

Chemical Analysis Report

NW-DIST-2023-11-17-01

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

Event Description: **Western Lake Run**
Request ID: **RQ-2023-11-13-39**
Customer: **NW-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Colin Wright, Program Administrator

Date Certified: 15-DEC-2023 15:58

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a white rectangular 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: CRESCENT LAKE

Collection Date/Time: 11/16/2023 10:15

Field ID: G5NW0159

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452090	DEP SOP: NU-094-1	Color (true)	10		PCU	P437979	
	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P437981	
	EPA 300.0 Rev. 2.1	Chloride	9.9		mg Cl/L	P438317	
		Sulfate	7.3		mg SO4/L	P438320	
	SM 2320 B-2011	Total Alkalinity	20		mg CaCO3/L	P438221	
	SM 2540 C-2015	TDS	50		mg/L	P438381	
	SM 2540 D-2015	TSS	3	I	mg/L	P438371	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P438334	
2452091	EPA 350.1 Rev. 2.0	Ammonia-N	0.074		mg N/L	P438433	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.30		mg N/L	P438169	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P438253	
	EPA 365.1 Rev. 2.0	Total-P	0.014		mg P/L	P438208	
	SM 5310 B-2011	Organic Carbon	2.9		mg C/L	P438154	

Ref. Method and Comment:

DEP SOP: NU-094-1: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

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

**Sample Location: POND CREEK WEST OF HEADWATERS OF
BLACKWATER BAY**

Collection Date/Time: 11/16/2023 11:40

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452094	EPA 8270E	Aldrin	0.74	U	ng/L	P437943	
		Alpha-BHC	0.11	U	ng/L	P437943	MS
		Alpha-Chlordane	0.23	U	ng/L	P437943	
		PCB-1016	2.3	U	ng/L	P437943	
		Beta-BHC	0.11	U	ng/L	P437943	
		PCB-1221	2.3	U	ng/L	P437943	
		Beta-Cyfluthrin	1.4	U	ng/L	P437943	
		PCB-1232	2.3	U	ng/L	P437943	
		Bifenthrin	0.57	U	ng/L	P437943	
		PCB-1242	2.3	U	ng/L	P437943	
		Carbophenothion	1.0	U	ng/L	P437943	
		PCB-1248	2.3	U	ng/L	P437943	
		Chlorothalonil	4.1	U	ng/L	P437943	RPD
		PCB-1254	2.3	U	ng/L	P437943	
		Cis-Nonachlor	0.23	U	ng/L	P437943	
		PCB-1260	2.3	U	ng/L	P437943	
		Cypermethrin	1.7	U	ng/L	P437943	RPD
		Dacthal	0.17	U	ng/L	P437943	MS, RPD
		DDD-p,p'	0.29	U	ng/L	P437943	
		DDE-p,p'	0.23	U	ng/L	P437943	
		DDT-p,p'	0.91	UJ	ng/L	P437943	LCS, MS
		Delta-BHC	0.46	U	ng/L	P437943	RPD
		Deltamethrin	1.4	U	ng/L	P437943	
		Dichlobenil	0.29	U	ng/L	P437943	
		Dicofol	1.4	U	ng/L	P437943	RPD
		Dieldrin	0.46	U	ng/L	P437943	RPD
		Endosulfan I	0.46	U	ng/L	P437943	
		Endosulfan II	1.0	U	ng/L	P437943	RPD
		Endosulfan Sulfate	0.34	U	ng/L	P437943	RPD
		Endrin	1.0	U	ng/L	P437943	
		Endrin Aldehyde	0.86	U	ng/L	P437943	MS, RPD
		Endrin Ketone	0.46	U	ng/L	P437943	
		Esfenvalerate	0.86	U	ng/L	P437943	
		Ethalfuralin	0.17	U	ng/L	P437943	RPD
		Fenpropathrin	0.29	U	ng/L	P437943	
		Gamma-BHC	0.14	U	ng/L	P437943	
		Gamma-Chlordane	0.23	U	ng/L	P437943	
		Heptachlor	0.23	U	ng/L	P437943	
		Heptachlor Epoxide	0.29	U	ng/L	P437943	
		Hexachlorobenzene**	1.1	U	ng/L	P437943	MS
		Kepone	15	U	ng/L	P437943	
		Lambda-Cyhalothrin	0.86	U	ng/L	P437943	
		Methoprene	0.86	U	ng/L	P437943	

