

Chemical Analysis Report

NE-DIST-2022-08-30-02

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

Event Description: **LSJR Main**
Request ID: **RQ-2022-08-08-36**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
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Certified by: Thekkekalathil Chandrasekhar, Environmental Consultant

Date Certified: 19-SEP-2022 11:00



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: Miramar at San Jose

Collection Date/Time: 08/29/2022 09:20

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2352991	DEP SOP: NU-094-1	Color (true)	22	A	PCU	P418891	
	EPA 180.1 Rev. 2.0	Turbidity	2.9		NTU	P418880	
	EPA 300.0 Rev. 2.1	Chloride	27		mg Cl/L	P419469	
		Sulfate	49		mg SO4/L	P419472	
	SM 2320 B-2011	Total Alkalinity	82	A	mg CaCO3/L	P419278	
	SM 2540 C-2011	TDS	220	A	mg/L	P419427	
	SM 2540 D-2011	TSS	3	IA	mg/L	P419317	
	SM 4500-F- C-2011	Fluoride	0.11		mg F/L	P419281	
2352992	EPA 350.1 Rev. 2.0	Ammonia-N	0.098		mg N/L	P419068	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.67		mg N/L	P418958	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.82		mg N/L	P419057	
	EPA 365.1 Rev. 2.0	Total-P	0.071		mg P/L	P418986	
	SM 5310 B-2011	Organic Carbon	5.6		mg C/L	P419185	
2353005	EPA 8270E	Aldrin	0.67	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.60	I	ng/L	P418930	
		PCB-1016	2.0	U	ng/L	P418930	
		Beta-BHC	0.98		ng/L	P418930	MS
		PCB-1221	2.0	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.0	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.0	U	ng/L	P418930	
		PCB-1248	2.0	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.0	U	ng/L	P418930	
		Cis-Nonachlor	0.20	U	ng/L	P418930	
		PCB-1260	2.0	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.20	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	3.0		ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Diieldrin	8.2		ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS

Field ID: G2NE1164

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353005	EPA 8270E	Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfuralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.19	I	ng/L	P418930	
		Gamma-Chlordane	0.43	I	ng/L	P418930	
		Heptachlor	0.20	U	ng/L	P418930	
		Heptachlor Epoxide	2.3		ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.20	U	ng/L	P418930	
		Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.92	U	ng/L	P418930	
		Piperonyl Butoxide	0.43	I	ng/L	P418930	
		Prallethrin	2.0	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.20	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.20	U	ng/L	P418930	
	EPA 8276	Chlordane	5.4	I	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	

Ref. Method and Comment:

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

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

Sample Location: LITTLE POTTSBURG CREEK AT BEDFORD ROAD

Collection Date/Time: 08/29/2022 10:00

Field ID: 20030756

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353008	EPA 200.7 Rev. 4.4	Calcium	52.2		mg/L	P418968	
		Iron	1.07E+03		ug/L	P418968	
		Magnesium	6.34		mg/L	P418968	
		Potassium	1.7		mg/L	P418968	
		Sodium	12.6		mg/L	P418968	
		Strontium	484		ug/L	P418968	
		Tin	5.7	I	ug/L	P418968	
		Titanium	0.95	I	ug/L	P418968	
		Vanadium	2.0	U	ug/L	P418968	
		Zinc	8.5	I	ug/L	P418968	
	EPA 200.8 Rev. 5.4	Aluminum	28		ug/L	P418968	
		Antimony	0.20		ug/L	P418968	
		Arsenic	1.29		ug/L	P418968	
		Barium	32.4		ug/L	P418968	
		Beryllium	0.010	U	ug/L	P418968	
		Boron	42.7		ug/L	P418968	
		Cadmium	0.020	U	ug/L	P418968	
		Chromium	0.40	U	ug/L	P418968	
		Cobalt	0.089		ug/L	P418968	
		Copper	1.33		ug/L	P418968	
		Lead	0.39	I	ug/L	P418968	
		Manganese	27.2		ug/L	P418968	
		Molybdenum	0.92		ug/L	P418968	
		Nickel	0.62	I	ug/L	P418968	
		Selenium	0.20	U	ug/L	P418968	
		Silver	0.010	U	ug/L	P418968	
		Thallium	0.10	U	ug/L	P418968	
	SM 2340 B-2011	Hardness	157		mg/L	P418968	

Sample Location: BIG POTTSBURG CR BOWDEN RD

Collection Date/Time: 08/29/2022 10:30

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353006	EPA 8270E	Aldrin	0.67	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.21	U	ng/L	P418930	
		PCB-1016	2.1	U	ng/L	P418930	
		Beta-BHC	0.10	U	ng/L	P418930	MS
		PCB-1221	2.1	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.1	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.1	U	ng/L	P418930	
		PCB-1248	2.1	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.1	U	ng/L	P418930	
		Cis-Nonachlor	0.21	U	ng/L	P418930	
		PCB-1260	2.1	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.21	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfuralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.21	U	ng/L	P418930	
		Heptachlor	0.21	U	ng/L	P418930	
		Heptachlor Epoxide	0.26	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.21	U	ng/L	P418930	

Field ID: 20030068

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353006	EPA 8270E	Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.93	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.1	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.21	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.21	U	ng/L	P418930	
	EPA 8276	Chlordane	2.6	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	

