Dinsmore

Legal Counsel.

DINSMORE & SHOHL LLP
101 S. Fifth St., Suite 2500
Louisville, KY 40202
www.dinsmore.com

Edward T. Depp
(502) 540-2347 (direct) · (502) 585-2207 (fax)
tip.depp@dinsmore.com

August 8, 2025

Via Electronic Filing
Linda C. Bridwell
Executive Director
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40601

Re: ***Bernice Coyle Watson Tackett, Complainant v. Bluegrass Water Utility Operating Company, LLC, Defendant,*** **Case No. 2025-00148**

Dear Executive Director Bridwell:

Enclosed for electronic filing in the above-captioned matter is Bluegrass Water Utility Operating Company, LLC's Responses to Commission Staff's First Request for Information. The certificate of service below certifies that the enclosed was filed electronically today. The filing may be accessed at the Commission's Electronic Filing Center located at http://psc.ky.gov/efs/efsmain.aspx.

Thank you, and if you have any questions with respect to this matter, please call me.

Sincerely yours,

DINSMORE & SHOHL LLP

/s/ Edward T. Depp

Edward T. Depp

Certification

I hereby certify that a copy of this filing has been served electronically on the Kentucky Public Service Commission. Additionally, a true and accurate copy of the foregoing was mailed via FedEx, on August 8, 2025 to the following:

Bernice Coyle Watson Tackett
2029 Longview Drive
Georgetown, KY 40324

Charles Tackett
134 Robinson Lane
Georgetown, KY 40324

Pursuant to the Commission's July 22, 2021 Order in Case No. 2020-00085, a paper copy of this filing has not been transmitted to the Commission.

/s/ *Edward T. Depp*
Counsel to Bluegrass Water Utility Operating Company, LLC

ETD/hdt

Enclosures

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

BERNICE COYLE WATSON TACKETT,	)	
	)	CASE NO.
COMPLAINANT	)	2025-00148
	)	
v.	)	
	)	
BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC,	)	
	)	
	)	
DEFENDANT	)	

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S
RESPONSES TO COMMISSION STAFF'S REQUEST FOR INFORMATION

Bluegrass Water Utility Operating Company, LLC ("Bluegrass Water" or the "Company"), by counsel, and pursuant to the July 21, 2025 Order ("Order") of the Kentucky Public Service Commission in this matter, files its responses to Commission Staff's First Request for Information to Bluegrass Water.

FILED: August 8, 2025

BERNICE COYLE WATSON TACKETT v. BLUEGRASS WATER UTILITY OPERATING COMPANY
CASE NO. 2025-00148

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-1: Provide a copy of the Kentucky Pollutant Discharge Elimination System (KPDES) permit, DOW ID KY0081591, in which Bluegrass Water is listed as the permittee following the purchase of Longview WWTP from LH Treatment Company, LLC on January 29, 2019, and transfer in Case No. 2019-00104. If there is no KPDES permit for Longview WWTP with Bluegrass Water listed as the permittee, explain why.

RESPONSE: Please see the attached file, "Exh. DR 1-1 Response - S Final Permit KY0081591," for a copy of the KPDES permit for the Longview WWTP. The permit lists Bluegrass Water as the permittee and shows an effective date of December 1, 2024.

Witness: Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company

BERNICE COYLE WATSON TACKETT v. BLUEGRASS WATER UTILITY OPERATING COMPANY
CASE NO. 2025-00148

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-2: Provide a copy of the engineering memorandum and the Corrective Action Plan (CAP) or amended CAP detailing the status of and repairs needed at Longview WWTP, which was submitted to and accepted by the Energy and Environment Cabinet in Case No. DOW-19-3-0154.

RESPONSE: Please see attachment "Exh. DR 1-2 Response - Engineering Memo - LH Treatment" for a copy of the preliminary engineering memorandum commissioned by Bluegrass Water prior to the acquisition of the Longview WWTP.

Additionally, refer to the attachments labeled "Exh. DR 1-2 Response" for all Corrective Action Plans (CAPs) and amended CAPs submitted by Bluegrass Water, detailing the status of the Longview WWTP. These documents were submitted to and accepted by the Energy and Environment Cabinet in Case No. DOW-19-3-0154.

Specifically, please see the attachment titled "Exh. DR 1-2 Response – 22.02.24 LH Treatment – EEC Closure Letter", in which the Division of Enforcement confirms that Bluegrass Water has complied with the terms and conditions of the Agreed Order, executed on September 3, 2019.

Witness: Jake Freeman, Director, Engineering, Bluegrass Water Utility Operating Company

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-3: **Provide Bluegrass Water's regular sewer maintenance schedule for the Longview WWTP, specifically include and denote the sanitary sewer line along Longview Drive (affected sewer line).**

a. **Provide a detailed explanation of how the maintenance schedule was created and who approved the provided schedule.**
b. **Describe in detail the steps taken and items inspected, as well as any forms designed to document the scheduled maintenance. If forms are to be filled out, provide a copy of an example of each required form.**
c. **Provide the maintenance log and inspection records for the affected sewer line from January 29, 2019, to date.**

RESPONSE: Bluegrass Water has implemented a routine maintenance protocol for the Longview Wastewater Treatment Plant (WWTP) and its sanitary sewer lines, including the one located along Longview Drive (the "affected sewer line"). Bluegrass Water does not have a written schedule because all maintenance activities are scheduled, assigned, and documented through Elements, Bluegrass Water's digital asset management system. The routine maintenance protocol includes, but is not limited to, periodic cleaning, visual inspections, and condition assessments of the sewer mains, manholes, and lift stations to ensure that the Longview WWTP and the collecting sewers are regularly inspected and adequately maintained. Specifically, Bluegrass Water conducts inspections of sewer lines, manholes, and lift stations in the Longview Drive area at least once

annually, consistent with Commission regulations. In addition, Bluegrass Water is able to monitor the mechanical equipment on the Longview WWTP system in real-time with data obtained from the remote monitoring equipment ("RME"), as authorized by the Commission in Case No. 2022-00216.

a. The maintenance protocol was developed through collaboration between Bluegrass Water's Operations Team and Asset Management Team. In establishing the protocol, the Company considered historical system performance data, manufacturer recommendations for equipment, applicable regulatory requirements, and system-specific environmental and operational risk factors. The completed schedule is reviewed and approved by senior operations leadership to ensure it aligns with internal best practices and complies with public health and environmental protection standards.

b. Maintenance activities follow a structured process designed to ensure the proper functioning of the wastewater system and to prevent unplanned service disruptions. Each scheduled maintenance visit to the WWTP and the affected sewer line involves detailed inspections and servicing of key infrastructure components, including lift stations, pumps, valves, grinders, aeration systems, clarifiers, and SCADA controls. During these inspections, personnel assess equipment functionality, identify signs of wear or damage, and implement preventative measures to reduce the risk of system failure or sanitary sewer overflows (SSOs). These inspections occur at least once annually.

All inspections follow a standardized checklist to ensure consistency across sites and teams. The inspection process for the WWTP includes verification of mechanical and electrical performance, cleanliness, structural integrity, and alarm and control system functionality. Each of these maintenance and inspection activities is documented using Elements, Bluegrass Water's digital asset management system. This system incorporates customized forms for each task, provides automated scheduling for recurring inspections, and enables real-time data entry by field personnel. Recurring maintenance tasks are created and auto-generated in Elements every Sunday for the upcoming week and are assigned directly within the platform to ensure timely completion and proper documentation.

