

Chemical Analysis Report

CEN-DIST-2018-03-01-02

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **Six / Soldier / LWR / LW(w) / Gee / How / Bear**

Request ID: **RQ-2018-02-26-63**

Customer: **CEN-DIST**

Project ID: **SMP**

Send Reports to:

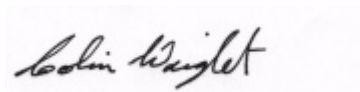
FL Dept. of Environmental Protection
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3319 Maguire Blvd., Suite 232
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Attn: Mike Linger

For additional information please contact

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Certified by: Colin Wright, Program Administrator

Date Certified: 16-MAR-2018 11:26



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 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: HOWELL CREEK @ US OF LAKE HOWELL LN **Collection Date/Time: 02/28/2018 09:34**

Field ID: G2CE0138

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970989	EPA 8321B	2,4-D	0.011		ug/L	P340782	
		Sucralose**	0.39		ug/L	P340834	
		Bentazon	0.016		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0020	U	ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0040	U	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.013	I	ug/L	P340782	MS
		Carbamazepine**	4.0E-04	U	ug/L	P340782	
		Fluridone**	0.020		ug/L	P340782	

Ref. Method and Comment:
 EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: HOWELL CREEK @ 150M US OF LAKE HOWELL **Collection Date/Time: 02/28/2018 09:47**

Field ID: G2CE0072

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970990	EPA 8321B	2,4-D	0.011		ug/L	P340782	
		Sucralose**	0.34		ug/L	P340834	
		Bentazon	0.017		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0020	U	ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0040	U	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.011	I	ug/L	P340782	MS
		Carbamazepine**	7.2E-04	I	ug/L	P340782	
		Fluridone**	0.017		ug/L	P340782	

Ref. Method and Comment:
 EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: BEAR CRK JUST NORTH OF WINTER SPRINGS BLVD IN BEAR CRK PAR **Collection Date/Time: 02/28/2018 10:14**

Field ID: G2CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970942	EPA 180.1 Rev. 2.0	Turbidity	2.3		NTU	P340810	
	EPA 300.0 Rev. 2.1	Chloride	35		mg Cl/L	P341032	

Field ID: G2CE0069

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970942	EPA 300.0 Rev. 2.1	Sulfate	12		mg SO4/L	P341033	
	SM 2120 B	Color (true)	77		PCU	P340815	
	SM 2320 B-97	Total Alkalinity	85		mg CaCO3/L	P341245	
	SM 2540 C-97	TDS	189		mg/L	P341152	
	SM 2540 D-97	TSS	2	I	mg/L	P340935	
	SM 4500 F-C-97	Fluoride	0.12		mg F/L	P341248	
1970944	EPA 350.1 Rev. 2.0	Ammonia-N	0.033		mg N/L	P340971	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.48		mg N/L	P340828	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.19		mg N/L	P340887	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P340868	
	SM 5310 B-00	Organic Carbon	12		mg C/L	P340979	
1970946	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.078		mg P/L	P340821	

Ref. Method and Comment:

SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.

EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: GEE CREEK @ SR HWY 419

Collection Date/Time: 02/28/2018 10:36

Field ID: G2CE0075

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970983	EPA 8321B	2,4-D	0.0020	U	ug/L	P340782	
		Sucralose**	2.5		ug/L	P340834	
		Bentazon	0.043		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0086		ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0071	I	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.066		ug/L	P340782	MS
		Carbamazepine**	0.0026		ug/L	P340782	
		Fluridone**	0.014		ug/L	P340782	

Ref. Method and Comment:

EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: GEE CREEK @ ALTON RD.