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

Sample Location: BIG POTTSBURG CR AT BELFORT RD

Collection Date/Time: 08/29/2022 10:55

Field ID: 20030064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353007	EPA 8270E	Aldrin	0.66	U	ng/L	P418930	
		Alpha-BHC	0.10	U	ng/L	P418930	
		Alpha-Chlordane	0.20	U	ng/L	P418930	
		PCB-1016	2.0	U	ng/L	P418930	
		Beta-BHC	0.10	U	ng/L	P418930	MS
		PCB-1221	2.0	U	ng/L	P418930	
		Beta-Cyfluthrin	1.3	U	ng/L	P418930	
		PCB-1232	2.0	U	ng/L	P418930	
		Bifenthrin	0.51	U	ng/L	P418930	
		PCB-1242	2.0	U	ng/L	P418930	
		PCB-1248	2.0	U	ng/L	P418930	
		Chlorothalonil	1.3	U	ng/L	P418930	
		PCB-1254	2.0	U	ng/L	P418930	
		Cis-Nonachlor	0.20	U	ng/L	P418930	
		PCB-1260	2.0	U	ng/L	P418930	
		Cypermethrin	1.5	U	ng/L	P418930	
		Dacthal	0.15	U	ng/L	P418930	
		DDD-p,p'	0.26	U	ng/L	P418930	
		DDE-p,p'	0.20	U	ng/L	P418930	
		DDT-p,p'	0.26	U	ng/L	P418930	
		Delta-BHC	0.41	U	ng/L	P418930	
		Deltamethrin	1.3	U	ng/L	P418930	
		Dichlobenil	0.26	U	ng/L	P418930	
		Dicofol	1.3	U	ng/L	P418930	
		Dieldrin	0.41	U	ng/L	P418930	
		Endosulfan I	0.41	U	ng/L	P418930	
		Endosulfan II	0.41	U	ng/L	P418930	
		Endosulfan Sulfate	0.31	U	ng/L	P418930	
		Endrin	0.41	U	ng/L	P418930	
		Endrin Aldehyde	0.77	U	ng/L	P418930	
		Endrin Ketone	0.41	UJ	ng/L	P418930	CCV, LCS
		Esfenvalerate	0.77	U	ng/L	P418930	
		Ethalfuralin	0.15	U	ng/L	P418930	
		Fenpropathrin	0.26	U	ng/L	P418930	
		Gamma-BHC	0.13	U	ng/L	P418930	
		Gamma-Chlordane	0.20	U	ng/L	P418930	
		Heptachlor	0.20	U	ng/L	P418930	
		Heptachlor Epoxide	0.26	U	ng/L	P418930	
		Hexachlorobenzene**	1.0	U	ng/L	P418930	
		Kepone	5.1	U	ng/L	P418930	
		Lambda-Cyhalothrin	0.77	U	ng/L	P418930	
		Methoprene	0.77	U	ng/L	P418930	
		Methoxychlor	0.31	U	ng/L	P418930	
		MGK-264	0.20	U	ng/L	P418930	

Field ID: 20030064

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2353007	EPA 8270E	Mirex	0.36	U	ng/L	P418930	
		Oxychlordane	0.31	U	ng/L	P418930	
		Permethrin	1.6	U	ng/L	P418930	
		Phenothrin	0.92	U	ng/L	P418930	
		Piperonyl Butoxide	0.15	U	ng/L	P418930	
		Prallethrin	2.0	U	ng/L	P418930	
		Tau-Fluvalinate	0.26	U	ng/L	P418930	
		Tetramethrin	0.77	U	ng/L	P418930	
		Trans-Nonachlor	0.20	U	ng/L	P418930	
		Triclosan Methyl	0.15	U	ng/L	P418930	
		Trifluralin	0.20	U	ng/L	P418930	
	EPA 8276	Chlordane	2.6	U	ng/L	P418930	
		Toxaphene	15	U	ng/L	P418930	

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: P418891

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

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: P418968

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: P419469

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: P419472

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418958

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419057

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418986

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

Reference Method: EPA 8270E
Batch ID: P418930

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
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418930

Component	Result	Code	Units
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
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

Quality Assurance Report Method Blank Results

Reference Method: EPA 8270E

Batch ID: P418930

Component	Result	Code	Units
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: P418930

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

Reference Method: SM 2320 B-2011

Batch ID: P419278

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

Quality Assurance Report

Method Blank Results

Reference Method: SM 2540 C-2011
Batch ID: P419427

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2011
Batch ID: P419317

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P419185

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: P418891

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: P418880

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	96.5		P	90 - 110

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Calcium	110		P	85 - 115
Iron	113		P	85 - 115
Magnesium	111		P	85 - 115
Potassium	108		P	85 - 115
Sodium	106		P	85 - 115
Strontium	106		P	85 - 115
Tin	111		P	85 - 115
Titanium	110		P	85 - 115
Vanadium	108		P	85 - 115
Zinc	109		P	85 - 115

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aluminum	98.9		P	85 - 115
Antimony	103		P	85 - 115
Arsenic	99.1		P	85 - 115
Barium	102		P	85 - 115
Beryllium	97.9		P	85 - 115
Boron	103		P	85 - 115
Cadmium	100		P	85 - 115
Chromium	98.0		P	85 - 115
Cobalt	96.5		P	85 - 115
Copper	103		P	85 - 115
Lead	99.1		P	85 - 115
Manganese	100		P	85 - 115
Molybdenum	104		P	85 - 115
Nickel	96.6		P	85 - 115
Selenium	92.0		P	85 - 115
Silver	96.1		P	85 - 115
Thallium	99.0		P	85 - 115

