MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 RSMo, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0112470

Owner: Village of Eolia
Address: P.O. Box 7, Eolia, MO  63444

Continuing Authority: Same as above
Address: Same as above

Facility Name: Eolia WWTF
Facility Address: Southwest of Hwy FF and New Subdivision Rd intersection, Eolia, MO, 63344

Legal Description: See Page 2
UTM Coordinates: See Page 2

Receiving Stream: See Page 2
First Classified Stream and ID: See Page 2
USGS Basin & Sub-watershed No.: See Page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See Page 2

This permit authorizes only irrigation of wastewater under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas.

July 1, 2019  June 1, 2022
Effective Date  Modification Date

December 31, 2023
Expiration Date

Chris Wieberg, Director, Water Protection
FACILITY DESCRIPTION (continued):

Permitted Feature #001 – POTW – SIC #4952

The use or operation of this facility shall be by or under the supervision of a Certified “D” Operator.

Single-cell storage lagoon / wastewater is irrigated to the surface / sludge is retained in lagoon

Design population equivalent is 522.

Design Flow is 49,000 gallons per day (Design Flow plus 10-year rainfall minus evaporation, does not account for inflow and infiltration)

Average design flow is 39,000 gallons per day (dry weather flows).

Design sludge production is 9 dry tons per year.

Legal Description: Landgrant 1708, Pike County
UTM Coordinates: X=670454, Y=4344160
Receiving Stream: Tributary to Brushy Creek
First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)
USGS Basin & Sub-watershed No.: (07110008-0205)

Storage Basin/Tank:
Maximum Operating Level: 2 foot of freeboard (storage basin water level in feet below the overflow level)

Storage volume (min to max water levels): 7,209,000 gallons

Storage Capacity (in Days):
Design for Dry weather flows: 184 days
Design with 1-in 10 year flows: 147 days

Permitted Feature #002 – Traveling gun irrigation field

Legal Description: Landgrant 1708, Pike County
UTM Coordinates: X=670526, Y=4344016
Receiving Stream: Tributary to Brushy Creek
First Classified Stream and ID: 100K Extent-Remaining Streams (C) (3960)
USGS Basin & Sub-watershed No.: (07110008-0205)

Wastewater Irrigation Design Parameters:
Irrigation volume per year: 26,237,557 gallons (based on annual irrigation rate)
Minimum irrigation volume per year at Design Flow: 17,885,000 gallons
Irrigation areas: 24.27 acres at design loading (40.26 acres available)
Irrigation rates: 0.5 inch/hour; 1 inch/day; 3 inches/week; 24 inches/year
Field slopes: less than 12 percent
Equipment type: Traveling Gun
Vegetation: Row Crops
Irrigation rate is based on: Hydraulic loading rate
**PERMITTED FEATURE #001**

### TABLE A-1

<table>
<thead>
<tr>
<th>STORAGE BASIN PARAMETER(S)</th>
<th>UNITS</th>
<th>FINAL LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Limit Set: OM</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Basin Freeboard**</td>
<td>feet</td>
<td>*</td>
<td>once/week measured</td>
</tr>
<tr>
<td>Precipitation</td>
<td>inches</td>
<td>*</td>
<td>daily total</td>
</tr>
</tbody>
</table>

MONITORING REPORTS SHALL BE SUBMITTED **MONTHLY**: THE FIRST REPORT IS DUE **AUGUST 28, 2019**.

**PERMITTED FEATURE #002**

### TABLE A-2

<table>
<thead>
<tr>
<th>IRRIGATION OPERATIONAL MONITORING PARAMETER(S)</th>
<th>UNITS</th>
<th>FINAL LIMITATIONS</th>
<th>MONITORING REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Limit Set: LW</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irrigation Period</td>
<td>hours</td>
<td>*</td>
<td>daily total</td>
</tr>
<tr>
<td>Volume Irrigated</td>
<td>gallons</td>
<td>*</td>
<td>daily total</td>
</tr>
<tr>
<td>Irrigation Area</td>
<td>acres</td>
<td>*</td>
<td>daily total</td>
</tr>
<tr>
<td>Irrigation Rate</td>
<td>inches</td>
<td>*</td>
<td>daily total</td>
</tr>
</tbody>
</table>

MONITORING REPORTS SHALL BE SUBMITTED **MONTHLY**: THE FIRST REPORT IS DUE **AUGUST 28, 2019**.

* Monitoring requirement only.

