Chemical Analysis Report

NW-DIST-2017-07-11-02

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

Event Description: **Bayou Chico BMAP**
Request ID: **RQ-2017-06-19-11**
Customer: **NW-DIST**
Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
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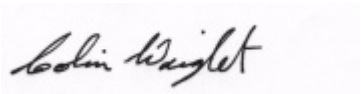
Certified by: Colin Wright, Program Administrator

Date Certified: 26-JUL-2017 11:29



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: Pensacola Bay at Sanders Beach **Collection Date/Time: 07/10/2017 10:35**

Field ID: A Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912266	EPA 180.1 Rev. 2.0	Turbidity	3.7	A	NTU	P328425	
1912273	EPA 350.1 Rev. 2.0	Ammonia-N	0.021		mg N/L	P328585	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.53		mg N/L	P328614	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.047		mg N/L	P328493	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P328633	

Sample Location: Bayou Chico at Mandalay Park **Collection Date/Time: 07/10/2017 11:10**

Field ID: B Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912267	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P328425	
1912274	EPA 350.1 Rev. 2.0	Ammonia-N	0.003	I	mg N/L	P328585	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.38	I	mg N/L	P328614	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.10		mg N/L	P328493	
	EPA 365.1 Rev. 2.0	Total-P	0.028		mg P/L	P328633	

Sample Location: Jones Creek at Old Corry Road **Collection Date/Time: 07/10/2017 11:45**

Field ID: C Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912268	EPA 180.1 Rev. 2.0	Turbidity	5.9		NTU	P328425	
1912275	EPA 350.1 Rev. 2.0	Ammonia-N	0.042		mg N/L	P328411	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.37		mg N/L	P328506	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.18		mg N/L	P328446	
	EPA 365.1 Rev. 2.0	Total-P	0.036		mg P/L	P328594	

Sample Location: Jackson Creek at Old Corry Road **Collection Date/Time: 07/10/2017 12:10**

Field ID: D Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912269	EPA 180.1 Rev. 2.0	Turbidity	3.1		NTU	P328425	
1912276	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P328412	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.16	I	mg N/L	P328506	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.2		mg N/L	P328446	
	EPA 365.1 Rev. 2.0	Total-P	0.024		mg P/L	P328594	

Sample Location: Jackson Creek at New Warrington Road **Collection Date/Time: 07/10/2017 12:35**

Field ID: E Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912270	EPA 180.1 Rev. 2.0	Turbidity	3.9		NTU	P328425	
1912277	EPA 350.1 Rev. 2.0	Ammonia-N	0.030		mg N/L	P328412	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.19	I	mg N/L	P328506	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.1		mg N/L	P328446	
	EPA 365.1 Rev. 2.0	Total-P	0.026		mg P/L	P328594	

Sample Location: Bayou Chico at Navy Blvd Bridge **Collection Date/Time: 07/10/2017 14:00**

Field ID: F Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912271	EPA 180.1 Rev. 2.0	Turbidity	4.4		NTU	P328425	
1912278	EPA 350.1 Rev. 2.0	Ammonia-N	0.004	I	mg N/L	P328412	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.29		mg N/L	P328506	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.82		mg N/L	P328446	
	EPA 365.1 Rev. 2.0	Total-P	0.032		mg P/L	P328594	

Sample Location: Bayou Chico at W Street **Collection Date/Time: 07/10/2017 14:30**

Field ID: G Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1912272	EPA 180.1 Rev. 2.0	Turbidity	14		NTU	P328425	
1912279	EPA 350.1 Rev. 2.0	Ammonia-N	0.071		mg N/L	P328412	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.28		mg N/L	P328506	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.77		mg N/L	P328446	
	EPA 365.1 Rev. 2.0	Total-P	0.043		mg P/L	P328594	

Quality Assurance Report
Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P328425

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328411

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328412

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328585

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328506

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

Quality Assurance Report
Method Blank Results

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328614

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328446

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328493

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328594

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328633

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

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328411

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328412

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328585

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328506

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Laboratory Control Sample Accuracy

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328506

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328614

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	94.8		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328446

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328493

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: P328594

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328633

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	92.5		P	90 - 110

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328411

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912020	Ammonia-N	103	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328412

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912276	Ammonia-N	104	102	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits

Quality Assurance Report
Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328585

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912273	Ammonia-N	101	101	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328506

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912286	Kjeldahl Nitrogen	113	110	F/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328614

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912551	Kjeldahl Nitrogen	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328446

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912275	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328493

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1911998	NO2NO3-N	104	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328594

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912276	Total-P	99.7	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328633