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419472

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418958

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	106		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419057

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: P418986

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

Reference Method: EPA 8270E
Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	51.8		P	10 - 92.0
Alpha-BHC	94.9		P	75 - 107
Alpha-Chlordane	70.7		P	50 - 108
Beta-BHC	108		P	36 - 138
Beta-Cyfluthrin	66.8		P	20 - 161
Bifenthrin	49.3		P	10 - 119
Chlorothalonil	67.5		P	26 - 186
Cis-Nonachlor	68.2		P	42 - 119
Cypermethrin	70.1		P	22 - 150
Dacthal	90.5		P	72 - 119
DDD-p,p'	78.1		P	45 - 107
DDE-p,p'	74.3		P	48 - 106
DDT-p,p'	71.8		P	48 - 110
Delta-BHC	113		P	54 - 140
Deltamethrin	45.3		P	22 - 189
Dichlobenil	89.4		P	36 - 117
Dicofol	76.7		P	46 - 155
Dieldrin	78.9		P	54 - 110
Endosulfan I	76.2		P	59 - 105
Endosulfan II	87.3		P	51 - 118
Endosulfan Sulfate	97.6		P	57 - 121
Endrin	82.4		P	10 - 120

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Endrin Aldehyde	68.3		P	34 - 118
Endrin Ketone	56.9		F	69 - 177
Esfenvalerate	63.2		P	23 - 168
Ethalfuralin	79.4		P	49 - 99.0
Fenpropathrin	72.1		P	34 - 117
Gamma-BHC	92.0		P	72 - 117
Gamma-Chlordane	68.5		P	43 - 106
Heptachlor	68.2		P	41 - 98.0
Heptachlor Epoxide	79.7		P	57 - 106
Hexachlorobenzene	74.3		P	36 - 99.0
Kepone	150		P	16 - 215
Lambda-Cyhalothrin	57.9		P	21 - 177
Methoprene	54.1		P	10 - 119
Methoxychlor	79.7		P	60 - 112
MGK-264	79.4		P	26 - 122
Mirex	57.1		P	10 - 169
Oxychlordane	76.8		P	43 - 105
PCB-1016	87.3		P	48 - 112
PCB-1260	85.9		P	44 - 118
Permethrin	67.8		P	24 - 148
Phenothrin	46.4		P	10 - 106
Piperonyl Butoxide	67.8		P	10 - 139
Prallethrin	71.5		P	17 - 109
Tau-Fluvalinate	53.8		P	13 - 131
Tetramethrin	97.7		P	10 - 132
Trans-Nonachlor	74.0		P	44 - 106
Triclosan Methyl	78.4		P	59 - 109
Trifluralin	76.2		P	44 - 101

Reference Method: EPA 8276

Batch ID: P418930

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	95.0		P	61 - 116
Toxaphene	99.1		P	48 - 124

Reference Method: SM 2320 B-2011

Batch ID: P419278

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	99.1		P	94 - 106

Reference Method: SM 4500-F- C-2011

Batch ID: P419281

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	101		P	94 - 104

Reference Method: SM 5310 B-2011

Batch ID: P419185

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

Laboratory Control Sample Accuracy

Reference Method: SM 5310 B-2011
Batch ID: P419185

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 200.7 Rev. 4.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Calcium	106		P	80 - 120
2353008	Iron	111		P	80 - 120
2353008	Magnesium	103		P	80 - 120
2353008	Potassium	107		P	80 - 120
2353008	Sodium	103		P	80 - 120
2353008	Strontium	104		P	80 - 120
2353008	Tin	112		P	80 - 120
2353008	Titanium	110		P	80 - 120
2353008	Vanadium	109		P	80 - 120
2353008	Zinc	108		P	80 - 120
2353098	Calcium	109	111	P/P	80 - 120
2353098	Iron	109	112	P/P	80 - 120
2353098	Magnesium	107	110	P/P	80 - 120
2353098	Potassium	107	108	P/P	80 - 120
2353098	Sodium	109	111	P/P	80 - 120
2353098	Strontium	102	105	P/P	80 - 120
2353098	Tin	108	108	P/P	80 - 120
2353098	Titanium	107	109	P/P	80 - 120
2353098	Vanadium	105	106	P/P	80 - 120
2353098	Zinc	106	104	P/P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353008	Aluminum	98.9		P	80 - 120
2353008	Antimony	103		P	80 - 120
2353008	Arsenic	99.6		P	80 - 120
2353008	Barium	100		P	80 - 120
2353008	Beryllium	95.4		P	80 - 120
2353008	Boron	107		P	80 - 120
2353008	Cadmium	98.6		P	80 - 120
2353008	Chromium	99.3		P	80 - 120
2353008	Cobalt	94.7		P	80 - 120
2353008	Copper	98.8		P	80 - 120
2353008	Lead	99.2		P	80 - 120
2353008	Manganese	97.5		P	80 - 120
2353008	Molybdenum	104		P	80 - 120
2353008	Nickel	93.9		P	80 - 120
2353008	Selenium	90.8		P	80 - 120
2353008	Silver	93.2		P	80 - 120
2353008	Thallium	101		P	80 - 120
2353098	Aluminum	97.8	97.4	P/P	80 - 120
2353098	Antimony	103	102	P/P	80 - 120
2353098	Arsenic	98.8	99.2	P/P	80 - 120
2353098	Barium	102	101	P/P	80 - 120
2353098	Beryllium	99.0	97.7	P/P	80 - 120
2353098	Boron	100	100	P/P	80 - 120
2353098	Cadmium	98.5	98.4	P/P	80 - 120
2353098	Chromium	97.8	96.5	P/P	80 - 120
2353098	Cobalt	96.2	95.0	P/P	80 - 120
2353098	Copper	104	104	P/P	80 - 120