Field ID: G4NW0277

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2452094	EPA 8270E	Methoxychlor	0.34	U	ng/L	P437943	
		MGK-264	0.23	U	ng/L	P437943	
		Mirex	0.40	U	ng/L	P437943	
		Oxychlordane	0.34	U	ng/L	P437943	
		Permethrin	1.8	U	ng/L	P437943	
		Phenothrin	1.0	U	ng/L	P437943	
		Piperonyl Butoxide	0.17	U	ng/L	P437943	
		Prallethrin	2.3	U	ng/L	P437943	RPD
		Tau-Fluvalinate	0.29	U	ng/L	P437943	
		Tetramethrin	0.86	U	ng/L	P437943	
		Trans-Nonachlor	0.23	U	ng/L	P437943	
		Triclosan Methyl	0.17	U	ng/L	P437943	
		Trifluralin	0.23	U	ng/L	P437943	MS
	EPA 8276	Chlordane	2.3	U	ng/L	P437943	
		Toxaphene	17	U	ng/L	P437943	

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: P437979

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437981

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438253

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438208

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

Reference Method: EPA 8270E
Batch ID: P437943

Component	Result	Code	Units
Aldrin	0.65	U	ng/L
Alpha-BHC	0.10	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P437943

Component	Result	Code	Units
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.80	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.90	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.90	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Gamma-BHC	0.12	U	ng/L
Gamma-Chlordane	0.20	U	ng/L
Heptachlor	0.20	U	ng/L
Heptachlor Epoxide	0.25	U	ng/L
Hexachlorobenzene	1.0	U	ng/L
Kepone	14	U	ng/L
Lambda-Cyhalothrin	0.75	U	ng/L
Methoprene	0.75	U	ng/L
Methoxychlor	0.30	U	ng/L
MGK-264	0.20	U	ng/L
Mirex	0.35	U	ng/L
Oxychlordane	0.30	U	ng/L
PCB-1016	2.0	U	ng/L
PCB-1221	2.0	U	ng/L
PCB-1232	2.0	U	ng/L
PCB-1242	2.0	U	ng/L
PCB-1248	2.0	U	ng/L
PCB-1254	2.0	U	ng/L
PCB-1260	2.0	U	ng/L
Permethrin	1.6	U	ng/L
Phenothrin	0.90	U	ng/L
Piperonyl Butoxide	0.15	U	ng/L
Prallethrin	2.0	U	ng/L
Tau-Fluvalinate	0.25	U	ng/L
Tetramethrin	0.75	U	ng/L
Trans-Nonachlor	0.20	U	ng/L
Triclosan Methyl	0.15	U	ng/L
Trifluralin	0.20	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P437943

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

Reference Method: SM 2320 B-2011
Batch ID: P438221

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

Reference Method: SM 2540 C-2015
Batch ID: P438381

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P438371

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P438334

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P438154

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: P437979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Color (true)	98.8		P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437981

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

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

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.8		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

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: P438253

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438208

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

Reference Method: EPA 8270E
Batch ID: P437943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	45.2		P	30 - 96.0
Alpha-BHC	80.2		P	70 - 109
Alpha-Chlordane	57.7		P	45 - 107
Beta-BHC	88.1		P	64 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P437943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	80.0		P	17 - 141
Bifenthrin	57.3		P	10 - 113
Carbophenothion	56.8		P	24 - 91.0
Chlorothalonil	71.4		P	26 - 180
Cis-Nonachlor	69.4		P	37 - 102
Cypermethrin	77.6		P	20 - 133
Dacthal	84.4		P	69 - 114
DDD-p,p'	55.7		P	42 - 105
DDE-p,p'	75.4		P	42 - 106
DDT-p,p'	36.9		F	42 - 107
Delta-BHC	80.0		P	67 - 144
Deltamethrin	79.9		P	15 - 149
Dichlobenil	81.0		P	46 - 117
Dicofol	57.6		P	34 - 114
Dieldrin	77.8		P	50 - 108
Endosulfan I	66.9		P	55 - 104
Endosulfan II	67.5		P	51 - 111
Endosulfan Sulfate	95.9		P	56 - 121
Endrin	67.6		P	10 - 106
Endrin Aldehyde	50.5		P	34 - 114
Endrin Ketone	91.3		P	63 - 177
Esfenvalerate	71.7		P	29 - 143
Ethalfuralin	67.4		P	46 - 96.0
Fenpropathrin	72.2		P	28 - 115
Gamma-BHC	72.1		P	65 - 121
Gamma-Chlordane	59.6		P	39 - 103
Heptachlor	53.3		P	39 - 94.0
Heptachlor Epoxide	59.7		P	54 - 104
Hexachlorobenzene	61.4		P	36 - 100
Kepone	121		P	10 - 225
Lambda-Cyhalothrin	74.2		P	10 - 135
Methoprene	69.5		P	10 - 109
Methoxychlor	72.7		P	52 - 112
MGK-264	73.8		P	44 - 117
Mirex	33.8		P	20 - 90.0
Oxychlordane	54.6		P	44 - 102
PCB-1016	102		P	45 - 107
PCB-1260	101		P	40 - 112
Permethrin	65.6		P	18 - 135
Phenothrin	61.9		P	10 - 102
Piperonyl Butoxide	49.1		P	28 - 156
Prallethrin	58.7		P	28 - 113
Tau-Fluvalinate	69.7		P	10 - 123
Tetramethrin	45.8		P	18 - 158
Trans-Nonachlor	64.9		P	39 - 104
Triclosan Methyl	77.9		P	54 - 108
Trifluralin	47.5		P	46 - 97.0