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1912273	Total-P	94.8	96.7	P/P	90 - 110

Quality Assurance Report
Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P328425

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912266	Turbidity	0.0	Sample	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328411

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912020	Ammonia-N	0.625	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328412

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912276	Ammonia-N	1.23	Spike	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P328585

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912273	Ammonia-N	0.366	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328506

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912286	Kjeldahl Nitrogen	2.96	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P328614

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912551	Kjeldahl Nitrogen	0.887	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328446

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912275	NO2NO3-N	0.515	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P328493

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1911998	NO2NO3-N	0.480	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328594

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912276	Total-P	5.38	Spike	P	0 - 20

Quality Assurance Report
Precision

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P328633

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1912273	Total-P	1.98	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 350.1 Rev. 2.0
Run ID: A77680
Included Lab Sample IDs: 1912275, 1912276, 1912277, 1912278, 1912279

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

Reference Method: EPA 180.1 Rev. 2.0
Run ID: A77690
Included Lab Sample IDs: 1912266, 1912267, 1912268, 1912269, 1912270, 1912271, 1912272

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A77691
Included Lab Sample IDs: 1912275, 1912276, 1912277, 1912278, 1912279

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

Reference Method: EPA 353.2 Rev. 2.0
Run ID: A77707
Included Lab Sample IDs: 1912273, 1912274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A77747
Included Lab Sample IDs: 1912275, 1912276, 1912277, 1912278, 1912279

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	100	98.7	P/P	90 - 110
Kjeldahl Nitrogen	95.8	100	P/P	90 - 110

Quality Assurance Report
Calibration Verification

Reference Method: EPA 350.1 Rev. 2.0
Run ID: A77748
Included Lab Sample IDs: 1912273, 1912274

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 365.1 Rev. 2.0
Run ID: A77779
Included Lab Sample IDs: 1912275, 1912276, 1912277, 1912278, 1912279

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

Reference Method: EPA 351.2 Rev. 2.0
Run ID: A77801
Included Lab Sample IDs: 1912273, 1912274

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.6	98.8	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Run ID: A77826
Included Lab Sample IDs: 1912273, 1912274

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

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

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision		
					LCS	SMP	MS
EPA 180.1 Rev. 2.0	Turbidity					0.0	
EPA 350.1 Rev. 2.0	Ammonia-N	103	103	102			0.625
	Ammonia-N	102	104	102			1.23
	Ammonia-N	98.0	101	101			0.366
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	101	113	110			2.96
	Kjeldahl Nitrogen	94.8	100	101			0.887
EPA 353.2 Rev. 2.0	NO2NO3-N	104	104	104			0.515
	NO2NO3-N	103	104	104			0.480
EPA 365.1 Rev. 2.0	Total-P	103	99.7	105			5.38
	Total-P	92.5	94.8	96.7			1.98

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1912266, 1912267, 1912268, 1912269, 1912270, 1912271, 1912272

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1912273, 1912274, 1912275, 1912276, 1912277, 1912278, 1912279
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1912273, 1912274, 1912275, 1912276, 1912277, 1912278, 1912279
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1912273, 1912274, 1912275, 1912276, 1912277, 1912278, 1912279
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1912273, 1912274, 1912275, 1912276, 1912277, 1912278, 1912279

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	07/11/2017			07/11/2017 18:06	DeAsia Armster	1912266, 1912267, 1912268, 1912269, 1912270, 1912271, 1912272
EPA 350.1 Rev. 2.0	07/11/2017			07/12/2017	Sofia Elnemr	1912275, 1912276, 1912277, 1912278, 1912279
	07/11/2017			07/14/2017	Sofia Elnemr	1912273, 1912274
EPA 351.2 Rev. 2.0	07/11/2017	07/14/2017	Adrian Shelby	07/17/2017	Joseph Suarez	1912275, 1912276, 1912277, 1912278, 1912279
	07/11/2017	07/18/2017	Adrian Shelby	07/19/2017	Joseph Suarez	1912273, 1912274
EPA 353.2 Rev. 2.0	07/11/2017			07/13/2017	Beverly Y. Sanders	1912275, 1912276, 1912277, 1912278, 1912279
	07/11/2017			07/14/2017	Beverly Y. Sanders	1912273, 1912274
EPA 365.1 Rev. 2.0	07/11/2017	07/17/2017	Vijayalakshmi Reddy	07/18/2017	Lipi Saha	1912275, 1912276, 1912277, 1912278, 1912279
	07/11/2017	07/18/2017	Vijayalakshmi Reddy	07/20/2017	Lipi Saha	1912273, 1912274