

Chemical Analysis Report

SE-DIST-2022-10-11-02

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

Event Description: **SE Okeechobee**
Request ID: **RQ-2022-10-10-52**
Customer: **SE-DIST**
Project ID: **SMP**

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

Date Certified: 31-OCT-2022 11:20



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Farm Canal @ Hwy 98 and SR 717

Collection Date/Time: 10/10/2022 11:05

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361667	EPA 8270E	Aldrin	0.69	U	ng/L	P420651	
		Alpha-BHC	0.11	U	ng/L	P420651	
		Alpha-Chlordane	0.21	U	ng/L	P420651	
		PCB-1016	2.1	U	ng/L	P420651	
		Beta-BHC	0.11	U	ng/L	P420651	
		PCB-1221	2.1	U	ng/L	P420651	
		Beta-Cyfluthrin	1.3	U	ng/L	P420651	
		PCB-1232	2.1	U	ng/L	P420651	
		Bifenthrin	0.53	U	ng/L	P420651	
		PCB-1242	2.1	U	ng/L	P420651	
		Carbophenothion	0.96	U	ng/L	P420651	
		PCB-1248	2.1	U	ng/L	P420651	
		Chlorothalonil	5.5	I	ng/L	P420651	
		PCB-1254	2.1	U	ng/L	P420651	
		Cis-Nonachlor	0.21	U	ng/L	P420651	
		PCB-1260	2.1	U	ng/L	P420651	
		Cypermethrin	1.6	U	ng/L	P420651	
		Dacthal	0.16	U	ng/L	P420651	
		DDD-p,p'	0.27	U	ng/L	P420651	
		DDE-p,p'	0.55	I	ng/L	P420651	
		DDT-p,p'	0.27	U	ng/L	P420651	
		Delta-BHC	0.43	U	ng/L	P420651	
		Deltamethrin	1.3	U	ng/L	P420651	
		Dichlobenil	0.27	U	ng/L	P420651	
		Dicofol	1.3	U	ng/L	P420651	
		Dieldrin	0.68	I	ng/L	P420651	
		Endosulfan I	0.43	U	ng/L	P420651	
		Endosulfan II	0.43	U	ng/L	P420651	
		Endosulfan Sulfate	0.32	UJ	ng/L	P420651	CCV
		Endrin	0.43	U	ng/L	P420651	
		Endrin Aldehyde	0.80	UJ	ng/L	P420651	CCV
		Endrin Ketone	0.43	U	ng/L	P420651	
		Esfenvalerate	0.80	U	ng/L	P420651	
		Ethalfuralin	0.16	U	ng/L	P420651	
		Fenpropathrin	0.27	U	ng/L	P420651	
		Gamma-BHC	0.13	U	ng/L	P420651	
		Gamma-Chlordane	0.21	U	ng/L	P420651	
		Heptachlor	0.21	U	ng/L	P420651	
		Heptachlor Epoxide	0.27	U	ng/L	P420651	
		Hexachlorobenzene**	1.1	U	ng/L	P420651	
		Kepone	5.3	U	ng/L	P420651	
		Lambda-Cyhalothrin	0.80	U	ng/L	P420651	
		Methoprene	0.80	U	ng/L	P420651	
		Methoxychlor	0.32	U	ng/L	P420651	

Field ID: G5SE0091

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361667	EPA 8270E	MGK-264	0.21	U	ng/L	P420651	
		Mirex	0.37	U	ng/L	P420651	
		Oxychlordane	0.32	U	ng/L	P420651	
		Permethrin	1.7	U	ng/L	P420651	
		Phenothrin	0.96	U	ng/L	P420651	
		Piperonyl Butoxide	1.1		ng/L	P420651	
		Prallethrin	2.1	U	ng/L	P420651	
		Tau-Fluvalinate	0.27	U	ng/L	P420651	
		Tetramethrin	0.80	U	ng/L	P420651	
		Trans-Nonachlor	0.21	U	ng/L	P420651	
		Triclosan Methyl	0.16	U	ng/L	P420651	
		Trifluralin	0.21	U	ng/L	P420651	
	EPA 8276	Chlordane	2.7	UJ	ng/L	P420651	SUR
		Toxaphene	16	UJ	ng/L	P420651	SUR

Ref. Method and Comment:

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

EPA 8276: Reported results qualified with J due to surrogate below control limits; the sample was subsequently re-analyzed (after expiration) with acceptable surrogate recovery and the same analytical results were obtained. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: SFWMD C2444 @ Bean City

Collection Date/Time: 10/10/2022 11:50

Field ID: G5SE0029

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361662	DEP SOP: NU-094-1	Color (true)	87		PCU	P420754	
	EPA 180.1 Rev. 2.0	Turbidity	2.1		NTU	P420733	
	EPA 300.0 Rev. 2.1	Chloride	120		mg Cl/L	P421200	
		Sulfate	130		mg SO4/L	P421203	
	SM 2320 B-2011	Total Alkalinity	426		mg CaCO3/L	P421014	
	SM 2540 C-2015	TDS	884		mg/L	P421281	
	SM 2540 D-2015	TSS	46		mg/L	P421277	
	SM 4500-F- C-2011	Fluoride	0.67		mg F/L	P421016	
2361663	EPA 350.1 Rev. 2.0	Ammonia-N	0.24		mg N/L	P420981	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	4.5		mg N/L	P420760	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.12		mg N/L	P420846	
	EPA 365.1 Rev. 2.0	Total-P	0.42		mg P/L	P421427	
	SM 5310 B-2011	Organic Carbon	28		mg C/L	P420966	

Ref. Method and Comment:

SM 4500-F- C-2011: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: West Palm Beach Canal @ Twenty-mile Bend Collection Date/Time: 10/10/2022 12:30

