020	U	ug/L	P411659	
		Fenuron	0.016	U	ug/L	P411659	
		Fluridone	8.0E-04	U	ug/L	P411659	
		Imazapyr	0.0040	U	ug/L	P411659	
		Hydrocodone	0.0020	U	ug/L	P411659	
		Ibuprofen	0.020	U	ug/L	P411659	
		Imidacloprid	0.0020	U	ug/L	P411659	MS
		Linuron	0.0040	U	ug/L	P411659	
		Mandestrobin	0.0020	U	ug/L	P411659	
		MCPP	0.0020	U	ug/L	P411659	
		Naproxen	0.0080	U	ug/L	P411659	
		Primidone	0.0040	U	ug/L	P411659	
		Pyraclostrobin	0.0020	U	ug/L	P411659	
		Silvex	0.0040	U	ug/L	P411659	
		Thiamethoxam	0.0020	U	ug/L	P411659	MS

Field ID: FB_03282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315069	EPA 8321B	Tolfenpyrad	0.0020	U	ug/L	P411659	
		Triclopyr	0.0040	U	ug/L	P411659	
2315071	EPA 8270E	Oxybenzone**	9.6	UJ	ng/L	P411974	SUR
		Acetochlor	0.24	U	ng/L	P411974	
		Octinoxate**	33	IQJ	ng/L	P412360	SUR
		Alachlor	0.24	U	ng/L	P411974	
		Avobenzone**	96	UJ	ng/L	P411974	SUR
		Ametryn	0.58	U	ng/L	P411974	
		Atrazine	0.24	U	ng/L	P411974	
		Atrazine Desethyl	1.4	U	ng/L	P411974	
		Azinphos Methyl	1.9	U	ng/L	P411974	
		Azoxystrobin**	0.48	U	ng/L	P411974	
		Bromacil	0.48	U	ng/L	P411974	
		Butylate	0.39	U	ng/L	P411974	
		Caffeine**	7.1	UQ	ng/L	P412360	
		Carbophenothion	0.19	U	ng/L	P411974	MS
		Carfentrazone Ethyl**	0.096	U	ng/L	P411974	
		Chlorfenapyr**	0.17	U	ng/L	P411974	
		Chlorpyrifos Ethyl	0.40	I	ng/L	P411974	
		Chlorpyrifos Methyl	0.048	U	ng/L	P411974	
		Coumaphos**	0.48	U	ng/L	P411974	
		Cyanazine	3.1	U	ng/L	P411974	
		Cyprodinil**	0.096	U	ng/L	P411974	
		Demeton	1.4	U	ng/L	P411974	
		Diazinon	0.12	U	ng/L	P411974	
		Difenoconazole**	0.58	U	ng/L	P411974	
		Dimethenamid**	0.096	U	ng/L	P411974	
		Dimethomorph**	0.17	U	ng/L	P411974	
		Disulfoton	0.48	U	ng/L	P411974	
		Dithiopyr**	0.17	U	ng/L	P411974	
		EPTC	1.2	U	ng/L	P411974	
		Ethion	0.14	U	ng/L	P411974	
		Ethoprop	0.096	U	ng/L	P411974	
		Etridiazole**	0.14	U	ng/L	P411974	
		Fenamiphos	0.48	U	ng/L	P411974	
		Fenbuconazole**	0.12	U	ng/L	P411974	
		Fipronil	0.24	U	ng/L	P411974	
		Fipronil Desulfinyl**	0.12	U	ng/L	P411974	
		Fipronil Sulfide	0.14	U	ng/L	P411974	
		Fipronil Sulfone	0.14	U	ng/L	P411974	
		Fluazifop-P-butyl**	0.096	U	ng/L	P411974	
		Fludioxonil**	0.12	U	ng/L	P411974	
		Flumioxazin**	1.7	U	ng/L	P411974	RPD
		Flutolanil**	0.096	U	ng/L	P411974	
		Fluxapyroxad**	0.096	U	ng/L	P411974	

Field ID: FB_03282022

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2315071	EPA 8270E	Fonofos	0.19	U	ng/L	P411974	
		Hexazinone	0.48	U	ng/L	P411974	
		Imazalil**	0.72	U	ng/L	P411974	
		Iprodione**	0.58	U	ng/L	P411974	
		Loratadine**	0.096	U	ng/L	P411974	
		Malathion	0.34	U	ng/L	P411974	
		Metalaxyl	0.72	U	ng/L	P411974	
		Metolachlor	0.34	U	ng/L	P411974	
		Metribuzin	2.4	U	ng/L	P411974	
		Mevinphos	1.0	U	ng/L	P411974	
		Molinate	0.29	U	ng/L	P411974	
		Myclobutanil**	0.24	U	ng/L	P411974	
		Naled**	1.4	U	ng/L	P411974	
		Napropamide**	0.39	U	ng/L	P411974	
		Norflurazon	0.48	U	ng/L	P411974	
		Oxadiazon	0.28	UQ	ng/L	P412360	
		Oxyfluorfen**	0.14	U	ng/L	P411974	
		Parathion Ethyl	0.24	U	ng/L	P411974	
		Parathion Methyl	0.53	U	ng/L	P411974	
		Pendimethalin	0.96	U	ng/L	P411974	
		Phenytol**	3.4	U	ng/L	P411974	
		Phorate	0.51	U	ng/L	P411974	
		Prodiamine**	0.17	U	ng/L	P411974	
		Prometon	0.87	U	ng/L	P411974	
		Prometryn	0.19	U	ng/L	P411974	
		Pronamide**	0.14	U	ng/L	P411974	
		Propanil**	0.12	U	ng/L	P411974	
		Propargite**	1.4	U	ng/L	P411974	
		Propiconazole**	0.48	U	ng/L	P411974	
		Pyraflufen Ethyl**	0.24	UJ	ng/L	P411974	LCS
		Pyridaben**	0.43	U	ng/L	P411974	
		Pyriproxyfen**	0.12	U	ng/L	P411974	
		Simazine	0.48	U	ng/L	P411974	
		Stirophos**	0.12	U	ng/L	P411974	
		Sulfentrazone**	0.48	U	ng/L	P411974	
		Tebuconazole**	0.48	U	ng/L	P411974	RPD
		Terbufos	0.096	U	ng/L	P411974	
		Terbutylazine	0.41	U	ng/L	P411974	
		Thiobencarb**	0.58	U	ng/L	P411974	
		Triadimefon**	0.24	U	ng/L	P411974	

Ref. Method and Comment:

SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 8321B: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

EPA 8270E: Sample expired for preparation for octinoxate due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction. Refer to the Lab Analysis Report for an explanation of QC Codes. Insufficient sample available to confirm the results.

EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes. Sample expired for preparation for caffeine and oxadiazon due to need for re-extraction. Insufficient sample available to perform duplicate matrix spikes in re-extraction in re-extraction.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P411728

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: DEP SOP: NU-094-1
Batch ID: P411729

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411716

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411905

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411908

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411761

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411737

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411738

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411945

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

Reference Method: EPA 8270E
Batch ID: P411974

Component	Result	Code	Units
Acetochlor	0.25	U	ng/L
Acetochlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Alachlor	0.25	U	ng/L
Ametryn	0.60	U	ng/L
Ametryn	0.60	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine	0.25	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Atrazine Desethyl	1.5	U	ng/L
Avobenzone	100	U	ng/L
Avobenzone	100	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azinphos Methyl	2.0	U	ng/L
Azoxystrobin	0.50	U	ng/L
Azoxystrobin	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Bromacil	0.50	U	ng/L
Butylate	0.40	U	ng/L
Butylate	0.40	U	ng/L
Carbophenothion	0.20	U	ng/L
Carbophenothion	0.20	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Carfentrazone Ethyl	0.10	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorfenapyr	0.18	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Ethyl	0.25	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Chlorpyrifos Methyl	0.050	U	ng/L
Coumaphos	0.50	U	ng/L
Coumaphos	0.50	U	ng/L
Cyanazine	3.2	U	ng/L
Cyanazine	3.2	U	ng/L
Cyprodinil	0.10	U	ng/L
Cyprodinil	0.10	U	ng/L
Demeton	1.5	U	ng/L
Demeton	1.5	U	ng/L
Diazinon	0.12	U	ng/L
Diazinon	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411974

