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## **CASE NARRATIVE**

**Mars Chocolate North America, LLC**

**Project Name: W.T.P. Final Effluent 2025**

**Project # N/A**

**Order ID # Q3344**

**Test Name: Ammonia,BOD Soluble,BOD5,COD,Color,Oil and Grease,Phosphorus-Total,TDS,TPH,TSS**

### **A. Number of Samples and Date of Receipt:**

2 Water samples were received on 10/14/2025.

### **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,TPH,TSS. This data package contains results for Ammonia,BOD Soluble,BOD5,COD,Color,Oil and Grease,Phosphorus-Total,TDS,TPH,TSS.

### **C. Analytical Techniques:**

The analysis of Oil and Grease,TPH 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.

Sample 1 EFFLUENT-COMPOSITE was diluted due to high concentrations for Phosphorus, Total.

The Blank Spike met requirements for all compounds.

The Duplicate (TANK-FARM-WATERDUP) analysis met criteria for all compounds except for Ammonia as N due to sample matrix interference.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

### **E. Additional Comments:**

As per method 1664A (Oil and Grease), MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD for Q3344 therefore Lab reported MS-MSD from Q3328.



As per method 1664A (TPH), MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project.

Sample Q3344-01 was analyzed with 20x dilution for Color parameter due to client history of high results.

Due to bad Matrix and Client History 1.00 ml was taken as an initial Volume for Ammonia for Q3344-01.

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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\_\_\_\_\_