Collection Date/Time: 02/28/2018 10:47

Field ID: G2CE0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970984	EPA 8321B	2,4-D	0.0020	U	ug/L	P340782	
		Sucralose**	1.8		ug/L	P340834	
		Bentazon	0.010		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0065	I	ug/L	P340782	

Field ID: G2CE0161

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970984	EPA 8321B	Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0069	I	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.048		ug/L	P340782	MS
		Carbamazepine**	0.0035		ug/L	P340782	
		Fluridone**	0.024		ug/L	P340782	

Ref. Method and Comment:

EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: SOLDIER CREEK @ JUST DOWNSTREAM OF SR HWY 419 **Collection Date/Time: 02/28/2018 11:11**

Field ID: G2CE0162

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970987	EPA 8321B	2,4-D	0.075		ug/L	P340782	
		Sucralose**	3.8		ug/L	P340834	
		Bentazon	0.039		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0082		ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0059	I	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.21		ug/L	P340782	MS
		Carbamazepine**	0.0079		ug/L	P340782	
		Fluridone**	0.0060		ug/L	P340782	

Ref. Method and Comment:

EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: SOLDIER CREEK @ 150M UPSTREAM OF SR HWY 419 **Collection Date/Time: 02/28/2018 11:20**

Field ID: G2CE0071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970988	EPA 8321B	2,4-D	0.088		ug/L	P340782	
		Sucralose**	3.8		ug/L	P340834	
		Bentazon	0.039		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0078	I	ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.010	I	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	

Field ID: G2CE0071

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970988	EPA 8321B	Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.20		ug/L	P340782	MS
		Carbamazepine**	0.0075		ug/L	P340782	
		Fluridone**	0.0065		ug/L	P340782	

Ref. Method and Comment:
EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: SIX MILE @ 400M US OF LAKE JESSUP

Collection Date/Time: 02/28/2018 11:39

Field ID: G2CE0074

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970985	EPA 8321B	2,4-D	0.11		ug/L	P340782	
		Sucralose**	0.59		ug/L	P340834	
		Bentazon	0.015		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0020	U	ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0040	U	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.043		ug/L	P340782	MS
		Carbamazepine**	4.4E-04	I	ug/L	P340782	
		Fluridone**	0.0036		ug/L	P340782	

Ref. Method and Comment:
EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.

Sample Location: ELDER SPRINGS RUN @ US OF MYRTLE ST

Collection Date/Time: 02/28/2018 11:49

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970986	EPA 8321B	2,4-D	0.11		ug/L	P340782	
		Sucralose**	0.50		ug/L	P340834	
		Bentazon	0.015		ug/L	P340782	MS
		MCP	0.0020	U	ug/L	P340782	MS
		Triclopyr**	0.0040	U	ug/L	P340782	MS
		Imidacloprid	0.0021	I	ug/L	P340782	
		Diuron	0.0020	U	ug/L	P340782	
		Primidone**	0.0040	U	ug/L	P340782	
		Linuron	0.0040	U	ug/L	P340782	
		Acetaminophen**	0.0080	U	ug/L	P340782	
		Fenuron	0.0080	U	ug/L	P340782	
		Imazapyr**	0.041		ug/L	P340782	MS
		Carbamazepine**	6.1E-04	I	ug/L	P340782	
		Fluridone**	0.0035		ug/L	P340782	

Field ID: G2CE0120

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
Ref. Method and Comment: EPA 8321B: Fenuron was detected in the method blank slightly above the MDL.							

Sample Location: LITTLE WEKIVA (WEST) @ 150M EAST
 NORTHWESTERN AVE

Collection Date/Time: 02/28/2018 13:32

Field ID: G2CE0174

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1970943	EPA 180.1 Rev. 2.0	Turbidity	3.6	A	NTU	P340810	
	EPA 300.0 Rev. 2.1	Chloride	22	A	mg Cl/L	P341032	
		Sulfate	12	A	mg SO4/L	P341033	
	SM 2120 B	Color (true)	45	A	PCU	P340815	
	SM 2320 B-97	Total Alkalinity	66		mg CaCO3/L	P341245	
	SM 2540 C-97	TDS	146		mg/L	P341152	
	SM 2540 D-97	TSS	4	I	mg/L	P340935	
1970945	SM 4500 F-C-97	Fluoride	0.096	I	mg F/L	P341248	
	EPA 350.1 Rev. 2.0	Ammonia-N	0.073		mg N/L	P340971	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.57		mg N/L	P340828	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.20		mg N/L	P340887	
	EPA 365.1 Rev. 2.0	Total-P	0.11		mg P/L	P340868	
1970947	SM 5310 B-00	Organic Carbon	9.7		mg C/L	P340979	
	EPA 365.1 Rev. 2.0	O-Phosphate-P dissolved	0.060		mg P/L	P340821	

