

Chemical Analysis Report

SE-DIST-2023-01-25-01

Florida DEP Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Sebastian Deploy and Pickup**
Request ID: **RQ-2023-01-23-04**
Customer: **SE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FL Dept. of Environmental Protection
2199 South Rock Road
Fort Pierce, FL 34945
Attn: Jordan Skaggs

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: Liang Lin, Environmental Administrator

Date Certified: 14-FEB-2023 12:19

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

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: Micco Ditch @ Micco Rd.

Collection Date/Time: 01/24/2023 11:00

Field ID: G5SE0048

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2382920	DEP SOP: NU-094-1	Color (true)	54		PCU	P424984	
	EPA 180.1 Rev. 2.0	Turbidity	7.8	A	NTU	P424989	
	EPA 300.0 Rev. 2.1	Chloride	150		mg Cl/L	P425654	
		Sulfate	31		mg SO4/L	P425658	
	SM 2320 B-2011	Total Alkalinity	229		mg CaCO3/L	P425395	
	SM 2540 C-2015	TDS	546		mg/L	P425427	
	SM 2540 D-2015	TSS	5	I	mg/L	P425333	
	SM 4500-F- C-2011	Fluoride	0.28		mg F/L	P425399	RPD
2382921	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P425531	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.68		mg N/L	P425065	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P425257	
	EPA 365.1 Rev. 2.0	Total-P	0.060		mg P/L	P425170	
	SM 5310 B-2011	Organic Carbon	15		mg C/L	P425162	

Ref. Method and Comment:

SM 2540 D-2015: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

Sample Location: South Prong Sebastian @ Park Dock

Collection Date/Time: 01/24/2023 10:00

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2382926	EPA 8270E	Aldrin	0.67	U	ng/L	P425082	
		Alpha-BHC	0.10	U	ng/L	P425082	
		Alpha-Chlordane	0.20	UJ	ng/L	P425082	MS
		PCB-1016	2.0	U	ng/L	P425082	
		Beta-BHC	0.10	U	ng/L	P425082	
		PCB-1221	2.0	U	ng/L	P425082	
		Beta-Cyfluthrin	1.3	U	ng/L	P425082	
		PCB-1232	2.0	U	ng/L	P425082	
		Bifenthrin	0.51	U	ng/L	P425082	
		PCB-1242	2.0	U	ng/L	P425082	
		PCB-1248	2.0	U	ng/L	P425082	
		Chlorothalonil	3.7	U	ng/L	P425082	
		PCB-1254	2.0	U	ng/L	P425082	
		Cis-Nonachlor	0.20	U	ng/L	P425082	
		PCB-1260	2.0	U	ng/L	P425082	
		Cypermethrin	1.5	U	ng/L	P425082	
		Dacthal	0.15	U	ng/L	P425082	
		DDD-p,p'	0.26	UJ	ng/L	P425082	MS
		DDE-p,p'	0.20	U	ng/L	P425082	
		DDT-p,p'	0.26	U	ng/L	P425082	
		Delta-BHC	0.41	U	ng/L	P425082	
		Deltamethrin	1.3	U	ng/L	P425082	
		Dichlobenil	0.26	U	ng/L	P425082	
		Dicofol	1.3	U	ng/L	P425082	
		Dieldrin	0.41	U	ng/L	P425082	
		Endosulfan I	0.41	U	ng/L	P425082	
		Endosulfan II	0.41	U	ng/L	P425082	
		Endosulfan Sulfate	0.31	U	ng/L	P425082	
		Endrin	0.41	UJ	ng/L	P425082	MS
		Endrin Aldehyde	0.77	U	ng/L	P425082	
		Endrin Ketone	0.41	U	ng/L	P425082	
		Esfenvalerate	0.77	U	ng/L	P425082	
		Ethalfuralin	0.15	U	ng/L	P425082	
		Fenpropathrin	0.26	U	ng/L	P425082	
		Gamma-BHC	0.13	U	ng/L	P425082	
		Gamma-Chlordane	0.24	I	ng/L	P425082	
		Heptachlor	0.20	U	ng/L	P425082	
		Heptachlor Epoxide	0.26	U	ng/L	P425082	
		Hexachlorobenzene**	1.0	U	ng/L	P425082	
		Kepone	5.1	U	ng/L	P425082	
		Lambda-Cyhalothrin	0.77	U	ng/L	P425082	
		Methoprene	0.77	U	ng/L	P425082	
		Methoxychlor	0.31	UJ	ng/L	P425082	MS
		MGK-264	0.20	U	ng/L	P425082	