Component	Result	Code	Units
Difenoconazole	0.60	U	ng/L
Difenoconazole	0.60	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethenamid	0.10	U	ng/L
Dimethomorph	0.18	U	ng/L
Dimethomorph	0.18	U	ng/L
Disulfoton	0.50	U	ng/L
Disulfoton	0.50	U	ng/L
Dithiopyr	0.18	U	ng/L
Dithiopyr	0.18	U	ng/L
EPTC	1.2	U	ng/L
EPTC	1.2	U	ng/L
Ethion	0.15	U	ng/L
Ethion	0.15	U	ng/L
Ethoprop	0.10	U	ng/L
Ethoprop	0.10	U	ng/L
Etridiazole	0.15	U	ng/L
Etridiazole	0.15	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenamiphos	0.50	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fenbuconazole	0.12	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil	0.25	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Desulfinyl	0.12	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfide	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fipronil Sulfone	0.15	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fluazifop-P-butyl	0.10	U	ng/L
Fludioxonil	0.12	U	ng/L
Fludioxonil	0.12	U	ng/L
Flumioxazin	1.8	U	ng/L
Flumioxazin	1.8	U	ng/L
Flutolanil	0.10	U	ng/L
Flutolanil	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fluxapyroxad	0.10	U	ng/L
Fonofos	0.20	U	ng/L
Fonofos	0.20	U	ng/L
Hexazinone	0.50	U	ng/L
Hexazinone	0.50	U	ng/L
Imazalil	0.75	U	ng/L
Imazalil	0.75	U	ng/L
Iprodione	0.60	U	ng/L
Iprodione	0.60	U	ng/L
Loratadine	0.10	U	ng/L
Loratadine	0.10	U	ng/L
Malathion	0.35	U	ng/L
Malathion	0.35	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411974

Component	Result	Code	Units
Metalaxyl	0.75	U	ng/L
Metalaxyl	0.75	U	ng/L
Metolachlor	0.35	U	ng/L
Metolachlor	0.35	U	ng/L
Metribuzin	2.5	U	ng/L
Metribuzin	2.5	U	ng/L
Mevinphos	1.0	U	ng/L
Mevinphos	1.0	U	ng/L
Molinate	0.30	U	ng/L
Molinate	0.30	U	ng/L
Myclobutanil	0.25	U	ng/L
Myclobutanil	0.25	U	ng/L
Naled	1.5	U	ng/L
Naled	1.5	U	ng/L
Napropamide	0.40	U	ng/L
Napropamide	0.40	U	ng/L
Norflurazon	0.50	U	ng/L
Norflurazon	0.50	U	ng/L
Oxybenzone	10	U	ng/L
Oxybenzone	10	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Oxyfluorfen	0.15	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Ethyl	0.25	U	ng/L
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
Pendimethalin	1.0	U	ng/L
Pendimethalin	1.0	U	ng/L
Phenytoin	3.5	U	ng/L
Phenytoin	3.5	U	ng/L
Phorate	0.52	U	ng/L
Phorate	0.52	U	ng/L
Prodiamine	0.18	U	ng/L
Prodiamine	0.18	U	ng/L
Prometon	0.90	U	ng/L
Prometon	0.90	U	ng/L
Prometryn	0.20	U	ng/L
Prometryn	0.20	U	ng/L
Pronamide	0.15	U	ng/L
Pronamide	0.15	U	ng/L
Propanil	0.12	U	ng/L
Propanil	0.12	U	ng/L
Propargite	1.5	U	ng/L
Propargite	1.5	U	ng/L
Propiconazole	0.50	U	ng/L
Propiconazole	0.50	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyraflufen Ethyl	0.25	U	ng/L
Pyridaben	0.45	U	ng/L
Pyridaben	0.45	U	ng/L
Pyriproxyfen	0.12	U	ng/L
Pyriproxyfen	0.12	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P411974

Component	Result	Code	Units
Simazine	0.50	U	ng/L
Simazine	0.50	U	ng/L
Stirophos	0.12	U	ng/L
Stirophos	0.12	U	ng/L
Sulfentrazone	0.50	U	ng/L
Sulfentrazone	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Tebuconazole	0.50	U	ng/L
Terbufos	0.10	U	ng/L
Terbufos	0.10	U	ng/L
Terbuthylazine	0.42	U	ng/L
Terbuthylazine	0.42	U	ng/L
Thiobencarb	0.60	U	ng/L
Thiobencarb	0.60	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Reference Method: EPA 8270E

Batch ID: P412360

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	U	ng/L
Octinoxate	20	U	ng/L
Octinoxate	20	U	ng/L
Oxadiazon	0.30	U	ng/L
Oxadiazon	0.30	U	ng/L

Reference Method: EPA 8321B

Batch ID: P411656

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

Reference Method: EPA 8321B

Batch ID: P411659

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B

Batch ID: P411659

Component	Result	Code	Units
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.016	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.020	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	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
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011

Batch ID: P411966

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

Reference Method: SM 2320 B-2011

Batch ID: P411967

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

Reference Method: SM 2540 C-2011

Batch ID: P411923

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011

Batch ID: P411892

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011

Batch ID: P411970

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Quality Assurance Report

Method Blank Results

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P411792

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

Reference Method: SM 5310 B-2011
Batch ID: P412045

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: NU-094-1
Batch ID: P411728

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

Reference Method: DEP SOP: NU-094-1
Batch ID: P411729

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	102		P	85 - 115

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411716

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411905

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	98.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411908

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411761

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411737

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	97.5		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411738

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

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: P411945

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

Reference Method: EPA 8270E
Batch ID: P411974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acetochlor	106		P	70 - 121
Alachlor	92.9		P	68 - 119
Ametryn	109		P	64 - 139
Atrazine	91.2		P	76 - 120
Atrazine Desethyl	66.0		P	44 - 126
Avobenzone	142		P	76 - 212
Azinphos Methyl	74.7		P	43 - 192
Azoxystrobin	86.8		P	36 - 224
Bromacil	111		P	52 - 121
Butylate	63.6		P	28 - 91.0
Carbophenothion	111		P	56 - 129
Carfentrazone Ethyl	126		P	60 - 141
Chlorfenapyr	83.6		P	56 - 115
Chlorpyrifos Ethyl	93.9		P	60 - 118
Chlorpyrifos Methyl	90.6		P	68 - 119
Coumaphos	178		P	18 - 250
Cyanazine	181		P	61 - 250
Cyprodinil	123		P	55 - 145
Demeton	72.7		P	30 - 159
Diazinon	104		P	70 - 123
Difenoconazole	85.7		P	49 - 204
Dimethenamid	85.7		P	64 - 115
Dimethomorph	97.2		P	12 - 219
Disulfoton	81.4		P	44 - 125
Dithiopyr	98.2		P	64 - 115
EPTC	59.6		P	28 - 86.0
Ethion	81.5		P	33 - 125
Ethoprop	91.2		P	64 - 116
Etridiazole	75.4		P	34 - 91.0
Fenamiphos	106		P	12 - 127
Fenbuconazole	149		P	59 - 151
Fipronil	107		P	67 - 129
Fipronil Desulfinyl	103		P	65 - 127
Fipronil Sulfide	87.1		P	61 - 116
Fipronil Sulfone	105		P	55 - 117
Fluazifop-P-butyl	93.5		P	62 - 127
Fludioxonil	116		P	62 - 128
Flumioxazin	135		P	33 - 250
Flutolanil	94.3		P	56 - 127
Fluxapyroxad	75.0		P	45 - 128