** Storage Basin Freeboard shall be reported as storage basin water level in feet below the overflow level.

**B. STANDARD CONDITIONS**

In addition to specified conditions stated herein, this permit is subject to the attached Parts I, II, & III standard conditions dated August 1, 2014, May 1, 2013, and March 1, 2015, and hereby incorporated as though fully set forth herein.
C. SPECIAL CONDITIONS

1. Emergency Discharges.
   (a) Monitoring. Any emergency discharge shall be monitored for the parameters in the table below at least once during the discharge event. Additional monitoring may be required by the Department on a case-by-case basis. The facility shall submit test results, along with the number of days the storage basin(s) has discharged during the month, via the Electronic Discharge Monitoring Report (eDMR) Submission System by the 28th day of the month after the discharge ceases. Permittee shall monitor for the following constituents:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effluent Flow</td>
<td>MGD</td>
</tr>
<tr>
<td>Biochemical Oxygen Demand₅</td>
<td>mg/L</td>
</tr>
<tr>
<td>Total Suspended Solids</td>
<td>mg/L</td>
</tr>
<tr>
<td>Ammonia as N</td>
<td>mg/L</td>
</tr>
<tr>
<td>pH – Units</td>
<td>SU</td>
</tr>
<tr>
<td>Oil &amp; Grease</td>
<td>mg/L</td>
</tr>
<tr>
<td>E. coli*</td>
<td>#/100mL</td>
</tr>
</tbody>
</table>

   * Sampling for E. coli is only required during the recreational months of April – October.

   (b) Authorized Discharges. An emergency discharge from wastewater storage structures may only occur if rainfall exceeds the 10-year 365-day rainfall event (chronic) or the 25-year 24-hour rainfall event (catastrophic). The facility shall make all reasonable attempts to return the water level in the lagoon to below the maximum operating level. Design Storm Maps and Tables can be found at [http://ag3.agebb.missouri.edu/design_storm/](http://ag3.agebb.missouri.edu/design_storm/). For this facility:

<table>
<thead>
<tr>
<th>Pike County</th>
<th>Data Collected: 3-17-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-year 365-day rainfall event</td>
<td>47.6 inches</td>
</tr>
<tr>
<td>25-year 24-hour rainfall event</td>
<td>5.3 inches</td>
</tr>
</tbody>
</table>

   (c) Unauthorized Discharges. Discharge for any other reason than what is stated in 1(b) of this Special Condition shall constitute a permit violation and shall be reported in accordance with Standard Conditions Part 1 Section B.2. Unauthorized discharges are to be reported to the Northeast Regional Office during normal business hours or by using the online Sanitary Sewer Overflow/Facility Bypass Application located at: [https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem](https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem) or the Environmental Emergency Response spill-line at 573-634-2436 outside of normal business hours.

2. Wastewater Irrigation System.
   (a) No-discharge facility requirements. Wastewater shall be stored and irrigated during suitable conditions so that there is no discharge from the storage basins or irrigation sites.

   (b) Storage Basin Operating Levels - No-discharge Systems. The minimum and maximum operating water levels for the storage basin(s) shall be clearly marked in each of the storage basins. Each storage basin shall be operated so that the maximum water elevation does not exceed two feet below the Emergency Spillway except due to exceedances of the 10-year 365-day rainfall event or 25-year 24-hour rainfall event as detailed in Special Condition 1. Wastewater shall be irrigated whenever feasible based on soil, weather conditions, and permit requirements. To ensure maximum storage capacity for the winter months when soil conditions may not be suitable for wastewater irrigation, the storage basin(s) shall be lowered to the two-foot minimum operating level during the months of September through November unless the Department approves a specific deviation from this requirement.

   (c) Emergency Spillway. Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm.

   (d) General Irrigation Requirements. The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. The wastewater irrigation system shall be capable of irrigating the annual design flow during an irrigation period of 100 days or less per year. If the facility determines that night time irrigation is needed, the facility shall submit a night time irrigation plan to the Department’s Water Protection Program for review and approval. Night time irrigation shall only occur when the Department has approved the night time irrigation plan.
C. SPECIAL CONDITIONS (continued)

(e) **Saturated/Frozen Conditions.** There shall be no surface irrigation during ground frost; frozen, snow-covered, or saturated soil conditions; or when precipitation is imminent or occurring.

(f) **Slope Restrictions.** Wastewater irrigation on slopes exceeding 10%, the hourly irrigation rate shall not exceed one-half (1/2) the design sustained permeability and in no case shall exceed one-half (1/2) inch per hour.