Please see attachments labeled "Exh. DR 1-3b Response," for copies of the standardized checklists followed by field personnel and maintenance forms that are submitted weekly to document the steps taken and items inspected during regularly scheduled maintenance activities.

c. Please see attachment "Exh. DR 1-3c Response - WM_History – LH," for maintenance log records for the Longview WWTP from January 29, 2019 to date. With respect to the maintenance logs and inspection records for the affected sewer line (as well as the inspection records for the Longview WWTP), Bluegrass Water is currently working to gather this information and will supplement its response to this data request as soon as possible. In March 2025, Bluegrass Water switched from Utility Cloud to Elements as its primary asset management system, which is responsible for logging and storing maintenance and inspection data entered by field personnel. As a result, some of Bluegrass Water's maintenance and inspection records are still contained in

Utility Cloud, to which Bluegrass Water no longer has access. Bluegrass Water is currently working with Utility Cloud to obtain the maintenance and inspection records for the affected sewer line. Bluegrass Water will supplement this response in the future with all maintenance and inspection records in its possession for the affected sewer line from January 29, 2019 to date.

Witness: **Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company**

BERNICE COYLE WATSON TACKETT v. BLUEGRASS WATER UTILITY OPERATING COMPANY
CASE NO. 2025-00148

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-4: **Provide a copy of the records for all Sanitary Sewer Overflows (SSOs) occurring from the affected sewer line since January 29, 2019, with the date, the name company doing the repair/maintenance work, what occurred, and what was done to remedy the problem including any cleanup and damages paid, including the overflow that is the subject of this Complaint.**

RESPONSE: Bluegrass Water and its third-party operations and maintenance firm, Clearwater Solutions, have observed only one Sanitary Sewer Overflow (SSO) in connection with the Longview WWTP, including the affected sewer line. The event occurred on April 4, 2025, when sewage was observed coming up from a manhole. Clearwater Solutions promptly responded the day of this event to ensure the SSO was properly cleaned up, and the incident was properly reported to the Division of Water. Bluegrass Water is not aware of any damages resulting from the SSO that occurred on April 4, 2025, and therefore, no payments for damages have been made.

With respect to the incident referenced in the Complaint, Bluegrass Water received a report of a possible basement backup and promptly dispatched field crews to investigate. Upon arrival, personnel attempted to make contact with the resident; however, no one answered the door, and no SSO or evidence of an overflow was observed in the collection system at that time.

As a precautionary measure, Clearwater Solutions engaged a third-party contractor, Buchanan, to conduct a televised inspection (CCTV) of the affected gravity sewer line. The inspection confirmed that the line was flowing properly and that no blockage was present at the

time of inspections. While tree roots were observed within the line, there was no indication of an active obstruction. Notably, the continuous operations of the camera through the inspection confirmed the absence of any SSO, as the equipment would have become submerged and non-functional had a bull blockage been present. Because no overflow was directly observed by Bluegrass Water or its contractors, and no evidence of an SSO was found within the system, Bluegrass Water did not report an SSO for the event that is the subject of this Complaint.

Accordingly, only one SSO has been reported for the Longview WWTP system since January 29, 2019. Bluegrass Water is in the process of obtaining a copy of the report for this SSO and will supplement its response upon receipt of that documentation.

Witness: Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-5: **State or present a diagram establishing the exact location where in the sewer line Bluegrass Water found the obstruction(s) on March 21, 2025, and jetted to clear them.**

RESPONSE: Please see attachments "Exh. DR 1-5 Response - Longview Inspection Report 3-21-2025" and "Exh. DR 1-5 Response – Longview WWTP – Diagram."

As documented in the inspection report, the televised inspection began at Manhole 6,000, and the identified rootball was located 186.2 feet from the point of entry. The location of this rootball is also illustrated in the attached diagram titled "Exh. DR 1-5 Response – Longview WWTP – Diagram." The rootball was cleared by jetting the line during this service visit on March 21, 2025.

Witness: **Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company**

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-6: **Confirm that the use of cameras, established the presence of tree roots infiltrating the main sewer line, causing blockage discovered on March 21, 2025. If there is a video record, present a copy of the video. If not confirmed, explain the response.**

RESPONSE: Yes, the use of a camera during the inspection confirmed the presence of tree roots infiltrating the main sewer line, which caused the root intrusion discovered on March 21, 2025. The inspection was performed by Bluegrass Water's third-party contractor, Buchanan, using their equipment. The visual confirmation of root intrusion was made by the contract operations firm, in coordination with Buchanan.

A copy of the video record is provided as Attachment "Exh. DR 1-6 Response – Longview Dr Sanitary 3-21-2025 – Video."

For reference, please also see attachment "Exh. DR 1-5 Response – Longview Inspection Report 3-21-2025," which contains corresponding time stamps aligning with the video footage.

Witness: **Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company**

BERNICE COYLE WATSON TACKETT v. BLUEGRASS WATER UTILITY OPERATING COMPANY
CASE NO. 2025-00148

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-7: State whether the SSO that occurred on March 16, 2025, at 2029 Longview Drive, Georgetown Kentucky 40324 was reported to the Energy and Environment Cabinet Kentucky Division of Water (DOW)

a. If it was not reported to DOW, explain why it was not.

b. If it was reported to DOW, state whether a Notice of Violation was issued.

RESPONSE: Please see the Company's response to Request No. 1-4. Bluegrass Water never observed that an SSO occurred on March 16, 2025, at 2029 Longview Drive, Georgetown Kentucky 40324. Instead, the Bluegrass Water representatives discovered a rootball intrusion in the sewer line on March 16, 2025.

Personnel attempted to make contact with the resident both on-site and via telephone, but were unsuccessful. At the time of the site visit, no SSO or any evidence of an overflow was observed.

Accordingly, because there was no observable indication of an SSO on March 16, 2025, no report was submitted to the Kentucky Division of Water, Energy and Environment Cabinet for the incident that is the subject of the Complaint.

Witness: Todd Thomas, Sr. Vice President, Bluegrass Water Utility Operating Company

BERNICE COYLE WATSON TACKETT v. BLUEGRASS WATER UTILITY OPERATING COMPANY
CASE NO. 2025-00148

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-8: **State whether Bluegrass Water carries insurance for damage to property owners as a result of a sewer backup.**

RESPONSE: Bluegrass Water carries liability insurance covering damages caused by or arising out of acts or omissions related to the company's business operations. In many – perhaps most – cases this coverage would include property damage suffered by a customer as a result of a sewer backup attributable to Bluegrass Water. However, whether insurance coverage would apply to the incident addressed in the pending complaint has not been determined.

Witness: **Brent Thies, Vice President and Corporate Controller, Bluegrass Water Utility Operating Company**

BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC'S RESPONSES TO THE COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION

REQUEST NO. 1-9: **State what Bluegrass Water is doing or has done to prevent this from occurring again other than cleaning out roots and debris such as the installation of a backwater or check valve to prevent backflow.**

RESPONSE: Bluegrass Water conducts annual manhole and sewer line inspections in accordance with applicable state regulations to monitor and maintain the condition of the wastewater collection system and mitigate the risk of future blockages.

Root intrusion is a perpetual risk, and rather than relying on mechanical devices such as backwater or check valves, which carry an added risk of failure due to potential obstruction, Bluegrass Water prioritizes system-wide preventative maintenance, as detailed in the Response to Request No. 1-3.

Bluegrass Water remains committed to evaluating and implementing preventative maintenance measures consistent with industry standards and regulatory requirements.