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P411974

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fonofos	84.3		P	62 - 111
Hexazinone	94.8		P	46 - 139
Imazalil	65.6		P	38 - 142
Iprodione	88.9		P	47 - 135
Loratadine	62.6		P	10 - 244
Malathion	108		P	61 - 139
Metalaxyl	89.2		P	10 - 119
Metolachlor	100		P	65 - 118
Metribuzin	85.0		P	51 - 250
Mevinphos	81.1		P	53 - 121
Molinate	72.2		P	42 - 96.0
Myclobutanil	110		P	55 - 128
Naled	86.8		P	10 - 98.0
Napropamide	87.4		P	49 - 121
Norflurazon	61.4		P	61 - 126
Oxybenzone	88.8		P	61 - 139
Oxyfluorfen	113		P	64 - 137
Parathion Ethyl	92.6		P	70 - 112
Parathion Methyl	101		P	76 - 133
Pendimethalin	80.2		P	52 - 117
Phenytain	133		P	10 - 199
Phorate	91.1		P	48 - 121
Prodiamine	130		P	26 - 142
Prometon	120		P	43 - 123
Prometryn	113		P	66 - 127
Pronamide	101		P	75 - 121
Propanil	92.8		P	45 - 150
Propargite	159		P	42 - 208
Propiconazole	67.8		P	60 - 125
Pyraflufen Ethyl	141		F	70 - 138
Pyridaben	205		P	35 - 245
Pyriproxyfen	90.6		P	30 - 149
Simazine	93.9		P	72 - 125
Stirophos	89.6		P	29 - 164
Sulfentrazone	98.7		P	21 - 139
Tebuconazole	45.9		P	10 - 115
Terbufos	108		P	60 - 123
Terbuthylazine	89.4		P	72 - 115
Thiobencarb	95.5		P	31 - 139
Triadimefon	87.7		P	65 - 116

Reference Method: EPA 8270E
Batch ID: P412360

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Caffeine	81.0	76.9	P/P	50 - 134
Octinoxate	124	101	P/P	30 - 159
Oxadiazon	63.5	64.3	P/P	59 - 116

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8321B

Batch ID: P411656

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	109		P	40 - 150
AMPA	111		P	40 - 150
Endothall	80.1		P	40 - 150
Glufosinate	137		P	40 - 150
Glyphosate	129		P	40 - 150
Sucralose	111		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P411659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	128		P	30 - 160
2,4,5-T	85.1		P	30 - 160
Acetaminophen	86.3		P	30 - 150
Acetamiprid	106		P	30 - 160
Afidopyropen	84.1		P	30 - 160
Bentazon	39.6		P	30 - 150
Benzovindiflupyr	105		P	30 - 160
Carbamazepine	106		P	30 - 160
Clothianidin	105		P	30 - 160
Dinotefuran	101		P	30 - 160
Diuron	92.8		P	30 - 160
Fenuron	101		P	30 - 160
Fluridone	97.6		P	30 - 160
Hydrocodone	94.5		P	30 - 160
Ibuprofen	82.7		P	30 - 160
Imazapyr	127		P	30 - 160
Imidacloprid	94.9		P	30 - 160
Linuron	85.0		P	30 - 160
Mandestrobin	98.6		P	30 - 160
MCPP	103		P	30 - 160
Naproxen	74.3		P	30 - 160
Primidone	107		P	30 - 160
Pyraclostrobin	88.1		P	30 - 160
Silvex	72.6		P	30 - 160
Thiamethoxam	101		P	30 - 160
Tolfenpyrad	56.4		P	30 - 160
Triclopyr	96.1		P	30 - 160

Reference Method: SM 2320 B-2011

Batch ID: P411966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.0		P	94 - 106

Reference Method: SM 2320 B-2011

Batch ID: P411967

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.5		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 4500-F- C-2011
Batch ID: P411970

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	93 - 104

Reference Method: SM 5310 B-2011
Batch ID: P411792

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	93.7		P	85 - 115

Reference Method: SM 5310 B-2011
Batch ID: P412045

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	94.8		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411905

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314848	Chloride	97.8		P	90 - 110
2315096	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314848	Sulfate	97.5		P	90 - 110
2315096	Sulfate	97.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411761

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315048	Ammonia-N	93.2	93.4	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314853	Kjeldahl Nitrogen	94.8	91.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411737

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315048	NO2NO3-N	97.0	97.0	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411738

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315051	NO2NO3-N	96.6	97.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411944

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314876	Total-P	103	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P411945

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315144	Total-P	103	108	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	Acetochlor	106	109	P/P	65 - 124
2315461	Alachlor	94.9	94.6	P/P	61 - 121

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	Ametryn	125	110	P/P	52 - 216
2315461	Atrazine	105	105	P/P	68 - 133
2315461	Atrazine Desethyl	68.2	73.3	P/P	15 - 160
2315461	Avobenzone	95.4	87.6	P/P	59 - 206
2315461	Azinphos Methyl	86.5	85.4	P/P	40 - 292
2315461	Azoxystrobin	117	121	P/P	12 - 242
2315461	Bromacil	123	112	P/P	54 - 167
2315461	Butylate	39.9	34.7	P/P	14 - 94.0
2315461	Carbophenothion	127	109	F/P	49 - 122
2315461	Carfentrazone Ethyl	131	132	P/P	53 - 138
2315461	Chlorfenapyr	87.1	84.0	P/P	50 - 150
2315461	Chlorpyrifos Ethyl	103	94.2	P/P	52 - 122
2315461	Chlorpyrifos Methyl	97.1	91.4	P/P	66 - 117
2315461	Coumaphos	201	184	P/P	50 - 220
2315461	Cyanazine	176	146	P/P	43 - 245
2315461	Cyprodinil	132	131	P/P	50 - 150
2315461	Demeton	89.2	79.9	P/P	43 - 188
2315461	Diazinon	108	106	P/P	69 - 131
2315461	Difenoconazole	100	109	P/P	34 - 231
2315461	Dimethenamid	85.5	85.3	P/P	55 - 118
2315461	Dimethomorph	112	115	P/P	50 - 150
2315461	Disulfoton	94.5	87.2	P/P	38 - 141
2315461	Dithiopyr	98.3	105	P/P	42 - 116
2315461	EPTC	36.4	32.4	P/P	18 - 85.0
2315461	Ethion	95.4	88.8	P/P	10 - 131
2315461	Ethoprop	96.1	93.0	P/P	65 - 129
2315461	Etridiazole	59.3	51.8	P/P	50 - 150
2315461	Fenamiphos	125	113	P/P	31 - 137
2315461	Fenbuconazole	142	156	P/P	57 - 160
2315461	Fipronil	116	116	P/P	62 - 132
2315461	Fipronil Desulfinyl	98.7	96.3	P/P	57 - 131
2315461	Fipronil Sulfide	99.4	89.2	P/P	15 - 138
2315461	Fipronil Sulfone	121	110	P/P	21 - 134
2315461	Fluazifop-P-butyl	98.3	93.4	P/P	54 - 133
2315461	Fludioxonil	121	117	P/P	58 - 127
2315461	Flumioxazin	195	117	P/P	33 - 300
2315461	Flutolanil	102	95.8	P/P	42 - 130
2315461	Fluxapyroxad	59.7	73.8	P/P	23 - 141
2315461	Fonofos	97.4	92.5	P/P	58 - 119
2315461	Hexazinone	104	104	P/P	68 - 172
2315461	Imazalil	79.3	79.9	P/P	48 - 283
2315461	Iprodione	82.3	96.3	P/P	38 - 140
2315461	Loratadine	79.0	91.4	P/P	50 - 150
2315461	Malathion	118	111	P/P	40 - 137
2315461	Metalaxyl	88.8	93.2	P/P	21 - 129
2315461	Metolachlor	104	109	P/P	55 - 122
2315461	Metribuzin	101	82.5	P/P	38 - 187
2315461	Mevinphos	81.9	81.4	P/P	54 - 134
2315461	Molinate	58.7	56.4	P/P	41 - 97.0
2315461	Myclobutanil	115	118	P/P	56 - 125
2315461	Naled	89.0	75.8	P/P	10 - 108
2315461	Napropamide	91.5	88.3	P/P	50 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
 Batch ID: P411974