(g) **Set Backs.** There shall be no irrigation within:
   - (1) 300 feet of any sinkhole, losing stream, or any other feature that may provide a connection to the ground water table and the surface;
   - (2) 300 feet from any existing potable water supply well not located on the property;
   - (3) 150 feet of dwelling or public use areas;
   - (4) 100 feet of any gaining streams (classified or unclassified; perennial or intermittent) or tributaries or ponds or lakes. As a compliance alternative a 35-foot vegetative buffer that is permanently covered with perennial vegetation may be substituted for the 100 foot set-back requirement;
   - (5) 50 feet of the property line or public road.

(h) **Public Access Restrictions.** Public access shall not be allowed to public-use-area surface irrigation sites when irrigation is occurring.

(i) **Grazing and Harvesting of Forage Crops Restrictions.** Grazing of animals shall be deferred as per the following:
   - (1) From May 1 to October 31, the minimum deferment from grazing or forage harvesting shall be 14 days.
   - (2) From November 1 to April 30, the minimum deferment from grazing or forage harvesting shall be 30 days.

(j) **Irrigated Wastewater Disinfection.** Wastewater shall be disinfected prior to irrigation (not storage) to public-use-areas.

(k) **Equipment Checks during Irrigation.** The irrigation system and irrigation site shall be visually inspected at least once/day during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.

3. Wastewater irrigation records shall be maintained and summarized into an annual operating report for the previous calendar year. This annual report is in addition to the reporting requirements listed in Table A and the report shall be kept onsite and made available to department personnel upon request. The summarized annual report shall include the following:
   - (a) Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;
   - (b) The number of days the storage basin(s) has discharged during the year, the discharge flow, and the reasons discharge occurred; and
   - (c) A summary of the irrigation operations for the year including: the number of days of irrigation, the total gallons irrigated, the total acres used, the irrigation rate in inches for the year, and the annual precipitation received at the facility.

4. **Electronic Discharge Monitoring Report (eDMR) Submission System.** Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit) shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data about the NPDES program. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as “Permitted Feature 001 Daily Data Jan 2023,” or “Permitted Feature 004 Daily Irrigation Data Mar 2025.”

(a) **eDMR Registration Requirements.** The permittee must register with the Department’s eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. Registration and other information regarding MoGEM can be found at https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem. Information about the eDMR system can be found at https://dnr.mo.gov/water/business-industry-other-entities/reporting/electronic-discharge-monitoring-reporting-system-edmr. The first user shall register as an Organization Official and the association to the facility must be approved by the Department. Regarding Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit unless a waiver is granted by the Department. See paragraph (c) below.

(b) **Electronic Submissions.** To access the eDMR system, use the following link in your web browser: https://apps5.mo.gov/mogems/welcome.action. If you experience difficulties with using the eDMR system you may contact edm@dnr.mo.gov or call 855-789-3889 or 573-526-2082 for assistance.

(c) **Waivers from Electronic Reporting.** The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the Department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: https://dnr.mo.gov/document-search/electronic-discharge-monitoring-report-waiver-request-form-mo-780-2692. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days.
C. SPECIAL CONDITIONS (continued)

5. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the Clean Water Act (CWA) section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued:
   (a) To comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the CWA, 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.
   (b) To incorporate an approved pretreatment program or modification thereto pursuant to 40 CFR 403.8(c) or 403.18(e), respectively.

6. Changes in existing pollutants or the addition of new pollutants to the treatment facility
   The permittee must provide adequate notice to the Director of the following:
   (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
   (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
   (c) For purposes of this paragraph, adequate notice shall include information on;
      (1) the quality and quantity of effluent introduced into the POTW, and
      (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

7. Report as no-discharge when irrigation does not occur during the report period.

8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

9. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9. The monitoring frequencies contained in Table A of this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. To request modification of the operational control testing requirements, the permittee shall submit a permit modification application and fee to the Department requesting a deviation from the operational control monitoring requirements. If the request is approved, the Department will modify the permit.

10. The permittee shall develop and implement a program for maintenance and repair of its collection system. The permittee may compare collection system performance results and other data with the benchmarks used in the Departments’ Capacity, Management, Operation, And Maintenance (CMOM) Model located at https://dnr.mo.gov/document-search/capacity-management-operations-maintenance-plan-editable-template. Additional information regarding the Departments’ CMOM Model is available at https://dnr.mo.gov/print/document-search/pub2574.

