

INSPECTION REPORT

Inspection Entry Date/Time	04/22/2025 09:00 AM (ET)	Announced: Yes	
Inspection Exit Date/Time	04/22/2025 11:10 AM (ET)	Access: Granted	
Weather			
Media	Water		
Statute(s)/Program(s)	Clean Water Act, NPDES, Wastewater Treatment Plant (WWTP)		
Type of Inspection	Compliance Evaluation Inspection (CEI)		
Permittee Name	Madison County Sewer District #2 WWTP		
Facility or Site Name	Madison County Sewer District #2 WWTP		
Facility/Site Physical Address	2795 Old Columbus Rd		
City, State, Zip Code	London, OH 43140		
County/Borough/Parish			
Facility GPS Coordinates	39.9486, -83.49014		
Mailing Address (If different)			
City, State, Zip Code			
FRS ID	110014326292		
Permit Number(s) (If Applicable)	OH0130915		
SIC and/or NAICS	4952		
Lead Inspector:			
Joseph Forth	JOSEPH FORTH Digitally signed by JOSEPH FORTH Date: 2025.06.13 10:47:33 -05'00'		
	EPA REGION 5	Forth.Joseph@epa.gov	(312) 886-7275
Supervisor Review:			
Molly Smith	MOLLY SMITH Digitally signed by MOLLY SMITH Date: 2025.06.13 11:13:20 -05'00'		
	EPA REGION 5	Smith.Molly@epa.gov	(312) 353-8773

SECTION I – INTRODUCTION

Site Entry and Inspection Objectives

EPA REGION 5 Lead Inspector, Joseph Forth, arrived at the Madison County Sewer District #2 WWTP (the “site” or “facility”), located at 2795 Old Columbus Rd, London, Ohio 43140, at 09:00 AM ET on April 22, 2025 for an announced inspection. EPA REGION 5 Lead Inspector presented credentials to Gordon Pool and informed the Facility that this was an EPA REGION 5 inspection to investigate elements of the Clean Water Act (CWA) Section 308 and implementing regulations. This report is based on information supplied by

Madison County Sewer District #2 WWTP representatives, direct observations made by the EPA REGION 5 inspectors, records and reports maintained by the permittee and other information including: photographs taken by EPA REGION 5 inspectors, physical evidence collected by the EPA REGION 5 inspectors, measurements taken by EPA REGION 5 inspectors, verbal or written statements made by information supplied by Madison County Sewer District #2 WWTP representatives during or subsequent to the on-site Inspection, and materials, processes, data, photographs, or documents shown, demonstrated, or submitted to the EPA REGION 5 inspectors by Madison County Sewer District #2 WWTP representatives during or subsequent to the on-site Inspection. In addition, information gathered prior to or subsequent to the Inspection from a review of EPA, State, and/or public records may be included in this report.

Attendees

Organization	Attendee Name	Title	Present in Opening Conf.	Present in Closing Conf.
EPA Region 5	Joseph Forth	Lead Inspector	Yes	Yes
EPA Region 5	Matthew Schulte	Inspector	Yes	Yes
Ohio EPA	Joanna Asuncion	Inspector	Yes	Yes
Mid-Ohio Water & Sewer District	Gordon Pool	Field Supervisor/Operator	Yes	No
Mid-Ohio Water & Sewer District	Daniel Fonseca	Operations Supervisor	Yes	Yes

Facility/Site Description

EPA REGION 5 lead inspector confirmed the following facility information:

The WWTP has a max designed flow of 300,000 gallons per day (gpd). The average daily flow is approximately 100,000 to 130,000 gpd. Flow enters the facility via pumped flow and starts with pre-screening. The flow is then split into 2 extended aeration basins. Each aeration basin has a corresponding clarifier the flow enters. Flow is then combined and enters a tertiary sand filter process. Then the flow goes through ultraviolet (UV) disinfection and a post aeration system. Finally, the flow is lifted via lift station and discharged from Outfall 001 to Deer Creek. The facility also has a 150,000-gallon equalization basin that flow can be diverted to during periods of high flow/storm events.