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 200.8 Rev. 5.4

Batch ID: P418968

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353098	Lead	99.7	99.7	P/P	80 - 120
2353098	Manganese	98.4	97.4	P/P	80 - 120
2353098	Molybdenum	104	103	P/P	80 - 120
2353098	Nickel	96.1	95.3	P/P	80 - 120
2353098	Selenium	90.7	91.3	P/P	80 - 120
2353098	Silver	94.5	94.3	P/P	80 - 120
2353098	Thallium	99.3	100	P/P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419469

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353292	Chloride	98.8		P	90 - 110
2353293	Chloride	99.2		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Batch ID: P419472

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353292	Sulfate	95.6		P	90 - 110
2353293	Sulfate	94.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Batch ID: P419068

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352902	Ammonia-N	96.6	95.0	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Batch ID: P418958

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2351599	Kjeldahl Nitrogen	105	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Batch ID: P419057

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352706	NO2NO3-N	99.1	99.1	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Batch ID: P418986

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352721	Total-P	107	107	P/P	90 - 110

Reference Method: EPA 8270E

Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	PCB-1016	88.7	90.7	P/P	46 - 111
2353005	PCB-1260	79.8	85.2	P/P	45 - 114

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353048	Aldrin	51.1	53.8	P/P	20 - 82.0
2353048	Alpha-BHC	85.8	81.7	P/P	71 - 109
2353048	Alpha-Chlordane	66.4	67.7	P/P	42 - 106
2353048	Beta-BHC	57.1	54.2	F/F	69 - 180
2353048	Beta-Cyfluthrin	66.4	74.6	P/P	18 - 175
2353048	Bifenthrin	50.4	55.3	P/P	21 - 128
2353048	Chlorothalonil	148	154	P/P	10 - 300
2353048	Cis-Nonachlor	57.1	63.2	P/P	34 - 106
2353048	Cypermethrin	63.7	71.6	P/P	22 - 158
2353048	Dacthal	82.5	84.1	P/P	54 - 116
2353048	DDD-p,p'	60.6	63.3	P/P	34 - 107
2353048	DDE-p,p'	64.2	65.8	P/P	33 - 110
2353048	DDT-p,p'	58.8	60.5	P/P	50 - 122
2353048	Delta-BHC	124	125	P/P	77 - 193
2353048	Deltamethrin	62.4	86.3	P/P	10 - 195
2353048	Dichlobenil	63.4	60.7	P/P	25 - 113
2353048	Dicofol	64.9	66.7	P/P	38 - 247
2353048	Dieldrin	64.3	66.0	P/P	45 - 118
2353048	Endosulfan I	73.8	74.0	P/P	51 - 106
2353048	Endosulfan II	70.6	71.4	P/P	37 - 122
2353048	Endosulfan Sulfate	79.2	86.0	P/P	43 - 132
2353048	Endrin	71.3	71.4	P/P	29 - 101
2353048	Endrin Aldehyde	72.3	71.9	P/P	19 - 110
2353048	Endrin Ketone	79.6	80.3	P/P	60 - 140
2353048	Esfenvalerate	72.3	80.3	P/P	26 - 199
2353048	Ethalfuralin	62.8	65.0	P/P	45 - 99.0
2353048	Fenpropathrin	54.5	61.0	P/P	35 - 120
2353048	Gamma-BHC	96.4	96.5	P/P	63 - 128
2353048	Gamma-Chlordane	63.8	64.5	P/P	40 - 104
2353048	Heptachlor	54.2	56.4	P/P	36 - 97.0
2353048	Heptachlor Epoxide	66.1	68.7	P/P	49 - 184
2353048	Hexachlorobenzene	62.6	61.1	P/P	39 - 96.0
2353048	Kepone	174	193	P/P	10 - 217
2353048	Lambda-Cyhalothrin	66.8	74.2	P/P	21 - 193
2353048	Methoprene	60.1	66.0	P/P	20 - 106
2353048	Methoxychlor	65.3	66.0	P/P	53 - 118
2353048	MGK-264	79.8	82.0	P/P	40 - 118
2353048	Mirex	53.9	56.0	P/P	26 - 92.0
2353048	Oxychlordane	73.0	73.8	P/P	44 - 99.0
2353048	Permethrin	61.5	68.2	P/P	33 - 182
2353048	Phenothrin	69.8	72.5	P/P	10 - 129
2353048	Piperonyl Butoxide	89.0	95.7	P/P	10 - 211
2353048	Prallethrin	77.4	79.0	P/P	24 - 113
2353048	Tau-Fluvalinate	67.6	74.7	P/P	14 - 149
2353048	Tetramethrin	91.4	103	P/P	17 - 151
2353048	Trans-Nonachlor	62.8	67.3	P/P	42 - 102
2353048	Triclosan Methyl	69.2	69.3	P/P	48 - 108
2353048	Trifluralin	63.6	65.8	P/P	47 - 96.0

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: EPA 8276
Batch ID: P418930