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361668	EPA 8270E	Aldrin	0.66	U	ng/L	P420651	
		Alpha-BHC	0.10	U	ng/L	P420651	
		Alpha-Chlordane	0.20	U	ng/L	P420651	
		PCB-1016	2.0	U	ng/L	P420651	
		Beta-BHC	0.10	U	ng/L	P420651	
		PCB-1221	2.0	U	ng/L	P420651	
		Beta-Cyfluthrin	1.3	U	ng/L	P420651	
		PCB-1232	2.0	U	ng/L	P420651	
		Bifenthrin	0.51	U	ng/L	P420651	
		PCB-1242	2.0	U	ng/L	P420651	
		Carbophenothion	0.92	U	ng/L	P420651	
		PCB-1248	2.0	U	ng/L	P420651	
		Chlorothalonil	4.7	I	ng/L	P420651	
		PCB-1254	2.0	U	ng/L	P420651	
		Cis-Nonachlor	0.20	U	ng/L	P420651	
		PCB-1260	2.0	U	ng/L	P420651	
		Cypermethrin	1.5	U	ng/L	P420651	
		Dacthal	0.15	U	ng/L	P420651	
		DDD-p,p'	0.26	U	ng/L	P420651	
		DDE-p,p'	0.20	U	ng/L	P420651	
		DDT-p,p'	0.26	U	ng/L	P420651	
		Delta-BHC	0.41	U	ng/L	P420651	
		Deltamethrin	1.3	U	ng/L	P420651	
		Dichlobenil	0.26	U	ng/L	P420651	
		Dicofol	1.3	U	ng/L	P420651	
		Dieldrin	0.41	U	ng/L	P420651	
		Endosulfan I	0.41	U	ng/L	P420651	
		Endosulfan II	0.41	U	ng/L	P420651	
		Endosulfan Sulfate	0.31	UJ	ng/L	P420651	CCV
		Endrin	0.41	U	ng/L	P420651	
		Endrin Aldehyde	0.77	UJ	ng/L	P420651	CCV
		Endrin Ketone	0.41	U	ng/L	P420651	
		Esfenvalerate	0.77	U	ng/L	P420651	
		Ethalfuralin	0.15	U	ng/L	P420651	
		Fenpropathrin	0.26	U	ng/L	P420651	
		Gamma-BHC	0.13	U	ng/L	P420651	
		Gamma-Chlordane	0.20	U	ng/L	P420651	
		Heptachlor	0.20	U	ng/L	P420651	
		Heptachlor Epoxide	0.26	U	ng/L	P420651	
		Hexachlorobenzene**	1.0	U	ng/L	P420651	
		Kepone	5.1	U	ng/L	P420651	
		Lambda-Cyhalothrin	0.77	U	ng/L	P420651	
		Methoprene	0.77	U	ng/L	P420651	
		Methoxychlor	0.31	U	ng/L	P420651	

Field ID: G5SE0058

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361668	EPA 8270E	MGK-264	0.20	U	ng/L	P420651	
		Mirex	0.36	U	ng/L	P420651	
		Oxychlordane	0.31	U	ng/L	P420651	
		Permethrin	1.6	U	ng/L	P420651	
		Phenothrin	0.92	U	ng/L	P420651	
		Piperonyl Butoxide	0.38	I	ng/L	P420651	
		Prallethrin	2.0	U	ng/L	P420651	
		Tau-Fluvalinate	0.26	U	ng/L	P420651	
		Tetramethrin	0.77	U	ng/L	P420651	
		Trans-Nonachlor	0.20	U	ng/L	P420651	
		Triclosan Methyl	0.15	U	ng/L	P420651	
		Trifluralin	0.20	U	ng/L	P420651	
	EPA 8276	Chlordane	2.6	U	ng/L	P420651	
		Toxaphene	15	U	ng/L	P420651	

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

Sample Location: WCA1 near culvert

Collection Date/Time: 10/10/2022 13:00

Field ID: G5SE0117

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2361669	EPA 8321B	2,4-D	0.026		ug/L	P420715	
		Acesulfame K	0.10	U	ug/L	P420706	
		2,4,5-T	0.0040	U	ug/L	P420715	
		AMPA	0.10	U	ug/L	P420706	
		Acetaminophen	0.0080	U	ug/L	P420715	
		Acetamiprid	0.0020	U	ug/L	P420715	
		Endothall	0.25	U	ug/L	P420706	
		Glufosinate	0.10	U	ug/L	P420706	
		Glyphosate	0.10	U	ug/L	P420706	
		Afidopyropen	0.0020	U	ug/L	P420715	
		Bentazon	0.056		ug/L	P420715	
		Sucralose	0.083		ug/L	P420706	
		Benzovindiflupyr	0.0020	U	ug/L	P420715	
		Carbamazepine	8.0E-04	U	ug/L	P420715	
		Clothianidin	0.0020	U	ug/L	P420715	
		Dinotefuran	0.0020	U	ug/L	P420715	
		Diuron	0.0020	U	ug/L	P420715	
		Fenuron	0.032	U	ug/L	P420715	
		Fluridone	0.0039		ug/L	P420715	
		Imazapyr	0.12		ug/L	P420715	
		Hydrocodone	0.0020	U	ug/L	P420715	
		Ibuprofen	0.20	U	ug/L	P420715	
		Imidacloprid	0.012		ug/L	P420715	
		Linuron	0.0040	U	ug/L	P420715	
		Mandestrobin	0.0020	U	ug/L	P420715	
		MCPP	0.0040	U	ug/L	P420715	
		Naproxen	0.0080	U	ug/L	P420715	
		Primidone	0.0040	U	ug/L	P420715	
		Pyraclostrobin	0.0020	U	ug/L	P420715	
		Silvex	0.0040	U	ug/L	P420715	
		Thiamethoxam	0.0020	U	ug/L	P420715	
		Tolfenpyrad	0.0020	U	ug/L	P420715	
		Triclopyr	0.0040	U	ug/L	P420715	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: NU-094-1
Batch ID: P420754

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420733

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421200

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421203

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420981

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420760

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420846

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

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

Reference Method: EPA 8270E
Batch ID: P420651

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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420651

Component	Result	Code	Units
Alpha-Chlordane	0.20	U	ng/L
Alpha-Chlordane	0.20	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-BHC	0.10	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Beta-Cyfluthrin	1.2	U	ng/L
Bifenthrin	0.50	U	ng/L
Bifenthrin	0.50	U	ng/L
Carbophenothion	0.90	U	ng/L
Carbophenothion	0.90	U	ng/L
Chlorothalonil	1.2	U	ng/L
Chlorothalonil	1.2	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cis-Nonachlor	0.20	U	ng/L
Cypermethrin	1.5	U	ng/L
Cypermethrin	1.5	U	ng/L
Dacthal	0.15	U	ng/L
Dacthal	0.15	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDD-p,p'	0.25	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDE-p,p'	0.20	U	ng/L
DDT-p,p'	0.25	U	ng/L
DDT-p,p'	0.25	U	ng/L
Delta-BHC	0.40	U	ng/L
Delta-BHC	0.40	U	ng/L
Deltamethrin	1.2	U	ng/L
Deltamethrin	1.2	U	ng/L
Dichlobenil	0.25	U	ng/L
Dichlobenil	0.25	U	ng/L
Dicofol	1.2	U	ng/L
Dicofol	1.2	U	ng/L
Dieldrin	0.40	U	ng/L
Dieldrin	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan I	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan II	0.40	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endosulfan Sulfate	0.30	U	ng/L
Endrin	0.40	U	ng/L
Endrin	0.40	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Aldehyde	0.75	U	ng/L
Endrin Ketone	0.40	U	ng/L
Endrin Ketone	0.40	U	ng/L
Esfenvalerate	0.75	U	ng/L
Esfenvalerate	0.75	U	ng/L
Ethalfuralin	0.15	U	ng/L
Ethalfuralin	0.15	U	ng/L
Fenpropathrin	0.25	U	ng/L
Fenpropathrin	0.25	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420651

