PERMIT RATIONALE FOR REISSUANCE

Pearson Investors Properties II LLC

Rankin County

Brandon, Mississippi

Water NPDES Permit No. MS0060038

March 28, 2023

1. FACILITY INFORMATION

Facility Name: Pearson Investors Properties II LLC

Facility Address: 124 Baker Lane

Brandon, MS 39047

Ridgeland,

Permit No.: MS0060038

SIC Code: 1623 – Water, sewer, and utility lines

Permit Writer: Carter Cress

EPD Branch: Water II

1. NATURE OF BUSINESS

This facility is a rental property that currently operates as an office building.

III. AVAILABILITY OF WASTEWATER DISCHARGE VIA CITY SEWER

In a phone conversation with member Mr. William Brad Perry on March 9, 2023, he stated that no connection is available.

IV. EFFLUENT AND RECEIVING STREAM FLOW DATA

In a phone conversation with member Mr. William Brad Perry on March 9, 2023, he stated that the only wastewater discharges that occur are domestic/sanitary.

Outfall 001 discharges treated domestic/sanitary wastewater to an unnamed tributary of Plummer Slough. The historical maximum discharge rate through outfall 001 is 1,250 gallons per day. The receiving waters are located in the Pearl River Basin.

V. TOTAL MAXIMUM DAILY LOAD (TMDL) AND 303(d) ISSUES

Plummer Slough (and any unnamed tributaries thereof) is not listed on the Mississippi 2022 Section 303(d) List of Impaired Water Bodies.

The permit complies with the following completed TMDLs:

1. Report No. 509032501 – Pearl River Basin – Designated Streams – Sediment – March 2009

2. Report No. 507010401 – Pearl River Basin – Legacy Pesticides – January 2007

VI. TYPE OF WASTEWATER TREATMENT

Domestic/sanitary wastewater is treated via an Aerated Treatment Unit (ATU) system thence chlorine disinfection.

VII. EPA APPLICABLE CATEGORICAL GUIDELINES

Not applicable.

VIII. DATA FROM MS SMALL DOMESTIC NPDES APPLICATION FORM

|  |  |
| --- | --- |
| Outfall No. | Design Flow of Treatment Facility |
| 001 | 500 gallons daily average |

IX. WATER QUALITY LIMITATIONS BASED ON WASTE LOAD ALLOCATION (WLA)

Not applicable.

X. CATEGORICAL GUIDELINE LIMITATIONS CALCULATIONS

Not applicable.

XI. PROPOSED FINAL LIMITATIONS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Outfall 001** | | | | | |
| **Average** Permit Limitations | | | | | |
| Parameter | Water Quality Standard | Waste Load Allocation | Current Permit Limitation | Proposed Permit Limitation | Basis1 |
| BOD5 | --- | --- | 30 mg/L | 30 mg/L | DG |
| Total Suspended Solids | --- | --- | 30 mg/L | 30 mg/L | DG |
| *E. coli* | 126 col./100 mL | --- | 126 col./100 mL | 126 col./100 mL | WQS |
| Oil and Grease | --- | --- | 10 mg/L | 10 mg/L | CPL |
| Chlorine (minimum) | --- | --- | 0.1 mg/L | 0.1 mg/L | DG |
| pH (minimum) | 6.0 SU | --- | 6.0 SU | 6.0 SU | WQS |
| **Maximum** Permit Limitations | | | | | |
| Parameter | Water Quality Standard | Waste Load Allocation | Current Permit Limitation | Proposed Permit Limitation | Basis1 |
| Flow | --- | --- | Report MGD | Report MGD | CPL |
| BOD5 | --- | --- | 45 mg/L | 45 mg/L | DG |
| Total Suspended Solids | --- | --- | 45 mg/L | 45 mg/L | DG |
| *E. coli* | 410 col./100 mL | --- | 410 col./100 mL | 410 col./100 mL | WQS |
| Oil and Grease | --- | --- | 15 mg/L | 15 mg/L | CPL |
| Chlorine | --- | --- | 1.0 mg/L | 1.0 mg/L | DG |
| pH | 9.0 SU | --- | 9.0 SU | 9.0 SU | WQS |

1 Basis: DG = Domestic Guideline; WQS = Water Quality Standard; CPL = Current Permit Limitation

For all parameters, the monitoring and reporting frequency shall be annually. All parameters other than flow shall be monitored via grab sampling. Flow shall be monitored via instantaneous sampling. No changes to permit limits are proposed in this reissuance.