284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : W.T.P. FINAL EFFLUENT 2025

MARS CHOCOLATE NORTH AMERICA, LLC

700 High Street

Hackettstown, NJ - 07840

Phone No: 979-361-7196

ORDER ID : Q1831

ATTENTION : Jeff Kram

Laboratory Certification ID # 20012

Table Of Contents for Q1831

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Cover Page

Order ID : Q1831

Project ID : W.T.P. Final Effluent 2025

Client : Mars Chocolate North America, LLC

Lab Sample Number	Client Sample Number
Q1831-01	EFFLUENT-COMPOSITE
Q1831-02	EFFLUENT-GRAB
Q1831-03	EFFLUENT-GRABMS
Q1831-04	EFFLUENT-GRABMSD

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Mars Chocolate North America, LLC
Project Name: W.T.P. Final Effluent 2025
Project # N/A
Chemtech Project # Q1831
Test Name: Oil and Grease,Color,Ammonia,BOD Soluble,Phosphorus-Total,TDS,COD,BOD5,TSS

A. Number of Samples and Date of Receipt:
4 Water samples were received on 04/17/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, BOD Soluble, BOD5, COD, Color, Oil and Grease, Phosphorus-Total, TDS and TSS. This data package contains results for Oil and Grease,Color,Ammonia,BOD Soluble,Phosphorus-Total,TDS,COD,BOD5,TSS.

C. Analytical Techniques:
The analysis of Oil and Grease was based on method 1664A, The analysis of Phosphorus-Total was based on method 365.3, The analysis of Color was based on method SM2120 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of Ammonia was based on method SM4500-NH3, The analysis of BOD Soluble,BOD5 was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (EFFLUENT-COMPOSITEMS) analysis met criteria for all samples except for Phosphorus-Total due to matrix interference.
The Matrix Spike Duplicate (EFFLUENT-COMPOSITEMSD) analysis met criteria for all samples except for Phosphorus-Total due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
For Color, sample Q1831-01 reported with straight 20X dilution due to client history of high results.

For Ammonia, the initial volume was taken 1 ml instead of 50 ml due to client history.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1831

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 04/30/2025

SAMPLE DATA

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Report of Analysis

Client:	Mars Chocolate North America, LLC	Date Collected:	04/17/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	04/17/25
Client Sample ID:	EFFLUENT-COMPOSITE	SDG No.:	Q1831
Lab Sample ID:	Q1831-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	38.8		1	1.50	5.00	mg/L	04/17/25 14:00	04/18/25 09:51	SM 4500-NH3 B plus G-11
BOD Soluble	40.4		1	0.20	2.00	mg/L		04/18/25 13:45	SM 5210 B-16
BOD5	45.3		1	0.20	2.00	mg/L		04/18/25 13:45	SM 5210 B-16
COD	140		1	1.50	10.0	mg/L		04/21/25 13:57	SM 5220 D-11
Apparent Color	800	D	20	100	100	cu		04/18/25 09:40	SM 2120 B-11
Phosphorus, Total	1.56	OR	1	0.0050	0.050	mg/L	04/18/25 09:45	04/18/25 11:51	365.3
TDS	4150		1	1.00	10.0	mg/L		04/17/25 17:00	SM 2540 C-15
TSS	50.4		1	1.00	4.00	mg/L		04/21/25 10:00	SM 2540 D-15

Comments: Apparent color result reported at pH 7.93

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Mars Chocolate North America, LLC	Date Collected:	04/17/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	04/17/25
Client Sample ID:	EFFLUENT-COMPOSITEDL	SDG No.:	Q1831
Lab Sample ID:	Q1831-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Phosphorus, Total	3.89	D	5	0.023	0.25	mg/L	04/18/25 09:45	04/18/25 11:54	365.3

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Mars Chocolate North America, LLC	Date Collected:	04/17/25 05:00
Project:	W.T.P. Final Effluent 2025	Date Received:	04/17/25
Client Sample ID:	EFFLUENT-GRAB	SDG No.:	Q1831
Lab Sample ID:	Q1831-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Oil and Grease	0.29	U	1	0.29	5.00	mg/L		04/22/25 10:20	1664A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Mars Chocolate North America, LLC **SDG No.:** Q1831

Project: W.T.P. Final Effluent 2025 **RunNo.:** LB135482

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
Ammonia as N	mg/L	0.98	1	98	90-110	04/18/2025
Sample ID: **CCV1**						
Ammonia as N	mg/L	0.96	1	96	90-110	04/18/2025
Sample ID: **CCV2**						
Ammonia as N	mg/L	0.95	1	95	90-110	04/18/2025
Sample ID: **CCV3**						
Ammonia as N	mg/L	1	1	100	90-110	04/18/2025
Sample ID: **CCV4**						
Ammonia as N	mg/L	1	1	100	90-110	04/18/2025

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Initial and Continuing Calibration Verification

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**RunNo.:**	LB135487

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.487	0.50	97	90-110	04/18/2025
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.500	0.50	100	90-110	04/18/2025
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.493	0.50	99	90-110	04/18/2025
Sample ID: CCV3						
Phosphorus, Total	mg/L	0.499	0.50	100	90-110	04/18/2025

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Initial and Continuing Calibration Verification

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**RunNo.:**	LB135532

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
COD	mg/L	49.329	50	99	95-105	01/22/2025
Sample ID: **CCV1**						
COD	mg/L	50.319	50	101	95-105	04/21/2025
Sample ID: **CCV2**						
COD	mg/L	49.329	50	99	95-105	04/21/2025

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Initial and Continuing Calibration Blank Summary

Client: Mars Chocolate North America, LLC **SDG No.:** Q1831

Project: W.T.P. Final Effluent 2025 **RunNo.:** LB135482

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	04/18/2025

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Initial and Continuing Calibration Blank Summary

Client: Mars Chocolate North America, LLC **SDG No.:** Q1831

Project: W.T.P. Final Effluent 2025 **RunNo.:** LB135487

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	04/18/2025
Sample ID: CCB1							
Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	04/18/2025
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	04/18/2025
Sample ID: CCB3							
Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	04/18/2025

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Initial and Continuing Calibration Blank Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**RunNo.:**	LB135532

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	**ICB**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	01/22/2025
Sample ID:	**CCB1**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	04/21/2025
Sample ID:	**CCB2**							
COD		mg/L	< 5.0000	5.0000	U	1.50	10	04/21/2025

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Initial and Continuing Calibration Blank Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**RunNo.:**	LB135532

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date

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Preparation Blank Summary

Client: Mars Chocolate North America, LLC **SDG No.:** Q1831

Project: W.T.P. Final Effluent 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135481BL							
Apparent Color	cu	< 2.5000	2.5000	U	5.0	5.0	04/18/2025
Sample ID: LB135486BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	04/17/2025
Sample ID: LB135492BL							
BOD Soluble	mg/L	< 1.0000	1.0000	U	0.20	2	04/18/2025
Sample ID: LB135493BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	04/18/2025
Sample ID: LB135500BL							
TSS	mg/L	1	2.0000	J	1	4	04/21/2025
Sample ID: LB135516BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.29	5.0	04/22/2025
Sample ID: LB135532BL							
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	04/21/2025
Sample ID: PB167618BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	04/18/2025
Sample ID: PB167651BL							
Phosphorus, Total	mg/L	0.007	0.0250	J	0.005	0.05	04/18/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1782-01
Client ID: MW-1MS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	0.97		0.030	U	1	1	97		04/18/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1782-01
Client ID: MW-1MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	0.96		0.030	U	1	1	96		04/18/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-01DL
Client ID: EFFLUENT-COMPOSITEMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	4.28	D	3.89	D	0.5	5	78	*	04/18/2025
COD	mg/L	75-125	184		140		50.0	2	88		04/21/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-01DL
Client ID: EFFLUENT-COMPOSITEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	4.28	D	3.89	D	0.5	5	78	*	04/18/2025
COD	mg/L	75-125	186		140		50.0	2	92		04/21/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-02
Client ID: EFFLUENT-GRABMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	20.3		0.29	U	20.0	1	102		04/22/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-02
Client ID: EFFLUENT-GRABMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	20.5		0.29	U	20.0	1	103		04/22/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1835-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	24.9		4.60	J	20.0	1	102		04/22/2025

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Matrix Spike Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1835-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	24.7		4.60	J	20.0	1	101		04/22/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1782-01
Client ID: MW-1DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	0.030	U	0.030	U	1	0		04/18/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1782-01
Client ID: MW-1MSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	0.97		0.96		1	1		04/18/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-01
Client ID: EFFLUENT-COMPOSITEDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	4150		4170		1	0.5		04/17/2025
BOD Soluble	mg/L	+/-20	40.4		41.5		1	2.71		04/18/2025
BOD5	mg/L	+/-20	45.3		45.8		1	1.12		04/18/2025
TSS	mg/L	+/-5	50.4		48.3		1	4.26		04/21/2025
COD	mg/L	+/-20	140		142		1	1.42		04/21/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-01DL
Client ID: EFFLUENT-COMPOSITEDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Apparent Color	cu	+/-20	800	D	800	D	20	0		04/18/2025
Phosphorus, Total	mg/L	+/-20	3.89	D	3.89	D	5	0		04/18/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-01DL
Client ID: EFFLUENT-COMPOSITEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	4.28	D	4.28	D	5	0		04/18/2025
COD	mg/L	+/-20	184		186		2	1.08		04/21/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1831-02
Client ID: EFFLUENT-GRABMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	20.3		20.5		1	0.98		04/22/2025

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Duplicate Sample Summary

Client: Mars Chocolate North America, LLC
SDG No.: Q1831
Project: W.T.P. Final Effluent 2025
Sample ID: Q1835-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	24.9		24.7		1	0.81		04/22/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135486

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135486BS								
TDS	mg/L	100	94.0		94	1	90-110	04/17/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135492

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135492BS								
BOD Soluble	mg/L	198	207		105	1	84.6-115.4	04/18/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135493

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135493BS								
BOD5	mg/L	198	208		105	1	84.6-115.4	04/18/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135500

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135500BS								
TSS	mg/L	550	532		97	1	90-110	04/21/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135516

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135516BS								
Oil and Grease	mg/L	20.0	16.8		84	1	78-114	04/22/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135532

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB135532BS								
COD	mg/L	50	47.4		95	1	90-110	04/21/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135482

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167618BS								
Ammonia as N	mg/L	1	0.95		95	1	90-110	04/18/2025

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Laboratory Control Sample Summary

Client:	Mars Chocolate North America, LLC	**SDG No.:**	Q1831
Project:	W.T.P. Final Effluent 2025	**Run No.:**	LB135487

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB167651BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.47**		**95**	**1**	**90-110**	**04/18/2025**

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Instrument ID: NESSLER TUBES

Daily Analysis Runlog For Sequence/QCBatch ID # LB135481

Review By	Iwona	Review On	4/18/2025 10:43:22 AM
Supervise By	jignesh	Supervise On	4/18/2025 10:44:03 AM
SubDirectory	LB135481	Test	Color

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135481BL	LB135481BL	MB	04/18/25 09:35		Iwona	OK
2	Q1831-01	EFFLUENT-COMPOS	SAM	04/18/25 09:40		Iwona	OK
3	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/18/25 09:45		Iwona	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135482

Review By	rubina	Review On	4/21/2025 9:42:09 AM
Supervise By	Iwona	Supervise On	4/21/2025 1:09:57 PM
SubDirectory	LB135482	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP112763
ICV Standard	WP112765
CCV Standard	WP112764
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112614
Chk Standard	WP112537,WP111745,WP111385,WP111660

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	04/18/25 08:45		rubina	OK
2	0.1PPM	0.1PPM	CAL2	04/18/25 08:45		rubina	OK
3	0.2PPM	0.2PPM	CAL3	04/18/25 08:45		rubina	OK
4	0.4PPM	0.4PPM	CAL4	04/18/25 08:45		rubina	OK
5	1.0PPM	1.0PPM	CAL5	04/18/25 08:45		rubina	OK
6	1.3PPM	1.3PPM	CAL6	04/18/25 08:45		rubina	OK
7	2.0PPM	2.0PPM	CAL7	04/18/25 08:45		rubina	OK
8	ICV1	ICV1	ICV	04/18/25 09:29		rubina	OK
9	ICB1	ICB1	ICB	04/18/25 09:29		rubina	OK
10	CCV1	CCV1	CCV	04/18/25 09:29		rubina	OK
11	CCB1	CCB1	CCB	04/18/25 09:29		rubina	OK
12	RL	RL	SAM	04/18/25 09:29		rubina	OK
13	PB167618BL	PB167618BL	MB	04/18/25 09:40		rubina	OK
14	PB167618BS	PB167618BS	LCS	04/18/25 09:40		rubina	OK
15	Q1782-01	MW-1	SAM	04/18/25 09:40		rubina	OK
16	Q1782-01DUP	MW-1DUP	DUP	04/18/25 09:40		rubina	OK
17	Q1782-01MS	MW-1MS	MS	04/18/25 09:40		rubina	OK
18	Q1782-01MSD	MW-1MSD	MSD	04/18/25 09:40		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB135482