Reference Method: EPA 8276

Batch ID: P437943

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8276
Batch ID: P437943

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	70.5		P	52 - 117
Toxaphene	78.0		P	44 - 125

Reference Method: SM 2320 B-2011
Batch ID: P438221

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	98.3		P	92 - 105

Reference Method: SM 2540 C-2015
Batch ID: P438381

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TDS	97.2		P	85 - 115

Reference Method: SM 2540 D-2015
Batch ID: P438371

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	92.8		P	85 - 115

Reference Method: SM 4500-F- C-2011
Batch ID: P438334

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	94 - 106

Reference Method: SM 5310 B-2011
Batch ID: P438154

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.0		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Chloride	102		P	90 - 110
2451950	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451931	Sulfate	105		P	90 - 110
2451950	Sulfate	105		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452031	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452091	NO2NO3-N	98.5	100	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438208

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452091	Total-P	102	103	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451891	Aldrin	35.3	40.4	P/P	24 - 81.0
2451891	Alpha-BHC	51.0	61.4	F/F	65 - 110
2451891	Alpha-Chlordane	64.5	50.6	P/P	43 - 119
2451891	Beta-BHC	84.5	103	P/P	54 - 165
2451891	Beta-Cyfluthrin	58.0	55.3	P/P	27 - 165
2451891	Bifenthrin	42.9	41.1	P/P	17 - 117
2451891	Carbophenothion	60.6	48.0	P/P	21 - 108
2451891	Chlorothalonil	23.2	56.8	P/P	10 - 255
2451891	Cis-Nonachlor	60.3	74.0	P/P	34 - 98.0
2451891	Cypermethrin	81.3	47.1	P/P	25 - 143
2451891	Dacthal	53.1	81.2	F/P	55 - 139
2451891	DDD-p,p'	53.4	36.4	P/P	30 - 109
2451891	DDE-p,p'	51.6	57.5	P/P	35 - 106
2451891	DDT-p,p'	41.4	33.3	P/F	41 - 101