Field ID: G5SE0079

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2382926	EPA 8270E	Mirex	0.36	U	ng/L	P425082	
		Oxychlordane	0.31	U	ng/L	P425082	
		Permethrin	1.6	U	ng/L	P425082	
		Phenothrin	0.92	U	ng/L	P425082	
		Piperonyl Butoxide	0.15	U	ng/L	P425082	
		Prallethrin	2.0	UJ	ng/L	P425082	MS
		Tau-Fluvalinate	0.26	U	ng/L	P425082	
		Tetramethrin	0.77	U	ng/L	P425082	
		Trans-Nonachlor	0.20	U	ng/L	P425082	
		Triclosan Methyl	0.15	U	ng/L	P425082	
		Trifluralin	0.20	U	ng/L	P425082	
		Chlordane	2.0	U	ng/L	P425082	
		Toxaphene	15	U	ng/L	P425082	
	EPA 8276						

Ref. Method and Comment:
EPA 8270E: Refer to the Lab Analysis Report for an explanation of QC Codes.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P424984

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424989

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425531

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425065

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425257

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425170

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

Reference Method: EPA 8270E
Batch ID: P425082

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: P425082

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	3.6	U	ng/L
Chlorothalonil	3.6	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: P425082

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: P425082

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

Reference Method: EPA 8276
Batch ID: P425082

Component	Result	Code	Units
Chlordane	2.0	U	ng/L
Chlordane	2.0	U	ng/L
Toxaphene	15	U	ng/L
Toxaphene	15	U	ng/L

Reference Method: SM 2320 B-2011
Batch ID: P425395

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

Reference Method: SM 2540 C-2015
Batch ID: P425427

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P425333

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P425399

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P425162

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: P424984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	99.9		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424989

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425531

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425065

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	97.2		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425257

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	105		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425170

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

Reference Method: EPA 8270E
Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.7		P	10 - 92.0
Alpha-BHC	93.7		P	75 - 107
Alpha-Chlordane	84.8		P	50 - 108
Beta-BHC	120		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E
Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	79.5		P	20 - 161
Bifenthrin	50.9		P	10 - 119
Chlorothalonil	112		P	26 - 186
Cis-Nonachlor	62.5		P	42 - 119
Cypermethrin	71.6		P	22 - 150
Dacthal	95.5		P	72 - 119
DDD-p,p'	89.2		P	45 - 107
DDE-p,p'	83.9		P	48 - 106
DDT-p,p'	68.9		P	48 - 110
Delta-BHC	113		P	54 - 140
Deltamethrin	91.2		P	22 - 189
Dichlobenil	81.6		P	36 - 117
Dicofol	105		P	46 - 155
Dieldrin	89.8		P	54 - 110
Endosulfan I	75.6		P	59 - 105
Endosulfan II	88.0		P	51 - 118
Endosulfan Sulfate	105		P	57 - 121
Endrin	91.8		P	10 - 120
Endrin Aldehyde	73.7		P	34 - 118
Endrin Ketone	97.2		P	69 - 177
Esfenvalerate	84.2		P	23 - 168
Ethalfuralin	71.1		P	49 - 99.0
Fenpropathrin	62.8		P	34 - 117
Gamma-BHC	88.4		P	72 - 117
Gamma-Chlordane	60.7		P	43 - 106
Heptachlor	68.9		P	41 - 98.0
Heptachlor Epoxide	84.7		P	57 - 106
Hexachlorobenzene	67.4		P	36 - 99.0
Kepone	205		P	16 - 215
Lambda-Cyhalothrin	60.7		P	21 - 177
Methoprene	60.9		P	10 - 119
Methoxychlor	97.2		P	60 - 112
MGK-264	79.2		P	26 - 122
Mirex	53.5		P	10 - 169
Oxychlordane	75.3		P	43 - 105
PCB-1016	84.4		P	48 - 112
PCB-1260	93.6		P	44 - 118
Permethrin	103		P	24 - 148
Phenothrin	39.5		P	10 - 106
Piperonyl Butoxide	92.5		P	10 - 139
Prallethrin	82.6		P	17 - 109
Tau-Fluvalinate	78.8		P	13 - 131
Tetramethrin	69.2		P	10 - 132
Trans-Nonachlor	71.7		P	44 - 106
Triclosan Methyl	72.8		P	59 - 109
Trifluralin	72.8		P	44 - 101

Reference Method: EPA 8276
Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	105		P	61 - 116

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P425082

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Toxaphene	114		P	48 - 124

Reference Method: SM 2320 B-2011
Batch ID: P425395

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	97.0		P	94 - 106

Reference Method: SM 2540 C-2015
Batch ID: P425427

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

Reference Method: SM 2540 D-2015
Batch ID: P425333

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	101		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P425399

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P425162

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.6		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382908	Chloride	97.1		P	90 - 110
2383026	Chloride	90.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382908	Sulfate	94.3		P	90 - 110
2383026	Sulfate	90.2		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425531

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382912	Ammonia-N	97.6	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425065

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382921	Kjeldahl Nitrogen	96.2	97.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425257

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382891	NO2NO3-N	103	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425170

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382911	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382926	Aldrin	51.2	52.6	P/P	20 - 82.0
2382926	Alpha-BHC	87.8	91.7	P/P	71 - 109
2382926	Alpha-Chlordane	100	109	P/F	42 - 106
2382926	Beta-BHC	118	126	P/P	69 - 180
2382926	Beta-Cyfluthrin	105	104	P/P	18 - 175
2382926	Bifenthrin	51.8	72.9	P/P	21 - 128
2382926	Chlorothalonil	114	114	P/P	10 - 300
2382926	Cis-Nonachlor	66.4	57.5	P/P	34 - 106
2382926	Cypermethrin	77.6	79.2	P/P	22 - 158
2382926	Dacthal	82.7	88.5	P/P	54 - 116
2382926	DDD-p,p'	107	96.9	F/P	34 - 107
2382926	DDE-p,p'	99.3	103	P/P	33 - 110
2382926	DDT-p,p'	63.8	73.8	P/P	50 - 122
2382926	Delta-BHC	122	127	P/P	77 - 193

