Chemical Analysis Report

SO-DIST-2022-08-17-01

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

Event Description: **2022 SMP : Ten Thousand Island**
Request ID: **RQ-2022-08-15-53**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 364
Fort Myers, FL 33901-3381
Attn: William Mullen

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant Date Certified: 07-SEP-2022 09:30

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: ENRE10 Lopez River **Collection Date/Time: 08/16/2022 12:00**

Field ID: G5SD0092 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350115	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P418266	
	SM 2320 B-2011	Total Alkalinity	161		mg CaCO3/L	P418392	
	SM 2540 D-2011	TSS	5	I	mg/L	P418612	
	SM 4500-F- C-2011	Fluoride	0.71		mg F/L	P418404	
2350116	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P418539	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.78		mg N/L	P418644	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.011		mg N/L	P418381	
	EPA 365.1 Rev. 2.0	Total-P	0.033		mg P/L	P418514	
	SM 5310 B-2011	Organic Carbon	10		mg C/L	P418503	
2350138	EPA 8270E	Oxybenzone**	9.4	U	ng/L	P418246	
		Acetochlor	0.24	U	ng/L	P418246	
		Octinoxate**	19	U	ng/L	P418246	
		Alachlor	0.24	U	ng/L	P418246	
		Avobenzone**	94	U	ng/L	P418246	
		Ametryn	0.56	U	ng/L	P418246	
		Atrazine	0.52	I	ng/L	P418246	
		PBDE-47**	3.8	U	ng/L	P418246	
		Atrazine Desethyl	1.4	U	ng/L	P418246	
		PBDE-99**	4.7	U	ng/L	P418246	
		Azinphos Methyl	1.9	U	ng/L	P418246	
		Tri-o-cresyl Phosphate**	5.6	U	ng/L	P418246	
		Azoxystrobin	0.47	U	ng/L	P418246	
		Bromacil	0.47	U	ng/L	P418246	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	11	U	ng/L	P418246	
		Butylate	0.38	U	ng/L	P418246	
		Dechlorane Plus**	28	U	ng/L	P418246	
		Caffeine**	7.1	U	ng/L	P418246	
		Carbophenothion	0.19	U	ng/L	P418246	
		Carfentrazone Ethyl	0.094	U	ng/L	P418246	
		Chlorfenapyr	0.16	U	ng/L	P418246	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418246	
		Chlorpyrifos Methyl	0.047	U	ng/L	P418246	
		Coumaphos	0.47	U	ng/L	P418246	
		Cyanazine	3.1	U	ng/L	P418246	
		Cyprodinil	0.094	U	ng/L	P418246	
		Demeton	1.4	U	ng/L	P418246	
		Diazinon	0.12	U	ng/L	P418246	
		Difenoconazole	0.56	U	ng/L	P418246	
		Dimethenamid	0.094	UJ	ng/L	P418246	LCS
		Dimethomorph	0.16	U	ng/L	P418246	
		Disulfoton	0.47	U	ng/L	P418246	
		Dithiopyr	0.27	IV	ng/L	P418246	
		EPTC	1.2	U	ng/L	P418246	

Field ID: G5SD0092 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350138	EPA 8270E	Ethion	0.14	U	ng/L	P418246	
		Ethoprop	0.094	U	ng/L	P418246	
		Etridiazole	0.14	U	ng/L	P418246	
		Fenamiphos	0.47	U	ng/L	P418246	
		Fenbuconazole	0.12	U	ng/L	P418246	
		Fipronil	0.24	U	ng/L	P418246	
		Fipronil Desulfinyl**	0.12	U	ng/L	P418246	
		Fipronil Sulfide	0.14	U	ng/L	P418246	
		Fipronil Sulfone	0.14	U	ng/L	P418246	
		Fluazifop-P-butyl	0.094	U	ng/L	P418246	
		Fludioxonil	0.12	U	ng/L	P418246	
		Flumioxazin	1.6	U	ng/L	P418246	
		Flutolanil	0.094	U	ng/L	P418246	
		Fluxapyroxad	0.094	U	ng/L	P418246	
		Fonofos	0.19	U	ng/L	P418246	
		Hexazinone	5.8		ng/L	P418246	
		Imazalil	0.71	U	ng/L	P418246	
		Iprodione	0.56	U	ng/L	P418246	
		Loratadine**	0.094	U	ng/L	P418246	
		Malathion	0.33	U	ng/L	P418246	
		Metalaxyl	0.71	U	ng/L	P418246	
		Metolachlor	0.33	U	ng/L	P418246	
		Metribuzin	2.4	U	ng/L	P418246	
		Mevinphos	0.99	U	ng/L	P418246	
		Molinate	0.28	U	ng/L	P418246	
		Myclobutanil	0.24	U	ng/L	P418246	
		Naled	1.4	U	ng/L	P418246	
		Napropamide	0.38	U	ng/L	P418246	
		Norflurazon	0.47	U	ng/L	P418246	
		Oxadiazon	0.28	U	ng/L	P418246	
		Oxyfluorfen	0.14	U	ng/L	P418246	
		Parathion Ethyl	0.24	U	ng/L	P418246	
		Parathion Methyl	0.52	U	ng/L	P418246	
		Pendimethalin	0.94	U	ng/L	P418246	
		Phenytoin**	3.3	U	ng/L	P418246	MS
		Phorate	0.49	U	ng/L	P418246	
		Prodiamine	0.16	U	ng/L	P418246	
		Prometon	0.85	U	ng/L	P418246	
		Prometryn	0.19	U	ng/L	P418246	
		Pronamide	0.14	U	ng/L	P418246	
		Propanil	0.12	U	ng/L	P418246	
		Propargite	1.4	U	ng/L	P418246	
		Propiconazole	0.47	U	ng/L	P418246	
		Pyraflufen Ethyl	0.24	UJ	ng/L	P418246	LCS
		Pyridaben	0.42	U	ng/L	P418246	

Field ID: G5SD0092 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350138	EPA 8270E	Pyriproxyfen	0.12	U	ng/L	P418246	
		Simazine	0.47	U	ng/L	P418246	
		Stirophos	0.12	U	ng/L	P418246	MS
		Sulfentrazone	0.47	U	ng/L	P418246	
		Tebuconazole	0.47	U	ng/L	P418246	
		Terbufos	0.094	U	ng/L	P418246	
		Terbuthylazine	0.40	U	ng/L	P418246	
		Thiobencarb	0.56	U	ng/L	P418246	
		Triadimefon	0.24	U	ng/L	P418246	

