

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS  
NONCOMPLIANCE NOTIFICATION FORM**

PERMITTEE NAME: Jefferson County Commission PERMIT NO: AL0022934  
 FACILITY LOCATION: Trussville WWTP 325 City Hall Drive, Trussville, Al 35173, Jefferson County  
 DMR REPORTING PERIOD: December 2017

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))

The operator at the Trussville WWTP discovered the UV disinfection system off and had to restart it when he arrived at the facility Sunday morning. No effluent samples were collected to determine if the discharge met the E. Coli discharge limitation. Approximately 1.15 million gallons were released without disinfection. Previous testing of the UV influent indicates the effluent was likely below the E. Coli daily maximum discharge limitation without disinfection.

2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

<b>LIST EFFLUENT VIOLATIONS (If applicable)</b>			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Result Reported (Include units)	Permit Limit (Include units)
<b>LIST MONITORING / REPORTING VIOLATIONS (If applicable)</b>			
Outfall Number (s)	NONCOMPLIANCE PARAMETER(S)	Monitoring / Reporting Violation (Provide description)	
0011	E. Coli	Unintentional bypass of disinfection process	

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):

The UV system malfunctioned when a low water condition was falsely detected. The system is controlled by a float in each of the three channels (one float per channel). The effluent flow did not drop to a low water condition, but the system shut itself off and did not restart. The Saturday operator finished her 8-hour shift prior to the malfunction and was not present at the time. The system did not alarm through the call-out program to alert the staff.

4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):

The UV system was off from Saturday December 9th at 1:23 p.m. until it was restarted on Sunday morning December 10th at 6:52 a.m.

5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

The wiring terminations for the floats were found to be loose and are the most probable cause of the malfunction. The set screws have been tightened. As an additional precaution, the low water alarm shut-off function has been disabled. The low water alarm has been verified in the call-out alert program. Low UV intensity has also been added to the alarm and call-out program as an additional measure of UV effectiveness to inform the staff of a problem.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Ladonna Coalburn - Shift Supervisor

NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print)

Ladonna Coalburn 12-13-17

SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED