

Chemical Analysis Report

SO-DIST-2023-04-26-02

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

Event Description: **2023 SMP: Desoto Shenanigans**
Request ID: **RQ-2023-04-17-20**
Customer: **SO-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
FLDEP South District Office
2295 Victoria Ave. Suite 314
Fort Myers, FL 33901-3381
Attn: William Mullen

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Certified by: Colin Wright, Program Administrator

Date Certified: 15-MAY-2023 09:02

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light blue 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: Metals, 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: Horse Creek

Collection Date/Time: 04/25/2023 11:10

Field ID: G3SD0157

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403109	EPA 8270E	Aldrin	0.66	U	ng/L	P428986	
		Alpha-BHC	0.10	U	ng/L	P428986	
		Alpha-Chlordane	0.20	U	ng/L	P428986	
		PCB-1016	2.0	U	ng/L	P428986	
		Beta-BHC	0.10	U	ng/L	P428986	
		PCB-1221	2.0	U	ng/L	P428986	
		Beta-Cyfluthrin	1.3	U	ng/L	P428986	
		PCB-1232	2.0	U	ng/L	P428986	
		Bifenthrin	0.51	U	ng/L	P428986	
		PCB-1242	2.0	U	ng/L	P428986	
		Carbophenothion	0.92	U	ng/L	P428986	
		PCB-1248	2.0	U	ng/L	P428986	
		Chlorothalonil	3.7	U	ng/L	P428986	MS
		PCB-1254	2.0	U	ng/L	P428986	
		Cis-Nonachlor	0.20	U	ng/L	P428986	
		PCB-1260	2.0	U	ng/L	P428986	
		Cypermethrin	1.5	U	ng/L	P428986	
		Dacthal	0.15	U	ng/L	P428986	
		DDD-p,p'	0.26	U	ng/L	P428986	
		DDE-p,p'	0.20	U	ng/L	P428986	
		DDT-p,p'	0.26	U	ng/L	P428986	
		Delta-BHC	0.41	U	ng/L	P428986	
		Deltamethrin	1.3	U	ng/L	P428986	
		Dichlobenil	0.26	U	ng/L	P428986	
		Dicofol	1.3	U	ng/L	P428986	
		Dieldrin	0.41	U	ng/L	P428986	
		Endosulfan I	0.41	U	ng/L	P428986	
		Endosulfan II	0.41	U	ng/L	P428986	
		Endosulfan Sulfate	0.31	U	ng/L	P428986	
		Endrin	0.41	U	ng/L	P428986	
		Endrin Aldehyde	0.77	U	ng/L	P428986	
		Endrin Ketone	0.41	U	ng/L	P428986	
		Esfenvalerate	0.77	U	ng/L	P428986	
		Ethalfuralin	0.15	U	ng/L	P428986	
		Fenpropathrin	0.26	U	ng/L	P428986	
		Gamma-BHC	0.13	U	ng/L	P428986	
		Gamma-Chlordane	0.20	U	ng/L	P428986	
		Heptachlor	0.20	U	ng/L	P428986	
		Heptachlor Epoxide	0.26	U	ng/L	P428986	
		Hexachlorobenzene**	1.0	U	ng/L	P428986	
		Kepone	5.1	U	ng/L	P428986	
		Lambda-Cyhalothrin	0.77	U	ng/L	P428986	
		Methoprene	0.77	U	ng/L	P428986	
		Methoxychlor	0.31	U	ng/L	P428986	

Field ID: G3SD0157

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403109	EPA 8270E	MGK-264	0.20	U	ng/L	P428986	
		Mirex	0.36	U	ng/L	P428986	
		Oxychlordane	0.31	U	ng/L	P428986	
		Permethrin	1.6	U	ng/L	P428986	
		Phenothrin	0.92	U	ng/L	P428986	
		Piperonyl Butoxide	0.23	I	ng/L	P428986	
		Prallethrin	2.0	U	ng/L	P428986	
		Tau-Fluvalinate	0.26	U	ng/L	P428986	
		Tetramethrin	0.77	U	ng/L	P428986	
		Trans-Nonachlor	0.20	U	ng/L	P428986	
		Triclosan Methyl	0.15	U	ng/L	P428986	
		Trifluralin	0.20	U	ng/L	P428986	
	EPA 8276	Chlordane	2.0	U	ng/L	P428986	
		Toxaphene	15	U	ng/L	P428986	

Ref. Method and Comment:
EPA 8270E: MS precision for chlorothalonil not assessed due to no recoveries.

Sample Location: Bobcat Creek in Preserve East

Collection Date/Time: 04/25/2023 11:55

Field ID: G3SD0131

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403100	DEP SOP: NU-094-1	Color (true)	63		PCU	P429019	
	EPA 180.1 Rev. 2.0	Turbidity	10		NTU	P429017	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P429145	
		Sulfate	6.8		mg SO4/L	P429148	
	SM 2320 B-2011	Total Alkalinity	91		mg CaCO3/L	P429391	
	SM 2540 C-2015	TDS	179		mg/L	P429528	
	SM 2540 D-2015	TSS	10		mg/L	P429530	
	SM 4500-F- C-2011	Fluoride	0.63		mg F/L	P429284	
2403101	EPA 350.1 Rev. 2.0	Ammonia-N	0.026		mg N/L	P429253	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.66		mg N/L	P429369	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.012		mg N/L	P429330	
	EPA 365.1 Rev. 2.0	Total-P	1.1		mg P/L	P429043	
	SM 5310 B-2011	Organic Carbon	14		mg C/L	P429239	
2403110	EPA 200.7 Rev. 4.4	Calcium	32.1		mg/L	P429078	
		Iron	2.06E+03		ug/L	P429078	
		Magnesium	7.70		mg/L	P429078	
		Potassium	1.3		mg/L	P429078	
		Sodium	21.8		mg/L	P429078	
		Strontium	394		ug/L	P429078	
		Tin	3.0	U	ug/L	P429078	
		Titanium	1.8	I	ug/L	P429078	
	EPA 200.8 Rev. 5.4	Vanadium	3.5	I	ug/L	P429078	
		Zinc	5.0	U	ug/L	P429078	
		Aluminum	146		ug/L	P429078	
		Antimony	0.074	I	ug/L	P429078	
		Arsenic	2.26		ug/L	P429078	
		Barium	3.78		ug/L	P429078	
		Beryllium	0.013	I	ug/L	P429078	
		Boron	54.4		ug/L	P429078	
		Cadmium	0.020	U	ug/L	P429078	
		Chromium	3.2		ug/L	P429078	
		Cobalt	0.124		ug/L	P429078	
		Copper	0.41	I	ug/L	P429078	
		Lead	0.20	U	ug/L	P429078	
		Manganese	15.8		ug/L	P429078	
		Molybdenum	0.60		ug/L	P429078	
		Nickel	0.50	U	ug/L	P429078	
		Selenium	0.20	U	ug/L	P429078	
		Silver	0.010	U	ug/L	P429078	
		Thallium	0.10	U	ug/L	P429078	
	SM 2340 B-2011	Hardness	112		mg/L	P429078	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: FB