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451891	Delta-BHC	72.6	109	P/P	58 - 165
2451891	Deltamethrin	66.8	69.8	P/P	10 - 194
2451891	Dichlobenil	29.0	22.1	P/P	22 - 114
2451891	Dicofol	60.9	41.4	P/P	17 - 133
2451891	Dieldrin	50.0	68.8	P/P	45 - 129
2451891	Endosulfan I	55.9	65.3	P/P	49 - 104
2451891	Endosulfan II	60.1	85.5	P/P	37 - 117
2451891	Endosulfan Sulfate	67.6	115	P/P	38 - 128
2451891	Endrin	46.6	62.7	P/P	35 - 116
2451891	Endrin Aldehyde	5.11	73.6	F/P	19 - 108
2451891	Endrin Ketone	91.2	90.1	P/P	44 - 134
2451891	Esfenvalerate	70.3	72.0	P/P	27 - 176
2451891	Ethalfuralin	66.3	52.9	P/P	49 - 100
2451891	Fenpropathrin	47.8	58.1	P/P	34 - 117
2451891	Gamma-BHC	61.9	78.0	P/P	59 - 129
2451891	Gamma-Chlordane	63.7	52.2	P/P	33 - 107
2451891	Heptachlor	40.8	42.8	P/P	37 - 94.0
2451891	Heptachlor Epoxide	49.6	61.0	P/P	38 - 118
2451891	Hexachlorobenzene	30.0	35.7	F/P	35 - 97.0
2451891	Kepone	97.5	97.6	P/P	10 - 221
2451891	Lambda-Cyhalothrin	53.1	62.8	P/P	23 - 190
2451891	Methoprene	50.3	43.4	P/P	21 - 109
2451891	Methoxychlor	62.7	78.2	P/P	46 - 118
2451891	MGK-264	60.6	66.7	P/P	39 - 122
2451891	Mirex	31.0	26.1	P/P	25 - 90.0
2451891	Oxychlordane	52.5	61.9	P/P	42 - 100
2451891	Permethrin	68.8	42.8	P/P	33 - 181
2451891	Phenothrin	83.7	50.9	P/P	12 - 125
2451891	Piperonyl Butoxide	74.0	54.6	P/P	10 - 178
2451891	Prallethrin	95.4	38.8	P/P	24 - 122
2451891	Tau-Fluvalinate	77.6	65.1	P/P	13 - 151
2451891	Tetramethrin	49.1	41.5	P/P	16 - 172
2451891	Trans-Nonachlor	66.0	45.5	P/P	39 - 100
2451891	Triclosan Methyl	65.4	70.8	P/P	43 - 110
2451891	Trifluralin	40.1	41.6	F/F	45 - 94.0
2452054	PCB-1016	63.5	67.0	P/P	45 - 107
2452054	PCB-1260	70.6	83.2	P/P	40 - 112

Reference Method: EPA 8276
Batch ID: P437943

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452054	Chlordane	51.8	61.3	P/P	43 - 123
2452054	Toxaphene	55.0	66.2	P/P	27 - 156

Reference Method: SM 4500-F- C-2011
Batch ID: P438334

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2451833	Fluoride	103	103	P/P	94 - 106

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P438154

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2452031	Organic Carbon	97.8	99.4	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P437981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452075	Turbidity	0.324	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438317

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Chloride	3.61	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P438320

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451931	Sulfate	2.56	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P438433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452031	Ammonia-N	0.186	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P438169

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451951	Kjeldahl Nitrogen	0.884	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P438253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452091	NO2NO3-N	0.786	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P438208

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452091	Total-P	0.971	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P437943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451891	Aldrin	13.4	Spike	P	0 - 41
2451891	Alpha-BHC	18.6	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P437943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451891	Alpha-Chlordane	24.1	Spike	P	0 - 32
2451891	Beta-BHC	19.4	Spike	P	0 - 33
2451891	Beta-Cyfluthrin	4.91	Spike	P	0 - 43
2451891	Bifenthrin	4.47	Spike	P	0 - 52
2451891	Carbophenothion	23.2	Spike	P	0 - 49
2451891	Chlorothalonil	84.0	Spike	F	0 - 82
2451891	Cis-Nonachlor	20.3	Spike	P	0 - 33
2451891	Cypermethrin	53.3	Spike	F	0 - 51
2451891	Dacthal	41.9	Spike	F	0 - 27
2451891	DDD-p,p'	38.0	Spike	P	0 - 39
2451891	DDE-p,p'	10.8	Spike	P	0 - 31
2451891	DDT-p,p'	21.7	Spike	P	0 - 29
2451891	Delta-BHC	40.3	Spike	F	0 - 35
2451891	Deltamethrin	4.37	Spike	P	0 - 100
2451891	Dichlobenil	27.2	Spike	P	0 - 40
2451891	Dicofol	38.2	Spike	F	0 - 37
2451891	Dieldrin	31.7	Spike	F	0 - 27
2451891	Endosulfan I	15.5	Spike	P	0 - 23
2451891	Endosulfan II	34.8	Spike	F	0 - 34
2451891	Endosulfan Sulfate	52.0	Spike	F	0 - 36
2451891	Endrin	29.4	Spike	P	0 - 45
2451891	Endrin Aldehyde	174	Spike	F	0 - 76
2451891	Endrin Ketone	1.26	Spike	P	0 - 43
2451891	Esfenvalerate	2.37	Spike	P	0 - 51
2451891	Ethalfuralin	22.5	Spike	F	0 - 22
2451891	Fenpropathrin	19.4	Spike	P	0 - 49
2451891	Gamma-BHC	23.0	Spike	P	0 - 28
2451891	Gamma-Chlordane	19.8	Spike	P	0 - 40
2451891	Heptachlor	4.96	Spike	P	0 - 29
2451891	Heptachlor Epoxide	20.7	Spike	P	0 - 33
2451891	Hexachlorobenzene	17.3	Spike	P	0 - 36
2451891	Kepone	0.131	Spike	P	0 - 85
2451891	Lambda-Cyhalothrin	16.8	Spike	P	0 - 55
2451891	Methoprene	14.8	Spike	P	0 - 53
2451891	Methoxychlor	22.0	Spike	P	0 - 50
2451891	MGK-264	9.64	Spike	P	0 - 43
2451891	Mirex	17.3	Spike	P	0 - 40
2451891	Oxychlordane	16.5	Spike	P	0 - 31
2451891	Permethrin	46.6	Spike	P	0 - 50
2451891	Phenothrin	48.7	Spike	P	0 - 58
2451891	Piperonyl Butoxide	30.2	Spike	P	0 - 100
2451891	Prallethrin	84.3	Spike	F	0 - 39
2451891	Tau-Fluvalinate	17.5	Spike	P	0 - 54
2451891	Tetramethrin	16.9	Spike	P	0 - 51
2451891	Trans-Nonachlor	36.8	Spike	P	0 - 39
2451891	Triclosan Methyl	7.93	Spike	P	0 - 31
2451891	Trifluralin	3.75	Spike	P	0 - 22
2452054	PCB-1016	5.25	Spike	P	0 - 25
2452054	PCB-1260	16.4	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8276
Batch ID: P437943