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382926	Deltamethrin	126	95.4	P/P	10 - 195
2382926	Dichlobenil	49.2	50.5	P/P	25 - 113
2382926	Dicofol	78.1	79.5	P/P	38 - 247
2382926	Dieldrin	95.7	104	P/P	45 - 118
2382926	Endosulfan I	71.8	72.9	P/P	51 - 106
2382926	Endosulfan II	72.2	77.7	P/P	37 - 122
2382926	Endosulfan Sulfate	102	119	P/P	43 - 132
2382926	Endrin	100	108	P/F	29 - 101
2382926	Endrin Aldehyde	54.1	37.5	P/P	19 - 110
2382926	Endrin Ketone	77.9	70.9	P/P	60 - 140
2382926	Esfenvalerate	119	115	P/P	26 - 199
2382926	Ethalfuralin	72.4	80.5	P/P	45 - 99.0
2382926	Fenpropathrin	63.4	55.8	P/P	35 - 120
2382926	Gamma-BHC	75.6	75.6	P/P	63 - 128
2382926	Gamma-Chlordane	60.2	50.0	P/P	40 - 104
2382926	Heptachlor	60.8	67.8	P/P	36 - 97.0
2382926	Heptachlor Epoxide	71.7	82.7	P/P	49 - 184
2382926	Hexachlorobenzene	74.6	85.2	P/P	39 - 96.0
2382926	Kepone	175	182	P/P	10 - 217
2382926	Lambda-Cyhalothrin	90.3	83.8	P/P	21 - 193
2382926	Methoprene	100	95.2	P/P	20 - 106
2382926	Methoxychlor	48.2	53.5	F/P	53 - 118
2382926	MGK-264	82.3	83.8	P/P	40 - 118
2382926	Mirex	52.7	53.1	P/P	26 - 92.0
2382926	Oxychlordane	60.4	73.7	P/P	44 - 99.0
2382926	Permethrin	108	114	P/P	33 - 182
2382926	Phenothrin	94.0	54.1	P/P	10 - 129
2382926	Piperonyl Butoxide	101	79.7	P/P	10 - 211
2382926	Prallethrin	118	111	F/P	24 - 113
2382926	Tau-Fluvalinate	116	112	P/P	14 - 149
2382926	Tetramethrin	54.0	64.0	P/P	17 - 151
2382926	Trans-Nonachlor	64.3	65.5	P/P	42 - 102
2382926	Triclosan Methyl	77.9	67.1	P/P	48 - 108
2382926	Trifluralin	68.2	76.6	P/P	47 - 96.0
2383566	PCB-1016	87.8	91.8	P/P	46 - 111
2383566	PCB-1260	92.3	94.2	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P425082

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2383566	Chlordane	118	108	P/P	53 - 126
2383566	Toxaphene	127	123	P/P	56 - 211

Reference Method: SM 4500-F- C-2011

Batch ID: P425399

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382909	Fluoride	103	100	P/P	94 - 104

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P425162

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2382890	Organic Carbon	104		P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P424984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382841	Color (true)	1.99	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P424989

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382920	Turbidity	5.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425654

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382908	Chloride	0.313	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P425658

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382908	Sulfate	0.230	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P425531

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382912	Ammonia-N	3.82	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P425065

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382921	Kjeldahl Nitrogen	0.999	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P425257

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382891	NO2NO3-N	1.31	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P425170

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382911	Total-P	1.37	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P425082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382926	Aldrin	2.81	Spike	P	0 - 41
2382926	Alpha-BHC	4.37	Spike	P	0 - 25
2382926	Alpha-Chlordane	8.26	Spike	P	0 - 33
2382926	Beta-BHC	6.12	Spike	P	0 - 36
2382926	Beta-Cyfluthrin	0.926	Spike	P	0 - 42
2382926	Bifenthrin	33.8	Spike	P	0 - 53
2382926	Chlorothalonil	0.282	Spike	P	0 - 71
2382926	Cis-Nonachlor	14.4	Spike	P	0 - 29
2382926	Cypermethrin	2.09	Spike	P	0 - 40
2382926	Dacthal	6.81	Spike	P	0 - 26
2382926	DDD-p,p'	10.1	Spike	P	0 - 39
2382926	DDE-p,p'	3.72	Spike	P	0 - 33
2382926	DDT-p,p'	14.5	Spike	P	0 - 40
2382926	Delta-BHC	4.21	Spike	P	0 - 37
2382926	Deltamethrin	27.4	Spike	P	0 - 100
2382926	Dichlobenil	2.66	Spike	P	0 - 40
2382926	Dicofol	1.72	Spike	P	0 - 31
2382926	Dieldrin	7.97	Spike	P	0 - 27
2382926	Endosulfan I	1.44	Spike	P	0 - 23
2382926	Endosulfan II	7.33	Spike	P	0 - 28
2382926	Endosulfan Sulfate	16.0	Spike	P	0 - 38
2382926	Endrin	7.84	Spike	P	0 - 63
2382926	Endrin Aldehyde	36.2	Spike	P	0 - 60
2382926	Endrin Ketone	9.45	Spike	P	0 - 37
2382926	Esfenvalerate	3.11	Spike	P	0 - 52
2382926	Ethalfuralin	10.6	Spike	P	0 - 23
2382926	Fenpropathrin	12.8	Spike	P	0 - 32
2382926	Gamma-BHC	0.0517	Spike	P	0 - 17
2382926	Gamma-Chlordane	16.4	Spike	P	0 - 40
2382926	Heptachlor	10.9	Spike	P	0 - 29
2382926	Heptachlor Epoxide	14.2	Spike	P	0 - 25
2382926	Hexachlorobenzene	13.2	Spike	P	0 - 36
2382926	Kepone	3.71	Spike	P	0 - 93
2382926	Lambda-Cyhalothrin	7.42	Spike	P	0 - 55
2382926	Methoprene	4.88	Spike	P	0 - 53
2382926	Methoxychlor	10.3	Spike	P	0 - 29
2382926	MGK-264	1.75	Spike	P	0 - 35
2382926	Mirex	0.776	Spike	P	0 - 46
2382926	Oxychlordane	19.9	Spike	P	0 - 29
2382926	Permethrin	5.77	Spike	P	0 - 44
2382926	Phenothrin	53.9	Spike	P	0 - 56
2382926	Piperonyl Butoxide	23.2	Spike	P	0 - 100
2382926	Prallethrin	5.97	Spike	P	0 - 42
2382926	Tau-Fluvalinate	3.31	Spike	P	0 - 54
2382926	Tetramethrin	16.8	Spike	P	0 - 51
2382926	Trans-Nonachlor	1.92	Spike	P	0 - 37
2382926	Triclosan Methyl	14.9	Spike	P	0 - 31
2382926	Trifluralin	11.5	Spike	P	0 - 30
2383566	PCB-1016	4.39	Spike	P	0 - 32
2383566	PCB-1260	2.03	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P425082