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353005	Chlordane	90.3	88.4	P/P	53 - 126
2353005	Toxaphene	113	110	P/P	56 - 211

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2352991	Fluoride	102	102	P/P	94 - 104

Reference Method: SM 5310 B-2011
Batch ID: P419185

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2353034	Organic Carbon	89.1	93.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P418891

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Color (true)	1.05	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P418880

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352962	Turbidity	1.96	Sample	P	0 - 20

Reference Method: EPA 200.7 Rev. 4.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Calcium	1.63	Spike	P	0 - 20
2353098	Iron	2.55	Spike	P	0 - 20
2353098	Magnesium	2.24	Spike	P	0 - 20
2353098	Potassium	1.31	Spike	P	0 - 20
2353098	Sodium	0.952	Spike	P	0 - 20
2353098	Strontium	2.31	Spike	P	0 - 20
2353098	Tin	0.451	Spike	P	0 - 20
2353098	Titanium	2.12	Spike	P	0 - 20
2353098	Vanadium	0.996	Spike	P	0 - 20
2353098	Zinc	1.65	Spike	P	0 - 20

Reference Method: EPA 200.8 Rev. 5.4
Batch ID: P418968

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353098	Aluminum	0.347	Spike	P	0 - 20
2353098	Antimony	1.41	Spike	P	0 - 20
2353098	Arsenic	0.443	Spike	P	0 - 20
2353098	Barium	0.604	Spike	P	0 - 20
2353098	Beryllium	1.25	Spike	P	0 - 20
2353098	Boron	0.0451	Spike	P	0 - 20
2353098	Cadmium	0.0424	Spike	P	0 - 20
2353098	Chromium	1.39	Spike	P	0 - 20
2353098	Cobalt	1.33	Spike	P	0 - 20
2353098	Copper	0.0407	Spike	P	0 - 20
2353098	Lead	0.0130	Spike	P	0 - 20
2353098	Manganese	0.858	Spike	P	0 - 20
2353098	Molybdenum	0.302	Spike	P	0 - 20
2353098	Nickel	0.783	Spike	P	0 - 20
2353098	Selenium	0.693	Spike	P	0 - 20
2353098	Silver	0.268	Spike	P	0 - 20
2353098	Thallium	0.918	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419469

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353292	Chloride	0.130	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P419472

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353292	Sulfate	0.408	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P419068

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352902	Ammonia-N	1.45	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P418958

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2351599	Kjeldahl Nitrogen	1.17	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P419057

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352706	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P418986

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352721	Total-P	0.467	Spike	P	0 - 20

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	PCB-1016	2.23	Spike	P	0 - 32
2353005	PCB-1260	6.51	Spike	P	0 - 31
2353048	Aldrin	5.14	Spike	P	0 - 41
2353048	Alpha-BHC	4.91	Spike	P	0 - 25
2353048	Alpha-Chlordane	1.89	Spike	P	0 - 33
2353048	Beta-BHC	5.25	Spike	P	0 - 36
2353048	Beta-Cyfluthrin	11.6	Spike	P	0 - 42
2353048	Bifenthrin	9.33	Spike	P	0 - 53
2353048	Chlorothalonil	3.82	Spike	P	0 - 71

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353048	Cis-Nonachlor	10.1	Spike	P	0 - 29
2353048	Cypermethrin	11.6	Spike	P	0 - 40
2353048	Dacthal	1.81	Spike	P	0 - 26
2353048	DDD-p,p'	4.25	Spike	P	0 - 39
2353048	DDE-p,p'	2.50	Spike	P	0 - 33
2353048	DDT-p,p'	2.73	Spike	P	0 - 40
2353048	Delta-BHC	0.321	Spike	P	0 - 37
2353048	Deltamethrin	32.1	Spike	P	0 - 100
2353048	Dichlobenil	4.39	Spike	P	0 - 40
2353048	Dicofol	2.67	Spike	P	0 - 31
2353048	Dieldrin	2.58	Spike	P	0 - 27
2353048	Endosulfan I	0.241	Spike	P	0 - 23
2353048	Endosulfan II	1.14	Spike	P	0 - 28
2353048	Endosulfan Sulfate	8.22	Spike	P	0 - 38
2353048	Endrin	0.170	Spike	P	0 - 63
2353048	Endrin Aldehyde	0.566	Spike	P	0 - 60
2353048	Endrin Ketone	0.954	Spike	P	0 - 37
2353048	Esfenvalerate	10.5	Spike	P	0 - 52
2353048	Ethalfuralin	3.32	Spike	P	0 - 23
2353048	Fenpropathrin	11.3	Spike	P	0 - 32
2353048	Gamma-BHC	0.0308	Spike	P	0 - 17
2353048	Gamma-Chlordane	1.18	Spike	P	0 - 40
2353048	Heptachlor	4.06	Spike	P	0 - 29
2353048	Heptachlor Epoxide	3.88	Spike	P	0 - 25
2353048	Hexachlorobenzene	2.52	Spike	P	0 - 36
2353048	Kepone	10.3	Spike	P	0 - 93
2353048	Lambda-Cyhalothrin	10.4	Spike	P	0 - 55
2353048	Methoprene	9.38	Spike	P	0 - 53
2353048	Methoxychlor	1.13	Spike	P	0 - 29
2353048	MGK-264	2.72	Spike	P	0 - 35
2353048	Mirex	3.76	Spike	P	0 - 46
2353048	Oxychlordane	1.16	Spike	P	0 - 29
2353048	Permethrin	10.3	Spike	P	0 - 44
2353048	Phenothrin	3.74	Spike	P	0 - 56
2353048	Piperonyl Butoxide	7.31	Spike	P	0 - 100
2353048	Prallethrin	2.08	Spike	P	0 - 42
2353048	Tau-Fluvalinate	9.94	Spike	P	0 - 54
2353048	Tetramethrin	11.8	Spike	P	0 - 51
2353048	Trans-Nonachlor	6.87	Spike	P	0 - 37
2353048	Triclosan Methyl	0.0541	Spike	P	0 - 31
2353048	Trifluralin	3.43	Spike	P	0 - 30