Ref. Method and Comment:
 SM 2540 D-97: Batch relative percent difference is unavailable because of low analyte concentration in the QC sample.
 EPA 365.1 Rev. 2.0: Total-P: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
 Batch ID: P340810

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P341032

Component	Result	Code	Units
Chloride	0.20	U	mg Cl/L

Reference Method: EPA 300.0 Rev. 2.1
 Batch ID: P341033

Component	Result	Code	Units
Sulfate	0.20	U	mg SO4/L

Reference Method: EPA 350.1 Rev. 2.0
 Batch ID: P340971

Component	Result	Code	Units
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Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P340971

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340887

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8321B
Batch ID: P340782

Component	Result	Code	Units
2,4-D	0.0020	U	ug/L
Acetaminophen	0.0080	U	ug/L
Bentazon	8.0E-04	U	ug/L
Carbamazepine	4.0E-04	U	ug/L
Diuron	0.0020	U	ug/L
Fenuron	0.014	I	ug/L
Fluridone	8.0E-04	U	ug/L
Imazapyr	0.0040	U	ug/L
Imidacloprid	0.0020	U	ug/L
Linuron	0.0040	U	ug/L
MCPP	0.0020	U	ug/L
Primidone	0.0040	U	ug/L
Triclopyr	0.0040	U	ug/L

Reference Method: EPA 8321B
Batch ID: P340834

Component	Result	Code	Units
Sucralose	0.010	U	ug/L

Quality Assurance Report Method Blank Results

Reference Method: SM 2120 B
Batch ID: P340815

Component	Result	Code	Units
Color (true)	2.5	U	PCU

Reference Method: SM 2320 B-97
Batch ID: P341245

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

Reference Method: SM 2540 C-97
Batch ID: P341152

Component	Result	Code	Units
TDS	15	U	mg/L

Reference Method: SM 2540 D-97
Batch ID: P340935

Component	Result	Code	Units
TSS	2	U	mg/L

Reference Method: SM 4500 F-C-97
Batch ID: P341248

Component	Result	Code	Units
Fluoride	0.035	U	mg F/L

Reference Method: SM 5310 B-00
Batch ID: P340979

Component	Result	Code	Units
Organic Carbon	0.50	U	mg C/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341032

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Chloride	95.1		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341033

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sulfate	95.8		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P340971

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P340971

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	99.6		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	99.0		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340887

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

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

Reference Method: EPA 8321B
Batch ID: P340782

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2,4-D	82.6		P	40 - 150
Acetaminophen	98.1		P	30 - 150
Bentazon	90.2		P	30 - 150
Carbamazepine	65.4		P	40 - 150
Diuron	66.5		P	40 - 150
Fenuron	96.3		P	40 - 150
Fluridone	82.1		P	40 - 150
Imazapyr	73.5		P	40 - 150
Imidacloprid	90.1		P	40 - 160
Linuron	71.9		P	40 - 150
MCP	78.0		P	40 - 150
Primidone	108		P	40 - 150
Triclopyr	74.3		P	40 - 150

Reference Method: EPA 8321B
Batch ID: P340834

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Sucralose	116		P	40 - 150

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: SM 2320 B-97
Batch ID: P341245

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total Alkalinity	102		P	95 - 108

Reference Method: SM 4500 F-C-97
Batch ID: P341248

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Fluoride	94.9		P	92 - 103

Reference Method: SM 5310 B-00
Batch ID: P340979

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Organic Carbon	95.2		P	85 - 115