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2383566	Chlordane	8.25	Spike	P	0 - 25
2383566	Toxaphene	2.93	Spike	P	0 - 26

Reference Method: SM 2320 B-2011
Batch ID: P425395

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382909	Total Alkalinity	0.110	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P425427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382577	TDS	5.08	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P425399

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382909	Fluoride	1.95	Spike	F	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P425162

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2382890	Organic Carbon	1.01	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2382926
Field Sample ID: G5SE0079

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	98.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	94.6	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	68.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	71.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	59.5	P	30 - 101
EPA 8276	PCNB	104	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A117094
Included Lab Sample IDs: 2382920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	103	102	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A117097
Included Lab Sample IDs: 2382920

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

Reference Method: SM 5310 B-2011
Run ID: A117165
Included Lab Sample IDs: 2382921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	99.2	99.8	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A117175
Included Lab Sample IDs: 2382921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.4	97.4	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117198
Included Lab Sample IDs: 2382926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	98.5		P	80 - 120
PCB-1260	102		P	80 - 120

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A117200
Included Lab Sample IDs: 2382921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	102	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A117205
Included Lab Sample IDs: 2382921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	107	108	P/P	90 - 110

Reference Method: EPA 8270E
Run ID: A117220
Included Lab Sample IDs: 2382926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	98.1		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A117220
Included Lab Sample IDs: 2382926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Alpha-BHC	96.7		P	80 - 120
Alpha-Chlordane	87.9		P	80 - 120
Beta-BHC	107		P	80 - 120
Beta-Cyfluthrin	98.6		P	80 - 120
Bifenthrin	98.8		P	80 - 120
Chlorothalonil	103		P	80 - 120
Cis-Nonachlor	105		P	80 - 120
Cypermethrin	115		P	80 - 120
Dacthal	111		P	80 - 120
DDD-p,p'	96.2		P	80 - 120
DDE-p,p'	96.0		P	80 - 120
DDT-p,p'	97.0		P	80 - 120
Delta-BHC	90.8		P	80 - 120
Deltamethrin	100		P	80 - 120
Dichlobenil	92.5		P	80 - 120
Dicofol	98.8		P	80 - 120
Dieldrin	95.4		P	80 - 120
Endosulfan I	100		P	80 - 120
Endosulfan II	110		P	80 - 120
Endosulfan Sulfate	96.1		P	80 - 120
Endrin	93.9		P	80 - 120
Endrin Aldehyde	114		P	80 - 120
Endrin Ketone	113		P	80 - 120
Esfenvalerate	98.9		P	80 - 120
Ethalfuralin	102		P	80 - 120
Fenpropathrin	81.3		P	80 - 120
Gamma-BHC	112		P	80 - 120
Gamma-Chlordane	105		P	80 - 120
Heptachlor	109		P	80 - 120
Heptachlor Epoxide	108		P	80 - 120
Hexachlorobenzene	106		P	80 - 120
