

Chemical Analysis Report

NE-DIST-2022-07-12-01

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

Event Description: **LSJR Miramar**
Request ID: **RQ-2022-07-18-22**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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8800 Baymeadows Way West
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Certified by: Kerry Tate, Ph.D., Environmental Administrator

Date Certified: 01-AUG-2022 12:58

A handwritten signature in black ink that reads "Kerry Tate". The signature is written in a cursive, flowing style with a horizontal line above the first name.

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: Miramar at San Jose

Collection Date/Time: 07/11/2022 11:35

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340407	DEP SOP: NU-094-1	Color (true)	20	A	PCU	P416502	
	EPA 180.1 Rev. 2.0	Turbidity	3.6		NTU	P416507	
	EPA 300.0 Rev. 2.1	Chloride	30		mg Cl/L	P416959	
		Sulfate	61		mg SO4/L	P416963	
	SM 2320 B-2011	Total Alkalinity	83		mg CaCO3/L	P416839	
	SM 2540 C-2011	TDS	238		mg/L	P416903	
	SM 2540 D-2011	TSS	4	I	mg/L	P416817	
2340408	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P417357	MS
	EPA 350.1 Rev. 2.0	Ammonia-N	0.13		mg N/L	P417004	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.60		mg N/L	P416706	
	EPA 353.2 Rev. 2.0	NO2NO3-N	1.2		mg N/L	P416739	
	EPA 365.1 Rev. 2.0	Total-P	0.086		mg P/L	P416802	
2340415	EPA 8270E	SM 5310 B-2011	Organic Carbon	4.9	mg C/L	P416723	
		Aldrin	0.67	U	ng/L	P416473	
		Alpha-BHC	0.12	I	ng/L	P416473	
		Alpha-Chlordane	0.95	I	ng/L	P416473	
		PCB-1016	2.1	U	ng/L	P416473	
		Beta-BHC	0.67		ng/L	P416473	
		PCB-1221	2.1	U	ng/L	P416473	
		Beta-Cyfluthrin	1.3	U	ng/L	P416473	
		PCB-1232	2.1	U	ng/L	P416473	
		Bifenthrin	0.59	I	ng/L	P416473	
		PCB-1242	2.1	U	ng/L	P416473	
		PCB-1248	2.1	U	ng/L	P416473	
		Chlorothalonil	1.3	U	ng/L	P416473	
		PCB-1254	2.1	U	ng/L	P416473	
		Cis-Nonachlor	0.21	U	ng/L	P416473	
		PCB-1260	2.1	U	ng/L	P416473	
		Cypermethrin	1.6	U	ng/L	P416473	
		Dacthal	0.16	U	ng/L	P416473	
		DDD-p,p'	0.29	I	ng/L	P416473	
		DDE-p,p'	0.21	U	ng/L	P416473	
		DDT-p,p'	0.26	U	ng/L	P416473	
		Delta-BHC	1.8	I	ng/L	P416473	
		Deltamethrin	1.3	U	ng/L	P416473	
		Dichlobenil	28		ng/L	P416473	
		Dicofol	1.3	U	ng/L	P416473	
		Diieldrin	14		ng/L	P416473	
		Endosulfan I	0.41	U	ng/L	P416473	
		Endosulfan II	0.41	U	ng/L	P416473	
		Endosulfan Sulfate	0.31	U	ng/L	P416473	
		Endrin	0.41	U	ng/L	P416473	
		Endrin Aldehyde	0.78	U	ng/L	P416473	
		Endrin Ketone	0.42	I	ng/L	P416473	