Ref. Method and Comment:
SM 2540 D-2011: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
SM 4500-F- C-2011: Batch matrix spike recoveries and relative percent difference are unavailable because of analytical difficulties.
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Canal at PlantationPkwy **Collection Date/Time: 08/16/2022 13:30**

Field ID: G1SD0126 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350139	EPA 8270E	Oxybenzone**	9.6	U	ng/L	P418246	
		Acetochlor	0.24	U	ng/L	P418246	
		Octinoxate**	19	U	ng/L	P418246	
		Alachlor	0.24	U	ng/L	P418246	
		Avobenzone**	96	U	ng/L	P418246	
		Ametryn	0.58	U	ng/L	P418246	
		Atrazine	0.31	I	ng/L	P418246	
		PBDE-47**	3.9	U	ng/L	P418246	
		Atrazine Desethyl	1.4	U	ng/L	P418246	
		PBDE-99**	4.8	U	ng/L	P418246	
		Azinphos Methyl	1.9	U	ng/L	P418246	
		Tri-o-cresyl Phosphate**	5.8	U	ng/L	P418246	
		Azoxystrobin	0.48	U	ng/L	P418246	
		Bromacil	0.48	U	ng/L	P418246	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P418246	
		Butylate	0.39	U	ng/L	P418246	
		Dechlorane Plus**	29	U	ng/L	P418246	
		Caffeine**	7.2	U	ng/L	P418246	
		Carbophenothion	0.19	U	ng/L	P418246	
		Carfentrazone Ethyl	0.096	U	ng/L	P418246	
		Chlorfenapyr	0.17	U	ng/L	P418246	
		Chlorpyrifos Ethyl	0.24	U	ng/L	P418246	
		Chlorpyrifos Methyl	0.048	U	ng/L	P418246	
		Coumaphos	0.48	U	ng/L	P418246	
		Cyanazine	3.1	U	ng/L	P418246	
		Cyprodinil	0.096	U	ng/L	P418246	
		Demeton	1.4	U	ng/L	P418246	
		Diazinon	0.12	U	ng/L	P418246	
		Difenoconazole	0.58	U	ng/L	P418246	
		Dimethenamid	0.096	UJ	ng/L	P418246	LCS
		Dimethomorph	0.17	U	ng/L	P418246	
		Disulfoton	0.48	U	ng/L	P418246	
		Dithiopyr	0.51	IV	ng/L	P418246	
		EPTC	1.2	U	ng/L	P418246	
		Ethion	0.14	U	ng/L	P418246	
		Ethoprop	0.096	U	ng/L	P418246	
		Etridiazole	0.14	U	ng/L	P418246	
		Fenamiphos	0.48	U	ng/L	P418246	
		Fenbuconazole	0.12	U	ng/L	P418246	
		Fipronil	0.24	U	ng/L	P418246	
		Fipronil Desulfinyl**	0.12	U	ng/L	P418246	
		Fipronil Sulfide	0.14	U	ng/L	P418246	
		Fipronil Sulfone	0.14	U	ng/L	P418246	

Field ID: G1SD0126 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350139	EPA 8270E	Fluazifop-P-butyl	0.096	U	ng/L	P418246	
		Fludioxonil	0.12	U	ng/L	P418246	
		Flumioxazin	1.7	U	ng/L	P418246	
		Flutolanil	0.096	U	ng/L	P418246	
		Fluxapyroxad	0.096	U	ng/L	P418246	
		Fonofos	0.19	U	ng/L	P418246	
		Hexazinone	1.8	I	ng/L	P418246	
		Imazalil	0.72	U	ng/L	P418246	
		Iprodione	0.58	U	ng/L	P418246	
		Loratadine**	0.096	U	ng/L	P418246	
		Malathion	0.34	U	ng/L	P418246	
		Metalaxyl	0.72	U	ng/L	P418246	
		Metolachlor	0.34	U	ng/L	P418246	
		Metribuzin	2.4	U	ng/L	P418246	
		Mevinphos	1.0	U	ng/L	P418246	
		Molinate	0.29	U	ng/L	P418246	
		Myclobutanil	0.24	U	ng/L	P418246	
		Naled	1.4	U	ng/L	P418246	
		Napropamide	0.39	U	ng/L	P418246	
		Norflurazon	0.48	U	ng/L	P418246	
		Oxadiazon	0.29	U	ng/L	P418246	
		Oxyfluorfen	0.14	U	ng/L	P418246	
		Parathion Ethyl	0.24	U	ng/L	P418246	
		Parathion Methyl	0.53	U	ng/L	P418246	
		Pendimethalin	0.96	U	ng/L	P418246	
		Phenytoin**	3.4	U	ng/L	P418246	MS
		Phorate	0.51	U	ng/L	P418246	
		Prodiamine	0.17	U	ng/L	P418246	
		Prometon	0.87	U	ng/L	P418246	
		Prometryn	0.19	U	ng/L	P418246	
		Pronamide	0.14	U	ng/L	P418246	
		Propanil	0.12	U	ng/L	P418246	
		Propargite	1.4	U	ng/L	P418246	
		Propiconazole	0.48	U	ng/L	P418246	
		Pyraflufen Ethyl	0.24	UJ	ng/L	P418246	LCS
		Pyridaben	0.43	U	ng/L	P418246	
		Pyriproxyfen	0.12	U	ng/L	P418246	
		Simazine	0.48	U	ng/L	P418246	
		Stirophos	0.12	U	ng/L	P418246	MS
		Sulfentrazone	0.48	U	ng/L	P418246	
		Tebuconazole	0.48	U	ng/L	P418246	
		Terbufos	0.096	U	ng/L	P418246	
		Terbuthylazine	0.41	U	ng/L	P418246	
		Thiobencarb	0.58	U	ng/L	P418246	
		Triadimefon	0.24	U	ng/L	P418246	

Field ID: G1SD0126 Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: BarronRiverCanalAtUS41 **Collection Date/Time: 08/16/2022 13:55**