Collection Date/Time: 04/25/2023 11:59

Field ID: FB_04252023

Matrix: W-FIELD-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2403102	DEP SOP: NU-094-1	Color (true)	2.5	U	PCU	P429019	
	EPA 180.1 Rev. 2.0	Turbidity	0.10	U	NTU	P429017	
	EPA 300.0 Rev. 2.1	Chloride	0.20	U	mg Cl/L	P429145	
		Sulfate	0.20	U	mg SO4/L	P429148	
	SM 2320 B-2011	Total Alkalinity	0.65	U	mg CaCO3/L	P429391	
	SM 2540 C-2015	TDS	15	U	mg/L	P429528	
	SM 2540 D-2015	TSS	2	U	mg/L	P429530	
	SM 4500-F- C-2011	Fluoride	0.025	U	mg F/L	P429284	
2403103	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	U	mg N/L	P429431	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.080	U	mg N/L	P429369	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P429330	
	EPA 365.1 Rev. 2.0	Total-P	0.002	U	mg P/L	P429043	
	SM 5310 B-2011	Organic Carbon	1.4		mg C/L	P429239	
2403111	EPA 200.7 Rev. 4.4	Calcium	0.075	U	mg/L	P429078	
		Iron	30	U	ug/L	P429078	
		Magnesium	0.040	U	mg/L	P429078	
		Potassium	0.30	U	mg/L	P429078	
		Sodium	0.50	U	mg/L	P429078	
		Strontium	2.0	U	ug/L	P429078	
		Tin	3.0	U	ug/L	P429078	
		Titanium	0.75	U	ug/L	P429078	
		Vanadium	2.0	U	ug/L	P429078	
		Zinc	5.0	U	ug/L	P429078	
		Aluminum	5.0	U	ug/L	P429078	
		Antimony	0.050	U	ug/L	P429078	
	EPA 200.8 Rev. 5.4	Arsenic	0.050	U	ug/L	P429078	
		Barium	0.20	U	ug/L	P429078	
		Beryllium	0.010	U	ug/L	P429078	
		Boron	2.0	U	ug/L	P429078	
		Cadmium	0.020	U	ug/L	P429078	
		Chromium	0.40	U	ug/L	P429078	
		Cobalt	0.020	U	ug/L	P429078	
		Copper	0.40	U	ug/L	P429078	
		Lead	0.20	U	ug/L	P429078	
		Manganese	0.10	U	ug/L	P429078	
		Molybdenum	0.15	U	ug/L	P429078	
		Nickel	0.50	U	ug/L	P429078	
		Selenium	0.20	U	ug/L	P429078	
		Silver	0.010	U	ug/L	P429078	
		Thallium	0.10	U	ug/L	P429078	

Ref. Method and Comment:

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

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

SM 5310 B-2011: The result was confirmed on 05/04/2023.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P429019

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429017

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429078

Component	Result	Code	Units
Calcium	0.075	U	mg/L
Iron	30	U	ug/L
Magnesium	0.040	U	mg/L
Potassium	0.30	U	mg/L
Sodium	0.50	U	mg/L
Strontium	2.0	U	ug/L
Tin	3.0	U	ug/L
Titanium	0.75	U	ug/L
Vanadium	2.0	U	ug/L
Zinc	5.0	U	ug/L

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429078

Component	Result	Code	Units
Aluminum	5.0	U	ug/L
Antimony	0.050	U	ug/L
Arsenic	0.050	U	ug/L
Barium	0.20	U	ug/L
Beryllium	0.010	U	ug/L
Boron	2.0	U	ug/L
Cadmium	0.020	U	ug/L
Chromium	0.40	U	ug/L
Cobalt	0.020	U	ug/L
Copper	0.40	U	ug/L
Lead	0.20	U	ug/L
Manganese	0.10	U	ug/L
Molybdenum	0.15	U	ug/L
Nickel	0.50	U	ug/L
Selenium	0.20	U	ug/L
Silver	0.010	U	ug/L
Thallium	0.10	U	ug/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429145

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429148

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429253

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429431

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429369

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429330

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429043

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

Reference Method: EPA 8270E
Batch ID: P428986

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
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
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	3.6	U	ng/L
Chlorothalonil	3.6	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428986

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P428986

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

Reference Method: EPA 8276

Batch ID: P428986

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8276
Batch ID: P428986

Component	Result	Code	Units
Toxaphene	15	U	ng/L

Reference Method: SM 2320 B-2011
Batch ID: P429391

Component	Result	Code	Units
Total Alkalinity	0.65	U	mg CaCO ₃ /L

Reference Method: SM 2540 C-2015
Batch ID: P429528

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P429530

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P429284

Component	Result	Code	Units
Fluoride	0.025	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P429239

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: P429019

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429017

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

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429078

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	99.5		P	80 - 120
Iron	99.3		P	80 - 120
Magnesium	101		P	80 - 120
Potassium	99.4		P	80 - 120
Sodium	101		P	80 - 120
Strontium	96.9		P	80 - 120
Tin	95.5		P	80 - 120
Titanium	99.0		P	80 - 120
Vanadium	98.8		P	80 - 120
Zinc	98.4		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429078

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	102		P	85 - 115
Antimony	107		P	85 - 115
Arsenic	100		P	85 - 115
Barium	105		P	85 - 115
Beryllium	94.7		P	85 - 115
Boron	103		P	85 - 115
Cadmium	101		P	85 - 115
Chromium	100		P	85 - 115
Cobalt	103		P	85 - 115
Copper	97.7		P	85 - 115
Lead	101		P	85 - 115
Manganese	98.8		P	85 - 115
Molybdenum	99.1		P	85 - 115
Nickel	100		P	85 - 115
Selenium	101		P	85 - 115
Silver	105		P	85 - 115
Thallium	97.2		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429145

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429148

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429253

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429431

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.4		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429369

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429330

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	104		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429043

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

Reference Method: EPA 8270E
Batch ID: P428986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	50.1		P	10 - 92.0
Alpha-BHC	92.8		P	75 - 107
Alpha-Chlordane	70.5		P	50 - 108
Beta-BHC	95.2		P	36 - 138
Beta-Cyfluthrin	80.3		P	20 - 161
Bifenthrin	38.2		P	10 - 119
Carbophenothion	44.4		P	19 - 94.0
Chlorothalonil	54.8		P	26 - 186
Cis-Nonachlor	59.5		P	42 - 119
Cypermethrin	74.8		P	22 - 150
Dacthal	96.4		P	72 - 119
DDD-p,p'	54.8		P	45 - 107
DDE-p,p'	57.0		P	48 - 106
DDT-p,p'	64.0		P	48 - 110
Delta-BHC	102		P	54 - 140
Deltamethrin	86.0		P	22 - 189

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P428986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Dichlobenil	70.7		P	36 - 117
Dicofol	73.7		P	46 - 155
Dieldrin	65.6		P	54 - 110
Endosulfan I	67.1		P	59 - 105
Endosulfan II	67.9		P	51 - 118
Endosulfan Sulfate	102		P	57 - 121
Endrin	64.0		P	10 - 120
Endrin Aldehyde	80.1		P	34 - 118
Endrin Ketone	121		P	69 - 177
Esfenvalerate	70.2		P	23 - 168
Ethalfuralin	71.5		P	49 - 99.0
Fenpropathrin	66.1		P	34 - 117
Gamma-BHC	102		P	72 - 117
Gamma-Chlordane	58.9		P	43 - 106
Heptachlor	66.8		P	41 - 98.0
Heptachlor Epoxide	87.8		P	57 - 106
Hexachlorobenzene	59.6		P	36 - 99.0
Kepone	149		P	16 - 215
Lambda-Cyhalothrin	54.1		P	21 - 177
Methoprene	43.0		P	10 - 119
Methoxychlor	74.8		P	60 - 112
MGK-264	82.6		P	26 - 122
Mirex	41.5		P	10 - 169
Oxychlordane	62.7		P	43 - 105
PCB-1016	75.0		P	48 - 112
PCB-1260	67.6		P	44 - 118
Permethrin	60.9		P	24 - 148
Phenothrin	45.7		P	10 - 106
Piperonyl Butoxide	80.9		P	10 - 139
Prallethrin	62.5		P	17 - 109
Tau-Fluvalinate	60.2		P	13 - 131
Tetramethrin	74.0		P	10 - 132
Trans-Nonachlor	60.6		P	44 - 106
Triclosan Methyl	67.0		P	59 - 109
Trifluralin	70.7		P	44 - 101

Reference Method: EPA 8276

Batch ID: P428986

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	74.5		P	61 - 116
Toxaphene	78.5		P	48 - 124

Reference Method: SM 2320 B-2011

Batch ID: P429391

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	100		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P429528

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

Reference Method: SM 2540 D-2015
Batch ID: P429530

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	97.9		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P429284

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	98.8		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429239

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.7 Rev. 4.4

Batch ID: P429078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403010	Calcium	98.5	100	P/P	80 - 120
2403010	Iron	100	102	P/P	80 - 120
2403010	Magnesium	100	103	P/P	80 - 120
2403010	Potassium	99.3	99.3	P/P	80 - 120
2403010	Sodium	100	102	P/P	80 - 120
2403010	Strontium	97.6	97.5	P/P	80 - 120
2403010	Tin	94.3	96.4	P/P	80 - 120
2403010	Titanium	97.8	97.9	P/P	80 - 120
2403010	Vanadium	97.3	97.1	P/P	80 - 120
2403010	Zinc	95.8	96.1	P/P	80 - 120
2403167	Calcium	101		P	80 - 120
2403167	Iron	101		P	80 - 120
2403167	Magnesium	101		P	80 - 120
2403167	Potassium	98.8		P	80 - 120
2403167	Sodium	101		P	80 - 120
2403167	Strontium	98.3		P	80 - 120
2403167	Tin	96.9		P	80 - 120
2403167	Titanium	97.4		P	80 - 120
2403167	Vanadium	98.4		P	80 - 120
2403167	Zinc	98.6		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P429078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403010	Aluminum	98.9	97.4	P/P	80 - 120
2403010	Antimony	105	103	P/P	80 - 120
2403010	Arsenic	99.7	99.2	P/P	80 - 120
2403010	Barium	106	103	P/P	80 - 120
2403010	Beryllium	94.9	93.4	P/P	80 - 120
2403010	Boron	105	100	P/P	80 - 120
2403010	Cadmium	101	99.4	P/P	80 - 120
2403010	Chromium	102	100	P/P	80 - 120
2403010	Cobalt	104	102	P/P	80 - 120
2403010	Copper	100	98.0	P/P	80 - 120
2403010	Lead	104	103	P/P	80 - 120
2403010	Manganese	103	98.6	P/P	80 - 120
2403010	Molybdenum	98.4	98.0	P/P	80 - 120
2403010	Nickel	101	99.3	P/P	80 - 120
2403010	Selenium	99.2	98.6	P/P	80 - 120
2403010	Silver	104	103	P/P	80 - 120
2403010	Thallium	103	101	P/P	80 - 120
2403167	Aluminum	97.8		P	80 - 120
2403167	Antimony	104		P	80 - 120
2403167	Arsenic	97.9		P	80 - 120
2403167	Barium	102		P	80 - 120
2403167	Beryllium	89.1		P	80 - 120
2403167	Boron	103		P	80 - 120
2403167	Cadmium	102		P	80 - 120
2403167	Chromium	101		P	80 - 120
2403167	Cobalt	103		P	80 - 120
2403167	Copper	96.3		P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429078