Review By	rubina	Review On	4/21/2025 9:42:09 AM
Supervise By	Iwona	Supervise On	4/21/2025 1:09:57 PM
SubDirectory	LB135482	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP112763
ICV Standard	WP112765
CCV Standard	WP112764
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP112614
Chk Standard	WP112537,WP111745,WP111385,WP111660

19	Q1782-03	MW-2	SAM	04/18/25 09:51	High	rubina	Dilution
20	Q1782-05	MW-3	SAM	04/18/25 09:51		rubina	OK
21	Q1782-07	MW-4	SAM	04/18/25 09:51		rubina	OK
22	CCV2	CCV2	CCV	04/18/25 09:51		rubina	OK
23	CCB2	CCB2	CCB	04/18/25 09:51		rubina	OK
24	Q1810-02	MOO-25-0118	SAM	04/18/25 09:51		rubina	OK
25	Q1831-01	EFFLUENT-COMPOS	SAM	04/18/25 09:51		rubina	OK
26	Q1835-01	EFFLUENT	SAM	04/18/25 09:51	High	rubina	Dilution
27	Q1835-05	INFLUENT	SAM	04/18/25 09:51	High	rubina	Dilution
28	CCV3	CCV3	CCV	04/18/25 09:56		rubina	OK
29	CCB3	CCB3	CCB	04/18/25 09:56		rubina	OK
30	Q1782-03DL	MW-2DL	SAM	04/18/25 11:06	Report 2X	rubina	Confirms
31	Q1835-01DL	EFFLUENTDL	SAM	04/18/25 11:06	Report 10X	rubina	Confirms
32	Q1835-05DL	INFLUENTDL	SAM	04/18/25 11:06	Report 2X	rubina	Confirms
33	CCV4	CCV4	CCV	04/18/25 11:06		rubina	OK
34	CCB4	CCB4	CCB	04/18/25 11:06		rubina	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135486

Review By	jignesh	Review On	4/18/2025 12:55:19 PM
Supervise By	Iwona	Supervise On	4/18/2025 1:01:03 PM
SubDirectory	LB135486	Test	TDS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135486BL	LB135486BL	MB	04/17/25 13:30		jignesh	OK
2	LB135486BS	LB135486BS	LCS	04/17/25 13:30		jignesh	OK
3	Q1831-01	EFFLUENT-COMPOS	SAM	04/17/25 13:30		jignesh	OK
4	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/17/25 13:30		jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135487

Review By	Iwona	Review On	4/18/2025 1:20:21 PM
Supervise By	jignesh	Supervise On	4/18/2025 1:25:12 PM
SubDirectory	LB135487	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112758,WP112757,WP112756,WP112755,WP112754,WP112753,WP112759,WP110380,WP112762,WP111415,V

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/18/25 11:45		Iwona	OK
2	CAL2	CAL2	CAL	04/18/25 11:45		Iwona	OK
3	CAL3	CAL3	CAL	04/18/25 11:46		Iwona	OK
4	CAL4	CAL4	CAL	04/18/25 11:46		Iwona	OK
5	CAL5	CAL5	CAL	04/18/25 11:47		Iwona	OK
6	CAL6	CAL6	CAL	04/18/25 11:47		Iwona	OK
7	ICV	ICV	ICV	04/18/25 11:48		Iwona	OK
8	ICB	ICB	ICB	04/18/25 11:48		Iwona	OK
9	CCV1	CCV1	CCV	04/18/25 11:49		Iwona	OK
10	CCB1	CCB1	CCB	04/18/25 11:49		Iwona	OK
11	RL Check	RL Check	SAM	04/18/25 11:50		Iwona	OK
12	PB167651BL	PB167651BL	MB	04/18/25 11:50		Iwona	OK
13	PB167651BS	PB167651BS	LCS	04/18/25 11:51		Iwona	OK
14	Q1831-01	EFFLUENT-COMPOS	SAM	04/18/25 11:51		Iwona	OK
15	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/18/25 11:52		Iwona	OK
16	Q1831-01MS	EFFLUENT-COMPOS	MS	04/18/25 11:52		Iwona	OK
17	Q1831-01MSD	EFFLUENT-COMPOS	MSD	04/18/25 11:53		Iwona	OK
18	Q1835-01	EFFLUENT	SAM	04/18/25 11:53		Iwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB135487

