

Chemical Analysis Report

NW-DIST-2017-05-16-01

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-2017-04-17-09**

Customer: **NW-DIST**

Project ID: **BMAP**

Send Reports to:
FL Dept. of Environmental Protection
160 Government Center
Suite 308
Pensacola, FL 32502-5794
Attn: Cheryl Bunch

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Thekkekalathil Chandrasekhar, Chemist Administrator

Date Certified: 12-JUN-2017 14:10



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 @ Sanders Beach

Collection Date/Time: 05/15/2017 10:40

Field ID: A

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899404	EPA 180.1 Rev. 2.0	Turbidity	1.7		NTU	P325376	
1899408	EPA 350.1 Rev. 2.0	Ammonia-N	0.008		mg N/L	P325659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.33	I	mg N/L	P325537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P325486	
	EPA 365.1 Rev. 2.0	Total-P	0.016		mg P/L	P325436	

Sample Location: Bayou Chico @ Mandalay Park

Collection Date/Time: 05/15/2017 11:10

Field ID: B

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899405	EPA 180.1 Rev. 2.0	Turbidity	3.8		NTU	P325376	
1899409	EPA 350.1 Rev. 2.0	Ammonia-N	0.007		mg N/L	P325659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P325537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.065		mg N/L	P325486	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P325436	

Sample Location: Jones Creek @ Old Corry Road

Collection Date/Time: 05/15/2017 11:45

Field ID: C

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899406	EPA 180.1 Rev. 2.0	Turbidity	3.0	A	NTU	P325377	
1899410	EPA 350.1 Rev. 2.0	Ammonia-N	0.050		mg N/L	P325659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.43		mg N/L	P325537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.28		mg N/L	P325486	
	EPA 365.1 Rev. 2.0	Total-P	0.038		mg P/L	P325436	

Sample Location: Jackson Creek @ Old Corry Road

Collection Date/Time: 05/15/2017 12:10

Field ID: D

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899407	EPA 180.1 Rev. 2.0	Turbidity	1.3		NTU	P325377	
1899411	EPA 350.1 Rev. 2.0	Ammonia-N	0.024		mg N/L	P325656	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.21		mg N/L	P325536	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.5		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.020		mg P/L	P325433	

Sample Location: Jackson Creek @ New Warrington Road

Collection Date/Time: 05/15/2017 12:40

Field ID: E

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899412	EPA 180.1 Rev. 2.0	Turbidity	1.9		NTU	P325377	
1899415	EPA 350.1 Rev. 2.0	Ammonia-N	0.032		mg N/L	P325656	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.25		mg N/L	P325536	MS
	EPA 353.2 Rev. 2.0	NO2NO3-N	2.4		mg N/L	P325547	
	EPA 365.1 Rev. 2.0	Total-P	0.025		mg P/L	P325433	

Sample Location: Bayou Chico @ Navy Blvd Bridge

Collection Date/Time: 05/15/2017 14:00

Field ID: F

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899413	EPA 180.1 Rev. 2.0	Turbidity	3.0		NTU	P325377	
1899416	EPA 350.1 Rev. 2.0	Ammonia-N	0.01		mg N/L	P325659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.46		mg N/L	P325537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.24		mg N/L	P325486	
	EPA 365.1 Rev. 2.0	Total-P	0.023		mg P/L	P325436	

Sample Location: Bayou Chico @ W Street

Collection Date/Time: 05/15/2017 14:15

Field ID: G

Matrix: W-SURF-SLT

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
1899414	EPA 180.1 Rev. 2.0	Turbidity	18		NTU	P325377	
1899417	EPA 350.1 Rev. 2.0	Ammonia-N	0.054		mg N/L	P325659	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	0.50		mg N/L	P325537	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.81		mg N/L	P325486	
	EPA 365.1 Rev. 2.0	Total-P	0.048		mg P/L	P325436	

Quality Assurance Report Method Blank Results

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325376

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325377

Component	Result	Code	Units
Turbidity	0.10	U	NTU

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325659

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

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: P325537

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325486

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325436

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: P325656

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

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325659

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	98.7		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325537

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325537

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325486

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

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

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

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	99.3		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325436

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

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899322	Ammonia-N	98.9	101	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325659

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899416	Ammonia-N	101	102	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899440	Kjeldahl Nitrogen	84.9	85.3	F/F	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325537