Field ID: G1SD0125 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350140	EPA 8270E	Oxybenzone**	10	U	ng/L	P418246	
		Acetochlor	0.25	U	ng/L	P418246	
		Octinoxate**	20	U	ng/L	P418246	
		Alachlor	0.25	U	ng/L	P418246	
		Avobenzone**	100	U	ng/L	P418246	
		Ametryn	0.60	U	ng/L	P418246	
		Atrazine	0.25	U	ng/L	P418246	
		PBDE-47**	4.0	U	ng/L	P418246	
		Atrazine Desethyl	1.5	U	ng/L	P418246	
		PBDE-99**	5.0	U	ng/L	P418246	
		Azinphos Methyl	2.0	U	ng/L	P418246	
		Tri-o-cresyl Phosphate**	6.0	U	ng/L	P418246	
		Azoxystrobin	0.50	U	ng/L	P418246	
		Bromacil	0.50	U	ng/L	P418246	
		2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)**	12	U	ng/L	P418246	
		Butylate	0.40	U	ng/L	P418246	
		Dechlorane Plus**	30	U	ng/L	P418246	
		Caffeine**	7.5	U	ng/L	P418246	
		Carbophenothion	0.20	U	ng/L	P418246	
		Carfentrazone Ethyl	0.10	U	ng/L	P418246	
		Chlorfenapyr	0.18	U	ng/L	P418246	
		Chlorpyrifos Ethyl	0.25	U	ng/L	P418246	
		Chlorpyrifos Methyl	0.050	U	ng/L	P418246	
		Coumaphos	0.50	U	ng/L	P418246	
		Cyanazine	3.3	U	ng/L	P418246	
		Cyprodinil	0.10	U	ng/L	P418246	
		Demeton	1.5	U	ng/L	P418246	
		Diazinon	0.13	U	ng/L	P418246	
		Difenoconazole	0.60	U	ng/L	P418246	
		Dimethenamid	0.10	UJ	ng/L	P418246	LCS
		Dimethomorph	0.18	U	ng/L	P418246	
		Disulfoton	0.50	U	ng/L	P418246	
		Dithiopyr	0.58	IV	ng/L	P418246	
		EPTC	1.3	U	ng/L	P418246	
		Ethion	0.15	U	ng/L	P418246	
		Ethoprop	0.10	U	ng/L	P418246	
		Etridiazole	0.15	U	ng/L	P418246	
		Fenamiphos	0.50	U	ng/L	P418246	
		Fenbuconazole	0.13	U	ng/L	P418246	
		Fipronil	0.25	U	ng/L	P418246	
		Fipronil Desulfinyl**	0.13	U	ng/L	P418246	
		Fipronil Sulfide	0.15	U	ng/L	P418246	
		Fipronil Sulfone	0.15	U	ng/L	P418246	

Field ID: G1SD0125 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2350140	EPA 8270E	Fluazifop-P-butyl	0.10	U	ng/L	P418246	
		Fludioxonil	0.13	U	ng/L	P418246	
		Flumioxazin	1.8	U	ng/L	P418246	
		Flutolanil	0.10	U	ng/L	P418246	
		Fluxapyroxad	0.16	I	ng/L	P418246	
		Fonofos	0.20	U	ng/L	P418246	
		Hexazinone	9.5		ng/L	P418246	
		Imazalil	0.75	U	ng/L	P418246	
		Iprodione	0.60	U	ng/L	P418246	
		Loratadine**	0.10	U	ng/L	P418246	
		Malathion	0.35	U	ng/L	P418246	
		Metalaxyl	0.75	U	ng/L	P418246	
		Metolachlor	0.35	U	ng/L	P418246	
		Metribuzin	2.5	U	ng/L	P418246	
		Mevinphos	1.1	U	ng/L	P418246	
		Molinate	0.30	U	ng/L	P418246	
		Myclobutanil	0.25	U	ng/L	P418246	
		Naled	1.5	U	ng/L	P418246	
		Napropamide	0.40	U	ng/L	P418246	
		Norflurazon	1.7	I	ng/L	P418246	
		Oxadiazon	0.30	U	ng/L	P418246	
		Oxyfluorfen	0.15	U	ng/L	P418246	
		Parathion Ethyl	0.25	U	ng/L	P418246	
		Parathion Methyl	0.55	U	ng/L	P418246	
		Pendimethalin	1.0	U	ng/L	P418246	
		Phenytoin**	3.5	U	ng/L	P418246	MS
		Phorate	0.53	U	ng/L	P418246	
		Prodiamine	0.18	U	ng/L	P418246	
		Prometon	0.91	U	ng/L	P418246	
		Prometryn	0.20	U	ng/L	P418246	
		Pronamide	0.15	U	ng/L	P418246	
		Propanil	0.13	U	ng/L	P418246	
		Propargite	1.5	U	ng/L	P418246	
		Propiconazole	0.50	U	ng/L	P418246	
		Pyraflufen Ethyl	0.25	UJ	ng/L	P418246	LCS
		Pyridaben	0.45	U	ng/L	P418246	
		Pyriproxyfen	0.13	U	ng/L	P418246	
		Simazine	0.50	U	ng/L	P418246	
		Stirophos	0.13	U	ng/L	P418246	MS
		Sulfentrazone	0.50	U	ng/L	P418246	
		Tebuconazole	0.50	U	ng/L	P418246	
		Terbufos	0.10	U	ng/L	P418246	
		Terbuthylazine	0.43	U	ng/L	P418246	
		Thiobencarb	0.60	U	ng/L	P418246	
		Triadimefon	0.25	U	ng/L	P418246	

Field ID: G1SD0125 Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes

Ref. Method and Comment:
EPA 8270E: MS accuracy for bromacil and norflurazon not assessed due to high content of these parameters in the sample spiked. V - Due to the presence of dithiopyr in both the Method Blanks and the sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418644

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418381

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418514

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

Reference Method: EPA 8270E
Batch ID: P418246

Component	Result	Code	Units
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	12	U	ng/L
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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418246

Component	Result	Code	Units
Caffeine	7.5	U	ng/L
Caffeine	7.5	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
Dechlorane Plus	30	U	ng/L
Dechlorane Plus	30	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
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	0.44	I	ng/L
Dithiopyr	0.37	I	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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418246

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 8270E
Batch ID: P418246

Component	Result	Code	Units
Parathion Methyl	0.55	U	ng/L
Parathion Methyl	0.55	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-47	4.0	U	ng/L
PBDE-99	5.0	U	ng/L
PBDE-99	5.0	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
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
Tri-o-cresyl Phosphate	6.0	U	ng/L
Tri-o-cresyl Phosphate	6.0	U	ng/L
Triadimefon	0.25	U	ng/L
Triadimefon	0.25	U	ng/L

Quality Assurance Report
Method Blank Results

Reference Method: SM 2320 B-2011
Batch ID: P418392

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

Reference Method: SM 2540 D-2011
Batch ID: P418612

Component	Result	Code	Units
TSS	3	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P418404

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P418503

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	97.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418644

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: P418381

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418514

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

Reference Method: EPA 8270E
Batch ID: P418246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	85.9		P	50 - 150
Acetochlor	75.0		P	70 - 121
Alachlor	72.3		P	68 - 119
Ametryn	76.9		P	64 - 139
Atrazine	81.5		P	76 - 120
Atrazine Desethyl	52.5		P	44 - 126
Avobenzone	77.1		P	76 - 212
Azinphos Methyl	97.3		P	43 - 192
Azoxystrobin	102		P	36 - 224
Bromacil	53.2		P	52 - 121
Butylate	44.5		P	28 - 91.0
Caffeine	89.3		P	50 - 134
Carbophenothion	74.6		P	56 - 129
Carfentrazone Ethyl	79.1		P	60 - 141
Chlorfenapyr	76.6		P	56 - 115
Chlorpyrifos Ethyl	78.9		P	60 - 118
Chlorpyrifos Methyl	86.0		P	68 - 119
Coumaphos	79.5		P	18 - 250
Cyanazine	66.4		P	61 - 250
Cyprodinil	70.5		P	55 - 145
Dechlorane Plus	101		P	50 - 150
Demeton	71.8		P	30 - 159

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Diazinon	81.2		P	70 - 123
Difenoconazole	82.8		P	49 - 204
Dimethenamid	58.9		F	64 - 115
Dimethomorph	101		P	12 - 219
Disulfoton	76.0		P	44 - 125
Dithiopyr	72.3		P	64 - 115
EPTC	43.9		P	28 - 86.0
Ethion	39.6		P	33 - 125
Ethoprop	79.5		P	64 - 116
Etridiazole	49.3		P	34 - 91.0
Fenamiphos	74.3		P	12 - 127
Fenbuconazole	71.6		P	59 - 151
Fipronil	71.1		P	67 - 129
Fipronil Desulfinyl	79.3		P	65 - 127
Fipronil Sulfide	61.3		P	61 - 116
Fipronil Sulfone	57.7		P	55 - 117
Fluazifop-P-butyl	73.3		P	62 - 127
Fludioxonil	67.9		P	62 - 128
Flumioxazin	98.1		P	33 - 250
Flutolanil	65.8		P	56 - 127
Fluxapyroxad	58.8		P	45 - 128
Fonofos	73.8		P	62 - 111
Hexazinone	73.7		P	46 - 139
Imazalil	61.8		P	38 - 142
Iprodione	68.7		P	47 - 135
Loratadine	98.4		P	10 - 244
Malathion	91.0		P	61 - 139
Metalaxyl	66.2		P	10 - 119
Metolachlor	71.5		P	65 - 118
Metribuzin	88.8		P	51 - 250
Mevinphos	72.1		P	53 - 121
Molinate	58.4		P	42 - 96.0
Myclobutanil	64.6		P	55 - 128
Naled	60.8		P	10 - 98.0
Napropamide	58.8		P	49 - 121
Norflurazon	65.3		P	61 - 126
Octinoxate	70.2		P	30 - 159
Oxadiazon	59.9		P	59 - 116
Oxybenzone	62.0		P	61 - 139
Oxyfluorfen	81.7		P	64 - 137
Parathion Ethyl	85.3		P	70 - 112
Parathion Methyl	96.7		P	76 - 133
PBDE-47	73.7		P	50 - 150
PBDE-99	72.6		P	50 - 150
Pendimethalin	72.7		P	52 - 117
Phenytoin	12.4		P	10 - 199
Phorate	71.5		P	48 - 121
Prodiamine	36.6		P	26 - 142
Prometon	56.9		P	43 - 123
Prometryn	66.7		P	66 - 127
Pronamide	80.7		P	75 - 121
Propanil	69.9		P	45 - 150

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P418246

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Propargite	46.2		P	42 - 208
Propiconazole	60.8		P	60 - 125
Pyraflufen Ethyl	68.6		F	70 - 138
Pyridaben	81.5		P	35 - 245
Pyriproxyfen	66.3		P	30 - 149
Simazine	76.6		P	72 - 125
Stirophos	50.7		P	29 - 164
Sulfentrazone	31.2		P	21 - 139
Tebuconazole	33.2		P	10 - 115
Terbufos	88.6		P	60 - 123
Terbuthylazine	73.9		P	72 - 115
Thiobencarb	66.9		P	31 - 139
Tri-o-cresyl Phosphate	74.6		P	50 - 150
Triadimefon	65.1		P	65 - 116

Reference Method: SM 2320 B-2011
Batch ID: P418392

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.9		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P418404

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	100		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P418503

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	96.2		P	85 - 115

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350387	Ammonia-N	98.4	104	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418644

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349796	Kjeldahl Nitrogen	99.2	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418381

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349791	NO2NO3-N	98.1	98.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418514

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350116	Total-P	98.3	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P418246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350224	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	76.4	73.5	P/P	50 - 150
2350224	Acetochlor	82.9	92.0	P/P	65 - 124
2350224	Alachlor	68.4	80.0	P/P	61 - 121
2350224	Ametryn	54.1	62.9	P/P	52 - 216
2350224	Atrazine	89.4	101	P/P	68 - 133
2350224	Atrazine Desethyl	44.0	51.0	P/P	15 - 160
2350224	Avobenzone	84.2	79.5	P/P	59 - 206
2350224	Azinphos Methyl	102	100	P/P	40 - 292
2350224	Azoxystrobin	102	126	P/P	12 - 242
2350224	Butylate	56.8	43.7	P/P	14 - 94.0
2350224	Caffeine	86.9	91.2	P/P	10 - 226
2350224	Carbophenothion	78.1	82.1	P/P	49 - 122
2350224	Carfentrazone Ethyl	80.5	79.0	P/P	53 - 138
2350224	Chlorfenapyr	76.3	70.4	P/P	50 - 150
2350224	Chlorpyrifos Ethyl	75.6	73.1	P/P	52 - 122
2350224	Chlorpyrifos Methyl	85.9	80.6	P/P	66 - 117
2350224	Coumaphos	50.3	52.0	P/P	50 - 220
2350224	Cyanazine	71.4	71.5	P/P	43 - 245
2350224	Cyprodinil	68.1	73.9	P/P	50 - 150
2350224	Dechlorane Plus	90.5	81.3	P/P	50 - 150
2350224	Demeton	90.0	92.6	P/P	43 - 188
2350224	Diazinon	87.0	97.5	P/P	69 - 131
2350224	Difenoconazole	104	102	P/P	34 - 231
2350224	Dimethenamid	70.0	74.6	P/P	55 - 118
2350224	Dimethomorph	103	137	P/P	50 - 150
2350224	Disulfoton	81.1	84.6	P/P	38 - 141
2350224	Dithiopyr	57.8	57.6	P/P	42 - 116
2350224	EPTC	52.5	49.8	P/P	18 - 85.0