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341032

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970943	Chloride	93.2		P	90 - 110
1970950	Chloride	96.3		P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341033

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970943	Sulfate	96.1		P	90 - 110
1970950	Sulfate	96.3		P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P340971

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970793	Ammonia-N	99.7	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970879	Kjeldahl Nitrogen	100	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340887

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970961	NO2NO3-N	104	104	P/P	90 - 110

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970797	O-Phosphate-P	97.2	97.9	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P340782

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970898	2,4-D	49.0	50.3	P/P	40 - 150
1970898	Acetaminophen	112	125	P/P	30 - 150
1970898	Bentazon	26.3	27.1	F/F	30 - 150
1970898	Carbamazepine	75.8	76.1	P/P	40 - 150
1970898	Diuron	60.6	63.4	P/P	40 - 150
1970898	Fenuron	81.7	86.9	P/P	40 - 150
1970898	Fluridone	71.0	78.3	P/P	40 - 150
1970898	Imazapyr	39.2	50.0	F/P	40 - 150
1970898	Imidacloprid	134	149	P/P	40 - 160
1970898	Linuron	71.3	74.0	P/P	40 - 150
1970898	MCCP	35.5	34.3	F/F	40 - 150
1970898	Primidone	112	111	P/P	40 - 150
1970898	Triclopyr	40.9	38.6	P/F	40 - 150

Reference Method: EPA 8321B
Batch ID: P340834

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970856	Sucralose	121	124	P/P	40 - 150

Reference Method: SM 4500 F-C-97
Batch ID: P341248

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970876	Fluoride	96.9	95.4	P/P	91 - 105

Reference Method: SM 5310 B-00
Batch ID: P340979

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1970944	Organic Carbon	97.6	99.0	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P340810

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970943	Turbidity	3.07	Sample	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341032

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970943	Chloride	1.65	Sample	P	0 - 20

Reference Method: EPA 300.0 Rev. 2.1
Batch ID: P341033

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970943	Sulfate	1.53	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P340971

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970793	Ammonia-N	0.482	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P340828

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970879	Kjeldahl Nitrogen	1.04	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P340887

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970961	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P340868

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970874	Total-P	1.87	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P340821

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970797	O-Phosphate-P	0.718	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P340782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970898	2,4-D	2.52	Spike	P	0 - 30
1970898	Acetaminophen	11.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: EPA 8321B
Batch ID: P340782

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970898	Bentazon	2.14	Spike	P	0 - 30
1970898	Carbamazepine	0.401	Spike	P	0 - 30
1970898	Diuron	4.09	Spike	P	0 - 30
1970898	Fenuron	6.22	Spike	P	0 - 30
1970898	Fluridone	8.96	Spike	P	0 - 30
1970898	Imazapyr	9.78	Spike	P	0 - 30
1970898	Imidacloprid	9.13	Spike	P	0 - 30
1970898	Linuron	3.60	Spike	P	0 - 30
1970898	MCPP	3.43	Spike	P	0 - 30
1970898	Primidone	0.955	Spike	P	0 - 30
1970898	Triclopyr	5.78	Spike	P	0 - 30

Reference Method: EPA 8321B
Batch ID: P340834

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970856	Sucralose	1.93	Spike	P	0 - 30

Reference Method: SM 2120 B
Batch ID: P340815

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970943	Color (true)	0.509	Sample	P	0 - 20

Reference Method: SM 2320 B-97
Batch ID: P341245

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970876	Total Alkalinity	0.128	Sample	P	0 - 4.8

Reference Method: SM 2540 C-97
Batch ID: P341152

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970873	TDS	0.315	Sample	P	0 - 10

Reference Method: SM 4500 F-C-97
Batch ID: P341248

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970876	Fluoride	0.960	Spike	P	0 - 3.0

Quality Assurance Report Precision

Reference Method: SM 5310 B-00
Batch ID: P340979

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1970944	Organic Carbon	0.860	Spike	P	0 - 20

* Sample, spike and/or laboratory control sample precision (LCS) is reported.
Replicate spike precision may be reported when sample results are below quantifiable levels.