Reference Method: EPA 8276
Batch ID: P418930

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353005	Chlordane	1.86	Spike	P	0 - 25
2353005	Toxaphene	2.78	Spike	P	0 - 26

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P419278

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Total Alkalinity	0.709	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2011
Batch ID: P419427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	TDS	7.74	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P419281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2352991	Fluoride	0.470	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P419185

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2353034	Organic Carbon	3.09	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2353005
Field Sample ID: G2NE1164

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	69.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	68.8	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	47.9	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	30.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	68.5	P	30 - 101
EPA 8276	PCNB	85.4	P	48 - 121

Lab Sample ID: 2353006
Field Sample ID: 20030068

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	97.1	P	29 - 130
EPA 8270E	Decachlorobiphenyl	91.4	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	58.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	51.0	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	73.4	P	30 - 101
EPA 8276	PCNB	88.1	P	48 - 121

Lab Sample ID: 2353007
Field Sample ID: 20030064

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	92.2	P	29 - 130
EPA 8270E	Decachlorobiphenyl	73.9	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	54.7	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	48.3	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	60.2	P	30 - 101
EPA 8276	PCNB	87.8	P	48 - 121

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A114434

Included Lab Sample IDs: 2352991

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

Reference Method: DEP SOP: NU-094-1

Run ID: A114439

Included Lab Sample IDs: 2352991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A114512

Included Lab Sample IDs: 2352992

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A114514

Included Lab Sample IDs: 2352992

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A114517

Included Lab Sample IDs: 2352992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.0	99.1	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A114532

Included Lab Sample IDs: 2352992

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

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114559

Included Lab Sample IDs: 2353008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Calcium	99.9	104	P/P	90 - 110
Iron	101	105	P/P	90 - 110
Magnesium	99.3	104	P/P	90 - 110
Potassium	98.3	101	P/P	90 - 110
Sodium	99.4	102	P/P	90 - 110
Strontium	98.4	99.6	P/P	90 - 110
Tin	108	104	P/P	90 - 110
Titanium	106	103	P/P	90 - 110
Vanadium	102	101	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.7 Rev. 4.4

Run ID: A114559

Included Lab Sample IDs: 2353008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Zinc	104	102	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A114560

Included Lab Sample IDs: 2353005, 2353006, 2353007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	105		P	80 - 120
Alpha-BHC	101		P	80 - 120
Alpha-Chlordane	101		P	80 - 120
Beta-BHC	96.3		P	80 - 120
Beta-Cyfluthrin	99.3		P	80 - 120
Bifenthrin	105		P	80 - 120
Chlorothalonil	93.9		P	80 - 120
Cis-Nonachlor	99.8		P	80 - 120
Cypermethrin	99.5		P	80 - 120
Dacthal	100		P	80 - 120
DDD-p,p'	103		P	80 - 120
DDE-p,p'	104		P	80 - 120
DDT-p,p'	101		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Delta-BHC	98.3		P	80 - 120
Deltamethrin	85.5		P	80 - 120
Dichlobenil	97.6		P	80 - 120
Dicofol	97.7		P	80 - 120
Dieldrin	105		P	80 - 120
Endosulfan I	102		P	80 - 120
Endosulfan II	103		P	80 - 120
Endosulfan Sulfate	102		P	80 - 120
Endrin	99.5		P	80 - 120
Endrin Aldehyde	101		P	80 - 120
Endrin Ketone	60.8*		F	80 - 120
Esfenvalerate	102		P	80 - 120
Ethalfuralin	101		P	80 - 120
Fenpropathrin	103		P	80 - 120
Gamma-BHC	97.4		P	80 - 120
Gamma-Chlordane	98.1		P	80 - 120
Heptachlor	104		P	80 - 120
Heptachlor Epoxide	101		P	80 - 120
Hexachlorobenzene	99.0		P	80 - 120
Kepone	95.3		P	80 - 120
Lambda-Cyhalothrin	101		P	80 - 120
Methoprene	103		P	80 - 120
Methoxychlor	98.9		P	80 - 120
MGK-264	102		P	80 - 120
Mirex	106		P	80 - 120
Oxychlordane	103		P	80 - 120
Permethrin	101		P	80 - 120
Phenothrin	100		P	80 - 120
Piperonyl Butoxide	82.3		P	80 - 120
Prallethrin	100		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A114560

Included Lab Sample IDs: 2353005, 2353006, 2353007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Tau-Fluvalinate	100		P	80 - 120
Tetramethrin	109		P	80 - 120
Trans-Nonachlor	107		P	80 - 120
Triclosan Methyl	99.3		P	80 - 120
Trifluralin	101		P	80 - 120

Reference Method: EPA 8270E

Run ID: A114564

Included Lab Sample IDs: 2353005, 2353006, 2353007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	103		P	80 - 120