Witness: **Jake Freeman, Director, Engineering, Bluegrass Water Utility Operating Company**

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

BERNICE COYLE WATSON TACKETT, COMPLAINANT v. BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC, DEFENDANT	)	CASE NO. 2025-00148

BLUEGRASS WATER'S RESPONSES TO COMMISSION STAFF'S REQUEST FOR INFORMATION

VERIFICATION

I, Jake Freeman, verify, state, and affirm that the Responses to Commission Staff's Request for Information filed with this verification, is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Jake Freeman
Director, Engineering
Bluegrass Water Utility Operating Company, LLC

STATE OF MISSOURI)
) ss:
COUNTY OF ST. LOUIS)

SUBSCRIBED AND SWORN TO before me by Jake Freeman on this the 7th day of August, 2025.

My commission expires: 04-10-2027

Roshawne Vallandingham
Notary Public

ROSHAWNE VALLANDINGHAM
Notary Public - Notary Seal
Jefferson County - State of Missouri
Commission Number 23414639
My Commission Expires Apr 10, 2027

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

BERNICE COYLE WATSON TACKETT, COMPLAINANT v. BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC, DEFENDANT	)	CASE NO. 2025-00148

BLUEGRASS WATER'S RESPONSES TO COMMISSION STAFF'S REQUEST FOR INFORMATION

VERIFICATION

I, Brent Thies, verify, state, and affirm that the Responses to Commission Staff's Request for Information filed with this verification, is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Brent Thies
Vice President and Corporate Controller
Bluegrass Water Utility Operating Company, LLC

STATE OF MISSOURI)
) ss:
COUNTY OF ST. LOUIS)

SUBSCRIBED AND SWORN TO before me by Jake Freeman on this the 7th day of August, 2025.

My commission expires: 04-10-2027

Roshawne Vallandingham
Notary Public

ROSHAWNE VALLANDINGHAM
Notary Public - Notary Seal
Jefferson County - State of Missouri
Commission Number 23414639
My Commission Expires Apr 10, 2027

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

BERNICE COYLE WATSON TACKETT, COMPLAINANT v. BLUEGRASS WATER UTILITY OPERATING COMPANY, LLC, DEFENDANT	)	CASE NO. 2025-00148

BLUEGRASS WATER'S RESPONSES TO COMMISSION STAFF'S REQUEST FOR INFORMATION

VERIFICATION

I, Todd Thomas, verify, state, and affirm that the Responses to Commission Staff's Request for Information filed with this verification, is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Todd Thomas
Senior Vice President
Bluegrass Water Utility Operating Company, LLC

STATE OF MISSOURI)
) ss:
COUNTY OF ST. LOUIS)

SUBSCRIBED AND SWORN TO before me by Todd Thomas on this the 7th day of August, 2025.

My commission expires: 04-10-2027

Roshawne Vallandingham
Notary Public

ROSHAWNE VALLANDINGHAM
Notary Public - Notary Seal
Jefferson County - State of Missouri
Commission Number 23414639
My Commission Expires Apr 10, 2027

KPDES

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT

AUTHORIZATION TO DISCHARGE UNDER THE
KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NO.: KY0081591

AGENCY INTEREST NO.: 163895

Pursuant to Authority in KRS 224,

Bluegrass Water Utility Operating Company
1630 Des Peres Rd.
Des Peres, MO 63131

is authorized to discharge from a facility located at

Longview Homestead Subdivision
3243 Frankfort Rd.
Georgetown, Scott County, Kentucky

to receiving waters named

UT to North Elkhorn Creek

in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit shall become effective on December 1, 2024.

This permit and the authorization to discharge shall expire at midnight, November 30, 2029.

Date Signed: October 15, 2024

Sarah Jon Gaddis, PG
Director, Division of Water

THIS KPDES PERMIT CONSISTS OF THE FOLLOWING SECTIONS:

SECTION 1

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1.1. Compliance Monitoring Locations (Outfalls)

The following table lists the outfalls authorized by this permit, the latitude and longitude of each and the DOW assigned KPDES outfall number:

TABLE 1.

Outfall No.	Outfall Type	Latitude (N)	Longitude (W)	Receiving Water	Description of Outfall
001	External	38.213174°	84.663589°	UT to North Elkhorn Creek	Domestic Wastewater

1.2. Effluent Limitations and Monitoring Requirements

Beginning on the effective date and lasting through the term of this permit, discharges from Outfall 001 shall comply with the following effluent limitations:

TABLE 2.

EFFLUENT LIMITATIONS							MONITORING REQUIREMENTS	
Parameter Description	Loadings (lb/day)		Concentrations				Frequency	Sample Type
	Monthly Average	Daily Maximum	Units	Minimum	Monthly Average	Daily Maximum		
Flow (Reported as MGD)	Report	Report	N/A	N/A	N/A	N/A	1/Month	Instantaneous
pH	N/A	N/A	SU	6.0	N/A	9.0	1/Month	Grab
$CBOD_5$[2]	N/A	N/A	mg/l	N/A	30	45[1]	1/Month	Composite[3]
Total Suspended Solids	N/A	N/A	mg/l	N/A	30	45[1]	1/Month	Composite[3]
Nitrogen, Ammonia total [as N]								
May 1 – October 31	N/A	N/A	mg/l	N/A	4.0	6.0	1/Month	Composite[3]
November 1 – April 30	N/A	N/A	mg/l	N/A	10.0	15.0	1/Month	Composite[3]
Dissolved Oxygen	N/A	N/A	mg/l	7.0	N/A	N/A	1/Month	Grab
E. coli[4]	N/A	N/A	#/100 ml	N/A	130[5]	240[6]	1/Month	Grab
Total Residual Chlorine[7]	N/A	N/A	mg/l	N/A	0.011	0.019	1/Month	Grab
Oil & Grease	N/A	N/A	mg/l	N/A	Report	Report	Annually	Grab

[1]Maximum Weekly Average

[2]$CBOD_5$ – Carbonaceous Biochemical Oxygen Demand, 5-day

[3]A sample composed of four or more equal or flow-proportional aliquots collected over a period of no less than eight and no more than twenty-four hours and aggregated so that the aggregate sample reflects the average water quality of the effluent during the compositing or sample period

TABLE 2.								
EFFLUENT LIMITATIONS							MONITORING REQUIREMENTS	
Parameter Description	Loadings (lb/day)		Concentrations				Frequency	Sample Type
	Monthly Average	Daily Maximum	Units	Minimum	Monthly Average	Daily Maximum		
[4]E. coli – *Escherichia coli* Bacteria								
[5]Thirty (30) day Geometric Mean								
[6]Seven (7) day Geometric Mean								
[7]Conditional Monitoring. Sampling for Total Residual Chlorine is required only when chlorine disinfection is used during the monitoring period. If chlorine disinfection is not used at any time during the monitoring period, report NODI Code 9: "Conditional Monitoring – Not Required for this period" on the DMR.								

1.3. Standard Effluent Requirements

The discharges to Waters of the Commonwealth shall not produce floating solids, visible foam or a visible sheen on the surface of the receiving waters.

SECTION 2

STANDARD CONDITIONS

2. STANDARD CONDITIONS

The following conditions apply to all KPDES permits.

2.1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of KRS Chapter 224 and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Any person who violates applicable statutes or who fails to perform any duty imposed, or who violates any determination, permit, administrative regulation, or order of the Cabinet promulgated pursuant thereto shall be liable for a civil penalty as provided at KRS 224.99.010.