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452054	Chlordane	16.7	Spike	P	0 - 28
2452054	Toxaphene	18.4	Spike	P	0 - 27

Reference Method: SM 2320 B-2011
Batch ID: P438221

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452403	Total Alkalinity	1.09	Sample	P	0 - 3.9

Reference Method: SM 2540 C-2015
Batch ID: P438381

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452047	TDS	1.17	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P438334

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2451833	Fluoride	0.0	Spike	P	0 - 1.9

Reference Method: SM 5310 B-2011
Batch ID: P438154

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2452031	Organic Carbon	1.57	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2452094
Field Sample ID: G4NW0277

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	87.7	P	37 - 129
EPA 8270E	Decachlorobiphenyl	68.7	P	26 - 115
EPA 8270E	Tetrachloro-m-xylene	49.2	P	30 - 101
EPA 8270E	Tetrachloro-m-xylene	48.7	P	29 - 95.0
EPA 8276	Decachlorobiphenyl	65.4	P	28 - 102
EPA 8276	PCNB	78.8	P	49 - 115

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: NU-094-1
Run ID: A122801
Included Lab Sample IDs: 2452090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	99.8	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A122805
Included Lab Sample IDs: 2452090

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

Reference Method: SM 5310 B-2011
Run ID: A122876
Included Lab Sample IDs: 2452091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.2	98.6	P/P	90 - 110

Reference Method: SM 2320 B-2011
Run ID: A122907
Included Lab Sample IDs: 2452090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	97.8	95.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A122920
Included Lab Sample IDs: 2452091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A122927
Included Lab Sample IDs: 2452091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A122935
Included Lab Sample IDs: 2452091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	95.0	95.4	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Run ID: A122949
Included Lab Sample IDs: 2452090

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	105	102	P/P	90 - 110
Sulfate	104	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 4500-F- C-2011

Run ID: A122950

Included Lab Sample IDs: 2452090

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

Reference Method: EPA 8270E

Run ID: A122957

Included Lab Sample IDs: 2452094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	99.2		P	80 - 120
PCB-1260	95.7		P	80 - 120

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A122988

Included Lab Sample IDs: 2452091

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	98.6	99.1	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A123137