The facility has 10 employees, 3 of which are certified operators. The field supervisor is on-site between 20 and 30 hours per week.

All sludge is hauled to London City WWTP (also operated by Mid-Ohio facility) for further treatment. Processed sludge is then utilized in land application. At the time of the inspection, the facility has been storing sludge for 6-8 weeks because of maintenance occurring at London City WWTP.

Mid-Ohio takes their own NPDES permit samples. The bottles with pre-filled preservatives are provided by Masi Labs. Parameters analyzed on-site are pH, dissolved oxygen (DO), and temperature. During review on the inspection, the time of sample collection and sample analysis were not currently being recorded for pH, DO, and temperature.

Daniel Fonseca stated that there are plans to begin construction on infrastructure to pump sewage from the

facility to a new wastewater treatment plant that is expected to be built in approximately 5 years.

The facility shared that the operator that is usually on-site at Madison County Sewer District #2, Tim Patterson, was not available the day of the inspection, as he splits his time between plants #1 and #2. Tim Patterson was at plant #1 on the day of the inspection.

At the time of inspection, the tertiary sand filter system was non-operational. Daniel Fonseca stated that the sand filter system has been non-operational for over a year. According to the Facility, the Mid-Ohio Water and Sewer District Director will be visiting the WWTP to evaluate the sand filter status and begin the process of replacement. Daniel Fonseca stated that "ideally" the sand filter would be replaced within a month of the date of inspection (April 22, 2025).

According to the Facility, the collection system has not experienced any Sanitary Sewer Overflows (SSOs), but occasionally a customer will have their basement back up if they do not have check valves installed.

Daniel Fonseca stated that the WWTP does not perform any water softening. He stated that most, if not all, homes in the area have some form of water softening system. This softened water leaches copper from the pipes in homes and the collection system. Daniel Fonseca states this is the cause for the facility's copper exceedances.

According to the facility, the past ammonia issues have been related to a clarifier becoming clogged with debris and not being able to properly operate. When this occurs, the clarifier is shut down and manually cleaned.

According to the facility, the 2024 E.coli issues at the facility were related to only one grab sample that had a high exceedance. When the sample was averaged with the second weekly grab sample, the facility was within the weekly limit.

Facility/Site Information

Location(s)

Location/Area/Sub-area	Description
Outfall 001	
Treatment Plant	All equipment and processes associated with the wastewater treatment process.

SECTION II – OBSERVATIONS

Location: Treatment Plant	
Observation #: JF1-OB-001	Date: 04/22/2025
During the inspection, there appeared to be a large build-up of sludge/debris on the baffle walls of the clarifiers (See Photo # 6). Daniel Fonseca stated that the baffle walls for the clarifiers are currently cleaned once per year. Samples are taken at the post aeration system.	

Photo(s)

1.

[IMG_0453.JPG](#)

2.

[IMG_0454.JPG](#)

3.

[IMG_0455.JPG](#)

4.

[IMG_0448.JPG](#)

5.

[IMG_0456.JPG](#)

6.

[IMG_0449.JPG](#)

7.

[IMG_0451.JPG](#)

8.

[IMG_0452.JPG](#)

9.

[IMG_0450.JPG](#)

10.

[IMG_0447.JPG](#)

Location: Outfall 001

Observation #: JF1-OB-002

Date: 04/22/2025

Outfall 001 had proper signage.

Photo(s)

1.

[IMG_0457.JPG](#)

SECTION III – RECORDS REVIEW

Records may not be in sequential order.

Record: Discharge Monitoring Reports (DMR) Reports

Are of Concern (AOC): No

Ref #: JF1-RR-001

Reviewed By: Joseph Forth

Reviewed Date: 04/29/2025

EPA requested E.coli sampling results for the period where the Facility had reported exceedances. Daniel Fonseca provided the documents to EPA on April 29, 2025.

Document(s)

1.

2024 Ecoli Season Results.xlsx

SECTION IV – SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

No sampling was conducted.

