

INSPECTION REPORT

Inspection Entry Date/Time	08/22/2023 12:00 PM (ET)	Announced: No
Inspection Exit Date/Time	08/22/2023 04:00 PM (ET)	Access: Granted
Weather	Sunny, mid-70s	
Media	Water	
Statute(s)/Program(s)	Clean Water Act, NPDES	
Type of Inspection	Compliance Evaluation Inspection (CEI)	
Permittee Name	Delta WWTP	
Facility or Site Name	Delta WWTP	
Facility/Site Physical Address	516 Locust St	
City, State, Zip Code	Delta, OH 43515	
County/Borough/Parish	Fulton	
Facility GPS Coordinates	41.568224, -84.001861	
FRS ID	110006322247	
Permit Number(s) (If Applicable)	OH0020974	
SIC and/or NAICS	4952	

Lead Inspector:			
Megan Zale	MEGAN ZALE	Digitally signed by MEGAN ZALE Date: 2023.10.11 08:50:38 -04'00'	[Date]
	EPA Region 5	zale.megan@epa.gov	(440) 250-1711
Supervisor Review:			
Brooke Furio	BROOKE FURIO	Digitally signed by BROOKE FURIO Date: 2023.10.13 05:47:43 -04'00'	[Date]
	EPA Region 5	furio.brooke@epa.gov	(440) 250-1705

SECTION I – INTRODUCTION

Site Entry and Inspection Objectives

EPA Region 5 Lead Inspector, Megan Zale, arrived at the Delta WWTP (the “plant” or “facility”), located at 516 Locust St, Delta, OH 43515, at 12:00 PM (ET) on 08/22/2023 for an unannounced inspection. EPA Region 5 Lead Inspector presented credentials to Facility and informed them that this was an EPA Region 5 inspection to determine compliance as authorized by Clean Water Act (CWA) Section 308 and implementing regulations. This report is based on information supplied by Delta WWTP representatives, direct observations made by the EPA Region 5 inspector, records and reports maintained by the permittee and other information including: photographs taken by EPA Region 5 inspector(s), physical evidence collected by the EPA Region 5 inspector(s),

measurements taken by EPA Region 5 inspector(s), verbal or written statements made by information supplied by Delta 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 inspector(s) by Delta 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	Megan Zale	Lead Inspector	Yes	Yes
Village of Delta	Frank D'Ambrosia	Operator of Record	Yes	Yes
Village of Delta	Andy Glenn	Village Administrator	Yes	Yes
Village of Delta	Chris Maier		Yes	Yes

Facility/Site Description

EPA Region 5 lead inspector confirmed the following facility information:

Wastewater treatment at the facility begins with a bar screen at the influent. The bar screen is was not in operation at the time of the inspection, but was repaired afterward, and photos sent to EPA on September 25, 2023. The wastewater flow then goes to a wet well, through a vortex grit remover, treated with aluminum sulfate to assist with phosphorous removal, and then to 3 batch reactors. The facility uses a sequencing batch reactor system, in which equalization, aeration, and clarification are completed in each tank; the facility has 3 batch reactor tanks used in sequence. The wastewater flow then flows to a primary and secondary sludge digester and then through ultraviolet disinfection, post-aeration, and then effluent is measured with an ultrasonic flow meter and v-notch weir and then discharged to Bad Creek. The facility has a SCADA system but at the time of inspection, it did not have alarms that reach out remotely to the staff (the plant alarms were localized). The operator stated that the SCADA system was expected to be finished being upgraded to include alarms by the end of September 2023. The SCADA system was upgraded after the inspection in late September to include the remote alarms. There is a 2-million-gallon combined sewer overflow (CSO) storage basin at the plant that was finished being built in 2017. During rain events, some of the wastewater flow is routed to the CSO storage basin to be treated later. The CSO basin has four aerators and an ultrasonic sensor for level measurement. The plant's design capacity is 0.725 million gallons per day (MGD) and the average flow is 0.25 MGD. Sludge from the plant is hauled to Wood County landfill once a year; 40 to 80 dry tons are hauled per year. The plant has an on-site generator that powers the entire plant and is automatically activated.