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2340415	EPA 8270E	Esfenvalerate	0.78	U	ng/L	P416473	
		Ethalfuralin	0.16	U	ng/L	P416473	
		Fenpropathrin	0.26	U	ng/L	P416473	
		Gamma-BHC	0.66		ng/L	P416473	
		Gamma-Chlordane	0.65	I	ng/L	P416473	
		Heptachlor	0.21	U	ng/L	P416473	
		Heptachlor Epoxide	4.4		ng/L	P416473	
		Hexachlorobenzene**	1.0	U	ng/L	P416473	
		Kepone	5.2	U	ng/L	P416473	
		Lambda-Cyhalothrin	0.78	U	ng/L	P416473	
		Methoprene	0.78	U	ng/L	P416473	
		Methoxychlor	0.31	U	ng/L	P416473	
		MGK-264	0.21	U	ng/L	P416473	
		Mirex	0.36	U	ng/L	P416473	
		Oxychlordane	0.31	U	ng/L	P416473	
		Permethrin	1.7	U	ng/L	P416473	
		Phenothrin	0.93	U	ng/L	P416473	
		Piperonyl Butoxide	1.3		ng/L	P416473	
		Prallethrin	2.1	U	ng/L	P416473	
		Tau-Fluvalinate	0.26	U	ng/L	P416473	
		Tetramethrin	0.78	U	ng/L	P416473	
		Trans-Nonachlor	0.21	U	ng/L	P416473	
		Triclosan Methyl	0.16	U	ng/L	P416473	
		Trifluralin	0.21	U	ng/L	P416473	
	EPA 8276	Chlordane	6.4	I	ng/L	P416473	
		Toxaphene	16	U	ng/L	P416473	

Ref. Method and Comment:

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

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P416502

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416507

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416959

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417004

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416706

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416739

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416802

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

Reference Method: EPA 8270E
Batch ID: P416473

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416473

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-BHC	0.12	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P416473

Component	Result	Code	Units
Gamma-Chlordane	0.20	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	5.0	U	ng/L
Kepone	5.0	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Triclosan Methyl	0.15	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E
Batch ID: P416473

Component	Result	Code	Units
Trifluralin	0.20	U	ng/L
Trifluralin	0.20	U	ng/L

Reference Method: EPA 8276
Batch ID: P416473

Component	Result	Code	Units
Chlordane	2.5	U	ng/L
Chlordane	2.5	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: SM 2320 B-2011
Batch ID: P416839

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

Reference Method: SM 2540 C-2011
Batch ID: P416903

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P416817

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P417357

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P416723

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: P416502

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.5		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416507

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416959

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	98.1		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417004

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416739

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416802

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

Reference Method: EPA 8270E
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	68.3		P	10 - 92.0
Alpha-BHC	104		P	75 - 107
Alpha-Chlordane	102		P	50 - 108
Beta-BHC	125		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	88.3		P	20 - 161
Bifenthrin	72.5		P	10 - 119
Chlorothalonil	88.1		P	26 - 186
Cis-Nonachlor	71.5		P	42 - 119
Cypermethrin	88.3		P	22 - 150
Dacthal	101		P	72 - 119
DDD-p,p'	67.6		P	45 - 107
DDE-p,p'	97.9		P	48 - 106
DDT-p,p'	82.2		P	48 - 110
Delta-BHC	117		P	54 - 140
Deltamethrin	94.1		P	22 - 189
Dichlobenil	103		P	36 - 117
Dicofol	78.0		P	46 - 155
Dieldrin	96.4		P	54 - 110
Endosulfan I	103		P	59 - 105
Endosulfan II	76.0		P	51 - 118
Endosulfan Sulfate	84.0		P	57 - 121
Endrin	73.3		P	10 - 120
Endrin Aldehyde	72.9		P	34 - 118
Endrin Ketone	88.1		P	69 - 177
Esfenvalerate	80.2		P	23 - 168
Ethalfuralin	86.9		P	49 - 99.0
Fenpropathrin	83.3		P	34 - 117
Gamma-BHC	114		P	72 - 117
Gamma-Chlordane	93.0		P	43 - 106
Heptachlor	84.4		P	41 - 98.0
Heptachlor Epoxide	102		P	57 - 106
Hexachlorobenzene	83.9		P	36 - 99.0
Kepone	44.9		P	16 - 215
Lambda-Cyhalothrin	77.8		P	21 - 177
Methoprene	83.8		P	10 - 119
Methoxychlor	96.7		P	60 - 112
MGK-264	98.0		P	26 - 122
Mirex	66.2		P	10 - 169
Oxychlordane	87.4		P	43 - 105
PCB-1016	96.4		P	48 - 112
PCB-1260	99.5		P	44 - 118
Permethrin	87.7		P	24 - 148
Phenothrin	68.9		P	10 - 106
Piperonyl Butoxide	138		P	10 - 139
Prallethrin	98.1		P	17 - 109
Tau-Fluvalinate	80.4		P	13 - 131
Tetramethrin	97.3		P	10 - 132
Trans-Nonachlor	94.6		P	44 - 106
Triclosan Methyl	102		P	59 - 109
Trifluralin	84.4		P	44 - 101