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

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325537

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899409	Kjeldahl Nitrogen	94.4	93.1	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325486

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899368	NO2NO3-N	100	101	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899438	NO2NO3-N	100	102	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899438	Total-P	101	104	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325436

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1899350	Total-P	97.2	97.4	P/P	90 - 110

Quality Assurance Report Precision

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325376

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899321	Turbidity	0.327	Sample	P	0 - 20

Reference Method: EPA 180.1 Rev. 2.0
Batch ID: P325377

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899406	Turbidity	1.66	Sample	P	0 - 20

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325656

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899322	Ammonia-N	2.17	Spike	P	0 - 20

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P325659

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899416	Ammonia-N	0.884	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325536

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899440	Kjeldahl Nitrogen	0.355	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P325537

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899409	Kjeldahl Nitrogen	1.18	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325486

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899368	NO2NO3-N	0.496	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P325547

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899438	NO2NO3-N	0.619	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325433

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899438	Total-P	2.73	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P325436

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
1899350	Total-P	0.156	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

Quality Assurance Report Calibration Verification

Reference Method: EPA 180.1 Rev. 2.0

Run ID: A76462

Included Lab Sample IDs: 1899404, 1899405, 1899406, 1899407, 1899412, 1899413, 1899414

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Turbidity	99.0	101	P/P	95 - 105
Turbidity	99.5	99.0	P/P	95 - 105

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76509

Included Lab Sample IDs: 1899408, 1899409, 1899410, 1899416, 1899417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	99.5	100	P/P	90 - 110
NO2NO3-N	99.5	99.0	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A76516

Included Lab Sample IDs: 1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	98.5	99.2	P/P	90 - 110
Total-P	98.8	98.5	P/P	90 - 110
Total-P	98.8	98.8	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A76545

Included Lab Sample IDs: 1899411, 1899415

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

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A76600

Included Lab Sample IDs: 1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417

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

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A76606

Included Lab Sample IDs: 1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	97.7	99.0	P/P	90 - 110
Kjeldahl Nitrogen	98.9	99.0	P/P	90 - 110
Kjeldahl Nitrogen	99.0	97.7	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	
EPA 180.1 Rev. 2.0	Turbidity					0.327	
	Turbidity					1.66	
EPA 350.1 Rev. 2.0	Ammonia-N	95.0	98.9	101			2.17
	Ammonia-N	98.7	101	102			0.884
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	100	84.9	85.3			0.355
	Kjeldahl Nitrogen	101	94.4	93.1			1.18
EPA 353.2 Rev. 2.0	NO2NO3-N	100	100	101			0.496
	NO2NO3-N	99.5	100	102			0.619
EPA 365.1 Rev. 2.0	Total-P	99.3	101	104			2.73
	Total-P	103	97.2	97.4			0.156

Reference Method Descriptions

Method / DoH Cert #	Description	Associated Samples
EPA 180.1 Rev. 2.0 / E31780	Turbidity in aqueous matrices	1899404, 1899405, 1899406, 1899407, 1899412, 1899413, 1899414
EPA 350.1 Rev. 2.0 / E31780	Ammonia in aqueous matrices as mg N/L	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417
EPA 351.2 Rev. 2.0 / E31780	Total Kjeldahl Nitrogen in aqueous matrices	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417
EPA 353.2 Rev. 2.0 / E31780	Nitrite/Nitrate in aqueous matrices as mg N/L	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417
EPA 365.1 Rev. 2.0 / E31780	Total Phosphorus in aqueous matrices as mg P/L	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417

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	05/16/2017			05/16/2017 15:00	Sima Feizi	1899404, 1899405, 1899406, 1899407, 1899412, 1899413, 1899414
EPA 350.1 Rev. 2.0	05/16/2017			05/22/2017	Julia Storbeck	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417
EPA 351.2 Rev. 2.0	05/16/2017	05/19/2017	Adrian Shelby	05/23/2017	Joseph Suarez	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417
EPA 353.2 Rev. 2.0	05/16/2017			05/18/2017	Beverly Y. Sanders	1899408, 1899409, 1899410, 1899416, 1899417
	05/16/2017			05/19/2017	Beverly Y. Sanders	1899411, 1899415
EPA 365.1 Rev. 2.0	05/16/2017	05/17/2017	Vijayalakshmi Reddy	05/18/2017	Lipi Saha	1899408, 1899409, 1899410, 1899411, 1899415, 1899416, 1899417