RATIONALE FOR REISSUANCE OF PREATREATMENT PERMIT

Oxbow Greenwood LLC (Formerly Express Grain Terminals LLC)

Leflore County

Greenwood, MS

Standard Industrial Classification (SIC) Code: 2074

Pretreatment Permit No. MSP092387

Branch: Water I

Permit Writer: Deanna Rush

Date: March 8, 2023

# FACILITY INFORMATION

## Nature of Business: Soybean Oil Extraction

## Wastewater Description: Process Wastewater from Soybean Oil Extraction

## Proposed Flowrate: 0.003 MGD long-term average, 0.05 MGD daily maximum

1. Applicable Federal Guidelines: 40 CFR 403 General Pretreatment Regulations
2. Wastewater Treatment: Oil and grease skimmer

# RECEIVING POTW INFORMATION

## POTW & Permit Number: Greenwood POTW, AI 13155, Permit No. MS0023833

## POTW Treatment Type: Sequencing Batch Reactors (Activated Sludge)

1. POTW Design Flowrate: 6.32 million gallons per day (MGD)
2. POTW Receiving Stream: Yazoo River
3. POTW Receiving Stream 7Q10 (Q7/10): 1050 cfs (678.6 MGD)
4. **DATA FROM APPLICATION FORM 2-P**

|  |  |  |  |
| --- | --- | --- | --- |
| Pollutant | Maximum Daily Value  | Long Term Avg. Value | No. of Analyses  |
| Biochemical Oxygen Demand (BOD) | 71,790 mg/L1603 lbs/day | 12,844.1 mg/L 317.1 lbs/day  | 17 |
| Chemical Oxygen Demand (COD)  |  ----- | 16,055 mg/L 396 lbs/day | Estimated  |
| Total Suspended Solids (TSS)  | 10,072 mg/L194 lbs/day | 1,246.1 mg/L 30.6 lbs/day | 17 |
| Ammonia  | 26 mg/L 0.7 lbs/day | 10.1 mg/L 0.3 lbs/day | 17 |
| Flow | 0.050 MGD (estimated)  | 0.003 MGD | 18  |
| Temperature  | Ambient  | Ambient  | Not measured  |
| pH  | 5.2 S.U. Minimum value | 8.6 S.U. Maximum value  | 17 |
| Oil and Grease  | 1587 mg/L36 lbs/day | 339.1 mg/L 8.2 lbs/day  | 17 |

1. **PROPOSED PERMIT LIMITATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Monthly Average  | Daily Maximum  | Sample Type  | Sampling Frequency  | DMR Reporting Frequency  |
| Flow  | Report MGD | Report MGD  | Totalizer | Daily  | Monthly  |
| BOD5 | Report mg/L and lbs/day | 2500 lbs/day Report mg/L  | 24-hr Composite  | Twice/month | Monthly |
| TSS | Report mg/L and lbs/day | Report mg/L and lbs/day  | 24-hr Composite  | Twice/month | Monthly |
| Ammonia  | Report mg/L and lbs/day | Report mg/L and lbs/day  | 24-hr Composite | Twice/month  | Monthly |
| Oil and Grease  | Report mg/L40 lbs/day  | Report mg/L60 lbs/day  | Grab | Twice/Month | Monthly |
| pH  | 6.0 S.U. min.  | 9.0 S.U. Max. | Grab  | Twice/Month  | Monthly |

DMR = Discharge Monitoring Report

1. **STAT**EME**NT OF BASIS**

The city of Greenwood POTW recommended permit limitations via letter October 10, 2016 for the Express Grain Terminal Facility. In a letter dated February 1, 2023, the city of Greenwood recommended the same permit limitations for Oxbow Greenwood, LLC that they had recommended for Express Grain Terminal, LLC in 2016.

1. **CHANGES TO THE DRAFT PERMIT**

The Environmental Permits Division (EPD) made the following changes in the draft permit:

* Changed CBOD5 limitations to BOD5 limitations. The city of Greenwood originally requested biochemical oxygen demand (BOD5) limitations, but the existing permit contains carbonaceous biochemical oxygen demand (CBOD5) limitations.
* Added a condition to the draft permit for the permittee to send a copy of each monthly discharge monitoring report to the city of Greenwood.
* Removed sanitary wastewater from the wastewater description.
* Removed biodiesel production from the facility description. Greenwood Oxbow, LLC will operate a Soybean Oil Extraction facility.