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403167	Lead	104		P	80 - 120
2403167	Manganese	101		P	80 - 120
2403167	Molybdenum	98.7		P	80 - 120
2403167	Nickel	98.2		P	80 - 120
2403167	Selenium	98.8		P	80 - 120
2403167	Silver	103		P	80 - 120
2403167	Thallium	102		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429145

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402952	Chloride	101		P	90 - 110
2403100	Chloride	103		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429148

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402952	Sulfate	102		P	90 - 110
2403100	Sulfate	103		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429253

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403075	Ammonia-N	100	98.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429431

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2405056	Ammonia-N	101	100	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429330

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403101	NO2NO3-N	103	103	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429043

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403065	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P428986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402675	Aldrin	51.4	43.2	P/P	20 - 82.0
2402675	Alpha-BHC	90.9	82.5	P/P	71 - 109

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P428986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402675	Alpha-Chlordane	71.2	63.0	P/P	42 - 106
2402675	Beta-BHC	87.4	91.3	P/P	69 - 180
2402675	Beta-Cyfluthrin	65.4	72.5	P/P	18 - 175
2402675	Bifenthrin	36.8	34.0	P/P	21 - 128
2402675	Carbophenothion	51.5	41.8	P/P	10 - 126
2402675	Chlorothalonil	0.0	0.0	F/F	10 - 300
2402675	Cis-Nonachlor	58.1	44.7	P/P	34 - 106
2402675	Cypermethrin	61.5	67.9	P/P	22 - 158
2402675	Dacthal	87.6	88.9	P/P	54 - 116
2402675	DDD-p,p'	55.3	40.5	P/P	34 - 107
2402675	DDE-p,p'	61.0	49.1	P/P	33 - 110
2402675	DDT-p,p'	59.3	52.3	P/P	50 - 122
2402675	Delta-BHC	91.2	98.6	P/P	77 - 193
2402675	Deltamethrin	70.9	86.8	P/P	10 - 195
2402675	Dichlobenil	59.4	54.2	P/P	25 - 113
2402675	Dicofol	67.2	58.7	P/P	38 - 247
2402675	Dieldrin	68.6	53.1	P/P	45 - 118
2402675	Endosulfan I	68.0	54.0	P/P	51 - 106
2402675	Endosulfan II	67.1	55.7	P/P	37 - 122
2402675	Endosulfan Sulfate	88.3	75.8	P/P	43 - 132
2402675	Endrin	68.2	52.5	P/P	29 - 101
2402675	Endrin Aldehyde	64.9	59.2	P/P	19 - 110
2402675	Endrin Ketone	117	115	P/P	60 - 140
2402675	Esfenvalerate	57.5	69.9	P/P	26 - 199
2402675	Ethalfuralin	72.6	58.0	P/P	45 - 99.0
2402675	Fenpropathrin	61.0	53.2	P/P	35 - 120
2402675	Gamma-BHC	99.9	94.7	P/P	63 - 128
2402675	Gamma-Chlordane	61.9	50.3	P/P	40 - 104
2402675	Heptachlor	64.2	56.8	P/P	36 - 97.0
2402675	Heptachlor Epoxide	80.1	72.6	P/P	49 - 184
2402675	Hexachlorobenzene	51.8	41.1	P/P	39 - 96.0
2402675	Kepone	64.8	119	P/P	10 - 217
2402675	Lambda-Cyhalothrin	48.6	50.0	P/P	21 - 193
2402675	Methoprene	43.7	36.1	P/P	20 - 106
2402675	Methoxychlor	65.0	62.0	P/P	53 - 118
2402675	MGK-264	77.8	76.4	P/P	40 - 118
2402675	Mirex	43.6	34.7	P/P	26 - 92.0
2402675	Oxychlordane	66.2	53.6	P/P	44 - 99.0
2402675	Permethrin	52.7	53.0	P/P	33 - 182
2402675	Phenothrin	44.9	48.6	P/P	10 - 129
2402675	Piperonyl Butoxide	73.0	60.9	P/P	10 - 211
2402675	Prallethrin	67.3	52.8	P/P	24 - 113
2402675	Tau-Fluvalinate	51.1	61.4	P/P	14 - 149
2402675	Tetramethrin	69.3	68.8	P/P	17 - 151
2402675	Trans-Nonachlor	60.6	50.2	P/P	42 - 102
2402675	Triclosan Methyl	71.4	53.0	P/P	48 - 108
2402675	Trifluralin	69.0	58.3	P/P	47 - 96.0
2402808	PCB-1016	77.2	71.1	P/P	46 - 111
2402808	PCB-1260	71.0	64.9	P/P	45 - 114

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P428986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2402808	Chlordane	77.6	77.2	P/P	53 - 126
2402808	Toxaphene	92.8	95.5	P/P	56 - 211