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114566

Included Lab Sample IDs: 2353008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aluminum	95.4	97.4	P/P	90 - 110
Antimony	99.8	98.6	P/P	90 - 110
Arsenic	100	98.2	P/P	90 - 110
Barium	97.4	96.0	P/P	90 - 110
Boron	96.6	99.9	P/P	90 - 110
Cadmium	102	102	P/P	90 - 110
Chromium	99.2	97.6	P/P	90 - 110
Cobalt	96.7	95.7	P/P	90 - 110
Manganese	98.7	98.2	P/P	90 - 110
Nickel	97.2	95.7	P/P	90 - 110
Selenium	97.1	97.4	P/P	90 - 110
Silver	95.6	95.9	P/P	90 - 110
Thallium	101	100	P/P	90 - 110

Reference Method: SM 5310 B-2011

Run ID: A114570

Included Lab Sample IDs: 2352992

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.2	95.1	P/P	90 - 110

Reference Method: EPA 8276

Run ID: A114573

Included Lab Sample IDs: 2353005, 2353006, 2353007

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	80.6		P	80 - 120
Chlordane	96.4		P	80 - 120
Toxaphene	102		P	80 - 120
Toxaphene	82.5		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 200.8 Rev. 5.4

Run ID: A114593

Included Lab Sample IDs: 2353008

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Beryllium	97.9	96.4	P/P	90 - 110
Copper	103	102	P/P	90 - 110
Lead	94.4	95.0	P/P	90 - 110
Molybdenum	101	101	P/P	90 - 110

Reference Method: SM 2320 B-2011

Run ID: A114599

Included Lab Sample IDs: 2352991

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	95.6	101	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A114599

Included Lab Sample IDs: 2352991

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

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A114600

Included Lab Sample IDs: 2352991

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

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery			LCS	Precision SMP	MS
DEP SOP: NU-094-1	Color (true)	98.8					1.05	
EPA 180.1 Rev. 2.0	Turbidity	96.5					1.96	
EPA 200.7 Rev. 4.4	Calcium	110	106	109	111			1.63
	Iron	113	111	109	112			2.55
	Magnesium	111	103	107	110			2.24
	Potassium	108	107	107	108			1.31
	Sodium	106	103	109	111			0.952
	Strontium	106	104	102	105			2.31
	Tin	111	112	108	108			0.451
	Titanium	110	110	107	109			2.12
	Vanadium	108	109	105	106			0.996
	Zinc	109	108	106	104			1.65
EPA 200.8 Rev. 5.4	Aluminum	98.9	97.8	97.4	98.9			0.347
	Antimony	103	103	102	103			1.41
	Arsenic	99.1	98.8	99.2	99.6			0.443
	Barium	102	102	101	100			0.604
	Beryllium	97.9	99.0	97.7	95.4			1.25
	Boron	103	100	100	107			0.0451
	Cadmium	100	98.5	98.4	98.6			0.0424
	Chromium	98.0	97.8	96.5	99.3			1.39
	Cobalt	96.5	96.2	95.0	94.7			1.33
	Copper	103	104	104	98.8			0.0407
	Lead	99.1	99.7	99.7	99.2			0.0130
	Manganese	100	98.4	97.4	97.5			0.858
	Molybdenum	104	104	103	104			0.302
	Nickel	96.6	96.1	95.3	93.9			0.783
	Selenium	92.0	90.7	91.3	90.8			0.693
	Silver	96.1	94.5	94.3	93.2			0.268
	Thallium	99.0	99.3	100	101			0.918
EPA 300.0 Rev. 2.1	Chloride	100	98.8	99.2			0.130	
	Sulfate	99.5	95.6	94.8			0.408	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	96.6	95.0				1.45
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	106	105	104				1.17
EPA 353.2 Rev. 2.0	NO2NO3-N	99.5	99.1	99.1				0.0
EPA 365.1 Rev. 2.0	Total-P	104	107	107				0.467
EPA 8270E	Aldrin	51.8	51.1	53.8				5.14
	Alpha-BHC	94.9	85.8	81.7				4.91
	Alpha-Chlordane	70.7	66.4	67.7				1.89
	Beta-BHC	108	57.1	54.2				5.25
	Beta-Cyfluthrin	66.8	66.4	74.6				11.6
	Bifenthrin	49.3	50.4	55.3				9.33
	Chlorothalonil	67.5	148	154				3.82
	Cis-Nonachlor	68.2	57.1	63.2				10.1
	Cypermethrin	70.1	63.7	71.6				11.6
	Dacthal	90.5	82.5	84.1				1.81
	DDD-p,p'	78.1	60.6	63.3				4.25
	DDE-p,p'	74.3	64.2	65.8				2.50
	DDT-p,p'	71.8	58.8	60.5				2.73
	Delta-BHC	113	124	125				0.321
	Deltamethrin	45.3	62.4	86.3				32.1
	Dichlobenil	89.4	63.4	60.7				4.39
	Dicofol	76.7	64.9	66.7				2.67
	Dieldrin	78.9	64.3	66.0				2.58
	Endosulfan I	76.2	73.8	74.0				0.241