Component	Result	Code	Units
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
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

Quality Assurance Report

Method Blank Results

Reference Method: EPA 8270E

Batch ID: P420651

Component	Result	Code	Units
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: P420651

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: EPA 8321B

Batch ID: P420706

Component	Result	Code	Units
Acesulfame K	0.10	U	ug/L
AMPA	0.10	U	ug/L
Endothall	0.25	U	ug/L
Glufosinate	0.10	U	ug/L
Glyphosate	0.10	U	ug/L
Sucralose	0.010	U	ug/L

Reference Method: EPA 8321B

Batch ID: P420715

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
2,4,5-T	0.0040	U	ug/L
Acetaminophen	0.0080	U	ug/L
Acetamiprid	0.0020	U	ug/L
Afidopyropen	0.0020	U	ug/L
Bentazon	8.0E-04	U	ug/L
Benzovindiflupyr	0.0020	U	ug/L
Carbamazepine	8.0E-04	U	ug/L
Clothianidin	0.0020	U	ug/L
Dinotefuran	0.0020	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.032	U	ug/L
Fluridone	8.0E-04	U	ug/L
Hydrocodone	0.0020	U	ug/L
Ibuprofen	0.20	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
Mandestrobin	0.0020	U	ug/L
MCPP	0.0040	U	ug/L
Naproxen	0.0080	U	ug/L
Primidone	0.0040	U	ug/L
Pyraclostrobin	0.0020	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: EPA 8321B
Batch ID: P420715

Component	Result	Code	Units
Silvex	0.0040	U	ug/L
Thiamethoxam	0.0020	U	ug/L
Tolfenpyrad	0.0020	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: SM 2320 B-2011
Batch ID: P421014

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

Reference Method: SM 2540 C-2015
Batch ID: P421281

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-2015
Batch ID: P421277

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500-F- C-2011
Batch ID: P421016

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-2011
Batch ID: P420966

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: P420754

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

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420733

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Turbidity	99.8		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421200

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.4		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421203

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420981

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	96.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420760

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420846

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

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

Reference Method: EPA 8270E
Batch ID: P420651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Aldrin	55.3		P	10 - 92.0
Alpha-BHC	82.4		P	75 - 107
Alpha-Chlordane	77.1		P	50 - 108
Beta-BHC	105		P	36 - 138

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 8270E

Batch ID: P420651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Beta-Cyfluthrin	79.2		P	20 - 161
Bifenthrin	50.4		P	10 - 119
Carbophenothion	58.9		P	19 - 94.0
Chlorothalonil	123		P	26 - 186
Cis-Nonachlor	76.0		P	42 - 119
Cypermethrin	82.7		P	22 - 150
Dacthal	94.5		P	72 - 119
DDD-p,p'	84.2		P	45 - 107
DDE-p,p'	76.6		P	48 - 106
DDT-p,p'	75.2		P	48 - 110
Delta-BHC	109		P	54 - 140
Deltamethrin	96.8		P	22 - 189
Dichlobenil	103		P	36 - 117
Dicofol	81.6		P	46 - 155
Dieldrin	78.8		P	54 - 110
Endosulfan I	77.1		P	59 - 105
Endosulfan II	90.8		P	51 - 118
Endosulfan Sulfate	112		P	57 - 121
Endrin	80.5		P	10 - 120
Endrin Aldehyde	113		P	34 - 118
Endrin Ketone	113		P	69 - 177
Esfenvalerate	65.6		P	23 - 168
Ethalfuralin	73.0		P	49 - 99.0
Fenpropathrin	74.0		P	34 - 117
Gamma-BHC	91.0		P	72 - 117
Gamma-Chlordane	72.3		P	43 - 106
Heptachlor	63.8		P	41 - 98.0
Heptachlor Epoxide	78.0		P	57 - 106
Hexachlorobenzene	65.9		P	36 - 99.0
Kepone	168		P	16 - 215
Lambda-Cyhalothrin	55.2		P	21 - 177
Methoprene	57.8		P	10 - 119
Methoxychlor	73.7		P	60 - 112
MGK-264	103		P	26 - 122
Mirex	56.8		P	10 - 169
Oxychlordane	72.4		P	43 - 105
PCB-1016	78.1		P	48 - 112
PCB-1260	74.3		P	44 - 118
Permethrin	68.1		P	24 - 148
Phenothrin	48.3		P	10 - 106
Piperonyl Butoxide	103		P	10 - 139
Prallethrin	96.7		P	17 - 109
Tau-Fluvalinate	57.2		P	13 - 131
Tetramethrin	125		P	10 - 132
Trans-Nonachlor	74.3		P	44 - 106
Triclosan Methyl	86.4		P	59 - 109
Trifluralin	68.7		P	44 - 101

Reference Method: EPA 8276

Batch ID: P420651

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

Laboratory Control Sample Accuracy

Reference Method: EPA 8276

Batch ID: P420651

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chlordane	69.1		P	61 - 116
Toxaphene	74.9		P	48 - 124

Reference Method: EPA 8321B

Batch ID: P420706

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Acesulfame K	121		P	40 - 150
AMPA	99.8		P	40 - 150
Endothall	96.5		P	40 - 150
Glufosinate	103		P	40 - 150
Glyphosate	103		P	40 - 150
Sucralose	106		P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420715