Reference Method: SM 4500-F- C-2011
Batch ID: P429284

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403073	Fluoride	100	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P429239

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2403159	Organic Carbon	94.4	95.7	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P429019

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403071	Color (true)	2.07	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P429017

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402951	Turbidity	5.13	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P429078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403010	Calcium	1.12	Spike	P	0 - 20
2403010	Iron	1.24	Spike	P	0 - 20
2403010	Magnesium	1.53	Spike	P	0 - 20
2403010	Potassium	0.0240	Spike	P	0 - 20
2403010	Sodium	1.10	Spike	P	0 - 20
2403010	Strontium	0.0836	Spike	P	0 - 20
2403010	Tin	2.24	Spike	P	0 - 20
2403010	Titanium	0.139	Spike	P	0 - 20
2403010	Vanadium	0.275	Spike	P	0 - 20
2403010	Zinc	0.258	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P429078

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403010	Aluminum	1.35	Spike	P	0 - 20
2403010	Antimony	1.43	Spike	P	0 - 20
2403010	Arsenic	0.557	Spike	P	0 - 20
2403010	Barium	2.36	Spike	P	0 - 20
2403010	Beryllium	1.56	Spike	P	0 - 20
2403010	Boron	4.32	Spike	P	0 - 20
2403010	Cadmium	1.11	Spike	P	0 - 20
2403010	Chromium	2.00	Spike	P	0 - 20
2403010	Cobalt	1.98	Spike	P	0 - 20
2403010	Copper	2.55	Spike	P	0 - 20
2403010	Lead	1.31	Spike	P	0 - 20
2403010	Manganese	3.20	Spike	P	0 - 20
2403010	Molybdenum	0.468	Spike	P	0 - 20
2403010	Nickel	1.53	Spike	P	0 - 20
2403010	Selenium	0.570	Spike	P	0 - 20
2403010	Silver	0.735	Spike	P	0 - 20
2403010	Thallium	2.00	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429145

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402952	Chloride	0.696	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P429148

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402952	Sulfate	1.07	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429253

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403075	Ammonia-N	1.10	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P429431

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2405056	Ammonia-N	0.890	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P429369

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403118	Kjeldahl Nitrogen	2.33	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P429330

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403101	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P429043

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403065	Total-P	0.666	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P428986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402675	Aldrin	17.4	Spike	P	0 - 41
2402675	Alpha-BHC	9.60	Spike	P	0 - 25

Quality Assurance Report Precision

Reference Method: EPA 8270E

Batch ID: P428986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402675	Alpha-Chlordane	12.2	Spike	P	0 - 33
2402675	Beta-BHC	4.36	Spike	P	0 - 36
2402675	Beta-Cyfluthrin	10.3	Spike	P	0 - 42
2402675	Bifenthrin	7.71	Spike	P	0 - 53
2402675	Carbophenothion	20.7	Spike	P	0 - 49
2402675	Cis-Nonachlor	26.2	Spike	P	0 - 29
2402675	Cypermethrin	9.84	Spike	P	0 - 40
2402675	Dacthal	1.46	Spike	P	0 - 26
2402675	DDD-p,p'	31.0	Spike	P	0 - 39
2402675	DDE-p,p'	21.5	Spike	P	0 - 33
2402675	DDT-p,p'	12.5	Spike	P	0 - 40
2402675	Delta-BHC	7.77	Spike	P	0 - 37
2402675	Deltamethrin	20.1	Spike	P	0 - 100
2402675	Dichlobenil	9.02	Spike	P	0 - 40
2402675	Dicofol	13.4	Spike	P	0 - 31
2402675	Dieldrin	25.4	Spike	P	0 - 27
2402675	Endosulfan I	22.9	Spike	P	0 - 23
2402675	Endosulfan II	18.6	Spike	P	0 - 28
2402675	Endosulfan Sulfate	15.2	Spike	P	0 - 38
2402675	Endrin	26.1	Spike	P	0 - 63
2402675	Endrin Aldehyde	9.23	Spike	P	0 - 60
2402675	Endrin Ketone	1.46	Spike	P	0 - 37
2402675	Esfenvalerate	19.5	Spike	P	0 - 52
2402675	Ethalfuralin	22.5	Spike	P	0 - 23
2402675	Fenpropathrin	13.7	Spike	P	0 - 32
2402675	Gamma-BHC	5.37	Spike	P	0 - 17
2402675	Gamma-Chlordane	20.6	Spike	P	0 - 40
2402675	Heptachlor	12.2	Spike	P	0 - 29
2402675	Heptachlor Epoxide	9.91	Spike	P	0 - 25
2402675	Hexachlorobenzene	23.2	Spike	P	0 - 36
2402675	Kepone	59.2	Spike	P	0 - 93
2402675	Lambda-Cyhalothrin	2.90	Spike	P	0 - 55
2402675	Methoprene	19.0	Spike	P	0 - 53
2402675	Methoxychlor	4.71	Spike	P	0 - 29
2402675	MGK-264	1.78	Spike	P	0 - 35
2402675	Mirex	22.7	Spike	P	0 - 46
2402675	Oxychlordane	20.9	Spike	P	0 - 29
2402675	Permethrin	0.474	Spike	P	0 - 44
2402675	Phenothrin	8.04	Spike	P	0 - 56
2402675	Piperonyl Butoxide	18.0	Spike	P	0 - 100
2402675	Prallethrin	24.2	Spike	P	0 - 42
2402675	Tau-Fluvalinate	18.4	Spike	P	0 - 54
2402675	Tetramethrin	0.727	Spike	P	0 - 51
2402675	Trans-Nonachlor	18.9	Spike	P	0 - 37
2402675	Triclosan Methyl	29.5	Spike	P	0 - 31
2402675	Trifluralin	16.8	Spike	P	0 - 30
2402808	PCB-1016	8.23	Spike	P	0 - 32
2402808	PCB-1260	8.93	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P428986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402808	Chlordane	0.611	Spike	P	0 - 25
2402808	Toxaphene	2.82	Spike	P	0 - 26