2.2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

2.3. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2.4. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

2.5. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

2.6. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

2.7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

2.8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Director upon request, copies of records required to be kept by this permit.

2.9. Inspection and Entry

The permittee shall allow the Director, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon presentation of credentials and other documents as may be required by law, to:

(1) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(4) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

2.10. Monitoring and Records

(1) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(2) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 401 KAR 5:065, Section 2(10) [40 CFR 503]), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

(3) Records of monitoring information shall include:

a) The date, exact place, and time of sampling or measurements;
b) The individual(s) who performed the sampling or measurements;
c) The date(s) analyses were performed;
d) The individual(s) who performed the analyses;
e) The analytical techniques or methods used; and
f) The results of such analyses.

(4) Monitoring must be conducted according to test procedures approved under 401 KAR 5:065, Section 2(8) [40 CFR 136] unless another method is required under 401 KAR 5:065, Section 2(9) or (10) [40 CFR subchapters N or O].

(5) KRS 224.99-010 provides that any person who knowingly violates KRS 224.70-110 or other enumerated statutes, or who knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall be guilty of a Class D felony and, upon conviction, shall be punished by a fine of not more than $25,000, or by imprisonment for not less than one (1) year and not more than five (5) years, or by both fine and imprisonment for each separate violation. Each day upon which a violation occurs shall constitute a separate violation.

2.11. Signatory Requirement

(1) All applications, reports, or information submitted to the Director shall be signed and certified pursuant to 401 KAR 5:060, Section 4 [40 CFR 122.22].

(2) KRS 224.99-010 provides that any person who knowingly provides false information in any document filed or required to be maintained under KRS Chapter 224 shall be guilty of a Class D felony and upon conviction thereof, shall be punished by a fine not to exceed twenty-five thousand dollars ($25,000), or by imprisonment, or by fine and imprisonment, for each separate violation. Each day upon which a violation occurs shall constitute a separate violation.

2.12. Reporting Requirements

2.12.1. Planned Changes

The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(1) The alteration or addition to a permitted facility may meet one (1) of the criteria for determining whether a facility is a new source in KRS 224.16-050 [40 CFR 122.29(b)]; or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under KRS 224.16-050 [40 CFR 122.42(a)(1)].

(3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

2.12.2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

2.12.3. Transfers

This permit is not transferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under KRS 224 [CWA; see 40 CFR 122.61; in some cases, modification or revocation and reissuance is mandatory].

2.12.4. Monitoring Reports

Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Director for reporting results of monitoring of sludge use or disposal practices.

(2) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 401 KAR 5:065, Section 2(8) [40 CFR 136], or another method required for an industry-specific waste stream under 401 KAR 5:065, Section 2(9) or (10) [40 CFR subchapters N or O], the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Director.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

2.12.5. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than fourteen (14) days following each schedule date.

2.12.6. Twenty-four-Hour Reporting

1) The permittee shall report any noncompliance which may endanger health or the environment to the DOW Regional Office. Any information shall be provided orally within twenty-four (24) hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

2) The following shall be included as information which must be reported within twenty-four (24) hours under this paragraph:

a) Any unanticipated bypass which exceeds any effluent limitation in the permit [40 CFR 122.41 (g)].
b) Any upset which exceeds any effluent limitation in the permit.
c) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit to be reported within twenty-four (24) hours.

3) The Director may waive the written report on a case-by-case basis under 40 CFR 122.41 (l), if the oral report has been received within twenty-four (24) hours.

4) The permittee is assigned to the Department for Environmental Protection's Frankfort Regional Field Office.

a. Reporting shall be as required in paragraphs 1 through 3 of this subsection except that, if a spill or release of pollutants or contaminants, bypass, upset, or other event of non-compliance occurs that may present an imminent or substantial danger to the environment or the public health or welfare, the permittee shall immediately notify the regional field office by calling the Frankfort Regional Field Office at (502) 564-3358.
b. If a report required by this subsection is made during other than normal business hours, it shall be made through the **twenty-four (24) hour environmental emergency telephone number at (800) 928-2380.**
c. The reporting requirements of this subsection does not relieve the permittee of reporting required under other laws, regulations, programs, or emergency response plans.

2.12.7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Sections 2.12.1, 2.12.4, 2.12.5 and 2.12.6, at the time monitoring reports are submitted. The reports shall contain the information listed in Section 2.12.6.

2.12.8. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

2.13. Bypass

2.13.1. Definitions

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

2.13.2. Bypass Not Exceeding Limitations

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Section 2.13.3 and 2.13.4.

2.13.3. Notice

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section 2.12.6.

2.13.4. Prohibition of Bypass

(1) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
c) The permittee submitted notices as required under Section 2.13.3.

(2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three (3) conditions listed above in Section 2.13.4.

2.14. Upset

2.14.1. Definition

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2.14.2. Effect of an Upset

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Section 2.14.3 are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

2.14.3. Conditions Necessary for a Demonstration of Upset

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated; and

(3) The permittee submitted notice of the upset as required in Section 2.12.6; and

(4) The permittee complied with any remedial measures required under Section 2.4.

2.14.4. Burden of Proof

In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

SECTION 3

OTHER CONDITIONS

3. OTHER CONDITIONS

3.1. Schedule of Compliance

The permittee shall attain compliance with all requirements of this permit on the effective date of this permit unless otherwise stated.

3.2. Other Permits

This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal, and local agencies.

3.3. Continuation of Expiring Permit

This permit shall be continued in effect and enforceable after the expiration date of the permit provided the permittee submits a timely and complete application in accordance with 401 KAR 5:060, Section 2(4).

3.4. Antidegradation

For those discharges subject to the provisions of 401 KAR 10:030, Section 1(3)(b)5, the permittee shall install, operate, and maintain wastewater treatment facilities consistent with those identified in the Socioeconomic Demonstration and Alternatives Analysis (SDAA) submitted with the KPDES permit application.

3.5. Reopener Clause

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved in accordance with 401 KAR 5:050 through 5:080, if the effluent standard or limitation so issued or approved:

(1) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

(2) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable.

3.6. Connection to Regional Sewer System

This WWTP is temporary and in no way supersedes the need of a regional sewer system. The permittee shall eliminate the discharge and WWTP plant by connection to a regional sewer system when it becomes available as defined in 401 KAR 5:002.

3.7. Certified Operators

The wastewater treatment plant shall be under the primary responsibility of a Class II Wastewater Treatment Plant Certified Operator or higher.

3.8. Outfall Signage

This KPDES permit establishes monitoring points, effluent limitations, and other conditions to address discharges from the permitted facility. In an effort to better document and clarify these locations, the permittee should place and maintain a permanent marker at each of the monitoring locations.

SECTION 4

MONITORING AND REPORTING REQUIREMENTS

4. MONITORING AND REPORTING REQUIREMENTS

4.1. KPDES Outfalls

Discharge samples and measurements shall be collected at the compliance point for each KPDES Outfall identified in this permit. Each sample shall be representative of the volume and nature of the monitored discharge.

4.2. Sufficiently Sensitive Analytical Methods

Analytical methods utilized to demonstrate compliance with the effluent limitations established in this permit, shall be sufficiently sensitive to measure pollutant levels using the Minimum Reporting Level (MRL) which is at or below the required effluent limit. In the instance where an EPA-approved method does not exist that has a MRL at or below the established effluent limitation, the permittee shall use the EPA-approved method with a demonstrated MRL that is nearest to the established effluent limit. It is the responsibility of the permittee to demonstrate compliance with permit parameter limitations by utilization of sufficiently sensitive analytical methods.