Kepone	83.8		P	80 - 120
Lambda-Cyhalothrin	113		P	80 - 120
Methoprene	92.1		P	80 - 120
Methoxychlor	87.2		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	107		P	80 - 120
Oxychlordane	101		P	80 - 120
Permethrin	94.1		P	80 - 120
Phenothrin	95.0		P	80 - 120
Piperonyl Butoxide	89.8		P	80 - 120
Prallethrin	87.2		P	80 - 120
Tau-Fluvalinate	98.7		P	80 - 120
Tetramethrin	80.2		P	80 - 120
Trans-Nonachlor	109		P	80 - 120
Triclosan Methyl	101		P	80 - 120
Trifluralin	103		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276
Run ID: A117231
Included Lab Sample IDs: 2382926

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	98.2		P	80 - 120
Toxaphene	92.8		P	80 - 120

Reference Method: SM 2320 B-2011
Run ID: A117270
Included Lab Sample IDs: 2382920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	96.8	95.5	P/P	90 - 110

Reference Method: SM 4500-F- C-2011
Run ID: A117270
Included Lab Sample IDs: 2382920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	104	105	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A117317
Included Lab Sample IDs: 2382920

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	93.3	98.1	P/P	90 - 110
Sulfate	93.0	96.9	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A117326
Included Lab Sample IDs: 2382921

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.0	96.4	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)	99.9				1.99	
EPA 180.1 Rev. 2.0	Turbidity	101				5.61	
EPA 300.0 Rev. 2.1	Chloride	98.2	97.1	90.3		0.313	
	Sulfate	96.6	94.3	90.2		0.230	
EPA 350.1 Rev. 2.0	Ammonia-N	95.2	97.6	101			3.82
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.2	96.2	97.5			0.999
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	105	103	105			1.31
EPA 365.1 Rev. 2.0	Total-P	103	105	106			1.37
EPA 8270E	Aldrin	45.7	51.2	52.6			2.81
	Alpha-BHC	93.7	87.8	91.7			4.37
	Alpha-Chlordane	84.8	100	109			8.26
	Beta-BHC	120	118	126			6.12
	Beta-Cyfluthrin	79.5	105	104			0.926
	Bifenthrin	50.9	51.8	72.9			33.8
	Chlorothalonil	112	114	114			0.282
	Cis-Nonachlor	62.5	66.4	57.5			14.4
	Cypermethrin	71.6	77.6	79.2			2.09
	Dacthal	95.5	82.7	88.5			6.81
	DDD-p,p'	89.2	107	96.9			10.1
	DDE-p,p'	83.9	99.3	103			3.72
	DDT-p,p'	68.9	63.8	73.8			14.5
	Delta-BHC	113	122	127			4.21
	Deltamethrin	91.2	126	95.4			27.4
	Dichlobenil	81.6	49.2	50.5			2.66
	Dicofol	105	78.1	79.5			1.72
	Dieldrin	89.8	95.7	104			7.97
	Endosulfan I	75.6	71.8	72.9			1.44
	Endosulfan II	88.0	72.2	77.7			7.33
	Endosulfan Sulfate	105	102	119			16.0
	Endrin	91.8	100	108			7.84
	Endrin Aldehyde	73.7	54.1	37.5			36.2
	Endrin Ketone	97.2	77.9	70.9			9.45
	Esfenvalerate	84.2	119	115			3.11
	Ethalfuralin	71.1	72.4	80.5			10.6
	Fenpropathrin	62.8	63.4	55.8			12.8
	Gamma-BHC	88.4	75.6	75.6			0.0517
	Gamma-Chlordane	60.7	60.2	50.0			16.4
	Heptachlor	68.9	60.8	67.8			10.9
	Heptachlor Epoxide	84.7	71.7	82.7			14.2
	Hexachlorobenzene	67.4	74.6	85.2			13.2
	Kepone	205	175	182			3.71
	Lambda-Cyhalothrin	60.7	90.3	83.8			7.42
	Methoprene	60.9	100	95.2			4.88
	Methoxychlor	97.2	48.2	53.5			10.3
	MGK-264	79.2	82.3	83.8			1.75
	Mirex	53.5	52.7	53.1			0.776
	Oxychlordane	75.3	60.4	73.7			19.9
	PCB-1016	84.4	87.8	91.8			4.39
	PCB-1260	93.6	92.3	94.2			2.03
	Permethrin	103	108	114			5.77
	Phenothrin	39.5	94.0	54.1			53.9
	Piperonyl Butoxide	92.5	101	79.7			23.2
	Prallethrin	82.6	118	111			5.97
	Tau-Fluvalinate	78.8	116	112			3.31