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350224	Ethion	55.6	40.8	P/P	10 - 131
2350224	Ethoprop	91.5	86.4	P/P	65 - 129
2350224	Etridiazole	63.1	61.8	P/P	50 - 150
2350224	Fenamiphos	70.4	67.7	P/P	31 - 137
2350224	Fenbuconazole	76.2	73.3	P/P	57 - 160
2350224	Fipronil	80.4	84.5	P/P	62 - 132
2350224	Fipronil Desulfinyl	86.1	82.2	P/P	57 - 131
2350224	Fipronil Sulfide	64.4	64.4	P/P	15 - 138
2350224	Fipronil Sulfone	70.2	76.3	P/P	21 - 134
2350224	Fluazifop-P-butyl	79.4	85.5	P/P	54 - 133
2350224	Fludioxonil	73.7	82.8	P/P	58 - 127
2350224	Flumioxazin	111	113	P/P	33 - 300
2350224	Flutolanil	69.4	83.8	P/P	42 - 130
2350224	Fluxapyroxad	71.5	68.5	P/P	23 - 141
2350224	Fonofos	80.7	78.8	P/P	58 - 119
2350224	Hexazinone	82.3	79.8	P/P	68 - 172
2350224	Imazalil	61.7	86.9	P/P	48 - 283
2350224	Iprodione	75.5	81.1	P/P	38 - 140
2350224	Loratadine	101	136	P/P	50 - 150
2350224	Malathion	92.1	83.8	P/P	40 - 137
2350224	Metalaxyl	69.0	73.2	P/P	21 - 129
2350224	Metolachlor	71.2	79.4	P/P	55 - 122
2350224	Metribuzin	94.3	100	P/P	38 - 187
2350224	Mevinphos	78.7	77.0	P/P	54 - 134
2350224	Molinate	68.4	65.5	P/P	41 - 97.0
2350224	Myclobutanil	73.7	77.4	P/P	56 - 125
2350224	Naled	85.7	88.3	P/P	10 - 108
2350224	Napropamide	55.0	62.3	P/P	50 - 150
2350224	Octinoxate	70.8	68.3	P/P	25 - 150
2350224	Oxadiazon	66.0	75.6	P/P	40 - 119
2350224	Oxybenzone	71.3	71.2	P/P	59 - 147
2350224	Oxyfluorfen	92.2	102	P/P	61 - 153
2350224	Parathion Ethyl	90.1	94.6	P/P	59 - 130
2350224	Parathion Methyl	110	109	P/P	65 - 155
2350224	PBDE-47	75.4	70.4	P/P	50 - 150
2350224	PBDE-99	65.4	61.2	P/P	50 - 150
2350224	Pendimethalin	87.0	92.3	P/P	49 - 138
2350224	Phenytoin	24.5	27.9	F/F	50 - 200
2350224	Phorate	85.7	83.9	P/P	54 - 161
2350224	Prodiamine	48.1	52.5	P/P	33 - 161
2350224	Prometon	74.5	77.2	P/P	48 - 140
2350224	Prometryn	65.8	65.3	P/P	55 - 134
2350224	Pronamide	87.3	85.4	P/P	66 - 137
2350224	Propanil	84.0	87.2	P/P	50 - 150
2350224	Propargite	55.2	53.6	P/P	50 - 200
2350224	Propiconazole	68.3	71.8	P/P	36 - 150
2350224	Pyraflufen Ethyl	70.6	71.9	P/P	50 - 150
2350224	Pyridaben	80.7	69.2	P/P	50 - 200
2350224	Pyriproxyfen	69.4	65.4	P/P	10 - 165
2350224	Simazine	84.2	93.3	P/P	57 - 145
2350224	Stirophos	49.4	37.8	F/F	50 - 150
2350224	Sulfentrazone	81.1	77.4	P/P	34 - 140

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418246

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2350224	Tebuconazole	44.2	42.3	P/P	10 - 127
2350224	Terbufos	102	104	P/P	59 - 138
2350224	Terbuthylazine	87.2	94.2	P/P	68 - 119
2350224	Thiobencarb	69.5	69.8	P/P	50 - 150
2350224	Tri-o-cresyl Phosphate	75.6	71.3	P/P	50 - 150
2350224	Triadimefon	74.6	69.7	P/P	50 - 150

Reference Method: SM 5310 B-2011
Batch ID: P418503

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2349551	Organic Carbon	94.2	94.3	P/P	85 - 115

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350028	Turbidity	16.4	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P418539

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350387	Ammonia-N	3.12	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418644

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349796	Kjeldahl Nitrogen	0.961	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P418381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349791	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418514

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350116	Total-P	0.780	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350224	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	3.87	Spike	P	0 - 30
2350224	Acetochlor	10.5	Spike	P	0 - 27
2350224	Alachlor	15.7	Spike	P	0 - 27
2350224	Ametryn	6.93	Spike	P	0 - 34
2350224	Atrazine	7.54	Spike	P	0 - 41
2350224	Atrazine Desethyl	14.7	Spike	P	0 - 38
2350224	Avobenzone	5.73	Spike	P	0 - 30
2350224	Azinphos Methyl	2.32	Spike	P	0 - 62
2350224	Azoxystrobin	18.2	Spike	P	0 - 32
2350224	Bromacil	19.9	Spike	P	0 - 30
2350224	Butylate	26.1	Spike	P	0 - 59
2350224	Caffeine	4.77	Spike	P	0 - 60
2350224	Carbophenothion	5.02	Spike	P	0 - 25
2350224	Carfentrazone Ethyl	1.87	Spike	P	0 - 26
2350224	Chlorfenapyr	8.01	Spike	P	0 - 30
2350224	Chlorpyrifos Ethyl	3.45	Spike	P	0 - 27