Quality Assurance Report Surrogates

Lab Sample ID: 1970983
Field Sample ID: G2CE0075

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	56.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	127	P	30 - 160
EPA 8321B	Carbamazepine-d10	74.9	P	30 - 160
EPA 8321B	Diuron-d6	56.7	P	30 - 160
EPA 8321B	Primidone-d5	106	P	30 - 160
EPA 8321B	Sucralose-d6	138	P	40 - 160

Lab Sample ID: 1970984
Field Sample ID: G2CE0161

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	57.7	P	30 - 160
EPA 8321B	Acetaminophen-d4	132	P	30 - 160
EPA 8321B	Carbamazepine-d10	87.6	P	30 - 160
EPA 8321B	Diuron-d6	65.5	P	30 - 160
EPA 8321B	Primidone-d5	104	P	30 - 160
EPA 8321B	Sucralose-d6	128	P	40 - 160

Lab Sample ID: 1970985
Field Sample ID: G2CE0074

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	65.9	P	30 - 160
EPA 8321B	Acetaminophen-d4	142	P	30 - 160
EPA 8321B	Carbamazepine-d10	76.1	P	30 - 160
EPA 8321B	Diuron-d6	64.9	P	30 - 160
EPA 8321B	Primidone-d5	105	P	30 - 160
EPA 8321B	Sucralose-d6	155	P	40 - 160

Lab Sample ID: 1970986
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	63.3	P	30 - 160
EPA 8321B	Acetaminophen-d4	138	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.2	P	30 - 160
EPA 8321B	Diuron-d6	75.6	P	30 - 160
EPA 8321B	Primidone-d5	96.9	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 1970986
Field Sample ID: G2CE0120

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Sucralose-d6	155	P	40 - 160

Lab Sample ID: 1970987
Field Sample ID: G2CE0162

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	56.2	P	30 - 160
EPA 8321B	Acetaminophen-d4	123	P	30 - 160
EPA 8321B	Carbamazepine-d10	79.5	P	30 - 160
EPA 8321B	Diuron-d6	62.0	P	30 - 160
EPA 8321B	Primidone-d5	98.9	P	30 - 160
EPA 8321B	Sucralose-d6	138	P	40 - 160

Lab Sample ID: 1970988
Field Sample ID: G2CE0071

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	62.8	P	30 - 160
EPA 8321B	Acetaminophen-d4	119	P	30 - 160
EPA 8321B	Carbamazepine-d10	78.5	P	30 - 160
EPA 8321B	Diuron-d6	58.1	P	30 - 160
EPA 8321B	Primidone-d5	97.8	P	30 - 160
EPA 8321B	Sucralose-d6	152	P	40 - 160

Lab Sample ID: 1970989
Field Sample ID: G2CE0138

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	42.6	P	30 - 160
EPA 8321B	Acetaminophen-d4	133	P	30 - 160
EPA 8321B	Carbamazepine-d10	84.4	P	30 - 160
EPA 8321B	Diuron-d6	75.4	P	30 - 160
EPA 8321B	Primidone-d5	112	P	30 - 160
EPA 8321B	Sucralose-d6	125	P	40 - 160

Lab Sample ID: 1970990
Field Sample ID: G2CE0072

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	2,4-D-d3	38.5	P	30 - 160
EPA 8321B	Acetaminophen-d4	124	P	30 - 160
EPA 8321B	Carbamazepine-d10	86.4	P	30 - 160
EPA 8321B	Diuron-d6	67.8	P	30 - 160
EPA 8321B	Primidone-d5	100	P	30 - 160
EPA 8321B	Sucralose-d6	123	P	40 - 160

Quality Assurance Report Calibration Verification

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A82369

Included Lab Sample IDs: 1970942, 1970943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: SM 2120 B