Included Lab Sample IDs: 2452094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	108		P	80 - 120
Alpha-BHC	88.7		P	80 - 120
Alpha-Chlordane	114		P	80 - 120
Beta-BHC	102		P	80 - 120
Beta-Cyfluthrin	94.3		P	80 - 120
Bifenthrin	108		P	80 - 120
Carbophenothion	97.1		P	80 - 120
Chlorothalonil	92.6		P	80 - 120
Cis-Nonachlor	97.4		P	80 - 120
Cypermethrin	101		P	80 - 120
Dacthal	99.6		P	80 - 120
DDD-p,p'	112		P	80 - 120
DDE-p,p'	97.1		P	80 - 120
Delta-BHC	99.0		P	80 - 120
Deltamethrin	98.9		P	80 - 120
Dichlobenil	102		P	80 - 120
Dicofol	101		P	80 - 120
Dieldrin	96.4		P	80 - 120
Endosulfan I	86.0		P	80 - 120
Endosulfan II	85.5		P	80 - 120
Endosulfan Sulfate	89.9		P	80 - 120
Endrin	88.2		P	80 - 120
Endrin Aldehyde	80.4		P	80 - 120
Endrin Ketone	96.9		P	80 - 120
Esfenvalerate	100		P	80 - 120
Ethalfuralin	94.2		P	80 - 120
Fenpropathrin	110		P	80 - 120
Gamma-BHC	98.5		P	80 - 120
Gamma-Chlordane	106		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A123137
Included Lab Sample IDs: 2452094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Heptachlor	81.2		P	80 - 120
Heptachlor Epoxide	90.2		P	80 - 120
Hexachlorobenzene	89.3		P	80 - 120
Kepone	83.1		P	80 - 120
Lambda-Cyhalothrin	95.5		P	80 - 120
Methoprene	98.0		P	80 - 120
Methoxychlor	98.3		P	80 - 120
MGK-264	96.1		P	80 - 120
Mirex	92.6		P	80 - 120
Oxychlordane	92.8		P	80 - 120
Permethrin	95.3		P	80 - 120
Phenothrin	102		P	80 - 120
Piperonyl Butoxide	93.7		P	80 - 120
Prallethrin	99.2		P	80 - 120
Tau-Fluvalinate	109		P	80 - 120
Tetramethrin	98.0		P	80 - 120
Trans-Nonachlor	114		P	80 - 120
Triclosan Methyl	87.8		P	80 - 120
Trifluralin	96.8		P	80 - 120

Reference Method: EPA 8270E
Run ID: A123138
Included Lab Sample IDs: 2452094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	107		P	80 - 120

Reference Method: EPA 8276
Run ID: A123260
Included Lab Sample IDs: 2452094

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.9		P	80 - 120
Toxaphene	104		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
DEP SOP: NU-094-1	Color (true)	98.8				
EPA 180.1 Rev. 2.0	Turbidity	104				0.324
EPA 300.0 Rev. 2.1	Chloride	104	102	103		3.61
	Sulfate	105	105	105		2.56
	Ammonia-N	96.8	101	101		
EPA 350.1 Rev. 2.0	Ammonia-N	96.8				0.186
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107	100	98.8		0.884
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	98.5	100		0.786
EPA 365.1 Rev. 2.0	Total-P	101	102	103		0.971
EPA 8270E	Aldrin	45.2	35.3	40.4		13.4
	Alpha-BHC	80.2	51.0	61.4		18.6
	Alpha-Chlordane	57.7	64.5	50.6		24.1
	Beta-BHC	88.1	84.5	103		19.4
	Beta-Cyfluthrin	80.0	58.0	55.3		4.91
	Bifenthrin	57.3	42.9	41.1		4.47
	Carbophenothion	56.8	60.6	48.0		23.2
	Chlorothalonil	71.4	23.2	56.8		84.0
	Cis-Nonachlor	69.4	60.3	74.0		20.3
	Cypermethrin	77.6	81.3	47.1		53.3
	Dacthal	84.4	53.1	81.2		41.9
	DDD-p,p'	55.7	53.4	36.4		38.0
	DDE-p,p'	75.4	51.6	57.5		10.8
	DDT-p,p'	36.9	41.4	33.3		21.7
	Delta-BHC	80.0	72.6	109		40.3
	Deltamethrin	79.9	66.8	69.8		4.37
	Dichlobenil	81.0	29.0	22.1		27.2
	Dicofol	57.6	60.9	41.4		38.2
	Dieldrin	77.8	50.0	68.8		31.7
	Endosulfan I	66.9	55.9	65.3		15.5
	Endosulfan II	67.5	60.1	85.5		34.8
	Endosulfan Sulfate	95.9	67.6	115		52.0
	Endrin	67.6	46.6	62.7		29.4
	Endrin Aldehyde	50.5	5.11	73.6		174
	Endrin Ketone	91.3	91.2	90.1		1.26
	Esfenvalerate	71.7	70.3	72.0		2.37
	Ethalfuralin	67.4	66.3	52.9		22.5
	Fenpropathrin	72.2	47.8	58.1		19.4
	Gamma-BHC	72.1	61.9	78.0		23.0
	Gamma-Chlordane	59.6	63.7	52.2		19.8
	Heptachlor	53.3	40.8	42.8		4.96
	Heptachlor Epoxide	59.7	49.6	61.0		20.7
	Hexachlorobenzene	61.4	30.0	35.7		17.3
	Kepone	121	97.5	97.6		0.131
	Lambda-Cyhalothrin	74.2	53.1	62.8		16.8
	Methoprene	69.5	50.3	43.4		14.8
	Methoxychlor	72.7	62.7	78.2		22.0
	MGK-264	73.8	60.6	66.7		9.64
	Mirex	33.8	31.0	26.1		17.3
	Oxychlordane	54.6	52.5	61.9		16.5
	PCB-1016	102	63.5	67.0		5.25
	PCB-1260	101	70.6	83.2		16.4
	Permethrin	65.6	68.8	42.8		46.6
	Phenothrin	61.9	83.7	50.9		48.7
	Piperonyl Butoxide	49.1	74.0	54.6		30.2
	Prallethrin	58.7	95.4	38.8		84.3