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision	
					LCS	SMP
EPA 8270E	Endosulfan II	87.3	70.6	71.4		1.14
	Endosulfan Sulfate	97.6	79.2	86.0		8.22
	Endrin	82.4	71.3	71.4		0.170
	Endrin Aldehyde	68.3	72.3	71.9		0.566
	Endrin Ketone	56.9	79.6	80.3		0.954
	Esfenvalerate	63.2	72.3	80.3		10.5
	Ethalfuralin	79.4	62.8	65.0		3.32
	Fenpropathrin	72.1	54.5	61.0		11.3
	Gamma-BHC	92.0	96.4	96.5		0.0308
	Gamma-Chlordane	68.5	63.8	64.5		1.18
	Heptachlor	68.2	54.2	56.4		4.06
	Heptachlor Epoxide	79.7	66.1	68.7		3.88
	Hexachlorobenzene	74.3	62.6	61.1		2.52
	Kepone	150	174	193		10.3
	Lambda-Cyhalothrin	57.9	66.8	74.2		10.4
	Methoprene	54.1	60.1	66.0		9.38
	Methoxychlor	79.7	65.3	66.0		1.13
	MGK-264	79.4	79.8	82.0		2.72
	Mirex	57.1	53.9	56.0		3.76
	Oxychlordane	76.8	73.0	73.8		1.16
	PCB-1016	87.3	88.7	90.7		2.23
	PCB-1260	85.9	79.8	85.2		6.51
	Permethrin	67.8	61.5	68.2		10.3
	Phenothrin	46.4	69.8	72.5		3.74
	Piperonyl Butoxide	67.8	89.0	95.7		7.31
	Prallethrin	71.5	77.4	79.0		2.08
	Tau-Fluvalinate	53.8	67.6	74.7		9.94
	Tetramethrin	97.7	91.4	103		11.8
	Trans-Nonachlor	74.0	62.8	67.3		6.87
	Triclosan Methyl	78.4	69.2	69.3		0.0541
	Trifluralin	76.2	63.6	65.8		3.43
EPA 8276	Chlordane	95.0	90.3	88.4		1.86
	Toxaphene	99.1	113	110		2.78
SM 2320 B-2011	Total Alkalinity	99.1				0.709
SM 2540 C-2011	TDS					7.74
SM 4500-F- C-2011	Fluoride	101	102	102		0.470
SM 5310 B-2011	Organic Carbon	95.6	89.1	93.6		3.09

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2352991
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2352991
EPA 200.7 Rev. 4.4	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	2353008
EPA 200.8 Rev. 5.4	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	2353008
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2352991
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2352991
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2352992
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2352992
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2352992
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2352992

Reference Method Descriptions

Method	Description	Associated Samples
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2353005, 2353006, 2353007
EPA 8270E	PCBs in water matrices by GC/MS/MS	2353005, 2353006, 2353007
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2353005, 2353006, 2353007
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2352991
SM 2340 B-2011	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃	2353008
SM 2540 C-2011	Total Dissolved Solids in aqueous matrices	2352991
SM 2540 D-2011	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2352991
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2352991
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2352992

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	08/30/2022			08/30/2022 15:46	Anna M. Plaviak	2352991
EPA 180.1 Rev. 2.0	08/30/2022			08/30/2022 14:35	Chandler E Cox	2352991
EPA 200.7 Rev. 4.4	08/30/2022	09/01/2022 10:15	Megan Whitefoot	09/06/2022 22:27	McKinley C Carter	2353008
EPA 200.8 Rev. 5.4	08/30/2022	09/01/2022 10:15	Megan Whitefoot	09/07/2022 00:00	Emily M Philpot	2353008
	08/30/2022	09/01/2022 10:15	Megan Whitefoot	09/08/2022 05:54	Megan Whitefoot	2353008
EPA 300.0 Rev. 2.1	08/30/2022			09/10/2022 00:41	Anna M. Plaviak	2352991
EPA 350.1 Rev. 2.0	08/30/2022			09/02/2022 11:44	Ping Hua	2352992
EPA 351.2 Rev. 2.0	08/30/2022	09/01/2022 13:42	Samantha L Bates	09/02/2022 15:42	Alexandra J Mattheus	2352992
EPA 353.2 Rev. 2.0	08/30/2022			09/02/2022 11:08	Beverly Y. Sanders	2352992
EPA 365.1 Rev. 2.0	08/30/2022	09/01/2022 15:55	Simonne.V. Calhoun	09/02/2022 11:11	Simonne.V. Calhoun	2352992
EPA 8270E	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 18:54	Vandana T. Nagar	2353005
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 19:23	Vandana T. Nagar	2353006
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 19:53	Vandana T. Nagar	2353007
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 21:43	Julie Wi	2353005
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/06/2022 23:44	Julie Wi	2353006
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 00:14	Julie Wi	2353007
EPA 8276	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 02:35	Arthur Maknenko	2353005
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 10:13	Arthur Maknenko	2353006
	08/30/2022	08/31/2022 08:00	Fe-Val Siddell	09/07/2022 11:10	Arthur Maknenko	2353007
SM 2320 B-2011	08/30/2022			09/08/2022 05:04	Adam P Silver	2352991
SM 2340 B-2011	08/30/2022			09/06/2022 22:27	McKinley C Carter	2353008
SM 2540 C-2011	08/30/2022			09/02/2022 16:08	Yijie Li	2352991
SM 2540 D-2011	08/30/2022			09/02/2022 16:08	Yijie Li	2352991
SM 4500-F- C-2011	08/30/2022			09/08/2022 04:55	Adam P Silver	2352991
SM 5310 B-2011	08/30/2022			09/06/2022 21:17	Khloe J Berg	2352992