The operator of record is Frank D'Ambrosia, Class III certified, and is on site for 20 hours/week (Monday through Friday 7am to 11am), as required by Ohio regulations for a Class II plant. Chris Maier is on site 40 hours/week and is working on his operator certifications. The facility's in-house laboratory is used to analyze Ammonia, e. coli, total dissolved solids, total suspended solids, CBOD, dissolved oxygen, temperature and pH. The facility uses BoJhun Laboratory in Fostoria, Ohio for all other sample analyses.

The operator stated that the plant's historic ammonia exceedances are due to high flows at the plant being low in bacteria and throwing the SBR units out of balance. Additionally, he stated that the plant's historic total suspended solids and ammonia exceedances were caused by the retention time in the SBR units being reduced during high flow events, which reduces their efficacy.

Plans for improvements besides the SCADA system and bar screen are replacing actuators on two of the four influent pumps (the staff said they expect them in November), and replacing a wall in the post-aeration tank (the staff stated this will occur when they change to winter operation in November). The site representatives stated that a goal for 2024 is an assessment by the engineering firm Jones & Henry to determine long-term plans for improvements.

SECTION II – OBSERVATIONS

DELTA WWTP		
Observation #: MZ2-OB-001	Date: 08/22/2023	Weather: Sunny, mid-70s
During the inspection, the facility operator stated that the plant does not have alarms in its SCADA system that are sent out remotely to plant staff, only localized alarms. The SCADA system was upgraded in late September to include the remote alarms. EPA communicated with the operator on September 25, 2023.		

DELTA WWTP		
Observation #: MZ2-OB-002	Date: 08/22/2023	Weather: Sunny, mid-70s
The facility's automatic bar screen was not operating at the time of inspection. The Village had the bar screen repaired in September, 2023, as evidenced by photos sent to EPA on September 25, 2023.		

DELTA WWTP		
Observation #: MZ2-OB-003	Date: 08/22/2023	Weather: Sunny, mid-70s
The operator stated that the plant's historic ammonia and total suspended solids exceedances are due to high flows at the plant being low in bacteria and throwing the SBR units out of balance. Additionally, he stated that the retention time in the SBR units is reduced during high flow events, which reduces their efficacy.		

SECTION III – RECORDS REVIEW

Records may not be in sequential order.

Record: DMR Reports		AOC: No
Ref #: MZ2-RR-004	Reviewed By: Megan Zale	Reviewed Date: 09/24/2023
Discharge monitoring reports for January through June 2023		
Record: Laboratory Analysis Reports		AOC: No
Ref #: MZ2-RR-003	Reviewed By: Megan Zale	Reviewed Date: 09/24/2023
Laboratory analysis reports: 5 reports in April 2023, 2 reports in May 2023, 4 reports in June 2023.		

Record: Other - Flow Records		AOC: No
Ref #: MZ2-RR-002	Reviewed By: Megan Zale	Reviewed Date: 08/22/2023
Flow records recorded from SCADA for January through August 2023.		
Record: Other - Laboratory Chain of Custody Forms		AOC: No
Ref #: MZ2-RR-001	Reviewed By: Megan Zale	Reviewed Date: 08/22/2023
Laboratory Chain of Custody Forms for dates: 4/4/2023 (2 forms), 4/20/2023 (3 forms), 5/11/2023, 5/25/2023, 6/8/2023, 6/22/2023, 6/23/2023, 8/16/2023		

SECTION IV – SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

No sampling was conducted.

SECTION V - AREA OF CONCERN

Area(s) of Concern may not be in sequential order.

The presentation of Area(s) of Concern does not constitute a formal compliance determination or violation.

AOC Reference #: MZ2-OB-003	
Regulation and/or Permit Requirement	
According to NPDES permit OH0020974 Part III. 3. A. "All wastewater treatment works shall be operated in a manner consistent with the following: At all times, the permittee shall maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee necessary to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures..."	
AOC:	
The operator stated that the plant's historic ammonia and total suspended solids (TSS) exceedances are due to high flows at the plant being low in bacteria and throwing the SBR units out of balance. Additionally, he stated that the retention time in the SBR units is reduced during high flow events, which reduces their efficacy. However, upon reviewing data from discharge monitoring reports, high flow events do not seem to correlate with high TSS/ammonia. The plant's design capacity is 0.725 million gallons per day (MGD) and the average flow is 0.25 MGD. There is also a 2-million-gallon overflow capacity. A lot of the exceedances are during approximately 0.3 to 0.4 MGD. Other times no exceedances during those higher events.	