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	98.8		P	40 - 150
2,4,5-T	75.2		P	40 - 150
Acetaminophen	99.3		P	30 - 150
Acetamiprid	98.1		P	40 - 150
Afidopyropen	75.2		P	30 - 150
Bentazon	109		P	30 - 150
Benzovindiflupyr	93.0		P	40 - 150
Carbamazepine	96.7		P	40 - 150
Clothianidin	105		P	40 - 150
Dinotefuran	110		P	40 - 150
Diuron	89.5		P	40 - 150
Fenuron	113		P	40 - 150
Fluridone	112		P	40 - 150
Hydrocodone	102		P	40 - 150
Ibuprofen	127		P	40 - 150
Imazapyr	123		P	40 - 150
Imidacloprid	116		P	40 - 150
Linuron	84.8		P	40 - 150
Mandestrobin	103		P	40 - 150
MCPP	94.9		P	40 - 150
Naproxen	86.6		P	40 - 150
Primidone	95.6		P	40 - 150
Pyraclostrobin	90.2		P	40 - 150
Silvex	80.3		P	40 - 150
Thiamethoxam	109		P	40 - 150
Tolfenpyrad	46.1		P	30 - 150
Triclopyr	79.0		P	40 - 150

Reference Method: SM 2320 B-2011

Batch ID: P421014

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	101		P	94 - 106

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: SM 2540 C-2015
Batch ID: P421281

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

Reference Method: SM 2540 D-2015
Batch ID: P421277

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
TSS	99.8		P	85 - 106

Reference Method: SM 4500-F- C-2011
Batch ID: P421016

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	102		P	96 - 104

Reference Method: SM 5310 B-2011
Batch ID: P420966

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	99.1		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421200

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361682	Chloride	95.5		P	90 - 110
2361753	Chloride	96.6		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421203

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361682	Sulfate	96.9		P	90 - 110
2361753	Sulfate	97.9		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420981

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361684	Ammonia-N	105	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420760

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361337	Kjeldahl Nitrogen	96.9	97.4	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420846

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361719	NO2NO3-N	100	98.5	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2364125	Total-P	105	106	P/P	90 - 110

Reference Method: EPA 8270E
Batch ID: P420651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361174	Aldrin	53.8	54.3	P/P	20 - 82.0
2361174	Alpha-BHC	74.7	79.8	P/P	71 - 109
2361174	Alpha-Chlordane	82.5	83.8	P/P	42 - 106
2361174	Beta-BHC	111	112	P/P	69 - 180
2361174	Beta-Cyfluthrin	89.2	82.1	P/P	18 - 175
2361174	Bifenthrin	63.3	64.0	P/P	21 - 128
2361174	Carbophenothion	54.4	56.6	P/P	10 - 126
2361174	Chlorothalonil	180	147	P/P	10 - 300
2361174	Cis-Nonachlor	67.6	67.3	P/P	34 - 106
2361174	Cypermethrin	103	91.3	P/P	22 - 158
2361174	Dacthal	83.7	83.4	P/P	54 - 116
2361174	DDD-p,p'	72.1	70.5	P/P	34 - 107
2361174	DDE-p,p'	67.3	70.2	P/P	33 - 110
2361174	DDT-p,p'	68.8	68.9	P/P	50 - 122

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8270E

Batch ID: P420651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361174	Delta-BHC	128	120	P/P	77 - 193
2361174	Deltamethrin	113	107	P/P	10 - 195
2361174	Dichlobenil	77.3	75.4	P/P	25 - 113
2361174	Dicofol	77.2	74.3	P/P	38 - 247
2361174	Dieldrin	61.1	62.6	P/P	45 - 118
2361174	Endosulfan I	74.3	72.1	P/P	51 - 106
2361174	Endosulfan II	76.4	77.6	P/P	37 - 122
2361174	Endosulfan Sulfate	105	101	P/P	43 - 132
2361174	Endrin	72.4	73.1	P/P	29 - 101
2361174	Endrin Aldehyde	96.7	97.0	P/P	19 - 110
2361174	Endrin Ketone	97.9	95.7	P/P	60 - 140
2361174	Esfenvalerate	91.8	82.4	P/P	26 - 199
2361174	Ethalfuralin	66.5	65.2	P/P	45 - 99.0
2361174	Fenpropathrin	73.0	73.8	P/P	35 - 120
2361174	Gamma-BHC	88.2	92.7	P/P	63 - 128
2361174	Gamma-Chlordane	69.9	69.8	P/P	40 - 104
2361174	Heptachlor	61.9	59.5	P/P	36 - 97.0
2361174	Heptachlor Epoxide	71.9	71.5	P/P	49 - 184
2361174	Hexachlorobenzene	63.6	64.2	P/P	39 - 96.0
2361174	Kepone	160	160	P/P	10 - 217
2361174	Lambda-Cyhalothrin	72.7	72.1	P/P	21 - 193
2361174	Methoprene	65.8	63.2	P/P	20 - 106
2361174	Methoxychlor	61.9	66.9	P/P	53 - 118
2361174	MGK-264	88.3	88.2	P/P	40 - 118
2361174	Mirex	65.2	62.7	P/P	26 - 92.0
2361174	Oxychlordane	72.6	72.7	P/P	44 - 99.0
2361174	Permethrin	77.1	77.9	P/P	33 - 182
2361174	Phenothrin	55.1	55.7	P/P	10 - 129
2361174	Piperonyl Butoxide	92.1	89.3	P/P	10 - 211
2361174	Prallethrin	88.5	91.0	P/P	24 - 113
2361174	Tau-Fluvalinate	87.7	82.1	P/P	14 - 149
2361174	Tetramethrin	137	136	P/P	17 - 151
2361174	Trans-Nonachlor	68.4	72.3	P/P	42 - 102
2361174	Triclosan Methyl	75.8	75.5	P/P	48 - 108
2361174	Trifluralin	65.0	65.7	P/P	47 - 96.0
2361667	PCB-1016	80.0	88.2	P/P	46 - 111
2361667	PCB-1260	79.3	88.4	P/P	45 - 114

Reference Method: EPA 8276

Batch ID: P420651

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361667	Chlordane	59.3	63.4	P/P	53 - 126
2361667	Toxaphene	80.3	87.9	P/P	56 - 211

Reference Method: EPA 8321B

Batch ID: P420706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361348	Acesulfame K	109	109	P/P	40 - 150
2361348	AMPA	80.6	82.7	P/P	40 - 150
2361348	Endothall	97.3	98.5	P/P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 8321B

Batch ID: P420706

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361348	Glufosinate	82.6	86.9	P/P	40 - 150
2361348	Glyphosate	98.0	93.4	P/P	40 - 150
2361348	Sucralose	100	104	P/P	40 - 150