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315461	Norflurazon	77.9	82.5	P/P	32 - 122
2315461	Oxybenzone	101	91.5	P/P	59 - 147
2315461	Oxyfluorfen	124	119	P/P	61 - 153
2315461	Parathion Ethyl	96.8	104	P/P	59 - 130
2315461	Parathion Methyl	107	113	P/P	65 - 155
2315461	Pendimethalin	99.0	102	P/P	49 - 138
2315461	Phenytoin	136	145	P/P	50 - 200
2315461	Phorate	101	91.3	P/P	54 - 161
2315461	Prodiamine	74.6	63.9	P/P	33 - 161
2315461	Prometon	136	125	P/P	48 - 140
2315461	Prometryn	126	118	P/P	55 - 134
2315461	Pronamide	118	112	P/P	66 - 137
2315461	Propanil	90.3	92.1	P/P	50 - 150
2315461	Propargite	166	156	P/P	50 - 200
2315461	Propiconazole	139	140	P/P	36 - 150
2315461	Pyraflufen Ethyl	148	125	P/P	50 - 150
2315461	Pyridaben	101	103	P/P	50 - 200
2315461	Pyriproxyfen	90.1	104	P/P	10 - 165
2315461	Simazine	101	100	P/P	57 - 145
2315461	Stiophos	97.3	82.9	P/P	50 - 150
2315461	Sulfentrazone	75.2	83.6	P/P	34 - 140
2315461	Tebuconazole	44.8	82.7	P/P	10 - 127
2315461	Terbufos	120	112	P/P	59 - 138
2315461	Terbutylazine	99.3	97.2	P/P	68 - 119
2315461	Thiobencarb	97.4	99.7	P/P	50 - 150
2315461	Triadimefon	93.9	94.7	P/P	50 - 150

Reference Method: EPA 8270E
 Batch ID: P412360

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315732	Caffeine	94.9		P	10 - 226
2315732	Octinoxate	64.7		P	25 - 150
2315732	Oxadiazon	57.0		P	40 - 119

Reference Method: EPA 8321B
 Batch ID: P411656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314412	Acesulfame K	139	132	P/P	40 - 150
2314412	AMPA	108	103	P/P	40 - 150
2314412	Endothall	129	114	P/P	40 - 150
2314412	Glufosinate	114	101	P/P	40 - 150
2314412	Glyphosate	105	102	P/P	40 - 150
2314412	Sucralose	116	98.4	P/P	40 - 150

Reference Method: EPA 8321B
 Batch ID: P411659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314706	2,4-D	100	117	P/P	30 - 160
2314706	2,4,5-T	72.1	73.5	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P411659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2314706	Acetaminophen	101	97.3	P/P	30 - 150
2314706	Acetamiprid	117	122	P/P	30 - 160
2314706	Afidopyropen	75.0	77.5	P/P	30 - 160
2314706	Benzovindiflupyr	92.7	94.5	P/P	30 - 160
2314706	Carbamazepine	86.1	99.4	P/P	30 - 160
2314706	Clothianidin	123	131	P/P	30 - 160
2314706	Dinotefuran	129	135	P/P	30 - 160
2314706	Diuron	78.3	86.4	P/P	30 - 160
2314706	Fenuron	82.8	88.8	P/P	30 - 160
2314706	Fluridone	81.5	99.0	P/P	30 - 160
2314706	Hydrocodone	97.2	98.1	P/P	30 - 160
2314706	Ibuprofen	53.1	70.0	P/P	30 - 160
2314706	Imidacloprid	171	189	F/F	30 - 160
2314706	Linuron	77.5	70.7	P/P	30 - 160
2314706	Mandestrobin	94.2	101	P/P	30 - 160
2314706	MCCP	91.2	94.9	P/P	30 - 160
2314706	Naproxen	73.2	62.7	P/P	30 - 160
2314706	Primidone	106	112	P/P	30 - 160
2314706	Pyraclostrobin	79.9	83.3	P/P	30 - 160
2314706	Silvex	75.5	82.4	P/P	30 - 160
2314706	Thiamethoxam	152	164	P/F	30 - 160
2314706	Tolfenpyrad	54.5	51.6	P/P	30 - 160
2314706	Triclopyr	84.7	75.8	P/P	30 - 160

Reference Method: SM 4500-F- C-2011

Batch ID: P411970

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315428	Fluoride	98.3	98.9	P/P	92 - 107

Reference Method: SM 4500-F- C-2011

Batch ID: P411971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315236	Fluoride	100	99.9	P/P	92 - 107

Reference Method: SM 5310 B-2011

Batch ID: P411792

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315048	Organic Carbon	94.2	96.8	P/P	85 - 115

Reference Method: SM 5310 B-2011

Batch ID: P412045

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2315447	Organic Carbon	97.7	97.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P411728

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315000	Color (true)	0.753	Sample	P	0 - 20

Reference Method: DEP SOP: NU-094-1
Batch ID: P411729

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315145	Color (true)	1.48	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P411716

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315000	Turbidity	7.66	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411905

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314848	Chloride	0.367	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P411908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314848	Sulfate	0.0383	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P411761

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315048	Ammonia-N	0.154	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P412165

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314853	Kjeldahl Nitrogen	3.15	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P411737

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315048	NO2NO3-N	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P411738

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315051	NO2NO3-N	0.363	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411944

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314876	Total-P	0.840	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P411945

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315144	Total-P	3.85	Spike	P	0 - 20

Reference Method: EPA 8270E

Batch ID: P411974

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315461	Acetochlor	2.45	Spike	P	0 - 27
2315461	Alachlor	0.313	Spike	P	0 - 27
2315461	Ametryn	12.5	Spike	P	0 - 34
2315461	Atrazine	0.134	Spike	P	0 - 41
2315461	Atrazine Desethyl	7.12	Spike	P	0 - 38
2315461	Avobenzone	6.28	Spike	P	0 - 30
2315461	Azinphos Methyl	1.28	Spike	P	0 - 62
2315461	Azoxystrobin	3.21	Spike	P	0 - 32
2315461	Bromacil	9.26	Spike	P	0 - 30
2315461	Butylate	14.1	Spike	P	0 - 59
2315461	Carbophenothion	14.7	Spike	P	0 - 25
2315461	Carfentrazone Ethyl	0.804	Spike	P	0 - 26
2315461	Chlorfenapyr	3.63	Spike	P	0 - 30
2315461	Chlorpyrifos Ethyl	8.71	Spike	P	0 - 27
2315461	Chlorpyrifos Methyl	6.02	Spike	P	0 - 26
2315461	Coumaphos	9.08	Spike	P	0 - 30
2315461	Cyanazine	19.0	Spike	P	0 - 58
2315461	Cyprodinil	0.476	Spike	P	0 - 30
2315461	Demeton	11.1	Spike	P	0 - 25
2315461	Diazinon	1.44	Spike	P	0 - 29
2315461	Difenoconazole	8.49	Spike	P	0 - 25
2315461	Dimethenamid	0.246	Spike	P	0 - 30
2315461	Dimethomorph	2.29	Spike	P	0 - 30
2315461	Disulfoton	8.02	Spike	P	0 - 33
2315461	Dithiopyr	6.39	Spike	P	0 - 22
2315461	EPTC	11.5	Spike	P	0 - 38
2315461	Ethion	7.12	Spike	P	0 - 79
2315461	Ethoprop	3.26	Spike	P	0 - 23
2315461	Etridiazole	13.5	Spike	P	0 - 30
2315461	Fenamiphos	9.50	Spike	P	0 - 58