Reference Method: SM 2320 B-2011

Batch ID: P429391

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402972	Total Alkalinity	0.122	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015

Batch ID: P429528

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2402949	TDS	5.90	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011

Batch ID: P429284

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403073	Fluoride	0.973	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011

Batch ID: P429239

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2403159	Organic Carbon	1.16	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2403109
Field Sample ID: G3SD0157

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	111	P	29 - 130
EPA 8270E	Decachlorobiphenyl	110	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	77.4	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	85.5	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	68.2	P	30 - 101
EPA 8276	PCNB	87.8	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A118755

Included Lab Sample IDs: 2403100, 2403102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	98.0	98.7	P/P	90 - 110
Chloride	98.7	100	P/P	90 - 110
Sulfate	99.1	99.4	P/P	90 - 110
Sulfate	99.4	101	P/P	90 - 110

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A118794

Included Lab Sample IDs: 2403100, 2403102

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

Reference Method: DEP SOP: NU-094-1

Run ID: A118795

Included Lab Sample IDs: 2403100, 2403102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	97.7	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118853

Included Lab Sample IDs: 2403101

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A118857

Included Lab Sample IDs: 2403103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	101	P/P	90 - 110

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118865

Included Lab Sample IDs: 2403110, 2403111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Antimony	104	103	P/P	90 - 110
Antimony	105	104	P/P	90 - 110
Arsenic	99.2	98.0	P/P	90 - 110
Arsenic	99.5	99.2	P/P	90 - 110
Barium	102	99.6	P/P	90 - 110
Barium	99.6	101	P/P	90 - 110
Beryllium	98.8	98.4	P/P	90 - 110
Beryllium	99.4	98.8	P/P	90 - 110
Boron	98.1	98.9	P/P	90 - 110
Boron	98.9	96.5	P/P	90 - 110
Cadmium	99.7	98.0	P/P	90 - 110
Cadmium	100	99.7	P/P	90 - 110
Chromium	100	99.0	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118865

Included Lab Sample IDs: 2403110, 2403111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chromium	102	100	P/P	90 - 110
Cobalt	103	100	P/P	90 - 110
Cobalt	103	103	P/P	90 - 110
Copper	96.1	95.5	P/P	90 - 110
Copper	97.7	96.1	P/P	90 - 110
Lead	102	100	P/P	90 - 110
Lead	100	102	P/P	90 - 110
Manganese	101	101	P/P	90 - 110
Manganese	101	99.1	P/P	90 - 110
Molybdenum	97.9	96.9	P/P	90 - 110
Molybdenum	98.0	97.9	P/P	90 - 110
Nickel	97.4	97.0	P/P	90 - 110
Nickel	99.4	97.4	P/P	90 - 110
Selenium	101	101	P/P	90 - 110
Selenium	101	99.1	P/P	90 - 110
Silver	103	104	P/P	90 - 110
Silver	104	101	P/P	90 - 110
Thallium	97.8	98.9	P/P	90 - 110
Thallium	98.9	97.6	P/P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A118874

Included Lab Sample IDs: 2403110, 2403111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	101	100	P/P	90 - 110
Calcium	102	101	P/P	90 - 110
Iron	103	103	P/P	90 - 110
Iron	105	102	P/P	90 - 110
Magnesium	102	102	P/P	90 - 110
Magnesium	104	101	P/P	90 - 110
Potassium	102	102	P/P	90 - 110
Potassium	103	101	P/P	90 - 110
Sodium	101	101	P/P	90 - 110
Sodium	103	102	P/P	90 - 110
Strontium	102	101	P/P	90 - 110
Strontium	99.3	97.9	P/P	90 - 110
Tin	102	101	P/P	90 - 110
Tin	97.4	95.6	P/P	90 - 110
Titanium	103	100	P/P	90 - 110
Titanium	98.8	95.7	P/P	90 - 110
Vanadium	102	100	P/P	90 - 110
Vanadium	97.9	96.5	P/P	90 - 110
Zinc	100	98.1	P/P	90 - 110
Zinc	97.5	93.2	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A118887

Included Lab Sample IDs: 2403109

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

Reference Method: EPA 8270E
 Run ID: A118887
 Included Lab Sample IDs: 2403109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	94.9		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	95.1		P	80 - 120
Beta-BHC	92.2		P	80 - 120
Beta-Cyfluthrin	119		P	80 - 120
Bifenthrin	99.4		P	80 - 120
Carbophenothion	101		P	80 - 120
Chlorothalonil	96.8		P	80 - 120
Cis-Nonachlor	102		P	80 - 120
Cypermethrin	109		P	80 - 120
Dacthal	101		P	80 - 120
DDD-p,p'	97.3		P	80 - 120
DDE-p,p'	96.9		P	80 - 120
DDT-p,p'	94.0		P	80 - 120
Delta-BHC	94.1		P	80 - 120
Deltamethrin	117		P	80 - 120
Dichlobenil	83.2		P	80 - 120
Dicofol	103		P	80 - 120
Dieldrin	97.9		P	80 - 120
Endosulfan I	95.9		P	80 - 120
Endosulfan II	97.5		P	80 - 120
Endosulfan Sulfate	104		P	80 - 120
Endrin	97.4		P	80 - 120
Endrin Aldehyde	96.9		P	80 - 120
Endrin Ketone	112		P	80 - 120
Esfenvalerate	112		P	80 - 120
Ethalfuralin	98.4		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	104		P	80 - 120
Gamma-Chlordane	97.0		P	80 - 120
Heptachlor	95.8		P	80 - 120
Heptachlor Epoxide	97.1		P	80 - 120
Hexachlorobenzene	103		P	80 - 120
Kepone	101		P	80 - 120
Lambda-Cyhalothrin	103		P	80 - 120
Methoprene	98.8		P	80 - 120
Methoxychlor	94.8		P	80 - 120
MGK-264	91.9		P	80 - 120
Mirex	93.4		P	80 - 120
Oxychlordane	93.9		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	100		P	80 - 120
Prallethrin	97.1		P	80 - 120
Tau-Fluvalinate	117		P	80 - 120
Tetramethrin	97.8		P	80 - 120
Trans-Nonachlor	101		P	80 - 120
Triclosan Methyl	98.2		P	80 - 120
Trifluralin	101		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-2011