Review By	Iwona	Review On	4/18/2025 1:20:21 PM
Supervise By	jignesh	Supervise On	4/18/2025 1:25:12 PM
SubDirectory	LB135487	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112758,WP112757,WP112756,WP112755,WP112754,WP112753,WP112759,WP110380,WP112762,WP111415,V

19	Q1831-01DL	EFFLUENT-COMPOS	SAM	04/18/25 11:54		Iwona	OK
20	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/18/25 11:54		Iwona	OK
21	CCV2	CCV2	CCV	04/18/25 11:55		Iwona	OK
22	CCB2	CCB2	CCB	04/18/25 11:56		Iwona	OK
23	Q1831-01MS	EFFLUENT-COMPOS	MS	04/18/25 11:56		Iwona	OK
24	Q1831-01MSD	EFFLUENT-COMPOS	MSD	04/18/25 11:57		Iwona	OK
25	CCV3	CCV3	CCV	04/18/25 11:57		Iwona	OK
26	CCB3	CCB3	CCB	04/18/25 11:58		Iwona	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB135492

Review By	rubina	Review On	4/24/2025 2:14:53 PM
Supervise By	Iwona	Supervise On	4/24/2025 2:15:57 PM
SubDirectory	LB135492	Test	BOD Soluble

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112768,W3149,WP110386,W3103,W3109,W3105,WP112771,WP112769,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135492BL	LB135492BL	MB	04/18/25 13:45		rubina	OK
2	LB135492BS	LB135492BS	LCS	04/18/25 13:45		rubina	OK
3	LB135492BSD1	LB135492BSD1	LCS	04/18/25 13:45		rubina	OK
4	LB135492BSD2	LB135492BSD2	LCS	04/18/25 13:45		rubina	OK
5	Q1831-01	EFFLUENT-COMPOS	SAM	04/18/25 13:45		rubina	OK
6	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/18/25 13:45		rubina	OK

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Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB135493

Review By	rubina	Review On	4/24/2025 2:14:49 PM
Supervise By	Iwona	Supervise On	4/24/2025 2:15:15 PM
SubDirectory	LB135493	Test	BOD5

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP112768,W3149,WP110386,W3103,W3109,W3105,WP112771,WP112769,WP111323

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135493BL	LB135493BL	MB	04/18/25 13:45		rubina	OK
2	LB135493BS	LB135493BS	LCS	04/18/25 13:45		rubina	OK
3	Q1831-01	EFFLUENT-COMPOS	SAM	04/18/25 13:45		rubina	OK
4	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/18/25 13:45		rubina	OK
5	Q1833-02	EFF-WASTE-WATER	SAM	04/18/25 13:45	Intermediate dilution-10x	rubina	OK
6	Q1835-01	EFFLUENT	SAM	04/18/25 13:45	Intermediate dilution-100x	rubina	OK
7	Q1835-05	INFLUENT	SAM	04/18/25 13:45	Intermediate dilution-100x	rubina	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135500

Review By	jignesh	Review On	4/21/2025 11:48:18 AM
Supervise By	Iwona	Supervise On	4/21/2025 11:52:17 AM
SubDirectory	LB135500	Test	TSS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135500BL	LB135500BL	MB	04/21/25 10:00		jignesh	OK
2	LB135500BS	LB135500BS	LCS	04/21/25 10:00		jignesh	OK
3	Q1831-01	EFFLUENT-COMPOS	SAM	04/21/25 10:00		jignesh	OK
4	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/21/25 10:00		jignesh	OK
5	Q1833-02	EFF-WASTE-WATER	SAM	04/21/25 10:00		jignesh	OK
6	Q1835-01	EFFLUENT	SAM	04/21/25 10:00		jignesh	OK
7	Q1835-04	AERATION-1	SAM	04/21/25 10:00		jignesh	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB135516

Review By	jignesh	Review On	4/22/2025 9:28:21 AM
Supervise By	Iwona	Supervise On	4/24/2025 4:39:20 PM
SubDirectory	LB135516	Test	Oil and Grease

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3153,M6069,EP2604,WP110826,NA,NA,WP110827,NA,WP110828