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350224	Chlorpyrifos Methyl	6.36	Spike	P	0 - 26
2350224	Coumaphos	3.30	Spike	P	0 - 30
2350224	Cyanazine	0.158	Spike	P	0 - 58
2350224	Cyprodinil	8.14	Spike	P	0 - 30
2350224	Dechlorane Plus	10.7	Spike	P	0 - 30
2350224	Demeton	2.80	Spike	P	0 - 25
2350224	Diazinon	11.4	Spike	P	0 - 29
2350224	Difenoconazole	1.73	Spike	P	0 - 25
2350224	Dimethenamid	6.38	Spike	P	0 - 30
2350224	Dimethomorph	28.4	Spike	P	0 - 30
2350224	Disulfoton	4.19	Spike	P	0 - 33
2350224	Dithiopyr	0.207	Spike	P	0 - 22
2350224	EPTC	5.27	Spike	P	0 - 38
2350224	Ethion	30.6	Spike	P	0 - 79
2350224	Ethoprop	5.73	Spike	P	0 - 23
2350224	Etridiazole	2.16	Spike	P	0 - 30
2350224	Fenamiphos	3.97	Spike	P	0 - 58
2350224	Fenbuconazole	3.46	Spike	P	0 - 37
2350224	Fipronil	4.98	Spike	P	0 - 33
2350224	Fipronil Desulfinyl	4.63	Spike	P	0 - 26
2350224	Fipronil Sulfide	0.00776	Spike	P	0 - 37
2350224	Fipronil Sulfone	8.31	Spike	P	0 - 50
2350224	Fluazifop-P-butyl	7.37	Spike	P	0 - 24
2350224	Fludioxonil	11.7	Spike	P	0 - 26
2350224	Flumioxazin	2.23	Spike	P	0 - 37
2350224	Flutolanil	18.7	Spike	P	0 - 26
2350224	Fluxapyroxad	4.30	Spike	P	0 - 34
2350224	Fonofos	2.40	Spike	P	0 - 27
2350224	Hexazinone	2.79	Spike	P	0 - 36
2350224	Imazalil	34.0	Spike	P	0 - 65
2350224	Iprodione	7.14	Spike	P	0 - 33
2350224	Loratadine	29.3	Spike	P	0 - 30
2350224	Malathion	9.40	Spike	P	0 - 44
2350224	Metalaxyl	3.54	Spike	P	0 - 38
2350224	Metolachlor	10.3	Spike	P	0 - 36
2350224	Metribuzin	6.04	Spike	P	0 - 63
2350224	Mevinphos	2.22	Spike	P	0 - 26
2350224	Molinate	4.32	Spike	P	0 - 40
2350224	Myclobutanil	4.83	Spike	P	0 - 21
2350224	Naled	2.95	Spike	P	0 - 26
2350224	Napropamide	12.5	Spike	P	0 - 30
2350224	Norflurazon	4.63	Spike	P	0 - 24
2350224	Octinoxate	3.67	Spike	P	0 - 30
2350224	Oxadiazon	13.5	Spike	P	0 - 27
2350224	Oxybenzone	0.0905	Spike	P	0 - 30
2350224	Oxyfluorfen	10.5	Spike	P	0 - 24
2350224	Parathion Ethyl	4.84	Spike	P	0 - 28
2350224	Parathion Methyl	1.07	Spike	P	0 - 27
2350224	PBDE-47	6.75	Spike	P	0 - 30
2350224	PBDE-99	6.55	Spike	P	0 - 30
2350224	Pendimethalin	5.88	Spike	P	0 - 31

Quality Assurance Report
Precision

Reference Method: EPA 8270E
Batch ID: P418246

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2350224	Phenytoin	13.0	Spike	P	0 - 30
2350224	Phorate	2.19	Spike	P	0 - 27
2350224	Prodiamine	8.77	Spike	P	0 - 52
2350224	Prometon	3.49	Spike	P	0 - 31
2350224	Prometryn	0.847	Spike	P	0 - 28
2350224	Pronamide	2.20	Spike	P	0 - 26
2350224	Propanil	3.71	Spike	P	0 - 30
2350224	Propargite	2.97	Spike	P	0 - 30
2350224	Propiconazole	4.93	Spike	P	0 - 31
2350224	Pyraflufen Ethyl	1.86	Spike	P	0 - 30
2350224	Pyridaben	15.3	Spike	P	0 - 30
2350224	Pyriproxyfen	5.80	Spike	P	0 - 50
2350224	Simazine	10.2	Spike	P	0 - 29
2350224	Stirophos	26.6	Spike	P	0 - 30
2350224	Sulfentrazone	4.68	Spike	P	0 - 33
2350224	Tebuconazole	4.34	Spike	P	0 - 44
2350224	Terbufos	2.59	Spike	P	0 - 29
2350224	Terbuthylazine	7.67	Spike	P	0 - 27
2350224	Thiobencarb	0.510	Spike	P	0 - 30
2350224	Tri-o-cresyl Phosphate	5.79	Spike	P	0 - 30
2350224	Triadimefon	6.83	Spike	P	0 - 30

Reference Method: SM 2320 B-2011
Batch ID: P418392

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349557	Total Alkalinity	0.0308	Sample	P	0 - 3.8

Reference Method: SM 5310 B-2011
Batch ID: P418503

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2349551	Organic Carbon	0.0840	Spike	P	0 - 20

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

Quality Assurance Report
Surrogates

Lab Sample ID: 2350138
Field Sample ID: G5SD0092

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	44.0	P	20 - 200
EPA 8270E	Simazine-d10	79.3	P	71 - 140
EPA 8270E	Terbufos-d10	76.2	P	62 - 131
EPA 8270E	Terphenyl-d14	55.8	P	52 - 141

Lab Sample ID: 2350139
Field Sample ID: G1SD0126

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	46.5	P	20 - 200
EPA 8270E	Simazine-d10	95.0	P	71 - 140
EPA 8270E	Terbufos-d10	90.2	P	62 - 131
EPA 8270E	Terphenyl-d14	62.6	P	52 - 141

Lab Sample ID: 2350140
Field Sample ID: G1SD0125

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Caffeine-d9	59.0	P	20 - 200
EPA 8270E	Simazine-d10	108	P	71 - 140
EPA 8270E	Terbufos-d10	98.2	P	62 - 131
EPA 8270E	Terphenyl-d14	69.2	P	52 - 141

Quality Assurance Report
Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A114165
Included Lab Sample IDs: 2350115