Run ID: A118896

Included Lab Sample IDs: 2403101, 2403103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.0	97.7	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118900

Included Lab Sample IDs: 2403101

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	99.4	98.8	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A118916

Included Lab Sample IDs: 2403100, 2403102

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A118933

Included Lab Sample IDs: 2403101, 2403103

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

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A118943

Included Lab Sample IDs: 2403110, 2403111

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	100	99.1	P/P	90 - 110
Aluminum	99.1	98.4	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A118951

Included Lab Sample IDs: 2403100, 2403102

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	98.1	99.0	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A118958

Included Lab Sample IDs: 2403103

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A118962

Included Lab Sample IDs: 2403101, 2403103

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	105	95.9	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E
Run ID: A118967
Included Lab Sample IDs: 2403109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	96.1		P	80 - 120
PCB-1260	95.6		P	80 - 120

Reference Method: EPA 8276
Run ID: A119015
Included Lab Sample IDs: 2403109

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	97.4		P	80 - 120
Toxaphene	96.0		P	80 - 120

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

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			Precision SMP	MS
						LCS	
DEP SOP: NU-094-1	Color (true)	99.8				2.07	
EPA 180.1 Rev. 2.0	Turbidity	97.4				5.13	
EPA 200.7 Rev. 4.4	Calcium	99.5	98.5	100	101		1.12
	Iron	99.3	100	102	101		1.24
	Magnesium	101	100	103	101		1.53
	Potassium	99.4	99.3	99.3	98.8		0.0240
	Sodium	101	100	102	101		1.10
	Strontium	96.9	97.6	97.5	98.3		0.0836
	Tin	95.5	94.3	96.4	96.9		2.24
	Titanium	99.0	97.8	97.9	97.4		0.139
	Vanadium	98.8	97.3	97.1	98.4		0.275
	Zinc	98.4	95.8	96.1	98.6		0.258
EPA 200.8 Rev. 5.4	Aluminum	102	98.9	97.4	97.8		1.35
	Antimony	107	105	103	104		1.43
	Arsenic	100	99.7	99.2	97.9		0.557
	Barium	105	106	103	102		2.36
	Beryllium	94.7	94.9	93.4	89.1		1.56
	Boron	103	105	100	103		4.32
	Cadmium	101	101	99.4	102		1.11
	Chromium	100	102	100	101		2.00
	Cobalt	103	104	102	103		1.98
	Copper	97.7	100	98.0	96.3		2.55
	Lead	101	104	103	104		1.31
	Manganese	98.8	103	98.6	101		3.20
	Molybdenum	99.1	98.4	98.0	98.7		0.468
	Nickel	100	101	99.3	98.2		1.53
	Selenium	101	99.2	98.6	98.8		0.570
	Silver	105	104	103	103		0.735
	Thallium	97.2	103	101	102		2.00
EPA 300.0 Rev. 2.1	Chloride	102	101	103		0.696	
	Sulfate	103	102	103		1.07	
EPA 350.1 Rev. 2.0	Ammonia-N	97.8	100	98.0			1.10
	Ammonia-N	99.4	101	100			0.890
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	97.1					2.33
EPA 353.2 Rev. 2.0	NO2NO3-N	104	103	103			0.0
EPA 365.1 Rev. 2.0	Total-P	105	107	107			0.666
EPA 8270E	Aldrin	50.1	51.4	43.2			17.4
	Alpha-BHC	92.8	90.9	82.5			9.60
	Alpha-Chlordane	70.5	71.2	63.0			12.2
	Beta-BHC	95.2	87.4	91.3			4.36
	Beta-Cyfluthrin	80.3	65.4	72.5			10.3
	Bifenthrin	38.2	36.8	34.0			7.71
	Carbophenothion	44.4	51.5	41.8			20.7
	Chlorothalonil	54.8	0.0	0.0			
	Cis-Nonachlor	59.5	58.1	44.7			26.2
	Cypermethrin	74.8	61.5	67.9			9.84
	Dacthal	96.4	87.6	88.9			1.46
	DDD-p,p'	54.8	55.3	40.5			31.0
	DDE-p,p'	57.0	61.0	49.1			21.5
	DDT-p,p'	64.0	59.3	52.3			12.5
	Delta-BHC	102	91.2	98.6			7.77
	Deltamethrin	86.0	70.9	86.8			20.1
	Dichlobenil	70.7	59.4	54.2			9.02
	Dicofol	73.7	67.2	58.7			13.4