Run ID: A82370

Included Lab Sample IDs: 1970942, 1970943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Color (true)	98.9	99.6	P/P	85 - 115

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A82372

Included Lab Sample IDs: 1970946, 1970947

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

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A82408

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	101	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A82414

Included Lab Sample IDs: 1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Sucralose	102	107	P/P	60 - 150
Sucralose	107	111	P/P	60 - 150

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A82419

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	99.6	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A82430

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	104	106	P/P	90 - 110

Reference Method: SM 5310 B-00

Run ID: A82435

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	95.8	96.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 5310 B-00

Run ID: A82435

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	96.3	96.8	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A82436

Included Lab Sample IDs: 1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
2,4-D	102	108	P/P	50 - 150
2,4-D	108	95.7	P/P	50 - 150
Acetaminophen	102	108	P/P	60 - 150
Acetaminophen	108	104	P/P	60 - 150
Bentazon	106	115	P/P	50 - 150
Bentazon	115	108	P/P	50 - 150
Carbamazepine	109	95.6	P/P	60 - 150
Carbamazepine	95.6	99.3	P/P	60 - 150
Diuron	104	107	P/P	60 - 150
Diuron	126	104	P/P	60 - 150
Fenuron	102	101	P/P	60 - 150
Fenuron	103	102	P/P	60 - 150
Fluridone	111	116	P/P	60 - 160
Fluridone	116	123	P/P	60 - 160
Imazapyr	105	94.6	P/P	50 - 150
Imazapyr	94.6	97.6	P/P	50 - 150
Imidacloprid	104	105	P/P	60 - 150
Imidacloprid	105	103	P/P	60 - 150
Linuron	101	102	P/P	60 - 150
Linuron	105	101	P/P	60 - 150
MCPP	86.9	99.6	P/P	50 - 150
MCPP	99.6	100	P/P	50 - 150
Primidone	106	109	P/P	60 - 150
Primidone	109	106	P/P	60 - 150
Triclopyr	102	90.6	P/P	50 - 150
Triclopyr	85.4	102	P/P	50 - 150

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A82456

Included Lab Sample IDs: 1970944, 1970945

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	102	P/P	90 - 110
Kjeldahl Nitrogen	101	100	P/P	90 - 110

Reference Method: EPA 300.0 Rev. 2.1

Run ID: A82457

Included Lab Sample IDs: 1970942, 1970943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Chloride	96.1	98.6	P/P	90 - 110
Chloride	98.6	96.1	P/P	90 - 110
Sulfate	96.3	96.1	P/P	90 - 110
Sulfate	97.2	96.3	P/P	90 - 110

Quality Assurance Report Calibration Verification

Reference Method: SM 2320 B-97

Run ID: A82513

Included Lab Sample IDs: 1970942, 1970943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total Alkalinity	101	99.6	P/P	90 - 110

Reference Method: SM 4500 F-C-97

Run ID: A82513

Included Lab Sample IDs: 1970942, 1970943

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Fluoride	109	104	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
EPA 180.1 Rev. 2.0	Turbidity				3.07	
EPA 300.0 Rev. 2.1	Chloride	95.1	93.2 96.3		1.65	
	Sulfate	95.8	96.1 96.3		1.53	
EPA 350.1 Rev. 2.0	Ammonia-N	99.6	99.7 100			0.482
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	99.0	100 98.8			1.04
EPA 353.2 Rev. 2.0	NO2NO3-N	103	104 104			0.0
EPA 365.1 Rev. 2.0	Total-P	100				1.87
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	102	97.2 97.9			0.718
EPA 8321B	2,4-D	82.6	49.0 50.3			2.52
	Acetaminophen	98.1	112 125			11.1
	Bentazon	90.2	26.3 27.1			2.14
	Carbamazepine	65.4	75.8 76.1			0.401
	Diuron	66.5	60.6 63.4			4.09
	Fenuron	96.3	81.7 86.9			6.22
	Fluridone	82.1	71.0 78.3			8.96
	Imazapyr	73.5	39.2 50.0			9.78
	Imidacloprid	90.1	134 149			9.13
	Linuron	71.9	71.3 74.0			3.60
	MCPP	78.0	35.5 34.3			3.43
	Primidone	108	112 111			0.955
	Sucralose	116	121 124			1.93
	Triclopyr	74.3	40.9 38.6			5.78
SM 2120 B	Color (true)				0.509	
SM 2320 B-97	Total Alkalinity	102			0.128	
SM 2540 C-97	TDS				0.315	
SM 4500 F-C-97	Fluoride	94.9	96.9 95.4			0.960
SM 5310 B-00	Organic Carbon	95.2	97.6 99.0			0.860