Reference Method: EPA 8321B

Batch ID: P420715

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361348	2,4-D	123	105	P/P	40 - 150
2361348	2,4,5-T	81.4	68.8	P/P	40 - 150
2361348	Acetaminophen	107	99.1	P/P	30 - 150
2361348	Acetamiprid	103	95.4	P/P	40 - 150
2361348	Afidopyropen	80.6	75.2	P/P	30 - 150
2361348	Bentazon	102	93.8	P/P	30 - 150
2361348	Benzovindiflupyr	100	89.7	P/P	40 - 150
2361348	Carbamazepine	97.8	93.4	P/P	40 - 150
2361348	Clothianidin	112	101	P/P	40 - 150
2361348	Dinotefuran	124	111	P/P	40 - 150
2361348	Diuron	93.1	85.7	P/P	40 - 150
2361348	Fenuron	116	104	P/P	40 - 150
2361348	Fluridone	109	106	P/P	40 - 150
2361348	Hydrocodone	107	102	P/P	40 - 150
2361348	Ibuprofen	95.1	92.8	P/P	40 - 150
2361348	Imazapyr	137	121	P/P	40 - 150
2361348	Imidacloprid	134	131	P/P	40 - 150
2361348	Linuron	88.5	81.0	P/P	40 - 150
2361348	Mandestrobin	111	95.8	P/P	40 - 150
2361348	MCP	104	89.4	P/P	40 - 150
2361348	Naproxen	102	87.1	P/P	40 - 150
2361348	Primidone	101	94.0	P/P	40 - 150
2361348	Pyraclostrobin	96.5	90.3	P/P	40 - 150
2361348	Silvex	90.5	78.1	P/P	40 - 150
2361348	Thiamethoxam	119	108	P/P	40 - 150
2361348	Tolfenpyrad	58.8	56.2	P/P	30 - 150
2361348	Triclopyr	86.8	71.0	P/P	40 - 150

Reference Method: SM 5310 B-2011

Batch ID: P420966

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2361686	Organic Carbon	102	103	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: DEP SOP: NU-094-1
Batch ID: P420754

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361415	Color (true)	2.68	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P420733

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361354	Turbidity	1.33	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421200

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361682	Chloride	0.0543	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P421203

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361682	Sulfate	0.222	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P420981

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361684	Ammonia-N	3.22	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P420760

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361337	Kjeldahl Nitrogen	0.449	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P420846

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361719	NO2NO3-N	0.957	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P421427

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2364125	Total-P	0.245	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 8270E
Batch ID: P420651

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361174	Aldrin	0.945	Spike	P	0 - 41
2361174	Alpha-BHC	6.59	Spike	P	0 - 25
2361174	Alpha-Chlordane	1.54	Spike	P	0 - 33
2361174	Beta-BHC	0.254	Spike	P	0 - 36
2361174	Beta-Cyfluthrin	8.24	Spike	P	0 - 42
2361174	Bifenthrin	1.15	Spike	P	0 - 53
2361174	Carbophenothion	4.03	Spike	P	0 - 30
2361174	Chlorothalonil	17.6	Spike	P	0 - 71
2361174	Cis-Nonachlor	0.429	Spike	P	0 - 29
2361174	Cypermethrin	10.3	Spike	P	0 - 40
2361174	Dacthal	0.286	Spike	P	0 - 26
2361174	DDD-p,p'	2.33	Spike	P	0 - 39
2361174	DDE-p,p'	4.27	Spike	P	0 - 33
2361174	DDT-p,p'	0.180	Spike	P	0 - 40
2361174	Delta-BHC	6.51	Spike	P	0 - 37
2361174	Deltamethrin	5.61	Spike	P	0 - 100
2361174	Dichlobenil	2.38	Spike	P	0 - 40
2361174	Dicofol	3.81	Spike	P	0 - 31
2361174	Dieldrin	1.43	Spike	P	0 - 27
2361174	Endosulfan I	2.96	Spike	P	0 - 23
2361174	Endosulfan II	1.51	Spike	P	0 - 28
2361174	Endosulfan Sulfate	3.66	Spike	P	0 - 38
2361174	Endrin	0.989	Spike	P	0 - 63
2361174	Endrin Aldehyde	0.242	Spike	P	0 - 60
2361174	Endrin Ketone	2.23	Spike	P	0 - 37
2361174	Esfenvalerate	10.7	Spike	P	0 - 52
2361174	Ethalfuralin	2.03	Spike	P	0 - 23
2361174	Fenpropathrin	1.12	Spike	P	0 - 32
2361174	Gamma-BHC	4.94	Spike	P	0 - 17
2361174	Gamma-Chlordane	0.134	Spike	P	0 - 40
2361174	Heptachlor	3.91	Spike	P	0 - 29
2361174	Heptachlor Epoxide	0.560	Spike	P	0 - 25
2361174	Hexachlorobenzene	0.970	Spike	P	0 - 36
2361174	Kepone	0.153	Spike	P	0 - 93
2361174	Lambda-Cyhalothrin	0.818	Spike	P	0 - 55
2361174	Methoprene	4.05	Spike	P	0 - 53
2361174	Methoxychlor	7.80	Spike	P	0 - 29
2361174	MGK-264	0.197	Spike	P	0 - 35
2361174	Mirex	3.83	Spike	P	0 - 46
2361174	Oxychlordane	0.153	Spike	P	0 - 29
2361174	Permethrin	1.05	Spike	P	0 - 44
2361174	Phenothrin	1.17	Spike	P	0 - 56
2361174	Piperonyl Butoxide	3.12	Spike	P	0 - 100
2361174	Prallethrin	2.72	Spike	P	0 - 42
2361174	Tau-Fluvalinate	6.57	Spike	P	0 - 54
2361174	Tetramethrin	0.752	Spike	P	0 - 51
2361174	Trans-Nonachlor	5.43	Spike	P	0 - 37
2361174	Triclosan Methyl	0.304	Spike	P	0 - 31
2361174	Trifluralin	0.971	Spike	P	0 - 30
2361667	PCB-1016	9.66	Spike	P	0 - 32
2361667	PCB-1260	10.8	Spike	P	0 - 31

Quality Assurance Report Precision

Reference Method: EPA 8276

Batch ID: P420651

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361667	Chlordane	6.76	Spike	P	0 - 25
2361667	Toxaphene	9.05	Spike	P	0 - 26

Reference Method: EPA 8321B

Batch ID: P420706

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361348	Acesulfame K	0.773	Spike	P	0 - 30
2361348	AMPA	2.64	Spike	P	0 - 30
2361348	Endothall	1.25	Spike	P	0 - 30
2361348	Glufosinate	5.14	Spike	P	0 - 30
2361348	Glyphosate	4.80	Spike	P	0 - 30
2361348	Sucralose	3.59	Spike	P	0 - 30