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P411974

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315461	Fenbuconazole	9.17	Spike	P	0 - 37
2315461	Fipronil	0.000537	Spike	P	0 - 33
2315461	Fipronil Desulfinyl	2.41	Spike	P	0 - 26
2315461	Fipronil Sulfide	10.8	Spike	P	0 - 37
2315461	Fipronil Sulfone	9.42	Spike	P	0 - 50
2315461	Fluazifop-P-butyl	5.17	Spike	P	0 - 24
2315461	Fludioxonil	3.80	Spike	P	0 - 26
2315461	Flumioxazin	50.5	Spike	F	0 - 37
2315461	Flutolanil	6.01	Spike	P	0 - 26
2315461	Fluxapyroxad	19.6	Spike	P	0 - 34
2315461	Fonofos	5.22	Spike	P	0 - 27
2315461	Hexazinone	0.481	Spike	P	0 - 36
2315461	Imazalil	0.740	Spike	P	0 - 65
2315461	Iprodione	15.7	Spike	P	0 - 33
2315461	Loratadine	14.6	Spike	P	0 - 30
2315461	Malathion	6.17	Spike	P	0 - 44
2315461	Metalaxyl	4.86	Spike	P	0 - 38
2315461	Metolachlor	3.53	Spike	P	0 - 36
2315461	Metribuzin	20.4	Spike	P	0 - 63
2315461	Mevinphos	0.592	Spike	P	0 - 26
2315461	Molinate	4.11	Spike	P	0 - 40
2315461	Myclobutanil	2.19	Spike	P	0 - 21
2315461	Naled	16.1	Spike	P	0 - 26
2315461	Napropamide	3.59	Spike	P	0 - 30
2315461	Norflurazon	5.81	Spike	P	0 - 24
2315461	Oxybenzone	9.44	Spike	P	0 - 30
2315461	Oxyfluorfen	4.29	Spike	P	0 - 24
2315461	Parathion Ethyl	6.96	Spike	P	0 - 28
2315461	Parathion Methyl	5.23	Spike	P	0 - 27
2315461	Pendimethalin	3.15	Spike	P	0 - 31
2315461	Phenytoin	6.19	Spike	P	0 - 30
2315461	Phorate	10.5	Spike	P	0 - 27
2315461	Prodiamine	15.5	Spike	P	0 - 52
2315461	Prometon	8.76	Spike	P	0 - 31
2315461	Prometryn	5.92	Spike	P	0 - 28
2315461	Pronamide	5.16	Spike	P	0 - 26
2315461	Propanil	2.02	Spike	P	0 - 30
2315461	Propargite	6.14	Spike	P	0 - 30
2315461	Propiconazole	0.602	Spike	P	0 - 31
2315461	Pyraflufen Ethyl	16.9	Spike	P	0 - 30
2315461	Pyridaben	2.38	Spike	P	0 - 30
2315461	Pyriproxyfen	14.8	Spike	P	0 - 50
2315461	Simazine	0.252	Spike	P	0 - 29
2315461	Stirophos	14.9	Spike	P	0 - 30
2315461	Sulfentrazone	10.6	Spike	P	0 - 33
2315461	Tebuconazole	59.4	Spike	F	0 - 44
2315461	Terbufos	6.61	Spike	P	0 - 29
2315461	Terbuthylazine	2.06	Spike	P	0 - 27
2315461	Thiobencarb	2.31	Spike	P	0 - 30
2315461	Triadimefon	0.863	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P412360

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Caffeine	5.23	LCS	P	0 - 27
LFB	Octinoxate	21.2	LCS	P	0 - 30
LFB	Oxadiazon	1.27	LCS	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P411656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314412	Acesulfame K	4.90	Spike	P	0 - 30
2314412	AMPA	4.01	Spike	P	0 - 30
2314412	Endothall	12.1	Spike	P	0 - 30
2314412	Glufosinate	11.5	Spike	P	0 - 30
2314412	Glyphosate	3.49	Spike	P	0 - 30
2314412	Sucralose	15.4	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P411659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314706	2,4-D	12.5	Spike	P	0 - 30
2314706	2,4,5-T	1.84	Spike	P	0 - 30
2314706	Acetaminophen	4.00	Spike	P	0 - 30
2314706	Acetamiprid	4.02	Spike	P	0 - 30
2314706	Afidopyropen	3.28	Spike	P	0 - 30
2314706	Bentazon	3.25	Spike	P	0 - 30
2314706	Benzovindiflupyr	1.90	Spike	P	0 - 30
2314706	Carbamazepine	8.53	Spike	P	0 - 30
2314706	Clothianidin	6.29	Spike	P	0 - 30
2314706	Dinotefuran	4.51	Spike	P	0 - 30
2314706	Diuron	9.44	Spike	P	0 - 30
2314706	Fenuron	6.94	Spike	P	0 - 30
2314706	Fluridone	13.5	Spike	P	0 - 30
2314706	Hydrocodone	0.908	Spike	P	0 - 30
2314706	Ibuprofen	27.6	Spike	P	0 - 30
2314706	Imazapyr	14.4	Spike	P	0 - 30
2314706	Imidacloprid	8.86	Spike	P	0 - 30
2314706	Linuron	9.19	Spike	P	0 - 30
2314706	Mandestrobin	6.58	Spike	P	0 - 30
2314706	MCPP	3.61	Spike	P	0 - 30
2314706	Naproxen	15.4	Spike	P	0 - 30
2314706	Primidone	4.85	Spike	P	0 - 30
2314706	Pyraclostrobin	4.13	Spike	P	0 - 30
2314706	Silvex	8.80	Spike	P	0 - 30
2314706	Thiamethoxam	7.61	Spike	P	0 - 30
2314706	Tolfenpyrad	5.44	Spike	P	0 - 30
2314706	Triclopyr	11.2	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P411966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315428	Total Alkalinity	1.92	Sample	P	0 - 5.2

Reference Method: SM 2320 B-2011
Batch ID: P411967

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315236	Total Alkalinity	0.837	Sample	P	0 - 5.2

Reference Method: SM 2540 C-2011
Batch ID: P411923

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2314848	TDS	0.712	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P411970

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315428	Fluoride	0.490	Spike	P	0 - 2.1

Reference Method: SM 4500-F- C-2011
Batch ID: P411971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315236	Fluoride	0.483	Spike	P	0 - 2.1

Reference Method: SM 5310 B-2011
Batch ID: P411792

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315048	Organic Carbon	1.48	Spike	P	0 - 20

Reference Method: SM 5310 B-2011
Batch ID: P412045

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2315447	Organic Carbon	0.593	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2315068
Field Sample ID: G3SD0225

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	87.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	90.6	P	30 - 160
EPA 8321B	Carbamazepine-d10	102	P	30 - 160
EPA 8321B	Diuron-d6	82.1	P	30 - 160
EPA 8321B	Endothall-d6	101	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	86.2	P	30 - 160
EPA 8321B	Ibuprofen-d3	88.2	P	30 - 160
EPA 8321B	Primidone-d5	134	P	30 - 160
EPA 8321B	Sucralose-d6	99.6	P	30 - 160

Lab Sample ID: 2315069
Field Sample ID: FB_03282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	122	P	30 - 160
EPA 8321B	Acetaminophen-d4	82.3	P	30 - 160
EPA 8321B	Carbamazepine-d10	101	P	30 - 160
EPA 8321B	Diuron-d6	81.3	P	30 - 160
EPA 8321B	Endothall-d6	107	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	110	P	30 - 160
EPA 8321B	Ibuprofen-d3	99.2	P	30 - 160
EPA 8321B	Primidone-d5	95.1	P	30 - 160
EPA 8321B	Sucralose-d6	131	P	30 - 160