   The permittee shall also submit a report via the Electronic Discharge Monitoring Report (eDMR) Submission System annually, by January 28th, for the previous calendar year. The report shall contain the following information:
   (a) A summary of the efforts to locate and eliminate sources of excessive infiltration and inflow into the collection system serving the facility for the previous year.
   (b) A summary of the general maintenance and repairs to the collection system serving the facility for the previous year.
   (c) A summary of any planned maintenance and repairs to the collection system serving the facility for the upcoming calendar year. This list shall include locations (GPS, 911 address, manhole number, etc.) and actions to be taken.

11. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and wastewater irrigation systems, including key operating procedures, an aerial or topographic site map with the permitted features, irrigation fields, and irrigation buffer zones marked, and a brief summary of the operation of the facility. The O&M manual shall be made available to the operator and shall be reviewed and updated at least every five years or when there is a change in equipment or irrigation sites.
C. SPECIAL CONDITIONS (continued)

12. Reporting of Non-Detects:
   (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
   (b) The permittee shall not report a sample result as “Non-Detect” without also reporting the detection limit of the test. Reporting as “Non Detect” without also including the detection limit will be considered failure to report, which is a violation of this permit.
   (c) The permittee shall provide the “Non-Detect” sample result using the less than sign and the minimum detection limit (e.g. <10).
   (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
   (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
   (f) When calculating monthly averages, one-half of the method detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the “<MDL” shall be reported as indicated in item (c).

13. Access to the storage basin and any associated wastewater irrigation equipment must be sufficiently restricted or secured to prevent entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.

14. An all-weather access road shall be provided to the treatment facility.

15. The berms of the storage basin shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.

16. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the storage basin and to divert stormwater runoff around the storage basin and protect embankments from erosion.

17. Wastewater Irrigation Sites. To add additional irrigation sites or to convert any of the land to public-use-areas, a construction permit, geohydrologic evaluation, soils report, and permit modification may be required. The facility shall contact the Department for a written determination.

18. Sludge treatment, storage, and disposal practices shall be conducted in accordance with Standard Conditions Part III. The permittee shall receive approval for any sludge treatment, storage, or disposal practices not identified in the facility description of the operating permit.

D. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to Sections 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: https://ahc.mo.gov
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
STATEMENT OF BASIS  
MO-0112470  
EOLIA WWTF

This Statement of Basis (Statement) gives pertinent information regarding modifications to the above listed operating permit. A Statement is not an enforceable part of a Missouri State Operating Permit.

Part I – Facility Information

Facility Type: POTW  
Facility Description: Single-cell storage lagoon / wastewater is irrigated to the surface / sludge is retained in lagoon

Part II – Modification Rationale

This operating permit is hereby modified to reflect an update to the available land application acreage, to add the Wastewater Irrigation Design Parameters on Page 2 of the permit that was mistakenly not included in the renewal, to update hyperlinks in the permit that had changed due to a revision to the Department’s website, change the receiving stream name from 8-20-13 MUDD V1.0 to 100K Extent-Remaining Streams, due to a change to the Department naming of these streams, and the permit appeal language was added to the permit as Section D on Page 7. No other changes were made at this time.

Part III – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:
The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

✓ The Public Notice period for this operating permit was from April 8, 2022 to May 9, 2022. No responses received.

DATE OF STATEMENT OF BASIS: MAY 10, 2022

COMPLETED BY:

BRANT FARRIS, ENVIRONMENTAL SPECIALIST  
MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT 
(660) 385-8019  
brant.farris@dnr.mo.gov
MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL
OF
MO-0112470
EOLIA WWTF

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of stormwater from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)(A)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Minor.

Part I – Facility Information

Facility Type: POTW - SIC #4952
Facility Description: Single-cell storage lagoon / wastewater is irrigated to the surface / sludge is retained in lagoon

Have any changes occurred at this facility or in the receiving water body that affects effluent limit derivation?
☒ - No.

Application Date: 04/09/2018
Expiration Date: 11/30/2018

PERMITTED FEATURE(S) TABLE:

<table>
<thead>
<tr>
<th>PERMITTED FEATURE</th>
<th>DESIGN FLOW (CFS)</th>
<th>TREATMENT LEVEL</th>
<th>EFFLUENT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>#001</td>
<td>0.06</td>
<td>Storage Basin</td>
<td>Domestic</td>
</tr>
<tr>
<td>#002</td>
<td></td>
<td>Irrigation Field</td>
<td></td>
</tr>
</tbody>
</table>

Facility Performance History:
The facility failed to submit rainfall data on the December 2017 Discharge Monitoring Report. This facility was last inspected on November 2, 2017. The inspection showed the following unsatisfactory features: facility failed to operate the no-discharge facility as a no-discharge facility due to routine discharges during spring and summer 2017, and failed to report an unauthorized discharge within 24 hours to the Department. The facility was returned to compliance in letter from the Department dated December 29, 2017.