Reference Method: EPA 8321B

Batch ID: P420715

Replicated

Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361348	2,4-D	16.0	Spike	P	0 - 30
2361348	2,4,5-T	16.7	Spike	P	0 - 30
2361348	Acetaminophen	7.70	Spike	P	0 - 30
2361348	Acetamiprid	7.84	Spike	P	0 - 30
2361348	Afidopyropen	7.01	Spike	P	0 - 30
2361348	Bentazon	8.55	Spike	P	0 - 30
2361348	Benzovindiflupyr	11.1	Spike	P	0 - 30
2361348	Carbamazepine	4.60	Spike	P	0 - 30
2361348	Clothianidin	9.80	Spike	P	0 - 30
2361348	Dinotefuran	10.9	Spike	P	0 - 30
2361348	Diuron	8.30	Spike	P	0 - 30
2361348	Fenuron	10.2	Spike	P	0 - 30
2361348	Fluridone	2.33	Spike	P	0 - 30
2361348	Hydrocodone	5.30	Spike	P	0 - 30
2361348	Ibuprofen	2.37	Spike	P	0 - 30
2361348	Imazapyr	13.0	Spike	P	0 - 30
2361348	Imidacloprid	2.17	Spike	P	0 - 30
2361348	Linuron	8.93	Spike	P	0 - 30
2361348	Mandestrobin	14.5	Spike	P	0 - 30
2361348	MCPP	15.3	Spike	P	0 - 30
2361348	Naproxen	15.8	Spike	P	0 - 30
2361348	Primidone	6.89	Spike	P	0 - 30
2361348	Pyraclostrobin	6.64	Spike	P	0 - 30
2361348	Silvex	14.7	Spike	P	0 - 30
2361348	Thiamethoxam	9.70	Spike	P	0 - 30
2361348	Tolfenpyrad	4.46	Spike	P	0 - 30
2361348	Triclopyr	19.9	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: SM 2320 B-2011
Batch ID: P421014

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361910	Total Alkalinity	0.403	Sample	P	0 - 3.8

Reference Method: SM 2540 C-2015
Batch ID: P421281

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361335	TDS	6.28	Sample	P	0 - 10

Reference Method: SM 2540 D-2015
Batch ID: P421277

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361335	TSS	5.83	Sample	P	0 - 10

Reference Method: SM 4500-F- C-2011
Batch ID: P421016

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361910	Fluoride	0.0	Spike	P	0 - 1.6

Reference Method: SM 5310 B-2011
Batch ID: P420966

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2361686	Organic Carbon	0.327	Spike	P	0 - 20

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

Quality Assurance Report Surrogates

Lab Sample ID: 2361667
Field Sample ID: G5SE0091

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	82.8	P	29 - 130
EPA 8270E	Decachlorobiphenyl	67.3	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	65.3	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	54.1	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	27.2	F	30 - 101
EPA 8276	Decachlorobiphenyl	66.9	P	30 - 101
EPA 8276	PCNB	93.4	P	48 - 121
EPA 8276	PCNB	95.8	P	48 - 121

Lab Sample ID: 2361668
Field Sample ID: G5SE0058

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8270E	Decachlorobiphenyl	79.4	P	29 - 130
EPA 8270E	Decachlorobiphenyl	62.0	P	30 - 118
EPA 8270E	Tetrachloro-m-xylene	57.6	P	29 - 104
EPA 8270E	Tetrachloro-m-xylene	55.4	P	30 - 97.0
EPA 8276	Decachlorobiphenyl	32.7	P	30 - 101
EPA 8276	PCNB	86.9	P	48 - 121

Lab Sample ID: 2361669
Field Sample ID: G5SE0117

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	92.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	100	P	30 - 160
EPA 8321B	Carbamazepine-d10	59.9	P	30 - 160
EPA 8321B	Diuron-d6	46.8	P	30 - 160
EPA 8321B	Endothall-d6	118	P	30 - 160
EPA 8321B	Glyphosate 13C 15N	83.1	P	30 - 160
EPA 8321B	Ibuprofen-d3	56.9	P	30 - 160
EPA 8321B	Primidone-d5	94.7	P	30 - 160
EPA 8321B	Sucralose-d6	93.9	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A115227

Included Lab Sample IDs: 2361662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	99.0	P/P	95 - 105

Reference Method: DEP SOP: NU-094-1

Run ID: A115238

Included Lab Sample IDs: 2361662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	100	98.7	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115266

Included Lab Sample IDs: 2361669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
AMPA	109	110	P/P	60 - 160
Endothall	110	103	P/P	60 - 160
Glufosinate	99.4	97.3	P/P	60 - 160
Glyphosate	110	112	P/P	60 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A115269

Included Lab Sample IDs: 2361663

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A115281

Included Lab Sample IDs: 2361663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	93.2	90.4	P/P	90 - 110

Reference Method: EPA 8270E

Run ID: A115301

Included Lab Sample IDs: 2361667, 2361668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Aldrin	93.7		P	80 - 120
Alpha-BHC	95.0		P	80 - 120
Alpha-Chlordane	94.3		P	80 - 120
Beta-BHC	103		P	80 - 120
Beta-Cyfluthrin	114		P	80 - 120
Bifenthrin	107		P	80 - 120
Carbophenothion	107		P	80 - 120
Chlorothalonil	107		P	80 - 120
Cis-Nonachlor	99.7		P	80 - 120
Cypermethrin	117		P	80 - 120
Dacthal	103		P	80 - 120
DDD-p,p'	99.0		P	80 - 120
DDE-p,p'	96.2		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8270E

Run ID: A115301

Included Lab Sample IDs: 2361667, 2361668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
DDT-p,p'	97.3		P	80 - 120
Delta-BHC	106		P	80 - 120
Deltamethrin	110		P	80 - 120
Dichlobenil	113		P	80 - 120
Dicofol	94.4		P	80 - 120
Dieldrin	97.1		P	80 - 120
Endosulfan I	90.0		P	80 - 120
Endosulfan II	104		P	80 - 120
Endosulfan Sulfate	123*		F	80 - 120
Endrin	98.0		P	80 - 120
Endrin Aldehyde	125*		F	80 - 120
Endrin Ketone	108		P	80 - 120
Esfenvalerate	104		P	80 - 120
Ethalfuralin	99.1		P	80 - 120
Fenpropathrin	108		P	80 - 120
Gamma-BHC	99.4		P	80 - 120
Gamma-Chlordane	98.7		P	80 - 120
Heptachlor	99.9		P	80 - 120
Heptachlor Epoxide	99.0		P	80 - 120
Hexachlorobenzene	101		P	80 - 120
Kepone	117		P	80 - 120
Lambda-Cyhalothrin	104		P	80 - 120
Methoprene	94.8		P	80 - 120
Methoxychlor	90.7		P	80 - 120
MGK-264	101		P	80 - 120
Mirex	103		P	80 - 120
Oxychlordane	93.4		P	80 - 120
Permethrin	104		P	80 - 120
Phenothrin	93.2		P	80 - 120
Piperonyl Butoxide	93.1		P	80 - 120
Prallethrin	105		P	80 - 120
Tau-Fluvalinate	116		P	80 - 120
Tetramethrin	120		P	80 - 120
Trans-Nonachlor	93.4		P	80 - 120
Triclosan Methyl	95.6		P	80 - 120
Trifluralin	102		P	80 - 120