Reference Method: EPA 8276
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	102		P	53 - 126

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P416473

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	121		P	56 - 211

Reference Method: SM 2320 B-2011
Batch ID: P416839

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.5		P	94 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P417357

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	103		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P416723

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	98.3		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416959

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340220	Chloride	99.3		P	90 - 110
2340232	Chloride	98.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340220	Sulfate	97.6		P	90 - 110
2340232	Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417004

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340376	Ammonia-N	95.2	98.2	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340224	Kjeldahl Nitrogen	101	95.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416739

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340322	NO2NO3-N	102	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416802

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340324	Total-P	103	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340415	PCB-1016	97.6	92.7	P/P	46 - 111
2340415	PCB-1260	96.3	94.2	P/P	45 - 114
2340506	Aldrin	66.4	68.2	P/P	20 - 82.0
2340506	Alpha-BHC	101	99.7	P/P	71 - 109
2340506	Alpha-Chlordane	92.6	85.3	P/P	42 - 106
2340506	Beta-BHC	118	116	P/P	69 - 180
2340506	Beta-Cyfluthrin	81.9	97.7	P/P	18 - 175
2340506	Bifenthrin	69.4	79.0	P/P	21 - 128
2340506	Chlorothalonil	127	110	P/P	10 - 300
2340506	Cis-Nonachlor	74.5	73.7	P/P	34 - 106
2340506	Cypermethrin	80.2	85.0	P/P	22 - 158
2340506	Dacthal	102	95.0	P/P	54 - 116
2340506	DDD-p,p'	70.8	66.9	P/P	34 - 107
2340506	DDE-p,p'	88.6	84.9	P/P	33 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340506	DDT-p,p'	77.8	80.0	P/P	50 - 122
2340506	Delta-BHC	113	109	P/P	77 - 193
2340506	Deltamethrin	96.3	116	P/P	10 - 195
2340506	Dichlobenil	101	94.8	P/P	25 - 113
2340506	Dicofol	72.1	80.0	P/P	38 - 247
2340506	Dieldrin	85.6	78.1	P/P	45 - 118
2340506	Endosulfan I	93.1	85.6	P/P	51 - 106
2340506	Endosulfan II	81.4	75.2	P/P	37 - 122
2340506	Endosulfan Sulfate	86.2	87.0	P/P	43 - 132
2340506	Endrin	76.9	71.2	P/P	29 - 101
2340506	Endrin Aldehyde	65.2	57.0	P/P	19 - 110
2340506	Endrin Ketone	88.5	89.8	P/P	60 - 140
2340506	Esfenvalerate	79.8	98.2	P/P	26 - 199
2340506	Ethalfuralin	83.7	80.8	P/P	45 - 99.0
2340506	Fenpropathrin	79.5	85.8	P/P	35 - 120
2340506	Gamma-BHC	107	105	P/P	63 - 128
2340506	Gamma-Chlordane	85.7	80.4	P/P	40 - 104
2340506	Heptachlor	75.2	70.6	P/P	36 - 97.0
2340506	Heptachlor Epoxide	98.1	91.8	P/P	49 - 184
2340506	Hexachlorobenzene	84.4	80.9	P/P	39 - 96.0
2340506	Kepone	39.4	16.8	P/P	10 - 217
2340506	Lambda-Cyhalothrin	77.6	89.8	P/P	21 - 193
2340506	Methoprene	71.8	74.3	P/P	20 - 106
2340506	Methoxychlor	89.8	96.6	P/P	53 - 118
2340506	MGK-264	90.9	92.6	P/P	40 - 118
2340506	Mirex	62.2	67.3	P/P	26 - 92.0
2340506	Oxychlordane	85.5	80.9	P/P	44 - 99.0
2340506	Permethrin	79.7	94.7	P/P	33 - 182
2340506	Phenothrin	66.9	80.9	P/P	10 - 129
2340506	Piperonyl Butoxide	137	123	P/P	10 - 211
2340506	Prallethrin	87.4	86.1	P/P	24 - 113
2340506	Tau-Fluvalinate	83.3	99.8	P/P	14 - 149
2340506	Tetramethrin	98.2	116	P/P	17 - 151
2340506	Trans-Nonachlor	91.0	91.4	P/P	42 - 102
2340506	Triclosan Methyl	93.1	83.8	P/P	48 - 108
2340506	Trifluralin	90.3	79.7	P/P	47 - 96.0