Lab Sample ID: 2315070
Field Sample ID: G3SD0225

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	41.4	P	20 - 200
EPA 8270E	Caffeine-d9	77.5	P	20 - 200
EPA 8270E	Simazine-d10	102	P	71 - 140
EPA 8270E	Simazine-d10	83.5	P	71 - 140
EPA 8270E	Terbufos-d10	98.6	P	62 - 131
EPA 8270E	Terbufos-d10	64.9	P	62 - 131
EPA 8270E	Terphenyl-d14	95.9	P	55 - 108
EPA 8270E	Terphenyl-d14	96.5	P	55 - 108

Lab Sample ID: 2315071
Field Sample ID: FB_03282022

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	34.4	P	20 - 200
EPA 8270E	Caffeine-d9	85.3	P	20 - 200
EPA 8270E	Simazine-d10	106	P	71 - 140
EPA 8270E	Simazine-d10	83.2	P	71 - 140
EPA 8270E	Terbufos-d10	118	P	62 - 131
EPA 8270E	Terbufos-d10	69.8	P	62 - 131
EPA 8270E	Terphenyl-d14	112	F	55 - 108
EPA 8270E	Terphenyl-d14	130	F	55 - 108

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A111208

Included Lab Sample IDs: 2315046, 2315047, 2315050, 2315052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.5	98.6	P/P	90 - 110
Chloride	98.6	103	P/P	90 - 110
Sulfate	98.8	100	P/P	90 - 110
Sulfate	98.9	98.8	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A111213

Included Lab Sample IDs: 2315046, 2315047, 2315050, 2315052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	100	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A111224

Included Lab Sample IDs: 2315046, 2315047, 2315050, 2315052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	101	P/P	85 - 115
Color (true)	101	100	P/P	85 - 115

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A111226

Included Lab Sample IDs: 2315048, 2315049, 2315051, 2315053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	100	98.5	P/P	90 - 110
NO2NO3-N	98.5	100	P/P	90 - 110
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111227

Included Lab Sample IDs: 2315068, 2315069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	95.1	103	P/P	60 - 160
Endothall	102	72.8	P/P	60 - 160
Sucralose	108	109	P/P	60 - 160

Reference Method: EPA 8321B

Run ID: A111231

Included Lab Sample IDs: 2315068, 2315069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	119	124	P/P	60 - 160
Glufosinate	105	112	P/P	60 - 160
Glyphosate	120	115	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A111234

Included Lab Sample IDs: 2315048, 2315049, 2315051, 2315053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.3	98.6	P/P	90 - 110
Ammonia-N	98.6	99.5	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A111243

Included Lab Sample IDs: 2315048, 2315049, 2315051

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.0	93.0	P/P	90 - 110
Organic Carbon	96.4	95.0	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A111305

Included Lab Sample IDs: 2315046, 2315047, 2315050, 2315052

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.7	98.3	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A111305

Included Lab Sample IDs: 2315046, 2315047, 2315050, 2315052

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111336

Included Lab Sample IDs: 2315048, 2315049, 2315051

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A111344

Included Lab Sample IDs: 2315053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A111346

Included Lab Sample IDs: 2315068, 2315069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	109	117	P/P	50 - 150
2,4,5-T	87.3	100	P/P	50 - 150
Acetaminophen	91.2	71.6	P/P	60 - 160
Acetamiprid	112	94.5	P/P	50 - 150
Afidopyropen	99.0	109	P/P	50 - 150
Bentazon	95.6	90.3	P/P	50 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 8321B

Run ID: A111346

Included Lab Sample IDs: 2315068, 2315069

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Benzovindiflupyr	91.9	113	P/P	50 - 150
Carbamazepine	101	94.7	P/P	60 - 150
Clothianidin	110	95.4	P/P	60 - 150
Dinotefuran	103	90.8	P/P	50 - 150
Diuron	98.7	108	P/P	60 - 160
Fenuron	99.7	89.4	P/P	60 - 150
Fluridone	100	113	P/P	60 - 160
Hydrocodone	101	95.5	P/P	60 - 150
Ibuprofen	95.4	74.1	P/P	50 - 160
Imazapyr	124	146	P/P	50 - 150
Imidacloprid	96.5	93.8	P/P	60 - 150
Linuron	92.1	85.3	P/P	60 - 150
Mandestrobin	112	115	P/P	50 - 150
MCPP	92.1	110	P/P	50 - 150
Naproxen	95.0	97.7	P/P	50 - 160
Primidone	104	110	P/P	60 - 150
Pyraclostrobin	94.8	104	P/P	60 - 150
Silvex	91.8	92.5	P/P	50 - 150
Thiamethoxam	105	92.9	P/P	50 - 150
Tolfenpyrad	90.3	110	P/P	60 - 150
Triclopyr	96.5	121	P/P	50 - 150

Reference Method: SM 5310 B-2011

Run ID: A111353

Included Lab Sample IDs: 2315053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.4	97.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111387

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Avobenzone	102		P	80 - 120
Oxybenzone	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A111414

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	104		P	80 - 120
Alachlor	102		P	80 - 120
Ametryn	99.1		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	105		P	80 - 120
Azoxystrobin	106		P	80 - 120
Bromacil	107		P	80 - 120
Butylate	98.6		P	80 - 120
Carbophenothion	99.0		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111414

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Carfentrazone Ethyl	105		P	80 - 120
Chlorfenapyr	95.9		P	80 - 120
Chlorpyrifos Ethyl	97.7		P	80 - 120
Chlorpyrifos Methyl	98.5		P	80 - 120
Coumaphos	108		P	80 - 120
Cyanazine	107		P	80 - 120
Cyprodinil	103		P	80 - 120
Demeton	99.1		P	80 - 120
Diazinon	100		P	80 - 120
Difenoconazole	119		P	80 - 120
Dimethenamid	106		P	80 - 120
Dimethomorph	103		P	80 - 120
Disulfoton	101		P	80 - 120
Dithiopyr	104		P	80 - 120
EPTC	100		P	80 - 120
Ethion	99.3		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	101		P	80 - 120
Fenbuconazole	107		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	106		P	80 - 120
Fipronil Sulfide	101		P	80 - 120
Fipronil Sulfone	110		P	80 - 120
Fluazifop-P-butyl	107		P	80 - 120
Fludioxonil	113		P	80 - 120
Flumioxazin	89.3		P	80 - 120
Flutolanil	108		P	80 - 120
Fluxapyroxad	114		P	80 - 120
Fonofos	103		P	80 - 120
Hexazinone	100		P	80 - 120
Imazalil	104		P	80 - 120
Loratadine	103		P	80 - 120
Malathion	103		P	80 - 120
Metaxyl	102		P	80 - 120
Metolachlor	108		P	80 - 120
Metribuzin	89.0		P	80 - 120
Mevinphos	100		P	80 - 120
Molinate	98.6		P	80 - 120
Myclobutanil	107		P	80 - 120
Naled	103		P	80 - 120
Napropamide	104		P	80 - 120
Oxyfluorfen	97.1		P	80 - 120
Parathion Ethyl	98.5		P	80 - 120
Parathion Methyl	97.7		P	80 - 120
Pendimethalin	103		P	80 - 120
Phenytol	108		P	80 - 120
Phorate	105		P	80 - 120
Prodiamine	91.7		P	80 - 120
Prometon	100		P	80 - 120
Prometryn	105		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111414

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Pronamide	101		P	80 - 120
Propanil	104		P	80 - 120
Propargite	101		P	80 - 120
Propiconazole	103		P	80 - 120
Pyraflufen Ethyl	104		P	80 - 120
Simazine	105		P	80 - 120
Stirophos	100		P	80 - 120
Sulfentrazone	106		P	80 - 120
Tebuconazole	105		P	80 - 120
Terbufos	100		P	80 - 120
Terbuthylazine	107		P	80 - 120
Thiobencarb	106		P	80 - 120
Triadimefon	104		P	80 - 120

