

Chemical Analysis Report

NE-DIST-2017-03-17-01

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

Event Description: **Ocklawaha**
Request ID: **RQ-2017-03-13-10**
Customer: **NE-DIST**
Project ID: **SMP**

Send Reports to:
FL Dept. of Environmental Protection
8800 Baymeadows Way West
Jacksonville, FL 32256-7577
Attn: Jeremy Parrish

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Certified by: Liang Lin, Environmental Administrator

Date Certified: 12-APR-2017 15:32

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

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

Results for the following analytical group are included in this report: Nutrients.

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: RR7 20020114FLA

Collection Date/Time: 03/16/2017 11:50

Field ID: RR7 20020114FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1881000	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P321910	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.26		mg N/L	P321804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.79		mg N/L	P321990	
	EPA 365.1 Rev. 2.0	Total-P	0.039		mg P/L	P321829	
	SM 5310 B-00	Organic Carbon	2.2		mg C/L	P321795	
1881005	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.029		mg P/L	P321746	

Sample Location: RROBPL 20020110FLA

Collection Date/Time: 03/16/2017 11:20

Field ID: RROBPL 20020110FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1881001	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P321910	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21		mg N/L	P321804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P321990	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P321829	
	SM 5310 B-00	Organic Carbon	2.5		mg C/L	P321795	
1881006	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.005	I	mg P/L	P321746	

Sample Location: DEEP CR 20020434

Collection Date/Time: 03/16/2017 13:15

Field ID: DEEP CR 20020434

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1881002	EPA 350.1 Rev. 2.0	Ammonia-N	0.011		mg N/L	P321910	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.14	I	mg N/L	P321804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.008	I	mg N/L	P321990	
	EPA 365.1 Rev. 2.0	Total-P	0.018		mg P/L	P321829	
	SM 5310 B-00	Organic Carbon	4.3		mg C/L	P321795	
1881007	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.008	I	mg P/L	P321747	

Sample Location: RR11 20020120FLA

Collection Date/Time: 03/16/2017 10:50

Field ID: RR11 20020120FLA

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1881003	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P321910	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33		mg N/L	P321804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P321990	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P321829	
	SM 5310 B-00	Organic Carbon	2.9		mg C/L	P321795	
1881008	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P321747	

Sample Location: RR1 20020151

Collection Date/Time: 03/16/2017 10:05

Field ID: RR1 20020151

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1881004	EPA 350.1 Rev. 2.0	Ammonia-N	0.002	I	mg N/L	P321910	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P321804	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P321992	
	EPA 365.1 Rev. 2.0	Total-P	0.017		mg P/L	P321853	
	SM 5310 B-00	Organic Carbon	3.5		mg C/L	P321795	
1881009	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.004	U	mg P/L	P321747	

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321910

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321804

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321990

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321992

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321829

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321853

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321746

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

Quality Assurance Report Method Blank Results

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321747

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

Reference Method: SM 5310 B-00
Batch ID: P321795

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

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321910

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321804

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321990

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321992

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321829

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321853

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321746

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

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321746

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.2		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321747

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	98.8		P	90 - 110

Reference Method: SM 5310 B-00
Batch ID: P321795

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321910

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881000	Ammonia-N	99.7	97.9	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321804

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881002	Kjeldahl Nitrogen	101	98.5	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321990

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880202	NO2NO3-N	103	105	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321992

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881018	NO2NO3-N	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321829

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881003	Total-P	103	99.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321853

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321853

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881039	Total-P	106	108	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321746

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880971	O-Phosphate-P	98.8	98.6	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321747

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1881007	O-Phosphate-P	98.8	96.6	P/P	90 - 110

Reference Method: SM 5310 B-00
Batch ID: P321795

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1880963	Organic Carbon	94.7	94.6	P/P	85 - 115

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P321910

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881000	Ammonia-N	1.42	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P321804

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881002	Kjeldahl Nitrogen	1.97	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321990

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880202	NO2NO3-N	1.53	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P321992