Reference Method: EPA 8276

Batch ID: P416473

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340415	Chlordane	106	98.0	P/P	53 - 126
2340415	Toxaphene	147	127	P/P	56 - 211

Reference Method: SM 4500-F- C-2011

Batch ID: P417357

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340221	Fluoride	103	104	P/F	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P416723

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2340375	Organic Carbon	100	100	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P416502

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340407	Color (true)	0.591	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P416507

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340232	Turbidity	3.72	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416959

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340220	Chloride	0.259	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P416963

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340220	Sulfate	0.557	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P417004

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340376	Ammonia-N	2.88	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P416706

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340224	Kjeldahl Nitrogen	4.52	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P416739

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340322	NO2NO3-N	0.445	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P416802

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340324	Total-P	0.0	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P416473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340415	PCB-1016	5.11	Spike	P	0 - 32
2340415	PCB-1260	2.19	Spike	P	0 - 31
2340506	Aldrin	2.59	Spike	P	0 - 41
2340506	Alpha-BHC	1.43	Spike	P	0 - 25
2340506	Alpha-Chlordane	6.65	Spike	P	0 - 33
2340506	Beta-BHC	1.86	Spike	P	0 - 36
2340506	Beta-Cyfluthrin	17.6	Spike	P	0 - 42
2340506	Bifenthrin	13.0	Spike	P	0 - 53
2340506	Chlorothalonil	14.1	Spike	P	0 - 71
2340506	Cis-Nonachlor	1.12	Spike	P	0 - 29
2340506	Cypermethrin	5.81	Spike	P	0 - 40
2340506	Dacthal	7.26	Spike	P	0 - 26
2340506	DDD-p,p'	5.78	Spike	P	0 - 39
2340506	DDE-p,p'	4.28	Spike	P	0 - 33
2340506	DDT-p,p'	2.75	Spike	P	0 - 40
2340506	Delta-BHC	3.14	Spike	P	0 - 37
2340506	Deltamethrin	18.2	Spike	P	0 - 100
2340506	Dichlobenil	5.99	Spike	P	0 - 40
2340506	Dicofol	10.4	Spike	P	0 - 31
2340506	Dieldrin	7.86	Spike	P	0 - 27
2340506	Endosulfan I	8.41	Spike	P	0 - 23
2340506	Endosulfan II	7.88	Spike	P	0 - 28
2340506	Endosulfan Sulfate	0.852	Spike	P	0 - 38
2340506	Endrin	7.76	Spike	P	0 - 63
2340506	Endrin Aldehyde	13.3	Spike	P	0 - 60
2340506	Endrin Ketone	1.44	Spike	P	0 - 37
2340506	Esfenvalerate	20.6	Spike	P	0 - 52
2340506	Ethalfuralin	3.55	Spike	P	0 - 23
2340506	Fenpropathrin	7.61	Spike	P	0 - 32
2340506	Gamma-BHC	2.01	Spike	P	0 - 17
2340506	Gamma-Chlordane	5.39	Spike	P	0 - 40
2340506	Heptachlor	6.25	Spike	P	0 - 29
2340506	Heptachlor Epoxide	4.60	Spike	P	0 - 25
2340506	Hexachlorobenzene	4.27	Spike	P	0 - 36
2340506	Kepone	37.0	Spike	P	0 - 93
2340506	Lambda-Cyhalothrin	14.6	Spike	P	0 - 55
2340506	Methoprene	3.37	Spike	P	0 - 53
2340506	Methoxychlor	7.31	Spike	P	0 - 29
2340506	MGK-264	1.77	Spike	P	0 - 35
2340506	Mirex	7.79	Spike	P	0 - 46
2340506	Oxychlordane	5.57	Spike	P	0 - 29
2340506	Permethrin	17.2	Spike	P	0 - 44
2340506	Phenothrin	18.9	Spike	P	0 - 56
2340506	Piperonyl Butoxide	10.8	Spike	P	0 - 100
2340506	Prallethrin	1.57	Spike	P	0 - 42
2340506	Tau-Fluvalinate	18.0	Spike	P	0 - 54
2340506	Tetramethrin	16.3	Spike	P	0 - 51
2340506	Trans-Nonachlor	0.442	Spike	P	0 - 37
2340506	Triclosan Methyl	10.5	Spike	P	0 - 31
2340506	Trifluralin	12.5	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P416473