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A114209
Included Lab Sample IDs: 2350116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	98.5	98.0	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A114212
Included Lab Sample IDs: 2350115

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	100	97.2	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A114212
Included Lab Sample IDs: 2350115

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

Reference Method: SM 5310 B-2011
Run ID: A114255
Included Lab Sample IDs: 2350116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.6	95.8	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114261
Included Lab Sample IDs: 2350138, 2350139, 2350140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acetochlor	95.6		P	80 - 120
Alachlor	96.2		P	80 - 120
Ametryn	87.4		P	80 - 120
Atrazine	100		P	80 - 120
Atrazine Desethyl	103		P	80 - 120
Azinphos Methyl	103		P	80 - 120
Azoxystrobin	101		P	80 - 120
Bromacil	94.9		P	80 - 120
Butylate	100		P	80 - 120
Caffeine	95.3		P	80 - 120
Carbophenothion	101		P	80 - 120
Carfentrazone Ethyl	97.3		P	80 - 120
Chlorfenapyr	102		P	80 - 120
Chlorpyrifos Ethyl	103		P	80 - 120
Chlorpyrifos Methyl	100		P	80 - 120
Coumaphos	97.9		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114261
Included Lab Sample IDs: 2350138, 2350139, 2350140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Cyanazine	95.4		P	80 - 120
Cyprodinil	93.9		P	80 - 120
Demeton	101		P	80 - 120
Diazinon	103		P	80 - 120
Difenoconazole	98.1		P	80 - 120
Dimethenamid	94.2		P	80 - 120
Dimethomorph	96.4		P	80 - 120
Disulfoton	98.0		P	80 - 120
Dithiopyr	95.0		P	80 - 120
EPTC	101		P	80 - 120
Ethion	102		P	80 - 120
Ethoprop	102		P	80 - 120
Etridiazole	101		P	80 - 120
Fenamiphos	94.6		P	80 - 120
Fenbuconazole	94.5		P	80 - 120
Fipronil	98.2		P	80 - 120
Fipronil Desulfinyl	97.5		P	80 - 120
Fipronil Sulfide	95.7		P	80 - 120
Fipronil Sulfone	92.5		P	80 - 120
Fluazifop-P-butyl	90.5		P	80 - 120
Fludioxonil	96.9		P	80 - 120
Flumioxazin	93.9		P	80 - 120
Flutolanil	94.7		P	80 - 120
Fluxapyroxad	95.4		P	80 - 120
Fonofos	98.7		P	80 - 120
Hexazinone	96.9		P	80 - 120
Imazalil	98.0		P	80 - 120
Iprodione	96.1		P	80 - 120
Loratadine	99.8		P	80 - 120
Malathion	98.6		P	80 - 120
Metalaxyl	87.7		P	80 - 120
Metolachlor	96.3		P	80 - 120
Metribuzin	101		P	80 - 120
Mevinphos	101		P	80 - 120
Molinate	100		P	80 - 120
Myclobutanil	94.1		P	80 - 120
Naled	100		P	80 - 120
Napropamide	96.3		P	80 - 120
Norflurazon	98.7		P	80 - 120
Oxadiazon	101		P	80 - 120
Oxyfluorfen	98.0		P	80 - 120
Parathion Ethyl	102		P	80 - 120
Parathion Methyl	106		P	80 - 120
Pendimethalin	97.5		P	80 - 120
Phenytoin	97.3		P	80 - 120
Phorate	102		P	80 - 120
Prodiamine	94.9		P	80 - 120
Prometon	95.6		P	80 - 120
Prometryn	93.0		P	80 - 120
Pronamide	102		P	80 - 120
Propanil	94.2		P	80 - 120

Quality Assurance Report
Calibration Verification

Reference Method: EPA 8270E
Run ID: A114261
Included Lab Sample IDs: 2350138, 2350139, 2350140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Propargite	98.9		P	80 - 120
Propiconazole	97.7		P	80 - 120
Pyraflufen Ethyl	99.0		P	80 - 120
Pyridaben	95.9		P	80 - 120
Pyriproxyfen	97.7		P	80 - 120
Simazine	106		P	80 - 120
Stirophos	105		P	80 - 120
Sulfentrazone	98.8		P	80 - 120
Tebuconazole	96.9		P	80 - 120
Terbufos	99.4		P	80 - 120
Terbuthylazine	104		P	80 - 120
Thiobencarb	100		P	80 - 120
Triadimefon	97.5		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A114274
Included Lab Sample IDs: 2350116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	100	99.1	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A114340
Included Lab Sample IDs: 2350138, 2350139, 2350140

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	96.8		P	80 - 120
Avobenzone	94.1		P	80 - 120
Dechlorane Plus	97.7		P	80 - 120
Octinoxate	93.7		P	80 - 120
Oxybenzone	92.9		P	80 - 120
PBDE-47	96.9		P	80 - 120
PBDE-99	97.8		P	80 - 120
Tri-o-cresyl Phosphate	101		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A114348
Included Lab Sample IDs: 2350116

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A114393
Included Lab Sample IDs: 2350116