Reference Method: EPA 8321B

Run ID: A115305

Included Lab Sample IDs: 2361669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Acesulfame K	115	113	P/P	60 - 160
Sucralose	103	104	P/P	60 - 160

Reference Method: EPA 8276

Run ID: A115329

Included Lab Sample IDs: 2361667, 2361668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chlordane	99.3		P	80 - 120

Quality Assurance Report Calibration Verification

Reference Method: EPA 8276

Run ID: A115329

Included Lab Sample IDs: 2361667, 2361668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Toxaphene	105		P	80 - 120

Reference Method: SM 5310 B-2011

Run ID: A115336

Included Lab Sample IDs: 2361663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	98.7	101	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A115343

Included Lab Sample IDs: 2361669

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	98.2	106	P/P	50 - 150
2,4,5-T	111	114	P/P	50 - 150
Acetaminophen	98.6	97.9	P/P	60 - 160
Acetamiprid	104	108	P/P	50 - 150
Afidopyropen	114	93.3	P/P	50 - 150
Bentazon	116	123	P/P	50 - 160
Benzovindiflupyr	113	111	P/P	50 - 150
Carbamazepine	106	112	P/P	60 - 150
Clothianidin	109	107	P/P	60 - 150
Dinotefuran	105	99.5	P/P	50 - 150
Diuron	120	113	P/P	60 - 160
Fenuron	102	102	P/P	60 - 150
Fluridone	109	115	P/P	60 - 160
Hydrocodone	102	109	P/P	60 - 150
Ibuprofen	99.7	86.2	P/P	50 - 160
Imazapyr	116	118	P/P	50 - 150
Imidacloprid	97.9	104	P/P	60 - 150
Linuron	110	109	P/P	60 - 150
Mandestrobin	115	111	P/P	50 - 150
MCPP	114	111	P/P	50 - 150
Naproxen	121	142	P/P	50 - 160
Primidone	104	107	P/P	60 - 150
Pyraclostrobin	110	109	P/P	60 - 150
Silvex	99.3	109	P/P	50 - 150
Thiamethoxam	104	111	P/P	50 - 150
Tolfenpyrad	102	101	P/P	60 - 150
Triclopyr	113	122	P/P	50 - 150

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A115344

Included Lab Sample IDs: 2361663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	96.9	96.5	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-2011

Run ID: A115358

Included Lab Sample IDs: 2361662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	99.9	96.0	P/P	90 - 110

Reference Method: SM 4500-F- C-2011

Run ID: A115358

Included Lab Sample IDs: 2361662

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

Reference Method: EPA 8270E

Run ID: A115373

Included Lab Sample IDs: 2361667, 2361668

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
PCB-1016	102		P	80 - 120
PCB-1260	96.1		P	80 - 120

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A115395

Included Lab Sample IDs: 2361662

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	97.4	97.8	P/P	90 - 110
Sulfate	98.2	99.3	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A115568

Included Lab Sample IDs: 2361663

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.2	P/P	90 - 110

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

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

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: NU-094-1	Color (true)	100				2.68	
EPA 180.1 Rev. 2.0	Turbidity	99.8				1.33	
EPA 300.0 Rev. 2.1	Chloride	95.4	95.5	96.6		0.0543	
	Sulfate	98.1	96.9	97.9		0.222	
EPA 350.1 Rev. 2.0	Ammonia-N	96.0	105	101			3.22
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	98.5	96.9	97.4			0.449
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	101	100	98.5			0.957
EPA 365.1 Rev. 2.0	Total-P	102	105	106			0.245
EPA 8270E	Aldrin	55.3	53.8	54.3			0.945
	Alpha-BHC	82.4	74.7	79.8			6.59
	Alpha-Chlordane	77.1	82.5	83.8			1.54
	Beta-BHC	105	111	112			0.254
	Beta-Cyfluthrin	79.2	89.2	82.1			8.24
	Bifenthrin	50.4	63.3	64.0			1.15
	Carbophenothion	58.9	54.4	56.6			4.03
	Chlorothalonil	123	180	147			17.6
	Cis-Nonachlor	76.0	67.6	67.3			0.429
	Cypermethrin	82.7	103	91.3			10.3
	Dacthal	94.5	83.7	83.4			0.286
	DDD-p,p'	84.2	72.1	70.5			2.33
	DDE-p,p'	76.6	67.3	70.2			4.27
	DDT-p,p'	75.2	68.8	68.9			0.180
	Delta-BHC	109	128	120			6.51
	Deltamethrin	96.8	113	107			5.61
	Dichlobenil	103	77.3	75.4			2.38
	Dicofol	81.6	77.2	74.3			3.81
	Dieldrin	78.8	61.1	62.6			1.43
	Endosulfan I	77.1	74.3	72.1			2.96
	Endosulfan II	90.8	76.4	77.6			1.51
	Endosulfan Sulfate	112	105	101			3.66
	Endrin	80.5	72.4	73.1			0.989
	Endrin Aldehyde	113	96.7	97.0			0.242
	Endrin Ketone	113	97.9	95.7			2.23
	Esfenvalerate	65.6	91.8	82.4			10.7
	Ethalfuralin	73.0	66.5	65.2			2.03
	Fenpropathrin	74.0	73.0	73.8			1.12
	Gamma-BHC	91.0	88.2	92.7			4.94
	Gamma-Chlordane	72.3	69.9	69.8			0.134
	Heptachlor	63.8	61.9	59.5			3.91
	Heptachlor Epoxide	78.0	71.9	71.5			0.560
	Hexachlorobenzene	65.9	63.6	64.2			0.970
	Kepone	168	160	160			0.153
	Lambda-Cyhalothrin	55.2	72.7	72.1			0.818
	Methoprene	57.8	65.8	63.2			4.05
	Methoxychlor	73.7	61.9	66.9			7.80
	MGK-264	103	88.3	88.2			0.197
	Mirex	56.8	65.2	62.7			3.83
	Oxychlordane	72.4	72.6	72.7			0.153
	PCB-1016	78.1	80.0	88.2			9.66
	PCB-1260	74.3	79.3	88.4			10.8
	Permethrin	68.1	77.1	77.9			1.05
	Phenothrin	48.3	55.1	55.7			1.17
	Piperonyl Butoxide	103	92.1	89.3			3.12
	Prallethrin	96.7	88.5	91.0			2.72