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340415	Chlordane	7.10	Spike	P	0 - 25
2340415	Toxaphene	14.9	Spike	P	0 - 26

Reference Method: SM 2320 B-2011
Batch ID: P416839

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340697	Total Alkalinity	1.00	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P416903

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340374	TDS	7.54	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P417357

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340221	Fluoride	0.953	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P416723

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2340375	Organic Carbon	0.0996	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2340415
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	96.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	54.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	68.0	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	65.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	78.9	P	30 - 101
EPA 8276	PCNB	109	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A113443
Included Lab Sample IDs: 2340407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.7	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A113445
Included Lab Sample IDs: 2340407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	98.5	98.0	P/P	95 - 105

Reference Method: SM 5310 B-2011
Run ID: A113531
Included Lab Sample IDs: 2340408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	97.6	97.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A113536
Included Lab Sample IDs: 2340408

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

Reference Method: EPA 8270E
Run ID: A113555
Included Lab Sample IDs: 2340415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.9		P	80 - 120
PCB-1260	101		P	80 - 120

Reference Method: EPA 8270E
Run ID: A113574
Included Lab Sample IDs: 2340415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	100		P	80 - 120
Alpha-BHC	99.0		P	80 - 120
Alpha-Chlordane	116		P	80 - 120
Beta-BHC	99.7		P	80 - 120
Beta-Cyfluthrin	95.1		P	80 - 120
Bifenthrin	99.0		P	80 - 120
Chlorothalonil	92.5		P	80 - 120
Cis-Nonachlor	98.4		P	80 - 120
Cypermethrin	89.3		P	80 - 120
Dacthal	107		P	80 - 120
DDD-p,p'	89.3		P	80 - 120
DDE-p,p'	107		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	94.6		P	80 - 120
Deltamethrin	94.8		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A113574
Included Lab Sample IDs: 2340415