Reference Method: EPA 8270E

Run ID: A111421

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Atrazine	104		P	80 - 120
Atrazine Desethyl	92.1		P	80 - 120
Bromacil	101		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	91.7		P	80 - 120
Chlorfenapyr	109		P	80 - 120
Chlorpyrifos Ethyl	110		P	80 - 120
Chlorpyrifos Methyl	97.0		P	80 - 120
Coumaphos	104		P	80 - 120
Cyprodinil	104		P	80 - 120
Dimethenamid	104		P	80 - 120
Dimethomorph	93.7		P	80 - 120
Dithiopyr	113		P	80 - 120
Ethion	110		P	80 - 120
Fipronil	105		P	80 - 120
Fipronil Desulfinyl	102		P	80 - 120
Fluazifop-P-butyl	106		P	80 - 120
Fludioxonil	92.6		P	80 - 120
Flumioxazin	100		P	80 - 120
Flutolanil	102		P	80 - 120
Fluxapyroxad	102		P	80 - 120
Hexazinone	102		P	80 - 120
Iprodione	119		P	80 - 120
Loratadine	94.7		P	80 - 120
Metolachlor	102		P	80 - 120
Napropamide	112		P	80 - 120
Norflurazon	105		P	80 - 120
Prodiamine	116		P	80 - 120
Propiconazole	98.6		P	80 - 120
Pyridaben	100		P	80 - 120
Pyriproxyfen	99.7		P	80 - 120
Stirophos	102		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A111421

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sulfentrazone	111		P	80 - 120
Tebuconazole	95.5		P	80 - 120

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A111453

Included Lab Sample IDs: 2315048, 2315049, 2315051, 2315053

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	103	108	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A111529

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Octinoxate	97.3		P	80 - 120

Reference Method: EPA 8270E

Run ID: A111532

Included Lab Sample IDs: 2315070, 2315071

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Caffeine	97.9		P	80 - 120
Oxadiazon	102		P	80 - 120

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	101				0.753	
	Color (true)	102				1.48	
EPA 180.1 Rev. 2.0	Turbidity	96.2				7.66	
EPA 300.0 Rev. 2.1	Chloride	98.3		97.8	98.2	0.367	
	Sulfate	98.6		97.5	97.3	0.0383	
EPA 350.1 Rev. 2.0	Ammonia-N	96.4		93.2	93.4		0.154
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102		94.8	91.6		3.15
EPA 353.2 Rev. 2.0	NO2NO3-N	97.5		97.0	97.0		0.0
	NO2NO3-N	99.0		96.6	97.0		0.363
EPA 365.1 Rev. 2.0	Total-P	102		103	104		0.840
	Total-P	103		103	108		3.85
EPA 8270E	Acetochlor	106		106	109		2.45
	Alachlor	92.9		94.9	94.6		0.313
	Ametryn	109		125	110		12.5
	Atrazine	91.2		105	105		0.134
	Atrazine Desethyl	66.0		68.2	73.3		7.12
	Avobenzone	142		95.4	87.6		6.28
	Azinphos Methyl	74.7		86.5	85.4		1.28
	Azoxystrobin	86.8		117	121		3.21
	Bromacil	111		123	112		9.26
	Butylate	63.6		39.9	34.7		14.1
	Caffeine	81.0	76.9	94.9		5.23	
	Carbophenothion	111		127	109		14.7
	Carfentrazone Ethyl	126		131	132		0.804
	Chlorfenapyr	83.6		87.1	84.0		3.63
	Chlorpyrifos Ethyl	93.9		103	94.2		8.71
	Chlorpyrifos Methyl	90.6		97.1	91.4		6.02
	Coumaphos	178		201	184		9.08
	Cyanazine	181		176	146		19.0
	Cyprodinil	123		132	131		0.476
	Demeton	72.7		89.2	79.9		11.1
	Diazinon	104		108	106		1.44
	Difenoconazole	85.7		100	109		8.49
	Dimethenamid	85.7		85.5	85.3		0.246
	Dimethomorph	97.2		112	115		2.29
	Disulfoton	81.4		94.5	87.2		8.02
	Dithiopyr	98.2		98.3	105		6.39
	EPTC	59.6		36.4	32.4		11.5
	Ethion	81.5		95.4	88.8		7.12
	Ethoprop	91.2		96.1	93.0		3.26
	Etridiazole	75.4		59.3	51.8		13.5
	Fenamiphos	106		125	113		9.50
	Fenbuconazole	149		142	156		9.17
	Fipronil	107		116	116		0.0005
	Fipronil Desulfinyl	103		98.7	96.3		2.41
	Fipronil Sulfide	87.1		99.4	89.2		10.8
	Fipronil Sulfone	105		121	110		9.42
	Fluazifop-P-butyl	93.5		98.3	93.4		5.17
	Fludioxonil	116		121	117		3.80
	Flumioxazin	135		195	117		50.5
	Flutolanil	94.3		102	95.8		6.01
	Fluxapyroxad	75.0		59.7	73.8		19.6
	Fonofos	84.3		97.4	92.5		5.22
	Hexazinone	94.8		104	104		0.481

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
EPA 8270E	Imazalil	65.6		79.3	79.9			0.740
	Iprodione	88.9		82.3	96.3			15.7
	Loratadine	62.6		79.0	91.4			14.6
	Malathion	108		118	111			6.17
	Metalaxyl	89.2		88.8	93.2			4.86
	Metolachlor	100		104	109			3.53
	Metribuzin	85.0		101	82.5			20.4
	Mevinphos	81.1		81.9	81.4			0.592
	Molinate	72.2		58.7	56.4			4.11
	Myclobutanil	110		115	118			2.19
	Naled	86.8		89.0	75.8			16.1
	Napropamide	87.4		91.5	88.3			3.59
	Norflurazon	61.4		77.9	82.5			5.81
	Octinoxate	124	101	64.7		21.2		
	Oxadiazon	63.5	64.3	57.0		1.27		
	Oxybenzone	88.8		101	91.5			9.44
	Oxyfluorfen	113		124	119			4.29
	Parathion Ethyl	92.6		96.8	104			6.96
	Parathion Methyl	101		107	113			5.23
	Pendimethalin	80.2		99.0	102			3.15
	Phenytol	133		136	145			6.19
	Phorate	91.1		101	91.3			10.5
	Prodiamine	130		74.6	63.9			15.5
	Prometon	120		136	125			8.76
	Prometryn	113		126	118			5.92
	Pronamide	101		118	112			5.16
	Propanil	92.8		90.3	92.1			2.02
	Propargite	159		166	156			6.14
	Propiconazole	67.8		139	140			0.602
	Pyraflufen Ethyl	141		148	125			16.9
	Pyridaben	205		101	103			2.38
	Pyriproxyfen	90.6		90.1	104			14.8
	Simazine	93.9		101	100			0.252
	Stirophos	89.6		97.3	82.9			14.9
	Sulfentrazon	98.7		75.2	83.6			10.6
	Tebuconazole	45.9		44.8	82.7			59.4
	Terbufos	108		120	112			6.61
	Terbuthylazine	89.4		99.3	97.2			2.06
	Thiobencarb	95.5		97.4	99.7			2.31
	Triadimefon	87.7		93.9	94.7			0.863
EPA 8321B	2,4-D	128		100	117			12.5
	2,4,5-T	85.1		72.1	73.5			1.84
	Acesulfame K	109		139	132			4.90
	Acetaminophen	86.3		101	97.3			4.00
	Acetamiprid	106		117	122			4.02
	Afidopyropen	84.1		75.0	77.5			3.28
	AMPA	111		108	103			4.01
	Bentazon	39.6						3.25
	Benzovindiflupyr	105		92.7	94.5			1.90
	Carbamazepine	106		86.1	99.4			8.53
	Clothianidin	105		123	131			6.29
	Dinotefuran	101		129	135			4.51
	Diuron	92.8		78.3	86.4			9.44
	Endothall	80.1		129	114			12.1