SECTION V - AREA OF CONCERN

Areas of Concern may not be in sequential order.

The presentation of Areas of Concern does not constitute a formal compliance determination or violation.

AOC Reference #: JF1-OC-FD	
AOC: Time of sample collection and sample analysis were not currently being recorded for pH, DO, and temperature.	

AOC Reference #: JF1-OC-NT	
AOC: At the time of inspection, the tertiary sand filter system was non-operational. Daniel Fonseca stated that the sand filter system has been non-operational for over a year.	

AOC Reference #: JF1-OC-NT	
AOC: Daniel Fonseca stated that the WWTP does not perform any water softening. He stated that most, if not all, homes in the area have some form of water softening system. This softened water leaches copper from the pipes in homes and the collection system. The facility believes this is the cause for the facility's copper exceedances, according to Daniel Fonseca.	

AOC Reference #: JF1-OB-001	Location: Treatment Plant
AOC: During the inspection, there appeared to be a large build-up of sludge/debris on the baffle walls of the clarifiers (See Photo # 6). Daniel Fonseca stated that the baffle walls for the clarifiers are currently cleaned once per year.	

SECTION VI – CLOSING CONFERENCE AND FOLLOW UP

Closing Conference

EPA Staff conducted Cyber Security questionnaire at 10:53 AM ET.

The EPA REGION 5 Lead Inspector held a closing conference with Facility personnel at 11:10 AM ET on April 22, 2025, for the inspection. During the closing conference, EPA REGION 5 Lead Inspector discussed the observations and Areas of Concern identified during the inspection. Areas of concern are as follows: intermittent copper NPDES permit effluent limit exceedances, the sand filter being non-operational for over a year, cleaning and regular maintenance frequency, Facility not currently recording times for sample taken and analyzed. Observations and Areas of Concern have not yet been evaluated for a formal compliance determination.

Follow Up

On May 27, 2025, via email, Daniel Fonseca stated that the new estimated date for having the sand filter operational again is July 31, 2025.

Communication Log

E.coli sampling data received by EPA REGION 5 after exiting the Facility on April 29, 2025.

SECTION VII – LIST OF APPENDICES

- 1. Photo Log
- 2. Document Log

APPENDIX 1: PHOTO LOG – CANON PC1587 – Serial No.
30203400928

NOTE: Camera clock was set to Central Time, not Eastern Time
that the inspection was conducted in.



Photo 1			IMG_0447.JPG
04/22/2025 09:23 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			West
Photo of influent screening process.			



Photo 2			IMG_0448.JPG
04/22/2025 09:24 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			East
Photo of equalization basin.			



Photo 3			IMG_0449.JPG
04/22/2025 09:25 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			North
Photo of aeration system, side 1.			



Photo 4			IMG_0450.JPG
04/22/2025 09:26 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			North
Photo of sludge wasting tank #2.			



Photo 5			IMG_0451.JPG
04/22/2025 09:26 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			South
Photo of clarifier #2.			



Photo 6			IMG_0452.JPG
04/22/2025 09:27 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			Down
Photo of baffle wall before clarifier #1.			



Photo 7			IMG_0453.JPG
04/22/2025 09:31 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			Down
Photo of sand filter process.			



Photo 8			IMG_0454.JPG
04/22/2025 09:32 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			Down
Photo of UV system.			



Photo 9			IMG_0455.JPG
04/22/2025 09:33 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			Down
Photo of UV system.			



Photo 10			IMG_0456.JPG
04/22/2025 09:36 AM	No CBI	No PII	Photographer: Joseph Forth
Treatment Plant			Down
Photo of post aeration system and sampling point.			



Photo 11			IMG_0457.JPG
04/22/2025 09:48 AM	No CBI	No PII	Photographer: Joseph Forth
Outfall 001			South
Photo of Outfall 001 and outfall signage.			

APPENDIX 2: DOCUMENT LOG

Document Type	Document Name	Contains CBI	Contains PII	Uploaded By	Date Received
DMR Reports	2024 Ecoli Season Results.xlsx	No	No	Joseph Forth	04/29/2025