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Dichlobenil	105		P	80 - 120
Dicofol	108		P	80 - 120
Dieldrin	103		P	80 - 120
Endosulfan I	104		P	80 - 120
Endosulfan II	91.2		P	80 - 120
Endosulfan Sulfate	96.1		P	80 - 120
Endrin	91.7		P	80 - 120
Endrin Aldehyde	85.4		P	80 - 120
Endrin Ketone	103		P	80 - 120
Esfenvalerate	86.0		P	80 - 120
Ethalfuralin	98.6		P	80 - 120
Fenpropathrin	98.8		P	80 - 120
Gamma-BHC	99.0		P	80 - 120
Gamma-Chlordane	110		P	80 - 120
Heptachlor	97.4		P	80 - 120
Heptachlor Epoxide	109		P	80 - 120
Hexachlorobenzene	99.0		P	80 - 120
Kepone	86.1		P	80 - 120
Lambda-Cyhalothrin	99.4		P	80 - 120
Methoprene	98.9		P	80 - 120
Methoxychlor	103		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	98.7		P	80 - 120
Oxychlordane	104		P	80 - 120
Permethrin	94.2		P	80 - 120
Phenothrin	90.4		P	80 - 120
Piperonyl Butoxide	96.4		P	80 - 120
Prallethrin	92.2		P	80 - 120
Tau-Fluvalinate	94.8		P	80 - 120
Tetramethrin	95.3		P	80 - 120
Trans-Nonachlor	116		P	80 - 120
Triclosan Methyl	107		P	80 - 120
Trifluralin	99.7		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A113576
Included Lab Sample IDs: 2340407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.3	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A113582
Included Lab Sample IDs: 2340408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	97.8	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A113606

Included Lab Sample IDs: 2340408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	96.8	96.6	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A113634

Included Lab Sample IDs: 2340407

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	100	101	P/P	90 - 110
Sulfate	99.7	99.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A113645

Included Lab Sample IDs: 2340408

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.0	98.9	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A113778

Included Lab Sample IDs: 2340407

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	98.5				0.591	
EPA 180.1 Rev. 2.0	Turbidity	95.0				3.72	
EPA 300.0 Rev. 2.1	Chloride	98.5	99.3	98.2		0.259	
	Sulfate	98.1	97.6	96.3		0.557	
EPA 350.1 Rev. 2.0	Ammonia-N	97.4	95.2	98.2			2.88
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	101	95.6			4.52
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	102	102			0.445
EPA 365.1 Rev. 2.0	Total-P	101	103	103			0.0
EPA 8270E	Aldrin	68.3	66.4	68.2			2.59
	Alpha-BHC	104	101	99.7			1.43
	Alpha-Chlordane	102	92.6	85.3			6.65
	Beta-BHC	125	118	116			1.86
	Beta-Cyfluthrin	88.3	81.9	97.7			17.6
	Bifenthrin	72.5	69.4	79.0			13.0
	Chlorothalonil	88.1	127	110			14.1
	Cis-Nonachlor	71.5	74.5	73.7			1.12
	Cypermethrin	88.3	80.2	85.0			5.81
	Dacthal	101	102	95.0			7.26
	DDD-p,p'	67.6	70.8	66.9			5.78
	DDE-p,p'	97.9	88.6	84.9			4.28
	DDT-p,p'	82.2	77.8	80.0			2.75
	Delta-BHC	117	113	109			3.14
	Deltamethrin	94.1	96.3	116			18.2
	Dichlobenil	103	101	94.8			5.99
	Dicofol	78.0	72.1	80.0			10.4
	Dieldrin	96.4	85.6	78.1			7.86
	Endosulfan I	103	93.1	85.6			8.41
	Endosulfan II	76.0	81.4	75.2			7.88
	Endosulfan Sulfate	84.0	86.2	87.0			0.852
	Endrin	73.3	76.9	71.2			7.76
	Endrin Aldehyde	72.9	65.2	57.0			13.3
	Endrin Ketone	88.1	88.5	89.8			1.44
	Esfenvalerate	80.2	79.8	98.2			20.6
	Ethalfuralin	86.9	83.7	80.8			3.55
	Fenpropathrin	83.3	79.5	85.8			7.61
	Gamma-BHC	114	107	105			2.01
	Gamma-Chlordane	93.0	85.7	80.4			5.39
	Heptachlor	84.4	75.2	70.6			6.25
	Heptachlor Epoxide	102	98.1	91.8			4.60
	Hexachlorobenzene	83.9	84.4	80.9			4.27
	Kepone	44.9	39.4	16.8			37.0
	Lambda-Cyhalothrin	77.8	77.6	89.8			14.6
	Methoprene	83.8	71.8	74.3			3.37
	Methoxychlor	96.7	89.8	96.6			7.31
	MGK-264	98.0	90.9	92.6			1.77
	Mirex	66.2	62.2	67.3			7.79
	Oxychlordane	87.4	85.5	80.9			5.57
	PCB-1016	96.4	97.6	92.7			5.11
	PCB-1260	99.5	96.3	94.2			2.19
	Permethrin	87.7	79.7	94.7			17.2
	Phenothrin	68.9	66.9	80.9			18.9
	Piperonyl Butoxide	138	137	123			10.8
	Prallethrin	98.1	87.4	86.1			1.57
	Tau-Fluvalinate	80.4	83.3	99.8			18.0