SECTION VI – CLOSING CONFERENCE AND FOLLOW UP**Closing Conference**

The EPA Region 5 Lead Inspector held a closing conference with Facility personnel at 04:00 PM (ET) on 08/22/2023 for the inspection. During the closing conference, EPA Region 5 Lead Inspector discussed the

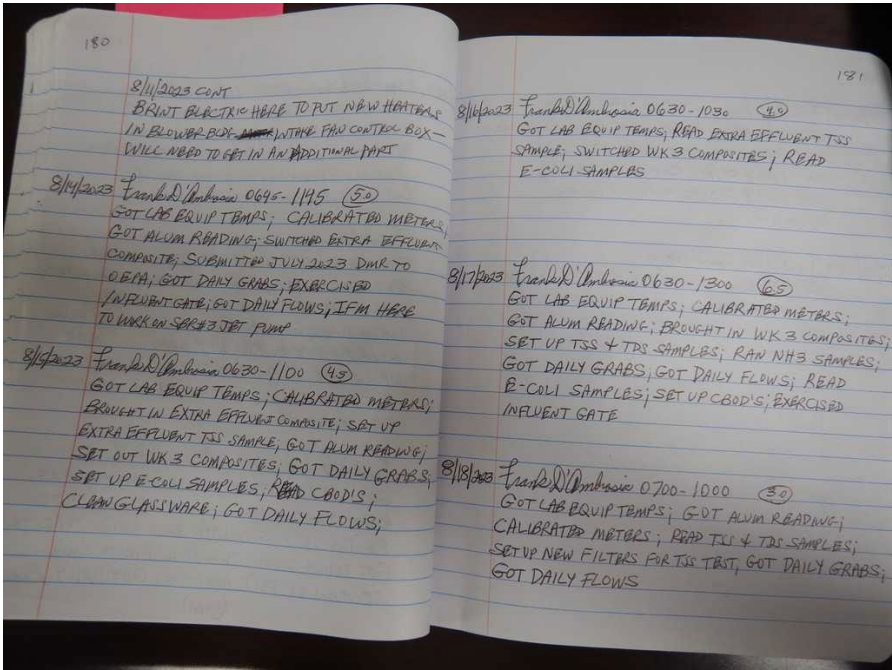
observations and Area(s) of Concern identified during the inspection. Observations and Area(s) of Concern have not yet been evaluated for a formal compliance determination.

EPA spoke with facility representatives about the lack of remote SCADA alarms for the plant, the inoperable automatic bar screen, and the plant's ammonia and total suspended solids exceedances.

SECTION VII – LIST OF ATTACHMENTS

1. Photo Log

ATTACHMENT 1: PHOTO LOG



Facility Log Book			DSCN0613.JPG
08/22/2023 01:02 PM	No CBI	No PII	Photographer: Megan Zale
Facility Log Book			



Laboratory refrigerator for samples			DSCN0614.JPG
08/22/2023 01:09 PM	No CBI	No PII	Photographer: Megan Zale
Laboratory refrigerator for samples			



Influent sluice gate			DSCN0615.JPG
08/22/2023 01:14 PM	No CBI	No PII	Photographer: Megan Zale
Influent sluice gate			



Wet well			DSCN0616.JPG
08/22/2023 01:17 PM	No CBI	No PII	Photographer: Megan Zale
Wet well			



Bar screen			DSCN0617.JPG
08/22/2023 01:19 PM	No CBI	No PII	Photographer: Megan Zale
Bar screen			



Influent flow meter			DSCN0618.JPG
08/22/2023 01:20 PM	No CBI	No PII	Photographer: Megan Zale
Influent flow meter			



Sequencing batch reactor 1			DSCN0621.JPG
08/22/2023 01:34 PM	No CBI	No PII	Photographer: Megan Zale
Sequencing batch reactor 1			



Sequencing batch reactor 2			DSCN0622.JPG
08/22/2023 01:35 PM	No CBI	No PII	Photographer: Megan Zale
Sequencing batch reactor 2			