MRL is defined as: The lowest concentration of an analyte (i.e., permit parameter) that can be reliably quantified that is greater than the method detection limit, of sufficient accuracy and precision to meet the intended purpose, and meeting acceptable quality control criteria for the analyte at this concentration. This defined concentration can be no lower than the concentration of the lowest calibration standard for that analyte or, in non-calibrated methods, the limitations defined by the equipment and volumes utilized.

Sufficiently Sensitive Method is defined by EPA in the Federal Register notice as:

1) The method minimum level (Kentucky defined as minimum reporting level – MRL) is at or below the level of the applicable water quality criterion or permit limitation for the measured pollutant or pollutant parameter;
2) In the case of permit applications, the method minimum level (MRL) is above the applicable water quality criterion, but the amount of the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
3) The method has the lowest minimum level (MRL) of the EPA-approved analytical methods.

4.3. Certified Laboratory Requirements

All laboratory analyses and tests required to demonstrate compliance with the conditions of this permit shall be performed by a laboratory holding the appropriate general or field-only certification issued by the Cabinet pursuant to 401 KAR 5:320.

4.4. Submission of DMRs

The completed DMR for each monitoring period must be entered into the DOW approved electronic system no later than midnight on the 28th day of the month following the monitoring period for which monitoring results were obtained.

For more information regarding electronic submittal of DMRs, please visit the Division's website at: **https://eec.ky.gov/Environmental-Protection/Water/SubmitReport/Pages/NetDMR.aspx** or contact the DMR Coordinator at (502) 564-3410.

4.5. DMRs and Permit-Authorized Change for Total Residual Chlorine

The permittee may request removal of Total Residual Chlorine (TRC) monitoring if the permittee has, through a DOW-authorized construction permit, eliminated a chlorine-based disinfection system and

completed its replacement. The request shall be submitted in writing to the Division of Water's Surface Water Permit Branch. The permittee shall continue to complete DMRs for TRC until the Surface Water Permits Branch has removed TRC from the DMR(s). A DMR may be completed with a pollutant specific No Data Indicator (NODI) code of "Not Required this Monitoring Period" if chlorine-based disinfection was not utilized during the monitoring period.

December 20, 2019

Wes Dement
Kentucky Department for Environmental Protection
Division of Enforcement
300 Sower Blvd., 3rd Floor
Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc.
LH WWTF
KYPDES Permit No. KY0081591
Agency Interest No. 8083
Corrective Action Plan

In light of the LH WWTF's failure to meet permitted limits we submit the following corrective action plan.

BWUOC has recently purchased this treatment plant. With the change of ownership, operational modifications have been implemented and are ongoing. With proper operation, the facility should be capable of meeting permit limits without process modification. Over the next several months, repairs will be made and monitoring will continue in order to confirm that the existing processes can meet permit limits.

1. Causes of the Effluent Violations

- Ammonia (Intermittent)
- Carbonaceous Biological Oxygen Demand (CBOD)
- Total Suspended Solids (TSS) (Intermittent)
- Dissolved Oxygen (DO)
- E. Coli

A review was performed of EPA's Echo compliance website which lists violations. Prior to July 1, 2017, the facility regularly exceeded most of its NPDES permit effluent limits. Improvements were made to the plant by the previous owner to correct the process deficiencies, however the system continued to occasionally exceed limits. In 2018, the facility exceeded limits for CBOD, TRC, E. Coli, Ammonia, DO and TSS at least once for each parameter. The tankage and piping of this facility appears to be efficiently laid out and in good condition with adequate capacity. This would imply that the system exceedances were due to operational issues rather than capacity of the facility. Since acquisition by BWUOC the facility has been meeting permit limits.

2. System Evaluation and Corrective Actions

The facility is currently meeting permit limits. As mentioned above, previous ownership had made improvements to the facility and now BWUOC has improved operations, allowing the plant to meet limits it

previously violated. Operations staff will continue to make adjustments and monitor the plant to ensure a quality effluent is maintained.

A Mission remote monitoring system and magnetic flow meter will be installed to provide real time monitoring of the facility. This will improve capabilities to monitor the effect of inflow and infiltration and status of the facility. A Mission monitoring system will also be installed on the lift station. The monitoring system will improve operations and maintain reliable service for the customers.

Inflow and Infiltration is a known problem within this system. Flow monitoring will help determine the extents of I and I, but further investigation is needed. The collection system will be evaluated using a multi-step process. The first two steps are to smoke test and then to clean and jet the system. These tasks have been completed. The results of these two processes allow problem areas to be identified and targeted for repair/replacement. Results are being reviewed to establish an I and I improvement plan for the collection system. This will improve all aspects of the treatment process.

3. Project Milestones

- Continue monitoring performance of facility (May 31, 2020)
- Install new magnetic flow meter and Mission monitoring systems (March 31, 2020)
- Submit status report detailing improvements and whether process changes are required (May 31, 2020)

Sincerely

Benjamin Kuenzel, PE
Principal of 21 Design Group, Inc.

BLUEGRASS WATER
Utility Operating Company
A CSWR Managed Utility

Attn: Wes Dement
Energy and Environment Cabinet
Department for Environmental Protection
Division of Enforcement
300 Sower Blvd 3rd floor
Frankfort, KY 40601

Mr. Wes Dement,

In accordance with the Corrective Action Plan for LH WWTF submitted to the EEC on 12/20/2019 and approved by the Department on 2/17/2020 I hereby submit this status report concerning improvements made to the facility and next steps.

In the original CAP plan documents, it was conveyed that an analysis of the system implied that the wastewater treatment facility appeared to be in generally good condition and adequate to meet the permitted limits, and that exceedances of permitted limits in the past (Ammonia, CBOD, TSS, DO, and E.Coli) were the result of operational shortcoming under the previous ownership. We stated that we believed under our operations, the facility would begin to consistently meet limits. Even at the time the CAP was submitted the plant had begun to meet limits it had consistently violated under BWUOC operations.

The only additional improvement to the plant that was laid out in the CAP was the installation of a magnetic flow meter and Mission remote monitoring to improve the operations of the facility. This was installed and programed ahead of the projected date in the CAP of 3/31/2020.

In monitoring the performance of the facility as it pertains to compliance with permitted limits throughout the CAP period, there was only one exceedance. In March, the facility testing showed a DO level of 4 mg/l, below the required level of 7 mg/l. This was caused by an operational decision to shut off the blowers during a major rain event, in order to allow the aeration tank to settle and prevent sludge and solids from washing out of the facility during the excessive flow. This was an isolated event and steps are being taken to reduce I&I during rain events by making targeted repairs to the collection system. This will reduce excessive flows during major rain events and hopefully eliminate the need to shut off blowers in the future. In all other areas, effluent limits have been met consistently well below permitted limits, including for the pollutants that had violated in the past.

At this time, BWUOC does not believe any additional improvements will be necessary for the LH WWTF to continue to meet permitted limits and comply with EEC regulations.

Thanks,

JON MEANY
Utility Engineer

(314) 380-8537 Ext. 215
(314) 482-0342
(314) 736-4759
jmeany@cswrgroup.com
1650 Des Peres Rd., Suite 303,
Des Peres, MO 63131

BLUEGRASS WATER
Utility Operating Company
A CSWR Managed Utility

July 29, 2020

Michael Kroeger (CC. Wesley Dement)
Kentucky Department for Environmental Protection
Division of Enforcement
300 Sower Blvd., 3rd Floor
Frankfort, KY 40601

Bluegrass Water Utility Operating Company, Inc.
LH Treatment WWTF
KYPDES Permit No. KY0081591
Agency Interest No. 8083

Corrective Action Plan Revision:

I am pleased to submit this update to the Corrective Action Plan for the LH Treatment WWTF approved by EEC/DEP on 12/20/2019. The scope of the original CAP was completed within the projected schedule of the CAP. Triage and repair work has been completed and the aeration plant is in better shape than it was at acquisition.

Significant improvements have been made to the LH Treatment facility. Handrails have been installed around the treatment basins to ensure safe operation. Damaged components of the aeration and clarification system have been repaired or replaced to ensure proper treatment can occur. The collapsing chlorine shack has been replaced to ensure proper disinfection can continue and proper containment for the chlorine solution to prevent spills. The facility is mostly meeting limits, but has had some issues with pin floc formation leading to E.Coli exceedances. Adjustments are being made that should eliminate this issue. There are some significant I&I issues in one part of the collection system that will be repaired over the next several years, however the plant is in good condition now and doesn't immediately require further improvements.

Sincerely,

JON MEANY
Utility Engineer

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Des Peres, MO 63131

ANDY BESHEAR
GOVERNOR

REBECCA W. GOODMAN
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601

February 24, 2022

Bluegrass Water Utility Operating Company, LLC
500 NW Plaza Drive, Suite 500
Saint Ann, MO 63074

Re: AI Name: Longview Country Club
AI No. 8083
Case No. DOW 19-3-0154
Activity No. ERF20190002
Scott County

Dear Bluegrass Water:

The Division of Enforcement has determined that you have complied with the terms and conditions of the Agreed Order, executed September 3, 2019. The Division considers Case No. DOW 19-3-0154 resolved and closed. Please contact me at (502) 782-5273 or nicholas.fields@ky.gov if you have any questions.

Sincerely,

Nicholas Fields
Environmental Enforcement Specialist
Division of Enforcement

Signed by Nicholas Fields

Q

LH Treatment-Kentucky (Wastewater, KY0081591)

Engineering Memorandum

Date: February 17, 2019

Wastewater Treatment Facility Understanding

The wastewater treatment facility is made up of a standard extended aeration activated sludge facility. It doesn't appear this system has an active permit to operate. The permit appears to have expired on December 31, 2018. The plant consists of an aeration tank, clarifier, and chlorine disinfection with dechlorination. (Appendix Picture 1) The facility appears to have a good quality structure, air piping, sludge returns, and capacity to continue to be efficient towards treatment. I performed a quick estimate of capacity and it appears the structures are adequate for the 276 customers currently attached.

A review was performed of EPAs Echo compliance website which lists violations. Prior to July 1, 2017, the system appeared to be a regular offender of violations in regards to effluent limits. It is my understanding they recently completed upgrades to the facility and total performance has improved. However, the system still appears to be exceeding limits but violations are more sporadic. In 2018, the facility violated CBOD, TRC, E. coli, Ammonia, DO and TSS as least once. Understanding that the tankage and piping appears to be efficiently laid out and seems in good quality with adequate capacity, I would tend to believe that the system violations may be more from operational issues rather than capacity of facility.

While the plant appears adequate, there are a few items of concern for the facility. The facility looks relatively new and in reasonable shape. However, the system continues to violate at least one limit each testing period.

The aeration process of the treatment facility appeared to have a reasonable mixed liquor. However, standard operational testing has not been provided to us for evaluation on the operational control of the facility. Daily testing should be completed until an understanding of the facility is clear. Additionally, I'm not aware of the current operator's maintenance practice. The diffusers should be pulled from the tank and inspected in case they have fouled due to not performing preventative maintenance. While the aeration tank mixed liquor looked reasonable, it is obvious consistent operation control is not occurring. (Appendix Picture 2)

The clarifier appears to be working properly. However, the supernatant water of the clarifier appeared to have a large amount of floc releasing and/or coming to the surface. While this might also be an operational issue in regards to control of the mixed liquor and sludge returns, the clarifier is not operating at an optimal level. Allowing floc to discharge the facility can lead to surpassing the limits imposed on the facility. As discussed above, various limits were exceeded in 2018. Avoiding excessive

floc in the clarifier is vital in maintaining a healthy facility. Additionally, the effluent trough appears to have some green algae attached to the bottom, which if not cleaned, may build up and cause issues with effluent samples periodically. The clarifier should be cleaned as well as evaluated for size after actual dimensions and/or as-built drawings are provided. (Appendix Picture 3)

Minimal pictures were provided of the chlorination system that would aid in 21DG providing an opinion of its state. However, the system has violated E. coli and TRC in the past year and they should be evaluated. Again, these violations could be due to poor operational and maintenance practices.

The effluent quality looks clean as it was discharging to the stream. There were no signs of sludge or buildup in the stream. (Appendix Picture 4)

It did not appear any monitoring was in place for this facility. I recommend Mission monitoring be installed for improvement control and access.

It also appeared that the shed needed to be cleaned up. Various supports are not conventional and consist of buckets and wood holding up some piping. Sunlight is also coming through the walls that will tend to let rain into the building. This will allow the building to deteriorate faster than desired. Insulation appears to be failing and should be repaired. The shed should be cleaned up to allow better access and conventional supportive items.

Improvements: Pull and inspect diffusers and possible replacement. Install Mission monitoring. Clean up shed for adequate installation and cleaner environment. Perform operational improvements that will likely allow the facility to return to meeting effluent limits.

Wastewater Collection System Understanding

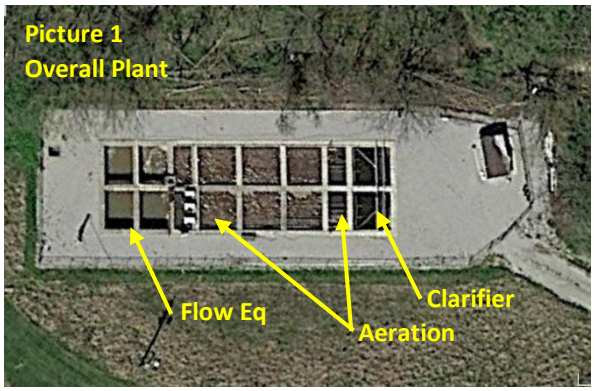
No information in regards to the collection system was provided to the Engineer for review to drafting this memo. It is recommended to obtain DMRS and/or flow data for the facility from the current owner to evaluate if I and I is a problem. If the owner is knowledgeable on wastewater systems, they may also be able to shed some light on if I and I is a problem. This would be adequate to start our evaluation period until actual flow monitoring and smoke testing of the system is completed. The system does have a flow meter installed at the effluent and it is recommended to get access to the data that is being compiled.

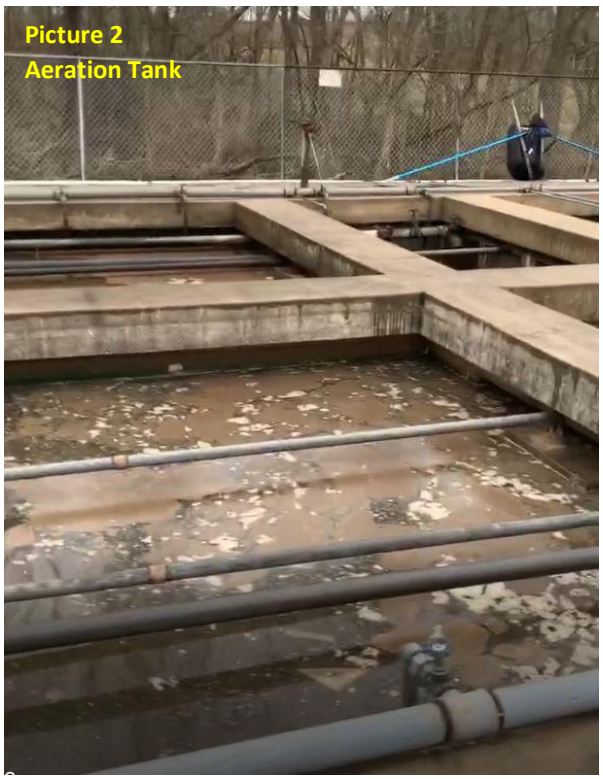
No maps of the system were provided. The system will need to be mapped for future operation as it appeared nothing has been compiled for our review or operational maintenance purposes. The Engineer was not informed if this system was all gravity, pressure, or had any pump stations. The system should also be smoke tested. Video inspection is anticipated on parts of the system as well.

Improvements Required: Map the system. Install a flow meter. Smoke test and video inspect the collection system.

CONSTRUCTION ITEM	QUANTITY	UNIT	UNIT PRICE	EXTENDED PRICE
Cleanup blower house and equipment	1	LS	$15,000	$15,000
Install Mission Alarm and wiring	1	LS	$7,500	$7,500
Replace diffusers in aeration tankage	1	LS	$10,000	$10,000
Contractor O & P	1	LS	$5,000	$5,000
Replace blower	1	LS	$7,500	$7,500
Sanitary sewer video inspection	1	LS	$6,500	$6,500
Sanitary sewer lining	1	LS	$25,000	$25,000
Smoke Test system	1	LS	$20,000	$20,000
SUBTOTAL				**$96,500**
Surveying Fees				$25,000
Engineering (To be determined)				$15,000
Contingency(10%)				$9,650
TOTAL				**$146,150**
This estimate was prepared without a site visit by the Engineer and utilizing information gathered by CSWR				

APPENDIX


Picture 1
Overall Plant
Flow Eq
Aeration
Clarifier


Picture 2
Aeration Tank


Picture 3
Clarifier


Picture 4
Effluent

Task 95279 (WWTP Activated Sludge Compliance Inspection)

Compliance Inspection

FACILITY SAFETY

Adequate Fencing (>=5' high w/ barbed wire)?: Compliant

Fence Signage (one per side, one on each gate)?: Compliant

PRIMARY / PRELIMINARY TREATMENT

Primary Type: Bar Screen

AERATION

Aeration Type: Course Bubble Diffused

Mixed liquor appearance: Dark Brown

Mixed liquor odor: Earthy

Thorough mixing in basins: Compliant

Excessive mixing: Compliant

No dead spots in basins. If so, where?:

FINAL SETTLING (CLARIFIER)

Frequency of scum baffle cleaning: Compliant

Adequate scum removal: Compliant

Continuous Sludge Return, Return Rate: Compliant

Weir and trough are free of algae/debris/solids: Compliant

CHLORINATION/DECHLORINATION

Type of Chlorination: Sodium Hypochlorite

Chlorine tablets present: N/A

Chlorine table dispenser in good working condition: N/A

Contact tank free of floating material, solids, algae: Compliant

Tank and baffles in good condition: Compliant

ESSENTIAL FACILITIES

Pump alarm system type: Compliant

Alternative power source type:

Duplicate blowers/motors present: Compliant

Blowers in good working order: Compliant

Motors in good working order: Compliant

RAS/WAS pumps in good working order: Compliant

Flow Measurement: Weir

OUTFALL

Signs of erosion: Compliant

Discharge pipes have properly installed riprap, energy dispersion structures, other BMPs, protection from sources of stoppage: Compliant

EFFLUENT

Bypass or overflows: Compliant

Oily film on the surface of effluent: Compliant

Comments (by item number):

LIFT STATION

Both pumps in operation and functional: Compliant

Wet well is free of trash and debris: Compliant

Floats and controls are properly functioning:

Comments:

Task 95923 (Sewer Plant PM Weekly)

Weekly Sewer Plant Checklist

New Form

Inspection Date
07/22/2025 09:50 AM

Buildings Inspected?
Yes

Lift Stations Inspected?
Yes

Blowers Inspected?
Yes

Pumps Inspected?
Yes

Treatment System Inspected
Yes

Lagoon Berms Inspected for Leakage?
N/A

Disinfection System Inspected?
Yes

Any issues with any equipment?
No

Fire Extinguisher Inspected?
Yes

Scada Unit Present Onsite?
Yes

Scada unit receiving power?
Yes

Return Pump Station Flow
N/A

Comments

Task 99962 (Facility Housekeeping)

Checklist

Is there a building on site?

Yes

Water Infiltration?

Poor

Action taken to bring infiltration condition to Excellent?

Climate Control?

N/A

Action taken to bring HVAC condition to Excellent?

Facility Security?

Excellent

Action taken to bring security condition to Excellent?

Inside Cleaning?

Excellent

Action taken to bring HVAC condition to Excellent?

Outside Cleaning?

Excellent

Action taken to bring Outside cleanliness condition to Excellent?

Inspect Mowing and Weed Control?

Excellent

Action taken to bring mowing condition to Excellent?

Fencing?

Excellent

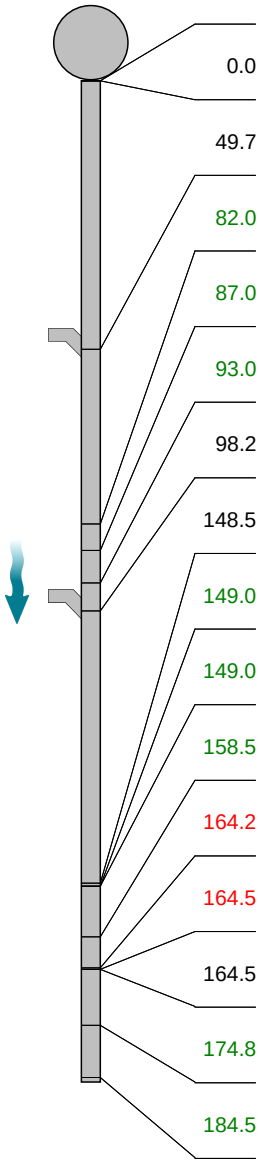
Action taken to bring fence condition to Excellent?