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 8321B	Fenuron	101	82.8	88.8			6.94
	Fluridone	97.6	81.5	99.0			13.5
	Glufosinate	137	114	101			11.5
	Glyphosate	129	105	102			3.49
	Hydrocodone	94.5	97.2	98.1			0.908
	Ibuprofen	82.7	53.1	70.0			27.6
	Imazapyr	127					14.4
	Imidacloprid	94.9	171	189			8.86
	Linuron	85.0	77.5	70.7			9.19
	Mandestrobin	98.6	94.2	101			6.58
	MCPP	103	91.2	94.9			3.61
	Naproxen	74.3	73.2	62.7			15.4
	Primidone	107	106	112			4.85
	Pyraclostrobin	88.1	79.9	83.3			4.13
	Silvex	72.6	75.5	82.4			8.80
	Sucralose	111	116	98.4			15.4
	Thiamethoxam	101	152	164			7.61
	Tolfenpyrad	56.4	54.5	51.6			5.44
	Triclopyr	96.1	84.7	75.8			11.2
SM 2320 B-2011	Total Alkalinity	98.0				1.92	
	Total Alkalinity	97.5				0.837	
SM 2540 C-2011	TDS					0.712	
SM 4500-F- C-2011	Fluoride	101	98.3	98.9			0.490
	Fluoride	101	100	99.9			0.483
SM 5310 B-2011	Organic Carbon	93.7	94.2	96.8			1.48
	Organic Carbon	94.8	97.7	97.0			0.593

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2315046, 2315047, 2315050, 2315052
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2315046, 2315047, 2315050, 2315052
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2315046, 2315047, 2315050, 2315052
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2315046, 2315047, 2315050, 2315052
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2315048, 2315049, 2315051, 2315053
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2315048, 2315049, 2315051, 2315053
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2315048, 2315049, 2315051, 2315053
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2315048, 2315049, 2315051, 2315053
EPA 8270E	Analysis of Sunscreen Compounds in Water by GC/MS-SIM	2315070, 2315071
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2315070, 2315071
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2315068, 2315069
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2315046, 2315047, 2315050, 2315052
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2315046, 2315047, 2315050, 2315052
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2315046, 2315047, 2315050, 2315052
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2315046, 2315047, 2315050, 2315052
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2315048, 2315049, 2315051, 2315053

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: NU-094-1	03/29/2022			03/29/2022 15:22	Blanca Fach	2315046
	03/29/2022			03/29/2022 15:23	Blanca Fach	2315050
	03/29/2022			03/29/2022 15:24	Blanca Fach	2315052
	03/29/2022			03/29/2022 15:33	Blanca Fach	2315047
EPA 180.1 Rev. 2.0	03/29/2022			03/29/2022 14:38	Anna M. Plaviak	2315046
	03/29/2022			03/29/2022 14:39	Anna M. Plaviak	2315047
	03/29/2022			03/29/2022 14:41	Anna M. Plaviak	2315050
	03/29/2022			03/29/2022 14:43	Anna M. Plaviak	2315052
EPA 300.0 Rev. 2.1	03/29/2022			04/01/2022 14:21	Anna M. Plaviak	2315046
	03/29/2022			04/01/2022 14:34	Anna M. Plaviak	2315047
	03/29/2022			04/01/2022 14:46	Anna M. Plaviak	2315050
	03/29/2022			04/01/2022 15:22	Anna M. Plaviak	2315052
EPA 350.1 Rev. 2.0	03/29/2022			03/30/2022 12:06	Ping Hua	2315053
	03/29/2022			03/30/2022 12:49	Ping Hua	2315048
	03/29/2022			03/30/2022 12:53	Ping Hua	2315051
	03/29/2022			03/30/2022 12:54	Ping Hua	2315049
EPA 351.2 Rev. 2.0	03/29/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 11:32	Alexandra J Mattheus	2315048
	03/29/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 11:34	Alexandra J Mattheus	2315049
	03/29/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 11:35	Alexandra J Mattheus	2315051
	03/29/2022	04/12/2022 17:06	Samantha L Bates	04/13/2022 11:37	Alexandra J Mattheus	2315053
EPA 353.2 Rev. 2.0	03/29/2022			03/30/2022 10:07	Beverly Y. Sanders	2315051
	03/29/2022			03/30/2022 10:13	Beverly Y. Sanders	2315053
	03/29/2022			03/30/2022 10:41	Beverly Y. Sanders	2315048
	03/29/2022			03/30/2022 10:57	Beverly Y. Sanders	2315049
EPA 365.1 Rev. 2.0	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 11:25	Sarah A Nixon	2315048
	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 11:33	Sarah A Nixon	2315049
	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 11:34	Sarah A Nixon	2315051
	03/29/2022	04/05/2022 17:35	Simonne.V. Calhoun	04/06/2022 14:44	James L Waggeberby	2315053
EPA 8270E	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 18:23	Michael Poppell	2315070
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 18:28	Lipi Saha	2315070
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 18:50	Michael Poppell	2315071
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/07/2022 18:52	Lipi Saha	2315071
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/09/2022 19:32	Michael Poppell	2315070
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/09/2022 19:58	Michael Poppell	2315070
	03/29/2022	04/01/2022 08:00	Rasheda Ghaffari	04/09/2022 20:24	Michael Poppell	2315071
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 18:29	Michael Poppell	2315070
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 18:56	Michael Poppell	2315071
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 19:07	Lipi Saha	2315070
	03/29/2022	04/13/2022 08:30	Rasheda Ghaffari	04/15/2022 19:32	Lipi Saha	2315071
	03/29/2022	03/29/2022 14:00	Hoor Shaik	04/01/2022 11:20	Juyoung Kim	2315068
EPA 8321B	03/29/2022	03/29/2022 14:00	Hoor Shaik	04/01/2022 11:20	Juyoung Kim	2315068

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 8321B	03/29/2022	03/29/2022 14:00	Hoor Shaik	04/01/2022 11:55	Juyoung Kim	2315069
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/29/2022 20:16	Manjita Shrestha	2315068
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/29/2022 20:29	Manjita Shrestha	2315069
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/30/2022 08:02	Manjita Shrestha	2315068
	03/29/2022	03/29/2022 14:00	Manjita Shrestha	03/30/2022 08:17	Manjita Shrestha	2315069
SM 2320 B-2011	03/29/2022			04/02/2022 05:02	Dale L. Simmons	2315046
	03/29/2022			04/02/2022 05:15	Dale L. Simmons	2315047
	03/29/2022			04/02/2022 06:50	Dale L. Simmons	2315050
	03/29/2022			04/02/2022 06:58	Dale L. Simmons	2315052
SM 2540 C-2011	03/29/2022			03/31/2022 15:30	Blanca Fach	2315046, 2315047, 2315050, 2315052
SM 2540 D-2011	03/29/2022			03/31/2022 15:30	Blanca Fach	2315046, 2315047, 2315050, 2315052
SM 4500-F- C-2011	03/29/2022			04/02/2022 05:02	Dale L. Simmons	2315046
	03/29/2022			04/02/2022 05:15	Dale L. Simmons	2315047
	03/29/2022			04/02/2022 06:50	Dale L. Simmons	2315050
	03/29/2022			04/02/2022 06:58	Dale L. Simmons	2315052
SM 5310 B-2011	03/29/2022			03/30/2022 17:54	Khloe J Berg	2315048
	03/29/2022			03/30/2022 18:58	Khloe J Berg	2315051
	03/29/2022			03/31/2022 00:38	Khloe J Berg	2315049
	03/29/2022			04/06/2022 16:38	Khloe J Berg	2315053