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135516BL	LB135516BL	MB	04/22/25 10:20		jignesh	OK
2	LB135516BS	LB135516BS	LCS	04/22/25 10:20		jignesh	OK
3	Q1831-02	EFFLUENT-GRAB	SAM	04/22/25 10:20		jignesh	OK
4	Q1831-03	Q1831-02MS	MS	04/22/25 10:20		jignesh	OK
5	Q1831-04	Q1831-02MSD	MSD	04/22/25 10:20		jignesh	OK
6	Q1835-01	EFFLUENT	SAM	04/22/25 10:20		jignesh	OK
7	Q1835-02	Q1835-01MS	MS	04/22/25 10:20		jignesh	OK
8	Q1835-03	Q1835-01MSD	MSD	04/22/25 10:20		jignesh	OK

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Instrument ID: SPECTROPHOTOMETER-2

Daily Analysis Runlog For Sequence/QCBatch ID # LB135532

Review By	Iwona	Review On	4/23/2025 4:55:23 PM
Supervise By	jignesh	Supervise On	4/23/2025 4:55:58 PM
SubDirectory	LB135532	Test	COD

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111522,WP111519,WP111517,WP111520,WP111518,WP111516,W3127,WP112718,WP112717

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	01/22/25 13:30		Iwona	OK
2	CAL2	CAL2	CAL	01/22/25 13:30		Iwona	OK
3	CAL3	CAL3	CAL	01/22/25 13:31		Iwona	OK
4	CAL4	CAL4	CAL	01/22/25 13:31		Iwona	OK
5	CAL5	CAL5	CAL	01/22/25 13:32		Iwona	OK
6	ICV	ICV	ICV	01/22/25 13:32		Iwona	OK
7	ICB	ICB	ICB	01/22/25 13:33		Iwona	OK
8	CCV1	CCV1	CCV	04/21/25 13:55		Iwona	OK
9	CCB1	CCB1	CCB	04/21/25 13:55		Iwona	OK
10	LB135532BL	LB135532BL	MB	04/21/25 13:56		Iwona	OK
11	LB135532BS	LB135532BS	LCS	04/21/25 13:56		Iwona	OK
12	Q1831-01	EFFLUENT-COMPOS	SAM	04/21/25 13:57		Iwona	OK
13	Q1831-01DUP	EFFLUENT-COMPOS	DUP	04/21/25 13:57		Iwona	OK
14	Q1831-01MS	EFFLUENT-COMPOS	MS	04/21/25 13:58		Iwona	OK
15	Q1831-01MSD	EFFLUENT-COMPOS	MSD	04/21/25 13:58		Iwona	OK
16	CCV2	CCV2	CCV	04/21/25 13:59		Iwona	OK
17	CCB2	CCB2	CCB	04/21/25 13:59		Iwona	OK

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

LAB CHRONICLE

OrderID:	Q1831	**OrderDate:**	4/17/2025 1:16:00 PM
Client:	Mars Chocolate North America, LLC	**Project:**	W.T.P. Final Effluent 2025
Contact:	Jeff Kram	**Location:**	L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1831-01	**EFFLUENT-COMPOSITE**	**WATER**			**04/17/25 05:00**			**04/17/25**
			Ammonia	SM4500-NH3		04/17/25	04/18/25 09:51	
			BOD Soluble	SM5210 B			04/18/25 13:45	
			BOD5	SM5210 B			04/18/25 13:45	
			COD	SM5220 D			04/21/25 13:57	
			Apparent Color	SM2120 B			04/18/25 09:40	
			Phosphorus-Total	365.3		04/18/25	04/18/25 11:51	
			TDS	SM2540 C			04/17/25 13:30	
			TSS	SM2540 D			04/21/25 10:00	
Q1831-01DL	**EFFLUENT-COMPOSITEDL**	**WATER**			**04/17/25 05:00**			**04/17/25**
			Phosphorus-Total	365.3		04/18/25	04/18/25 11:54	
Q1831-02	**EFFLUENT-GRAB**	**WATER**			**04/17/25 05:00**			**04/17/25**
			Oil and Grease	1664A			04/22/25 10:20	

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB167618

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 04/17/2025 **Time :** 14:00 **Temp :** 150 °C