WINCAN

Inspection report

Date:	Work Order:	Weather:	Surveyed By:	Certificate Number:	Pipe Segment Ref.:
3/21/2025			**Evan Wells**	**P0035713-012022**	**MH-6000 - Buried MH**
Year laid:	Pre-cleaning:	Direction:	Pipe Joint Length:	Total Length:	Length Surveyed:
	Jetting	**Downstream**		**186.2 '**	**186.2 '**

City:	**Georgetown**	Drainage Area:		Upstream MH:	**MH-6000**
Street:	**Longview Dr**	Media Label:		Up Rim to Invert:	
Location Code:		Flow Control:		Downstream MH:	**Buried MH**
Location Details:		Sheet Number:		Down Rim to Invert:	
Pipe shape:	**Circular**	Sewer Use:	**Sanitary**	Total gallons used:	**0.0**
Pipe size:	**8 "**	Sewer Category:	**SEC**	Joints passed:	**0**
Pipe material:	**Vitrified Clay Pipe**	Purpose:		Joints failed:	**0**
Lining Method:		Owner:			
Additional Info:					



1:1399 Distance	Code	Observation	Counter	Photo	Grade
0.0	AMH	Manhole / MH-6000	00:00:00		
0.0	MWL	Water Level, 5% of the vertical dimension	00:00:07		
49.7	TSI	Tap Saddle Intruding at 2 o'clock, 4inch dim, 1inch intrusion	00:01:24		M3
82.0	RFJ	Roots Fine Joint from 4 o'clock to 8 o'clock, within 8 inch	00:02:18		M1
87.0	RMJ	Roots Medium Joint from 4 o'clock to 8 o'clock, 10% lost, within 8 inch	00:02:32	MH-6000 - Buried MH_841f9	M3
93.0	RMJ	Roots Medium Joint at 4 o'clock, 10% lost, within 8 inch / Running down barrel of pipe.	00:02:48	MH-6000 - Buried MH_89bb0	M3
98.2	TFC	Tap Factory Made Capped at 3 o'clock, 6inch dim	00:03:04		
148.5	MGO	General Observation / 1st pass with root cutter.	00:04:23	MH-6000 - Buried MH_53376	
149.0	DAGS	Deposits Attached Grease, 45% of cross sectional area from 9 o'clock to 3 o'clock / Grease attached to rootball	00:04:09	MH-6000 - Buried MH_d1dfa	M5
149.0	RBB	Roots Ball Barrell from 12 o'clock to 12 o'clock, 95% lost	00:04:13	MH-6000 - Buried MH_c08cd	M5
158.5	RBJ	Roots Ball Joint from 9 o'clock to 2 o'clock, 55% lost, within 8 inch	00:05:30	MH-6000 - Buried MH_04fc0	M4
164.2	JOM	Joint Offset Medium	00:05:47	MH-6000 - Buried MH_edf55	S1
164.5	B	Broken from 10 o'clock to 1 o'clock, within 8 inch	00:05:57	MH-6000 - Buried MH_7c4bf	S5
164.5	MGO	General Observation / Unable to root cut from D/s manhole due to this offset.	00:06:00	MH-6000 - Buried MH_c8a27	
174.8	RFJ	Roots Fine Joint at 3 o'clock, within 8 inch	00:06:33		M1
184.5	RBB	Roots Ball Barrell from 1 o'clock to 4 o'clock, 55% lost	00:06:48	MH-6000 - Buried MH_8537b	M5

WINCAN

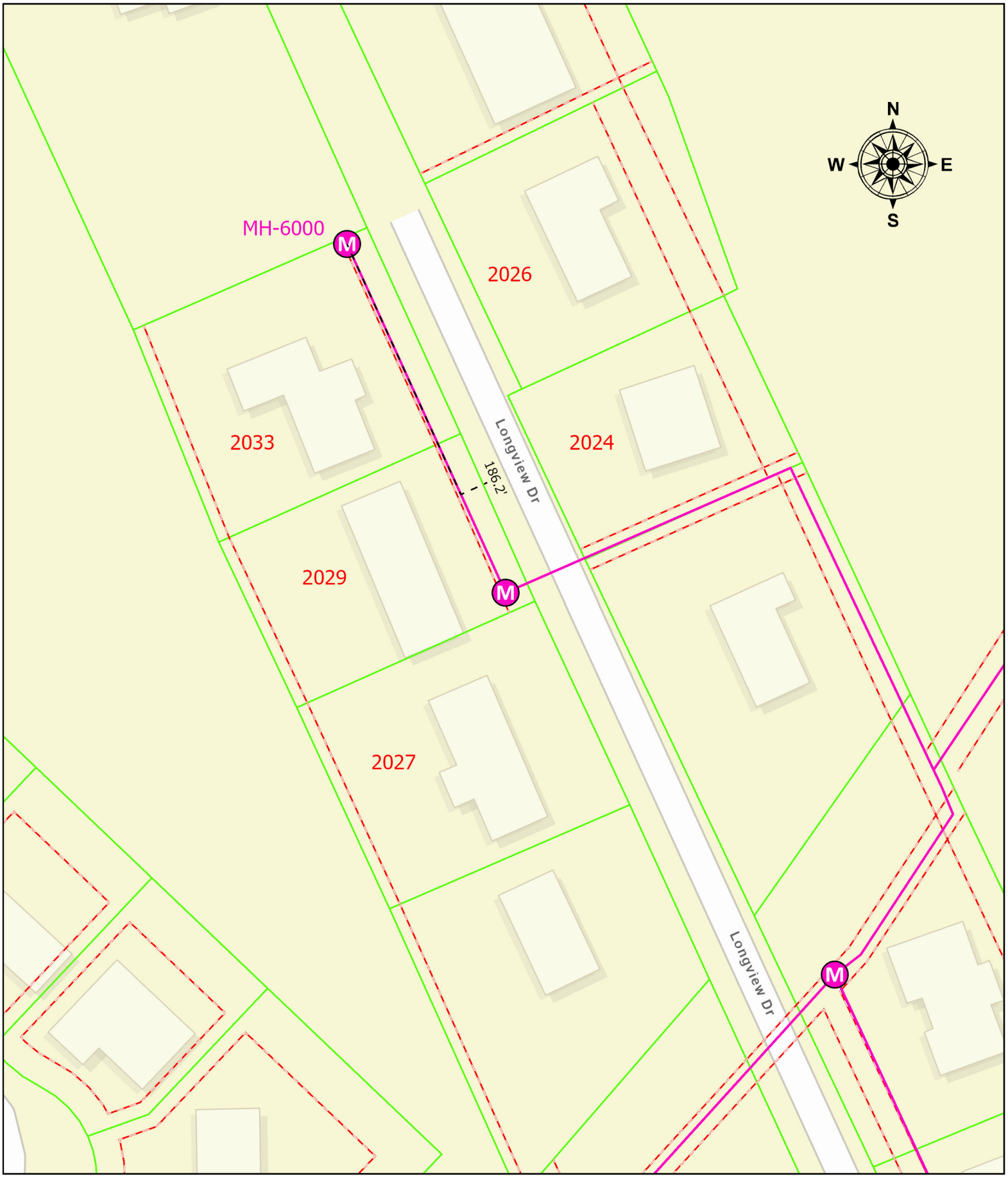
Inspection report

Date:	Work Order:	Weather:	Surveyed By:	Certificate Number:	Pipe Segment Ref.:
3/21/2025			**Evan Wells**	**P0035713-012022**	**MH-6000 - Buried MH**
Year laid:	Pre-cleaning:	Direction:	Pipe Joint Length:	Total Length:	Length Surveyed:
	Jetting	**Downstream**		**186.2 '**	**186.2 '**

1:1399	Distance	Code	Observation	Counter	Photo	Grade
	186.2	MSA	Survey Abandoned / Due to rootball	00:08:57		

QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	5341	5441	6.0	30.0	36.0	3.0	3.3	3.3

2029 Longview Dr, Georgetown, KY 40324



This dataset was developed and is maintained by the GIS Department at Central States Water Resources (CSWR). Data is compiled from field inspections, engineering reports, historical records, and verified regulatory submissions. Special thanks to the Operations, Compliance, and Engineering teams for their ongoing support and data validation.

For questions or additional information, please contact:

GIS Administrator, CSWR
Mark Hillin
Email: mhillin@cswrgroup.com
Phone: (636) 246-2505

0 75 150 Feet

Bluegrass Water
Case No. 2025-00148
Exhibit PSC 1-5, Part 2