Comments:
Changes in this permit include updates to Special conditions including the addition of inflow and infiltration reporting requirements and reporting of Non-detects.
Part II – Operator Certification Requirements

☒ - This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

- Municipalities
- Federal agency
- County
- Public Sewer District
- State agency
- Private Sewer Company regulated by the Public Service Commission
- Public Water Supply Districts

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200).

This facility currently requires an operator with a (D) Certification Level. Please see Appendix - Classification Worksheet. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator’s Name: John W. Haake
Certification Number: 13270
Certification Level: WW-D

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

Part III – Operational Control Testing Requirements

Missouri Clean Water Commission regulation 10 CSR 20-9.010 requires certain publically owned treatment works and privately owned facilities regulated by the Public Service Commission to conduct internal operational control monitoring to further ensure proper operation of the facility and to be a safeguard or early warning for potential plant upsets that could affect effluent quality. This requirement is only applicable if the publically owned treatment works and privately owned facilities regulated by the Public Service Commission has a Population Equivalent greater than two hundred (200).

10 CSR 20-9.010(3) allows the Department to modify the monitoring frequency required in the rule based upon the Department’ judgement of monitoring needs for process control at the specified facility

☒ - As per [10 CSR 20-9.010(4)], the facility is required to conduct operational monitoring.

☒ - The facility is a lagoon that is designed as a no-discharge lagoon and is required to conduct operational control monitoring as follows:

<table>
<thead>
<tr>
<th>Operational Monitoring Parameter</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precipitation</td>
<td>twice/month</td>
</tr>
<tr>
<td>Flow – Influent or Effluent</td>
<td>twice/month</td>
</tr>
<tr>
<td>pH – Primary Cell</td>
<td>twice/month</td>
</tr>
<tr>
<td>Dissolved Oxygen – Primary Cell</td>
<td>twice/month</td>
</tr>
</tbody>
</table>
Part IV – Receiving Stream Information

While this facility is no discharge, a receiving stream is listed for the purposes of showing what stream would be affected in the event of an emergency release due to an acute or chronic rain event.

<table>
<thead>
<tr>
<th>WATER-BODY NAME</th>
<th>CLASS</th>
<th>WBID</th>
<th>DESIGNATED USES*</th>
<th>12-DIGIT HUC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tributary to Brushy Creek</td>
<td>NA</td>
<td>NA</td>
<td>General Criteria</td>
<td></td>
</tr>
<tr>
<td>8-20-13 MUDD V1.0</td>
<td>C</td>
<td>3960</td>
<td>AQL, WBC-B, SCR, HHP, IRR, LWW</td>
<td>07110008-0205</td>
</tr>
</tbody>
</table>

*As per 10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission’s water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream’s beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Receiving stream monitoring requirements: No receiving water monitoring requirements recommended at this time.

Part V – Rationale and Derivation of Effluent Limitations & Permit Conditions

Alternative Evaluations for New Facilities:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

☒ - The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(40)] & [10 CSR 20-7.031(1)(O)], or is an existing facility.
ANTI-BACKSLIDING:
A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(o); 40 CFR Part 122.44(l)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.

  - The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).

  - General Criteria. The previous permit contained a special condition which described a specific set of prohibitions related to general criteria found in 10 CSR 20-7.031(4). In order to comply with 40 CFR 122.44(d)(1), the permit writer has conducted reasonable potential determinations for each general criterion and established numeric effluent limitations where reasonable potential exists. While the removal of the previous permit special condition creates the appearance of backsliding, since this permit establishes numeric limitations where reasonable potential to cause or contribute to an excursion of the general criteria exists the permit maintains sufficient effluent limitations and monitoring requirements in order to protect water quality, this permit is equally protective as compared to the previous permit. Therefore, given this new information, and the fact that the previous permit special condition was not consistent with 40 CFR 122.44(d)(1), an error occurred in the establishment of the general criteria as a special condition of the previous permit. Please see Part VI – Effluent Limits Determination for more information regarding the reasonable potential determinations for each general criterion related to this facility.

ANTIDEGRADATION:
In accordance with Missouri’s Water Quality Standard [10 CSR 20-7.031(3)], the Department is to document by means of Antidegradation Review that the use of a water body’s available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:
As per [10 CSR 20-6.010(2)(C)], …An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:
Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works.

- Permittee is not authorized to land apply biosolids. Sludge/biosolids are stored in the lagoon. The permittee must receive approval for any treatment, removal, and disposal of sludge or biosolids that is not identified in the facility description of the operating permit.