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Dieldrin	65.6	68.6	53.1		25.4
	Endosulfan I	67.1	68.0	54.0		22.9
	Endosulfan II	67.9	67.1	55.7		18.6
	Endosulfan Sulfate	102	88.3	75.8		15.2
	Endrin	64.0	68.2	52.5		26.1
	Endrin Aldehyde	80.1	64.9	59.2		9.23
	Endrin Ketone	121	117	115		1.46
	Esfenvalerate	70.2	57.5	69.9		19.5
	Ethalfuralin	71.5	72.6	58.0		22.5
	Fenpropathrin	66.1	61.0	53.2		13.7
	Gamma-BHC	102	99.9	94.7		5.37
	Gamma-Chlordane	58.9	61.9	50.3		20.6
	Heptachlor	66.8	64.2	56.8		12.2
	Heptachlor Epoxide	87.8	80.1	72.6		9.91
	Hexachlorobenzene	59.6	51.8	41.1		23.2
	Kepone	149	64.8	119		59.2
	Lambda-Cyhalothrin	54.1	48.6	50.0		2.90
	Methoprene	43.0	43.7	36.1		19.0
	Methoxychlor	74.8	65.0	62.0		4.71
	MGK-264	82.6	77.8	76.4		1.78
	Mirex	41.5	43.6	34.7		22.7
	Oxychlordane	62.7	66.2	53.6		20.9
	PCB-1016	75.0	77.2	71.1		8.23
	PCB-1260	67.6	71.0	64.9		8.93
	Permethrin	60.9	52.7	53.0		0.474
	Phenothrin	45.7	44.9	48.6		8.04
	Piperonyl Butoxide	80.9	73.0	60.9		18.0
	Prallethrin	62.5	67.3	52.8		24.2
	Tau-Fluvalinate	60.2	51.1	61.4		18.4
	Tetramethrin	74.0	69.3	68.8		0.727
	Trans-Nonachlor	60.6	60.6	50.2		18.9
	Triclosan Methyl	67.0	71.4	53.0		29.5
	Trifluralin	70.7	69.0	58.3		16.8
EPA 8276	Chlordane	74.5	77.6	77.2		0.611
	Toxaphene	78.5	92.8	95.5		2.82
SM 2320 B-2011	Total Alkalinity	100				0.122
SM 2540 C-2015	TDS	98.3				5.90
SM 2540 D-2015	TSS	97.9				
SM 4500-F- C-2011	Fluoride	98.8	100	102		0.973
SM 5310 B-2011	Organic Carbon	96.8	94.4	95.7		1.16

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2403100, 2403102
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2403100, 2403102
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2403110, 2403111
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2403110, 2403111
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2403100, 2403102
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2403100, 2403102
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2403101, 2403103

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2403101, 2403103
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2403101, 2403103
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2403101, 2403103
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2403109
EPA 8270E	PCBs in water matrices by GC/MS/MS	2403109
EPA 8276	Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization	2403109
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2403100, 2403102
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2403110
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2403100, 2403102
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2403100, 2403102
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2403100, 2403102
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2403101, 2403103

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	04/26/2023			04/26/2023 15:04	Alexis Price	2403100, 2403102
EPA 180.1 Rev. 2.0	04/26/2023			04/26/2023 13:37	Khloe J Berg	2403100
	04/26/2023			04/26/2023 13:41	Khloe J Berg	2403102
EPA 200.7 Rev. 4.4	04/26/2023	04/27/2023 11:30	George D Taylor	04/28/2023 17:21	McKinley C Carter	2403111
	04/26/2023	04/27/2023 11:30	George D Taylor	04/28/2023 20:14	McKinley C Carter	2403110
EPA 200.8 Rev. 5.4	04/26/2023	04/27/2023 11:30	George D Taylor	04/28/2023 17:46	Conrad Hartmann	2403111
	04/26/2023	04/27/2023 11:30	George D Taylor	04/28/2023 20:01	Conrad Hartmann	2403110
	04/26/2023	04/27/2023 11:30	George D Taylor	05/03/2023 13:44	Conrad Hartmann	2403111
	04/26/2023	04/27/2023 11:30	George D Taylor	05/03/2023 16:16	Conrad Hartmann	2403110
EPA 300.0 Rev. 2.1	04/26/2023			04/28/2023 05:36	James L Waggeberby	2403100
	04/26/2023			04/28/2023 09:37	James L Waggeberby	2403102
EPA 350.1 Rev. 2.0	04/26/2023			05/02/2023 11:55	Ping Hua	2403101
	04/26/2023			05/04/2023 15:00	Ping Hua	2403103
EPA 351.2 Rev. 2.0	04/26/2023	05/03/2023 16:07	Dana G. Hughes	05/04/2023 14:05	Samantha L Bates	2403101
	04/26/2023	05/03/2023 16:07	Dana G. Hughes	05/04/2023 14:07	Samantha L Bates	2403103
EPA 353.2 Rev. 2.0	04/26/2023			05/03/2023 10:44	Beverly Y. Sanders	2403101
	04/26/2023			05/03/2023 10:50	Beverly Y. Sanders	2403103
EPA 365.1 Rev. 2.0	04/26/2023	04/27/2023 13:00	Alexis Price	04/28/2023 13:45	Chandler E Cox	2403101
	04/26/2023	04/27/2023 13:00	Alexis Price	04/28/2023 13:55	Chandler E Cox	2403103
EPA 8270E	04/26/2023	04/27/2023 08:00	Fe-Val Siddell	05/02/2023 01:20	Michael Poppell	2403109
	04/26/2023	04/27/2023 08:00	Fe-Val Siddell	05/05/2023 06:24	Michael Poppell	2403109
EPA 8276	04/26/2023	04/27/2023 08:00	Fe-Val Siddell	05/03/2023 10:14	Lipi Saha	2403109
SM 2320 B-2011	04/26/2023			05/03/2023 23:31	Dale L. Simmons	2403100
	04/26/2023			05/03/2023 23:38	Dale L. Simmons	2403102
SM 2340 B-2011	04/26/2023			04/28/2023 20:14	McKinley C Carter	2403110
SM 2540 C-2015	04/26/2023			04/28/2023 15:36	Yijie Li	2403100, 2403102
SM 2540 D-2015	04/26/2023			04/28/2023 15:36	Yijie Li	2403100, 2403102
SM 4500-F- C-2011	04/26/2023			05/02/2023 21:42	Dale L. Simmons	2403100
	04/26/2023			05/02/2023 21:47	Dale L. Simmons	2403102
SM 5310 B-2011	04/26/2023			05/01/2023 18:36	Elise M. Gillis	2403101
	04/26/2023			05/01/2023 18:50	Elise M. Gillis	2403103