End Digest Date: 04/17/2025 **Time :** 15:00 **Temp :** 160 °C

If both 04/17/2025 15:00 150C
04/17/2025 16:00 160C RM

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP112614
MS/MSD SPIKE SOL.	1.0ML	WP112613
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112613
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604. Due to bad matrix and client history 1ML was taken as an initial vol for Q1835-01,Q1835-05,Q1831-01

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/17/2025 17:00	RM (WC)	RM WC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB167618

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167618BL	PBW618	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167618BS	LCS618	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-01DUP	MW-1DUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-01MS	MW-1MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-01MSD	MW-1MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-01	MW-1	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-03	MW-2	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-05	MW-3	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1782-07	MW-4	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1810-02	MOO-25-0118	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1831-01	EFFLUENT-COMPOSITE	1	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1835-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1835-05	INFLUENT	1	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB167651

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#3

Block ID : WC S-1, WC S-2

Weigh By : IZ

Start Digest Date: 04/18/2025 **Time :** 09:45 **Temp :** 95 °C

End Digest Date: 04/18/2025 **Time :** 10:50 **Temp :** 96 °C

Digestion tube ID : M5595

Filter paper ID : 400213

pH Meter ID : N/A

Block Thermometer ID : WC-BLOCK#1

Prep Technician Signature: IZ

Supervisor Signature: AP

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	0.5ML	WP110401
MS/MSD SPIKE SOL.	0.5ML	WP110400
PBW	50ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP112615
AMMONIUM PERSULFATE	0.4g	W3035
pH Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP112753
CAL2	CAL2	50.0ML	WP112754
CAL3	CAL3	50.0ML	WP112755
CAL4	CAL4	50.0ML	WP112756
CAL5	CAL5	50.0ML	WP112757
CAL6	CAL6	50.0ML	WP112758
ICV	ICV	50.0ML	WP112758
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP112759
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

04/18/25

Alliance TECHNICAL GROUP

Water Phosphorus-Total Preparation Sheet

PB167651

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167651BL	PBW651	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB167651BS	LCS651	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1831-01DUP	EFFLUENT-COMPOSITEDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1831-01MS	EFFLUENT-COMPOSITEMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1831-01MSD	EFFLUENT-COMPOSITEMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1831-01	EFFLUENT-COMPOSITE	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1835-01	EFFLUENT	50	50	<2	N/A	N/A	N/A	N/A	N/A

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

Chemtech Project Number WTP Final Effluent 2024 Q1831

Bottle Order ID B2410055

CLIENT INFORMATION

Report to be sent to
COMPANY: Mars Chocolate North America,LLC
ADDRESS: 700 High Street
CITY: Hackettstown STATE: NJ ZIP: 07840
ATTENTION: Anthony Fosco EMAIL: anthony.fosco@effem.com
PHONE: 908-850-2446 FAX: 908-850-2734

PROJECT INFORMATION

PROJECT NAME: Waste Treatment Plant
PROJECT #: LOCATION:
Project Manager: Jeff Kram
EMAIL Address: jeffery.kram@effem.com
Telephone # 908-736-6742 FAX: 908-850-7923

BILLING INFORMATION

BILL TO: PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION:
PHONE:

DATA TURNAROUND INFORMATION

FAX: 5 DAYS*
HARD COPY: DAYS*
EDD DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS * QC
- X New Jersey REDUCED
- → New Jersey CLP
- ☐ EDD FORMAT None
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

1	2	3	4	5	6	7	8	9
BOD 5	TSS, TDS	Oil & Grease	Ammonia-N Total	Phosphorus Total, COD	BOD Soluble	Color		
PRESERVATIVES	E	E	C	C	C	E	E	C	

A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	E TYPE COMP	E TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9	COMMENTS
	1 Effluent Composite	Waste Water	X		4.17.25	5:00	10	X	X		X	X	X	X			
	2 Effluent Grab	Waste Water		X	4.17.25	5:00	3			X							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Joe Pinto	4/17/25 1123	1. 4-17-25 1123
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	4-17-25 1420	3.

Conditions of bottles or coilers at receipt: → COMPLIANT → NON COMPLIANT → COOLER TEMP 3.7c
MeOH extraction requires an additional 4oz. Jar for percent solid

Comments:
Temp 3.7 c Adjustment factor +1.0 IR Gun #1

Page 1 of 1

SHIPPED VIA:
CHEMTECH: → Picked Up

Shipment Complete YES

10/13/2004

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY #

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488