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Tetramethrin	69.2	54.0	64.0		16.8
	Trans-Nonachlor	71.7	64.3	65.5		1.92
	Triclosan Methyl	72.8	77.9	67.1		14.9
	Trifluralin	72.8	68.2	76.6		11.5
EPA 8276	Chlordane	105	118	108		8.25
	Toxaphene	114	127	123		2.93
SM 2320 B-2011	Total Alkalinity	97.0			0.110	
SM 2540 C-2015	TDS	97.4			5.08	
SM 2540 D-2015	TSS	101				
SM 4500-F- C-2011	Fluoride	101	103	100		1.95
SM 5310 B-2011	Organic Carbon	95.6	104			1.01

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2382920
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2382920
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2382920
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2382920
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2382921
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2382921
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2382921
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2382921
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2382926
EPA 8270E	PCBs in water matrices by GC/MS/MS	2382926
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2382926
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2382920
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2382920
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2382920
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2382920
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2382921

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	01/25/2023			01/25/2023 14:49	Anna M. Plaviak	2382920
EPA 180.1 Rev. 2.0	01/25/2023			01/25/2023 14:05	Khloe J Berg	2382920
EPA 300.0 Rev. 2.1	01/25/2023			02/08/2023 14:41	Anna M. Plaviak	2382920
EPA 350.1 Rev. 2.0	01/25/2023			02/08/2023 11:26	Ping Hua	2382921
EPA 351.2 Rev. 2.0	01/25/2023	01/27/2023 11:20	Simonne.V. Calhoun	01/31/2023 10:31	Samantha L Bates	2382921
EPA 353.2 Rev. 2.0	01/25/2023			02/01/2023 12:08	Beverly Y. Sanders	2382921
EPA 365.1 Rev. 2.0	01/25/2023	01/31/2023 13:47	Adam P Silver	02/01/2023 09:05	James L Waggerby	2382921
EPA 8270E	01/25/2023	01/30/2023 08:00	Fe-Val Siddell	01/31/2023 20:44	Vandana T. Nagar	2382926
	01/25/2023	01/30/2023 08:00	Fe-Val Siddell	02/01/2023 16:51	Julie Wi	2382926
EPA 8276	01/25/2023	01/30/2023 08:00	Fe-Val Siddell	02/02/2023 04:30	Lipi Saha	2382926
SM 2320 B-2011	01/25/2023			02/03/2023 04:43	Dale L. Simmons	2382920
SM 2540 C-2015	01/25/2023			01/27/2023 16:11	Yijie Li	2382920
SM 2540 D-2015	01/25/2023			01/27/2023 16:11	Yijie Li	2382920
SM 4500-F- C-2011	01/25/2023			02/03/2023 04:43	Dale L. Simmons	2382920
SM 5310 B-2011	01/25/2023			01/30/2023 20:08	Khloe J Berg	2382921