

**Moore County Water Pollution Control Plant  
Wastewater Annual Performance Report  
Fiscal Year July 2021– June 2022**

➤ **General Information**

Facilities Names: Moore County Water Pollution Control Plant  
Moore County Interceptor & Collection System

Permits Issued to Moore County: Water Pollution Control Plant NC0037508  
Pinehurst WQCS00034

Contact Persons: Randy Gould, PE, Public Works Director: (910) 947-6315  
Daniel Gwyn, Wastewater Collection ORC: (910) 947-6315  
Stephen Morgan, Wastewater Plant ORC: (910) 947-4345

➤ **Treatment Plant & Collection System Description:**

The Moore County Water Pollution Control Plant (WPCP) is located at 1094 Addor Road in Aberdeen, North Carolina and operates under Permit No. NC0037508. The facility is currently permitted to treat 10 MGD. Flow entering the plant passes through 1 of 2 bar screens to the raw sewage influent pumps that transport the wastewater up to the grit removal units. Treatment is accomplished by splitting the flow between 3 trains, each consisting of a primary clarifier, 1<sup>st</sup> stage aeration basins, intermediate clarifier, 2<sup>nd</sup> stage aeration basins and a final clarifier. All flow then passes through sand filtration followed by UV disinfection. The treatment plant uses a biological treatment process to remove pollutants in the wastewater that can potentially be harmful to the environment and to the receiving stream. The facility uses anaerobic digestion to treat the sludge removed from the wastewater treatment process. The method used to dry sludge is belt filter press; the dried sludge is stored on-site then hauled to a landfill. These processes are maintained by Operators certified by the State of North Carolina and are inspected annually by the North Carolina Department of Environment Quality (NCDEQ). Reports are submitted monthly to NCDEQ that contain the results of testing done on the incoming raw wastewater and treated effluent discharged from the plant.

The treated water is discharged from the Plant into Aberdeen Creek into the Lumber River Basin. The wastewater enters the Plant from an interceptor sewer, a collection system that is made up of approximately 15 miles of gravity sewer lines that is capable of handling 32 MGD. This interceptor system receives wastewater from the collection systems of the following municipalities: Aberdeen, Carthage, Pinebluff, Pinehurst, Southern Pines and Vass. The WPCP facility also receives flow from Camp MacKall via force main that discharges directly into the WPCP raw sewage pump station. As part of this interceptor system, there are 19 flow monitoring stations that record flow information for bulk billing purposes to the municipalities.

Moore County Public Utilities (MCPU) is responsible for the Pinehurst Collection system. All together the interceptor and Pinehurst collection system consist of 28 miles of force mains, 207 miles of gravity lines, and 43 pumping stations.

➤ **Performance:**

**July 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**August 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**September 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**October 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**November 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**December 2021**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**January 2022**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**February 2022**

Moore County Public Works had a discharge of an estimated 500 gallons of untreated wastewater at Pump Station PW8 52 Kilbride Drive in Pinehurst, North Carolina on February 21, 2022. The spill was reported at 1:30 p.m. and continued for approximately 1 hour while repairs were made. The spill was due to pipe failure. The untreated wastewater entered an unknown tributary to Deep Creek. This notice is required by North Carolina General Statutes Article 21, Chapter 143.215C. NCDEQ was notified of the event on February 22, 2022, at 8:05 a.m. For more information contact Moore County Public Works at (910) 947-6315.

**March 2022**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**April 2022**

No Sanitary Sewer overflows (SSO's) or permit violations to report

**May 2022**

Moore County Water Pollution Control Plant exceeded BOD permitted limits for Week #5 and the Monthly average

Week #5 average was >24.3 mg/L which exceeded the weekly limit of 7.5 mg/L  
Monthly average was 5.17 mg/L which exceeded the monthly limit of 5.0 mg/L

### **June 2022**

Moore County Water Pollution Control Plant exceeded BOD permitted limits for Weeks #2 and #3 the Monthly average

Week 2 average BOD of 9.30, weekly average limit is 7.5

Week 3 average BOD of 9.38, weekly average limit is 7.5

Monthly average BOD of 6.63, monthly average limit is 5.0

#### **➤ Improvements to the System:**

- Lift Station 17-2 Rehabbed
- Lift Station 17-3 Rehabbed
- Lift Station PW4 had new electrical panel installed under new weather-proof hood along with new pump installed
- Lift Station PW 5 new electrical panel and hood installed
- Upgraded Lift Station B1
- Vault coated at PW1

#### **➤ Improvements to the Water Pollution Control Plant:**

- Valve replacement project of Raw Sewage Pump Station completed
- Second phase of the UV disinfection system ballast card upgrade completed
- Off site flow monitoring stations upgraded to 5G capability
- Primary Clarifier #2 valve vault installation completed
- In-house media rehabilitation of Tertiary Filter No. 5 of 6 completed

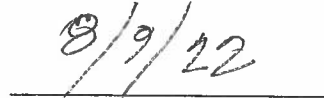
#### **➤ Notification:**

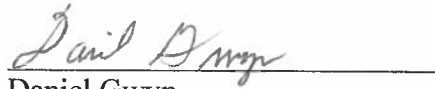
The availability of this report will be advertised in the local papers circulated in the Moore County area, and a Public Notice will be placed at the Moore County Public Works Building. This notice will inform all users and/or customers of the Moore County Water Pollution Control Plant that a report on the performance of this facility is available for their review. A copy of the report will be posted on the Moore County website or may be picked up at the Moore County Department of Public Works located at 5227 Highway 15-501 in Carthage, North Carolina. If you wish to receive a copy by mail, please call (910) 947-6315.

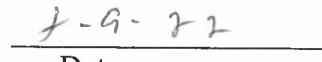
➤ **Certification:**


I certify under penalty of law this report is complete and accurate to the best of knowledge. I further certify this report will be made available to all users and/or customers of the Moore County Water Pollution Control Plant upon their request and advertised as noted above.

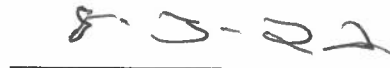
  
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Randy G. Gould, PE  
Public Works Director

  
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Date

  
\_\_\_\_\_  
Daniel Gwyn  
Wastewater Collection ORC

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Stephen Morgan  
Wastewater Plant ORC

  
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Date