COMPLIANCE AND ENFORCEMENT:
Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

- The permittee/facility is not currently under Water Protection Program enforcement action.
**ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM:**
The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online. In an effort to aid facilities in the reporting of applicable information electronically, the Department has created several new forms including operational control monitoring forms and an I&I location and reduction form. These forms are for optional use and can be found on the Department’s website at the following locations:

Operational Monitoring Lagoon:  [http://dnr.mo.gov/forms/780-2801-f.pdf](http://dnr.mo.gov/forms/780-2801-f.pdf)

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form:  [http://dnr.mo.gov/forms/780-2692-f.pdf](http://dnr.mo.gov/forms/780-2692-f.pdf). A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-transferable.

The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so and electronically submit the data to the EPA on behalf of the facility.

☒ - The permittee/facility is currently using the eDMR data reporting system.

**NUMERIC LAKE NUTRIENT CRITERIA**

☒ - This facility is not located within a lake watershed where numeric lake nutrient criteria are applicable, per 10 CSR 20-7.031(5)(N).

**PRETREATMENT PROGRAM:**
The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

☒ - The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

**REMOVAL EFFICIENCY:**
Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for publically owned treatment works (POTWs). See 40 CFR Part 133.102(a)(3) & (b)(3) and 40 CFR 133.105(a)(3)&(b)(3). This is a no-discharge facility, therefore removal efficiency is 100% and influent monitoring is not required.

**SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):**
Sanitary Sewer Overflows (SSOs) are defined as untreated sewage releases and are considered bypassing under state regulation [10 CSR 20-2.010(12)] and should not be confused with the federal definition of bypass. SSOs result from a variety of causes including blockages, line breaks, and sewer defects that can either allow wastewater to backup within the collection system during dry weather conditions or allow excess stormwater and groundwater to enter and overload the collection system during wet weather conditions. SSOs can also result from lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs include overflows out of manholes, cleanouts, broken pipes, and other into waters of the state and onto city streets, sidewalks, and other terrestrial locations.

Inflow and Infiltration (I&I) is defined as unwanted intrusion of stormwater or groundwater into a collection system. This can occur from points of direct connection such as sump pumps, roof drain downspouts, foundation drains, and storm drain cross-connections or through cracks, holes, joint failures, faulty line connections, damaged manholes, and other openings in the collection system itself. I&I results from a variety of causes including line breaks, improperly sealed connections, cracks caused by soil erosion/settling, penetration of vegetative roots, and other sewer defects. In addition, excess stormwater and groundwater entering the collection system from line breaks and sewer defects have the potential to negatively impact the treatment facility.

Missouri RSMo §644.026.1.(13) mandates that the Department issue permits for discharges of water contaminants into the waters of this state, and also for the operation of sewer systems. Such permit conditions shall ensure compliance with all requirements as
established by sections 644.006 to 644.141. Standard Conditions Part I, referenced in the permit, contains provisions requiring proper operation and maintenance of all facilities and systems of treatment and control. Missouri RSMo §644.026.1.(15) instructs the Department to require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities. To ensure that public health and the environment are protected, any noncompliance which may endanger public health or the environment must be reported to the Department within 24 hours of the time the permittee becomes aware of the noncompliance. Standard Conditions Part I, referenced in the permit, contains the reporting requirements for the permittee when bypasses and upsets occur. The permit also contains requirements for permittees to develop and implement a program for maintenance and repair of the collection system. The permit requires that the permittee submit an annual report to the Department for the previous calendar year that contains a summary of efforts taken by the permittee to locate and eliminate sources of excess I & I, a summary of general maintenance and repairs to the collection system, and a summary of any planned maintenance and repairs to the collection system for the upcoming calendar year.

- At this time, the Department recommends the US EPA’s Guide for Evaluating Capacity, Management, Operation and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems (Document # EPA 305-B-05-002) or the Departments’ CMOM Model located at http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc. For additional information regarding the Departments’ CMOM Model, see the CMOM Plan Model Guidance document at http://dnr.mo.gov/pubs/pub2574.htm. The CMOM identifies some of the criteria used to evaluate a collection system’s management, operation, and maintenance and was intended for use by the EPA, state, regulated community, and/or third party entities. The CMOM is applicable to small, medium, and large systems; both public and privately owned; and both regional and satellite collection systems. The CMOM does not substitute for the Clean Water Act, the Missouri Clean Water Law, and both federal and state regulations, as it is not a regulation.