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	98.8	99.6	P/P	90 - 110

Quality Assurance Report
Calibration Verification

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity	97.1				16.4	
EPA 350.1 Rev. 2.0	Ammonia-N	101	98.4	104			3.12
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	102	99.2	100			0.961
EPA 353.2 Rev. 2.0	NO2NO3-N	97.0	98.1	98.1			0.0
EPA 365.1 Rev. 2.0	Total-P	103	98.3	99.1			0.780
EPA 8270E	2-Ethylhexyl 2,3,4,5-tetrabromobenzoate (EHTBB)	85.9	76.4	73.5			3.87
	Acetochlor	75.0	82.9	92.0			10.5
	Alachlor	72.3	68.4	80.0			15.7
	Ametryn	76.9	54.1	62.9			6.93
	Atrazine	81.5	89.4	101			7.54
	Atrazine Desethyl	52.5	44.0	51.0			14.7
	Avobenzone	77.1	84.2	79.5			5.73
	Azinphos Methyl	97.3	102	100			2.32
	Azoxystrobin	102	102	126			18.2
	Bromacil	53.2					19.9
	Butylate	44.5	56.8	43.7			26.1
	Caffeine	89.3	86.9	91.2			4.77
	Carbophenothion	74.6	78.1	82.1			5.02
	Carfentrazone Ethyl	79.1	80.5	79.0			1.87
	Chlorfenapyr	76.6	76.3	70.4			8.01
	Chlorpyrifos Ethyl	78.9	75.6	73.1			3.45
	Chlorpyrifos Methyl	86.0	85.9	80.6			6.36
	Coumaphos	79.5	50.3	52.0			3.30
	Cyanazine	66.4	71.4	71.5			0.158
	Cyprodinil	70.5	68.1	73.9			8.14
	Dechlorane Plus	101	90.5	81.3			10.7
	Demeton	71.8	90.0	92.6			2.80
	Diazinon	81.2	87.0	97.5			11.4
	Difenoconazole	82.8	104	102			1.73
	Dimethenamid	58.9	70.0	74.6			6.38
	Dimethomorph	101	103	137			28.4
	Disulfoton	76.0	81.1	84.6			4.19
	Dithiopyr	72.3	57.8	57.6			0.207
	EPTC	43.9	52.5	49.8			5.27
	Ethion	39.6	55.6	40.8			30.6
	Ethoprop	79.5	91.5	86.4			5.73
	Etridiazole	49.3	63.1	61.8			2.16
	Fenamiphos	74.3	70.4	67.7			3.97
	Fenbuconazole	71.6	76.2	73.3			3.46
	Fipronil	71.1	80.4	84.5			4.98
	Fipronil Desulfinyl	79.3	86.1	82.2			4.63
	Fipronil Sulfide	61.3	64.4	64.4			0.0077
	Fipronil Sulfone	57.7	70.2	76.3			8.31
	Fluazifop-P-butyl	73.3	79.4	85.5			7.37
	Fludioxonil	67.9	73.7	82.8			11.7
	Flumioxazin	98.1	111	113			2.23
	Flutolanil	65.8	69.4	83.8			18.7
	Fluxapyroxad	58.8	71.5	68.5			4.30
	Fonofos	73.8	80.7	78.8			2.40
	Hexazinone	73.7	82.3	79.8			2.79
	Imazalil	61.8	61.7	86.9			34.0
	Iprodione	68.7	75.5	81.1			7.14

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 8270E	Loratadine	98.4	101	136			29.3
	Malathion	91.0	92.1	83.8			9.40
	Metalaxyl	66.2	69.0	73.2			3.54
	Metolachlor	71.5	71.2	79.4			10.3
	Metribuzin	88.8	94.3	100			6.04
	Mevinphos	72.1	78.7	77.0			2.22
	Molinate	58.4	68.4	65.5			4.32
	Myclobutanil	64.6	73.7	77.4			4.83
	Naled	60.8	85.7	88.3			2.95
	Napropamide	58.8	55.0	62.3			12.5
	Norflurazon	65.3					4.63
	Octinoxate	70.2	70.8	68.3			3.67
	Oxadiazon	59.9	66.0	75.6			13.5
	Oxybenzone	62.0	71.3	71.2			0.0905
	Oxyfluorfen	81.7	92.2	102			10.5
	Parathion Ethyl	85.3	90.1	94.6			4.84
	Parathion Methyl	96.7	110	109			1.07
	PBDE-47	73.7	75.4	70.4			6.75
	PBDE-99	72.6	65.4	61.2			6.55
	Pendimethalin	72.7	87.0	92.3			5.88
	Phenytoin	12.4	24.5	27.9			13.0
	Phorate	71.5	85.7	83.9			2.19
	Prodiamine	36.6	48.1	52.5			8.77
	Prometon	56.9	74.5	77.2			3.49
	Prometryn	66.7	65.8	65.3			0.847
	Pronamide	80.7	87.3	85.4			2.20
	Propanil	69.9	84.0	87.2			3.71
	Propargite	46.2	55.2	53.6			2.97
	Propiconazole	60.8	68.3	71.8			4.93
	Pyraflufen Ethyl	68.6	70.6	71.9			1.86
	Pyridaben	81.5	80.7	69.2			15.3
	Pyriproxyfen	66.3	69.4	65.4			5.80
	Simazine	76.6	84.2	93.3			10.2
	Stirophos	50.7	49.4	37.8			26.6
	Sulfentrazone	31.2	81.1	77.4			4.68
	Tebuconazole	33.2	44.2	42.3			4.34
	Terbufos	88.6	102	104			2.59
	Terbuthylazine	73.9	87.2	94.2			7.67
	Thiobencarb	66.9	69.5	69.8			0.510
	Tri-o-cresyl Phosphate	74.6	75.6	71.3			5.79
	Triadimefon	65.1	74.6	69.7			6.83
SM 2320 B-2011	Total Alkalinity	99.9				0.0308	
SM 4500-F- C-2011	Fluoride	100					
SM 5310 B-2011	Organic Carbon	96.2	94.2	94.3			0.0840

Reference Method Descriptions

Method	Description	Associated Samples
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2350115
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2350116
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2350116
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2350116
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2350116

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM	2350138, 2350139, 2350140
EPA 8270E	Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS	2350138, 2350139, 2350140
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2350115
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2350115
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2350115
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2350116

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	08/17/2022			08/17/2022 15:23	Khloe J Berg	2350115
EPA 350.1 Rev. 2.0	08/17/2022			08/23/2022 14:35	Judith K. Clark	2350116
EPA 351.2 Rev. 2.0	08/17/2022	08/25/2022 14:20	Alexandra J Mattheus	08/26/2022 13:55	Alexandra J Mattheus	2350116
EPA 353.2 Rev. 2.0	08/17/2022			08/19/2022 11:53	Beverly Y. Sanders	2350116
EPA 365.1 Rev. 2.0	08/17/2022	08/24/2022 15:20	Simonne.V. Calhoun	08/25/2022 14:26	James L Waggerby	2350116
EPA 8270E	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/22/2022 18:17	Michael Poppell	2350138
	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/22/2022 18:43	Michael Poppell	2350139
	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/22/2022 19:10	Michael Poppell	2350140
	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/24/2022 20:40	Lipi Saha	2350138
	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/24/2022 20:59	Lipi Saha	2350139
	08/17/2022	08/19/2022 08:00	Fe-Val Siddell	08/24/2022 21:19	Lipi Saha	2350140
SM 2320 B-2011	08/17/2022			08/19/2022 11:25	Adam P Silver	2350115
SM 2540 D-2011	08/17/2022			08/19/2022 15:07	Yijie Li	2350115
SM 4500-F- C-2011	08/17/2022			08/19/2022 08:15	Adam P Silver	2350115
SM 5310 B-2011	08/17/2022			08/23/2022 04:15	Khloe J Berg	2350116