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
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Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1970942, 1970943
EPA 300.0 Rev. 2.1 / E31780	Chloride in aqueous matrices	1970942, 1970943
EPA 300.0 Rev. 2.1 / E31780	Sulfate in aqueous matrices	1970942, 1970943
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1970944, 1970945
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1970944, 1970945
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1970944, 1970945
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1970944, 1970945
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1970946, 1970947
EPA 8321B / E31780	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS	1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990
EPA 8321B / E31780	Water soluble organic compounds by HPLC/MS/MS	1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990
SM 2120 B / E31780	True Color measured at 450 nm	1970942, 1970943
SM 2320 B-97 / E31780	Alkalinity in aqueous matrices as mg CaCO ₃ /L	1970942, 1970943
SM 2540 C-97 / E31780	Total Dissolved Solids in aqueous matrices	1970942, 1970943
SM 2540 D-97 / E31780	Total Suspended Solids in aqueous matrices	1970942, 1970943
SM 4500 F-C-97 / E31780	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	1970942, 1970943
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1970944, 1970945

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 180.1 Rev. 2.0	03/01/2018			03/01/2018 15:23	DeAsia Armster	1970942, 1970943
EPA 300.0 Rev. 2.1	03/01/2018			03/06/2018	Lipi Saha	1970942, 1970943
EPA 350.1 Rev. 2.0	03/01/2018			03/05/2018	Ping Hua	1970944, 1970945
EPA 351.2 Rev. 2.0	03/01/2018	03/02/2018	Adrian Shelby	03/06/2018	Joseph Suarez	1970944, 1970945
EPA 353.2 Rev. 2.0	03/01/2018			03/02/2018	Lauren Bottorf	1970944, 1970945
EPA 365.1 Rev. 2.0	03/01/2018	03/02/2018	Sima Feizi	03/05/2018	Beverly Y. Sanders	1970944, 1970945
EPA 365.1 Rev. 2.0 dissolved	03/01/2018			03/01/2018 16:10	Megan Treadwell	1970946
	03/01/2018			03/01/2018 16:11	Megan Treadwell	1970947
EPA 8321B	03/01/2018	03/02/2018	Hoor Shaik	03/03/2018	Julie Michelle Frank	1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990
	03/01/2018	03/02/2018	Hoor Shaik	03/04/2018	Julie Michelle Frank	1970990
	03/01/2018	03/02/2018	Julie Michelle Frank	03/03/2018	Juyoung Kim	1970983, 1970984, 1970985, 1970986, 1970987, 1970988, 1970989, 1970990
SM 2120 B	03/01/2018			03/01/2018 15:11	Tanya Welborn	1970942
	03/01/2018			03/01/2018 15:12	Tanya Welborn	1970943
SM 2320 B-97	03/01/2018			03/09/2018	Dale L. Simmons	1970942, 1970943
SM 2540 C-97	03/01/2018			03/02/2018	DeAsia Armster	1970942, 1970943
SM 2540 D-97	03/01/2018			03/02/2018	DeAsia Armster	1970942, 1970943
SM 4500 F-C-97	03/01/2018			03/09/2018	Dale L. Simmons	1970942, 1970943
SM 5310 B-00	03/01/2018			03/05/2018	Megan Treadwell	1970944
	03/01/2018			03/06/2018	Megan Treadwell	1970945