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision LCS	SMP	MS
EPA 8270E	Tau-Fluvalinate	57.2	87.7	82.1			6.57
	Tetramethrin	125	137	136			0.752
	Trans-Nonachlor	74.3	68.4	72.3			5.43
	Triclosan Methyl	86.4	75.8	75.5			0.304
	Trifluralin	68.7	65.0	65.7			0.971
EPA 8276	Chlordane	69.1	59.3	63.4			6.76
	Toxaphene	74.9	80.3	87.9			9.05
EPA 8321B	2,4-D	98.8	123	105			16.0
	2,4,5-T	75.2	81.4	68.8			16.7
	Acesulfame K	121	109	109			0.773
	Acetaminophen	99.3	107	99.1			7.70
	Acetamiprid	98.1	103	95.4			7.84
	Afidopyropen	75.2	80.6	75.2			7.01
	AMPA	99.8	80.6	82.7			2.64
	Bentazon	109	102	93.8			8.55
	Benzovindiflupyr	93.0	100	89.7			11.1
	Carbamazepine	96.7	97.8	93.4			4.60
	Clothianidin	105	112	101			9.80
	Dinotefuran	110	124	111			10.9
	Diuron	89.5	93.1	85.7			8.30
	Endothall	96.5	97.3	98.5			1.25
	Fenuron	113	116	104			10.2
	Fluridone	112	109	106			2.33
	Glufosinate	103	82.6	86.9			5.14
	Glyphosate	103	98.0	93.4			4.80
	Hydrocodone	102	107	102			5.30
	Ibuprofen	127	95.1	92.8			2.37
	Imazapyr	123	137	121			13.0
	Imidacloprid	116	134	131			2.17
	Linuron	84.8	88.5	81.0			8.93
	Mandestrobin	103	111	95.8			14.5
	MCPP	94.9	104	89.4			15.3
	Naproxen	86.6	102	87.1			15.8
	Primidone	95.6	101	94.0			6.89
	Pyraclostrobin	90.2	96.5	90.3			6.64
	Silvex	80.3	90.5	78.1			14.7
	Sucralose	106	100	104			3.59
	Thiamethoxam	109	119	108			9.70
	Tolfenpyrad	46.1	58.8	56.2			4.46
	Triclopyr	79.0	86.8	71.0			19.9
SM 2320 B-2011	Total Alkalinity	101				0.403	
SM 2540 C-2015	TDS	101				6.28	
SM 2540 D-2015	TSS	99.8				5.83	
SM 4500-F- C-2011	Fluoride	102					0.0
SM 5310 B-2011	Organic Carbon	99.1	102	103			0.327

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: NU-094-1	True Color measured at 450 nm (not valid for NPDES monitoring)	2361662
EPA 180.1 Rev. 2.0	Turbidity in aqueous matrices	2361662
EPA 300.0 Rev. 2.1	Chloride in aqueous matrices	2361662
EPA 300.0 Rev. 2.1	Sulfate in aqueous matrices	2361662

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2361663
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2361663
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2361663
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2361663
EPA 8270E	Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS	2361667, 2361668
EPA 8270E	PCBs in water matrices by GC/MS/MS	2361667, 2361668
EPA 8276	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	2361667, 2361668
EPA 8321B	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	2361669
SM 2320 B-2011	Alkalinity in aqueous matrices as mg CaCO ₃ /L	2361662
SM 2540 C-2015	Total Dissolved Solids in aqueous matrices	2361662
SM 2540 D-2015	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	2361662
SM 4500-F- C-2011	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	2361662
SM 5310 B-2011	Nonpurgeable Organic Carbon in aqueous matrices	2361663

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	10/11/2022			10/11/2022 15:58	Anna M. Plaviak	2361662
EPA 180.1 Rev. 2.0	10/11/2022			10/11/2022 13:49	Chandler E Cox	2361662
EPA 300.0 Rev. 2.1	10/11/2022			10/19/2022 17:48	Anna M. Plaviak	2361662
EPA 350.1 Rev. 2.0	10/11/2022			10/17/2022 12:12	Judith K. Clark	2361663
EPA 351.2 Rev. 2.0	10/11/2022	10/12/2022 12:56	Samantha L Bates	10/13/2022 13:03	Samantha L Bates	2361663
EPA 353.2 Rev. 2.0	10/11/2022			10/13/2022 09:57	Beverly Y. Sanders	2361663
EPA 365.1 Rev. 2.0	10/11/2022	10/26/2022 15:16	Adam P Silver	10/27/2022 12:25	Simonne.V. Calhoun	2361663
EPA 8270E	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/13/2022 20:12	Vandana T. Nagar	2361667
	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/13/2022 20:42	Vandana T. Nagar	2361668
	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/18/2022 20:11	Michael Poppell	2361667
	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/18/2022 22:13	Michael Poppell	2361668
EPA 8276	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/14/2022 07:43	Arthur Maknenko	2361667
	10/11/2022	10/12/2022 08:30	Rasheda Ghaffari	10/14/2022 11:32	Arthur Maknenko	2361668
EPA 8321B	10/11/2022	10/12/2022 10:00	Umesh Chiluwal	10/12/2022 13:16	Umesh Chiluwal	2361669
	10/11/2022	10/12/2022 10:00	Umesh Chiluwal	10/13/2022 14:13	Umesh Chiluwal	2361669
	10/11/2022	10/13/2022 10:30	June Rhew	10/14/2022 16:40	Juyoung Kim	2361669
SM 2320 B-2011	10/11/2022			10/14/2022 02:43	Dale L. Simmons	2361662
SM 2540 C-2015	10/11/2022			10/13/2022 16:08	Yijie Li	2361662
SM 2540 D-2015	10/11/2022			10/13/2022 16:08	Yijie Li	2361662
SM 4500-F- C-2011	10/11/2022			10/14/2022 02:43	Dale L. Simmons	2361662
SM 5310 B-2011	10/11/2022			10/14/2022 11:07	Khloe J Berg	2361663