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881018	NO2NO3-N	0.480	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321829

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881003	Total-P	3.13	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P321853

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881039	Total-P	1.54	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321746

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880971	O-Phosphate-P	0.203	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P321747

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1881007	O-Phosphate-P	2.09	Spike	P	0 - 20

Reference Method: SM 5310 B-00
Batch ID: P321795

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1880963	Organic Carbon	0.0508	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 Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Run ID: A75172
Included Lab Sample IDs: 1881005, 1881006, 1881007, 1881008, 1881009

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.5	99.4	P/P	90 - 110
O-Phosphate-P	99.6	99.8	P/P	90 - 110
O-Phosphate-P	99.8	99.5	P/P	90 - 110

Reference Method: SM 5310 B-00
Run ID: A75192
Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003, 1881004

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

Reference Method: SM 5310 B-00

Run ID: A75192

Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003, 1881004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Organic Carbon	94.3	95.6	P/P	90 - 110
Organic Carbon	95.6	95.2	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75234

Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	99.8	P/P	90 - 110
Total-P	99.0	100	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A75245

Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003, 1881004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	101	101	P/P	90 - 110
Ammonia-N	99.3	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A75255

Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003, 1881004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	91.9	94.2	P/P	90 - 110
Kjeldahl Nitrogen	93.1	92.6	P/P	90 - 110
Kjeldahl Nitrogen	94.2	91.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A75268

Included Lab Sample IDs: 1881000, 1881001, 1881002, 1881003, 1881004

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

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A75270

Included Lab Sample IDs: 1881004

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	100	100	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		Precision	
					LCS	MS
EPA 350.1 Rev. 2.0	Ammonia-N	99.4	99.7	97.9		1.42
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	105	101	98.5		1.97
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	103	103	105		1.53
	NO ₂ NO ₃ -N	104	103			0.480
EPA 365.1 Rev. 2.0	Total-P	102	103	99.6		3.13
	Total-P	104	106	108		1.54
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	98.2	98.8	98.6		0.203
	O-Phosphate-P	98.8	98.8	96.6		2.09
SM 5310 B-00	Organic Carbon	99.0	94.7	94.6		0.0508

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1881000, 1881001, 1881002, 1881003, 1881004
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1881000, 1881001, 1881002, 1881003, 1881004
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1881000, 1881001, 1881002, 1881003, 1881004
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1881000, 1881001, 1881002, 1881003, 1881004
EPA 365.1 Rev. 2.0 dissolved / E31780	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	1881005, 1881006, 1881007, 1881008, 1881009
SM 5310 B-00 / E31780	Nonpurgeable Organic Carbon in aqueous matrices	1881000, 1881001, 1881002, 1881003, 1881004

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	03/17/2017			03/21/2017	Julie Michelle Frank	1881000, 1881001, 1881002, 1881003, 1881004
EPA 351.2 Rev. 2.0	03/17/2017	03/20/2017	Adrian Shelby	03/22/2017	Joseph Suarez	1881000, 1881001, 1881002, 1881003, 1881004
EPA 353.2 Rev. 2.0	03/17/2017			03/22/2017	Beverly Y. Sanders	1881000, 1881001, 1881002, 1881003, 1881004
EPA 365.1 Rev. 2.0	03/17/2017	03/20/2017	Vijayalakshmi Reddy	03/21/2017	Lipi Saha	1881000, 1881001, 1881002, 1881003
	03/17/2017	03/21/2017	Adrian Shelby	03/22/2017	Lipi Saha	1881004
EPA 365.1 Rev. 2.0 dissolved	03/17/2017			03/17/2017 11:48	Ping Hua	1881005
	03/17/2017			03/17/2017 11:49	Ping Hua	1881006
	03/17/2017			03/17/2017 11:57	Ping Hua	1881007
	03/17/2017			03/17/2017 12:13	Ping Hua	1881008, 1881009
SM 5310 B-00	03/17/2017			03/17/2017	Julie Michelle Frank	1881000, 1881001, 1881002, 1881003, 1881004