**SCHEDULE OF COMPLIANCE (SOC):**

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. See also Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.4(d)(1), 10 CSR 20-7.015(9), and 10 CSR 20-7.031(11), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:
- For effluent limitations based on technology-based standards established in accordance with federal regulations, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study that may result in site-specific criteria or alternative effluent limitations. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOCs, and attain a greater level of consistency, on April 9, 2015 the Department issued an updated policy on development of SOCs. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as a Cost Analysis for Compliance.

- This permit does not contain a SOC.

**SEWER EXTENSION AUTHORITY SUPERVISED PROGRAM:**

In accordance with [10 CSR 20-6.010(6)(A)], the Department may grant approval of a permittee’s Sewer Extension Authority Supervised Program. These approved permittees regulate and approve construction of sanitary sewers and pump stations, which are tributary to this wastewater treatment facility. The permittee shall act as the continuing authority for the operation, maintenance, and modernization of the constructed collection system. See http://dnr.mo.gov/env/wpp/permits/sewer-extension.htm.

- The permittee does not have a Department approved Sewer Extension Authority Supervised Program.

**STORMWATER POLLUTION PREVENTION PLAN (SWPPP):**

In accordance with 40 CFR 122.44(k) Best Management Practices (BMPs) to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of stormwater discharges; (3) Numeric
effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

☐ - At this time, the permittee is not required to develop and implement a SWPPP. As the permittee is a no-discharge facility, the use of best management practices to reduce stormwater flows into the treatment basin or into the application fields should be considered and employed.

VARIANCE:
As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

☐ - This operating permit is not drafted under premises of a petition for variance.

WATER QUALITY STANDARDS:
Per [10 CSR 20-7.031(4)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

40 CFR 122.41(m) - BYPASSES:
The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from “bypassing” untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-7.015(9)(G) states a bypass means the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending, to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri’s Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

☐ - This facility does not anticipate bypassing.

Part VI – Permit Limits Determination

PERMITTED FEATURE #001 – STORAGE BASIN

- **Freeboard.** Monitoring requirement to verify adequate freeboard is maintained, so as to avoid an overflow of the storage basin.

- **Precipitation.** Monitoring requirement to ensure appropriate irrigation is conducted to account for accumulated water in the storage basin.

PERMITTED FEATURE #002 – IRRIGATION FIELD

- **Irrigation Period.** Monitoring requirement only. Monitoring for the Irrigation Period is included to determine if proper irrigation is occurring on the irrigation fields.

- **Volume Irrigated.** Monitoring requirement only. Monitoring for the Volume Irrigated is included to determine if proper irrigation is occurring on the irrigation fields.

- **Irrigation Area.** Monitoring requirement only. Monitoring for the Irrigation Area is included to determine if proper irrigation is occurring on the irrigation fields.

- **Irrigation Rate.** Monitoring requirement only. Monitoring for the Irrigation Rate is included to determine if proper irrigation is occurring on the irrigation fields.

**Sampling Frequency Justification:** Sampling frequency has been determined to be appropriate so it has been retained from the previous state operating permit.

**Sampling Type Justification:** Sampling type has been determined to be appropriate so it has been retained from the previous state operating permit.
EMERGENCY DISCHARGE PARAMETERS – BOD$_5$, TSS, Ammonia, pH, Oil & Grease, and E. coli are conventional pollutants found in domestic wastewater. These parameters shall be monitored at least once during the discharge event. Additional monitoring may be required by the Department on a case-by-case basis. All samples shall be collected as grab samples. pH samples cannot be preserved and must be sampled in the field.

OUTFALL #001 – GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into the permit for those pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The rule further states that pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above a narrative criterion within an applicable State water quality standard, the permit shall contain a numeric effluent limitation to protect that narrative criterion. In order to comply with this regulation, the permit writer will complete reasonable potential determinations on whether the discharge will violate any of the general criteria listed in 10 CSR 20-7.031(4). These specific requirements are listed below followed by derivation and discussion (the lettering matches that of the rule itself, under 10 CSR 20-7.031(4)). It should also be noted that Section 644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit states that it shall be unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri that is in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule or regulation promulgated by the commission.

(A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses. This facility utilizes irrigation of domestic wastewater to the land surface and therefore does not discharge. Based upon a review of a recent Report of Compliance Inspection for the inspection conducted on November 2, 2017, no evidence of an excursion of this criterion has been observed by the Department in the past and the facility has not disclosed any other information their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, there had been no indication to the Department that the stream has had issues maintaining beneficial uses as a result of the wastewater irrigation. Therefore, based on the information reviewed during the drafting of this permit, and the fact that the facility does not discharge, no reasonable potential to cause or contribute to an excursion of this criterion exists.