Sequencing batch reactor 2			DSCN0623.JPG
08/22/2023 01:35 PM	No CBI	No PII	Photographer: Megan Zale
Sequencing batch reactor 2			



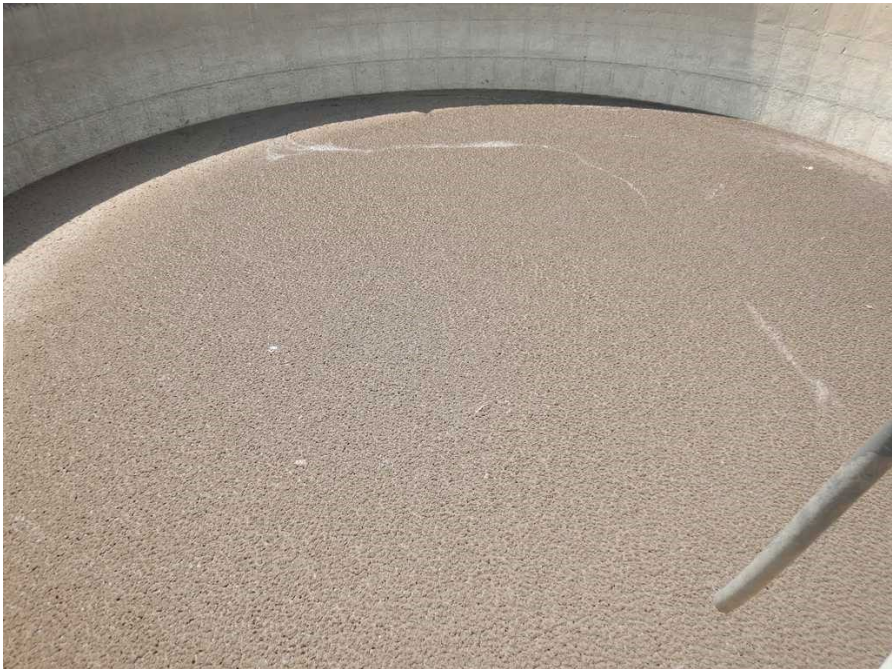
Sequencing batch reactor 3			DSCN0624.JPG
08/22/2023 01:35 PM	No CBI	No PII	Photographer: Megan Zale
Sequencing batch reactor 3			



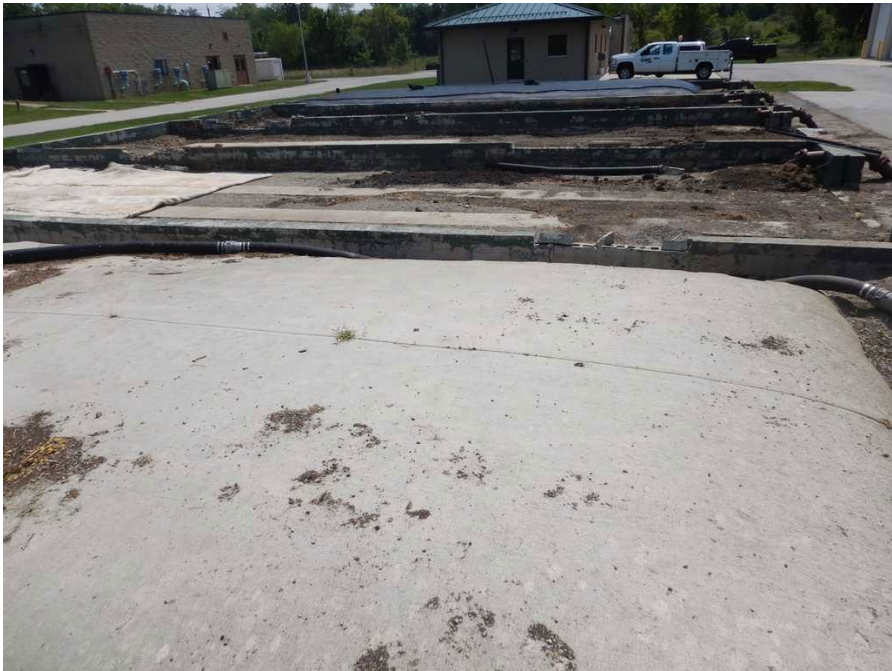
Post aeration tank			DSCN0625.JPG
08/22/2023 01:39 PM	No CBI	No PII	Photographer: Megan Zale
Post aeration tank (dissolved oxygen addition)			