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Tau-Fluvalinate	69.7	77.6	65.1			17.5
	Tetramethrin	45.8	49.1	41.5			16.9
	Trans-Nonachlor	64.9	66.0	45.5			36.8
	Triclosan Methyl	77.9	65.4	70.8			7.93
	Trifluralin	47.5	40.1	41.6			3.75
EPA 8276	Chlordane	70.5	51.8	61.3			16.7
	Toxaphene	78.0	55.0	66.2			18.4
SM 2320 B-2011	Total Alkalinity	98.3				1.09	
SM 2540 C-2015	TDS	97.2				1.17	
SM 2540 D-2015	TSS	92.8					
SM 4500-F- C-2011	Fluoride	102	103	103			0.0
SM 5310 B-2011	Organic Carbon	95.0	97.8	99.4			1.57

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2452090
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2452090
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2452090
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2452090
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2452091
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2452091
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2452091
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2452091
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2452094
EPA 8270E	PCBs in water matrices by GC/MS/MS	2452094
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2452094
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO3/L	2452090
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2452090
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2452090
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2452090
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2452091

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	11/17/2023			11/17/2023 13:41	Anna M. Plaviak	2452090
EPA 180.1 Rev. 2.0	11/17/2023			11/17/2023 12:58	Chandler E Cox	2452090
EPA 300.0 Rev. 2.1	11/17/2023			11/28/2023 09:17	James L Waggeberby	2452090
EPA 350.1 Rev. 2.0	11/17/2023			12/01/2023 14:33	Khloe J Berg	2452091
EPA 351.2 Rev. 2.0	11/17/2023	11/27/2023 13:33	Simonne.V. Calhoun	11/29/2023 11:52	Ping Hua	2452091
EPA 353.2 Rev. 2.0	11/17/2023			11/28/2023 12:44	Fadila Guebre	2452091
EPA 365.1 Rev. 2.0	11/17/2023	11/28/2023 10:59	Adam P Silver	11/29/2023 10:25	James L Waggeberby	2452091
EPA 8270E	11/17/2023	11/19/2023 08:00	Fe-Val Siddell	11/30/2023 03:20	Lipi Saha	2452094
	11/17/2023	11/19/2023 08:00	Fe-Val Siddell	12/03/2023 02:58	Julie Wi	2452094
	11/17/2023	11/19/2023 08:00	Fe-Val Siddell	12/10/2023 08:04	Julie Wi	2452094
EPA 8276	11/17/2023	11/19/2023 08:00	Fe-Val Siddell	12/14/2023 08:47	Kenedi Mills	2452094
SM 2320 B-2011	11/17/2023			11/27/2023 21:13	Adam P Silver	2452090
SM 2540 C-2015	11/17/2023			11/21/2023 16:31	Yijie Li	2452090
SM 2540 D-2015	11/17/2023			11/21/2023 16:31	Yijie Li	2452090
SM 4500-F- C-2011	11/17/2023			11/30/2023 03:42	Chandler E Cox	2452090
SM 5310 B-2011	11/17/2023			11/21/2023 21:09	Kenneth H Lee	2452091