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	MS
EPA 8270E	Tetramethrin	97.3	98.2	116		16.3
	Trans-Nonachlor	94.6	91.0	91.4		0.442
	Triclosan Methyl	102	93.1	83.8		10.5
	Trifluralin	84.4	90.3	79.7		12.5
EPA 8276	Chlordane	102	106	98.0		7.10
	Toxaphene	121	147	127		14.9
SM 2320 B-2011	Total Alkalinity	99.5			1.00	
SM 2540 C-2011	TDS				7.54	
SM 4500-F- C-2011	Fluoride	103	103	104		0.953
SM 5310 B-2011	Organic Carbon	98.3	100	100		0.0996

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2340407
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2340407
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2340407
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2340407
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2340408
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2340408
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2340408
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2340408
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2340415
EPA 8270E	PCBs in water matrices by GC/MS/MS	2340415
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2340415
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2340407
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2340407
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2340407
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2340407
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2340408

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	07/12/2022			07/12/2022 15:43	Samantha L Bates	2340407
EPA 180.1 Rev. 2.0	07/12/2022			07/12/2022 13:43	Khloe J Berg	2340407
EPA 300.0 Rev. 2.1	07/12/2022			07/19/2022 21:31	Anna M. Plaviak	2340407
EPA 350.1 Rev. 2.0	07/12/2022			07/21/2022 13:05	Ping Hua	2340408
EPA 351.2 Rev. 2.0	07/12/2022	07/18/2022 16:27	Samantha L Bates	07/19/2022 12:12	Alexandra J Mattheus	2340408
EPA 353.2 Rev. 2.0	07/12/2022			07/15/2022 13:14	Judith K. Clark	2340408
EPA 365.1 Rev. 2.0	07/12/2022	07/19/2022 16:00	Adam P Silver	07/20/2022 09:36	James L Waggerby	2340408
EPA 8270E	07/12/2022	07/13/2022 08:00	Fe-Val Siddell	07/16/2022 00:41	Arthur Maknenko	2340415
	07/12/2022	07/13/2022 08:00	Fe-Val Siddell	07/18/2022 00:02	Michael Poppell	2340415
EPA 8276	07/12/2022	07/13/2022 08:00	Fe-Val Siddell	07/20/2022 08:20	Julie Wi	2340415
SM 2320 B-2011	07/12/2022			07/15/2022 05:27	Dale L. Simmons	2340407
SM 2540 C-2011	07/12/2022			07/13/2022 16:09	Yijie Li	2340407
SM 2540 D-2011	07/12/2022			07/13/2022 16:09	Yijie Li	2340407
SM 4500-F- C-2011	07/12/2022			07/29/2022 05:58	Dale L. Simmons	2340407
SM 5310 B-2011	07/12/2022			07/14/2022 20:34	Khloe J Berg	2340408