V-notch weir			DSCN0626.JPG
08/22/2023 01:41 PM	No CBI	No PII	Photographer: Megan Zale
V-notch weir for effluent flow measurement			



Secondary sludge digester			DSCN0627.JPG
08/22/2023 01:48 PM	No CBI	No PII	Photographer: Megan Zale
Secondary sludge digester			



Sludge drying bags			DSCN0628.JPG
08/22/2023 01:50 PM	No CBI	No PII	Photographer: Megan Zale
Sludge drying bags			



Primary/first sludge digester			DSCN0629.JPG
08/22/2023 01:51 PM	No CBI	No PII	Photographer: Megan Zale
Primary/first sludge digester			



Sludge storage			DSCN0630.JPG
08/22/2023 01:54 PM	No CBI	No PII	Photographer: Megan Zale
Sludge storage (holds 150 to 200 dry tons)			



Outfall signage			DSCN0631.JPG
08/22/2023 01:57 PM	No CBI	No PII	Photographer: Megan Zale
Coordinates:			41.56686666, -84.00167166
Outfall signage			



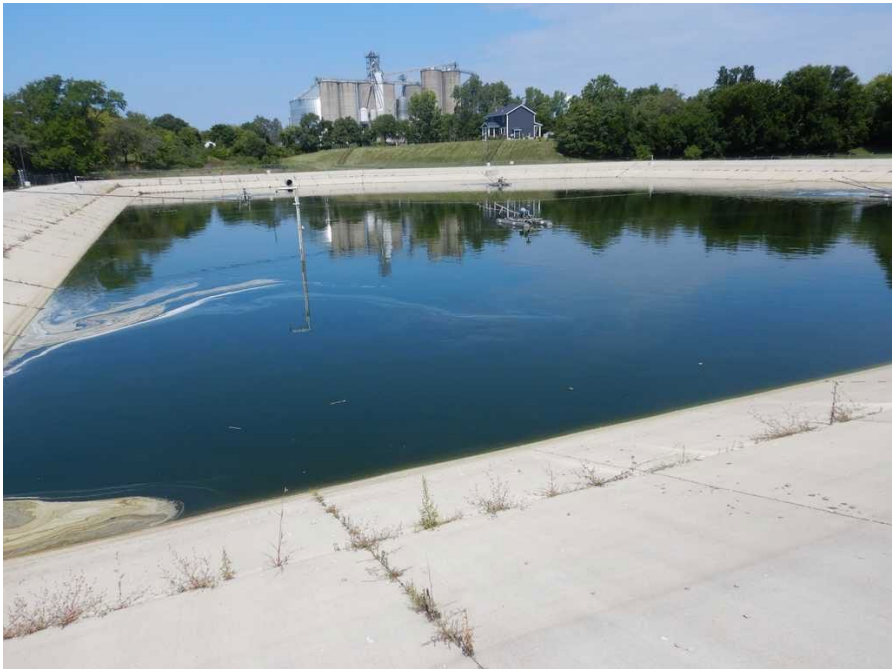
Outfall 001			DSCN0632.JPG
08/22/2023 01:57 PM	No CBI	No PII	Photographer: Megan Zale
Coordinates:			41.56682666, -84.001685
Outfall 001			



Outfall 001 effluent in receiving stream			DSCN0633.JPG
08/22/2023 01:58 PM	No CBI	No PII	Photographer: Megan Zale
Coordinates:			41.56683, -84.00166333
Outfall 001 effluent in receiving stream			



Downstream sample location			DSCN0634.JPG
08/22/2023 02:01 PM	No CBI	No PII	Photographer: Megan Zale
Downstream sample location			



CSO basin			DSCN0635.JPG
08/22/2023 02:05 PM	No CBI	No PII	Photographer: Megan Zale
CSO basin			



Upstream sample location			DSCN0637.JPG
08/22/2023 02:27 PM	No CBI	No PII	Photographer: Megan Zale
Upstream sample location			