(B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses. Please see (A) above as justification is the same.

(C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses. Please see (A) above as justification is the same.

(D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life. Please see (A) above as justification is the same.

(E) There shall be no significant human health hazard from incidental contact with the water. Please see (A) above as justification is the same.

(F) There shall be no acute toxicity to livestock or wildlife watering. Please see (A) above as justification is the same.

(G) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community. Please see (A) above as justification is the same.

(H) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri’s Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247. The discharge from this facility is made up of treated domestic wastewater. No evidence of an excursion of this criterion has been observed by the Department in the past and the facility has not disclosed any other information related to the characteristics of the discharge on their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, any solid wastes received or produced at this facility are wholly contained in appropriate storage facilities, are not discharged, and are disposed of offsite. This discharge is subject to Standard Conditions Part III, which contains requirements for the management and disposal of sludge to prevent its discharge. Therefore, this discharge does not have reasonable potential to cause or contribute to an excursion of this criterion.

Part VII – Cost Analysis for Compliance

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a “finding of affordability” on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.
- The Department is required to make a “finding of affordability” on the new environmental requirement(s) within the permit. However, due to no costs associated with the new requirement(s) the Department has determined the permit to be affordable based on the eight requirements listed in Section 644.145.4, RSMo.

**Cost Analysis for Compliance** - The Department has made a reasonable search for empirical data indicating the permit is affordable. The search consisted of a review of Department records that might contain economic data on the community, a review of information provided by the applicant as part of the application, and public comments received in response to public notices of this draft permit. If the empirical cost data was used by the permit writer, this data may consist of median household income, any other ongoing projects that the Department has knowledge, and other demographic financial information that the community provided as contemplated by Section 644. 145.3. See **Appendix – Cost Analysis for Compliance**

**Part VIII – Administrative Requirements**

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

**WATER QUALITY STANDARD REVISION:**
In accordance with section 644.058, RSMo, the Department is required to utilize an evaluation of the environmental and economic impacts of modifications to water quality standards of twenty-five percent or more when making individual site-specific permit decisions.

- This operating permit does not contain requirements for a water quality standard that has changed twenty-five percent or more since the previous operating permit.

**PERMIT SYNCHRONIZATION:**
The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together and will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit. With permit synchronization, this permit will expire in the 4th Quarter of calendar year 2023.

**PUBLIC NOTICE:**
The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit was from April 26, 2019 to May 27, 2019. No responses received.

**DATE OF FACT SHEET:** MAY 29, 2019

**COMPLETED BY:**

**BRANT FARRIS, ENVIRONMENTAL SPECIALIST III**
**MISSOURI DEPARTMENT OF NATURAL RESOURCES**
**WATER PROTECTION PROGRAM**
**OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT**
(660) 385-8019
brant.farris@dnr.mo.gov
### APPENDIX - CLASSIFICATION WORKSHEET:

<table>
<thead>
<tr>
<th>Item</th>
<th>Points Possible</th>
<th>Points Assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Population Equivalent (P.E.) served, peak day</td>
<td>1 pt./10,000 PE or major fraction thereof. (Max 10 pts.)</td>
<td></td>
</tr>
<tr>
<td>Design Flow (avg. day) or peak month’s flow (avg. day) whichever is larger</td>
<td>1 pt. / MGD or major fraction thereof. (Max 10 pts.)</td>
<td></td>
</tr>
<tr>
<td><strong>Effluent Discharge</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri or Mississippi River</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>All other stream discharges except to losing streams and stream reaches supporting whole body contact recreation</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Discharge to lake or reservoir outside of designated whole body contact recreational area</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Direct reuse or recycle of effluent</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Land Application/Irrigation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drip Irrigation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Land application/irrigation</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Overland flow</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Variation in Raw Wastes (highest level only)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Variations do not exceed those normally or typically expected</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Reoccurring deviations or excessive variations of 100 to 200 percent in strength and/or flow</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Reoccurring deviations or excessive variations of more than 200 percent in strength and/or flow</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Department-approved pretreatment program</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Preliminary Treatment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STEP systems (operated by the permittee)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Screening and/or comminution</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Grit removal</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Plant pumping of main flow</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Flow equalization</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Primary Treatment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary clarifiers</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Chemical addition (except chlorine, enzymes)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Secondary Treatment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trickling filter and other fixed film media with or without secondary clarifiers</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Activated sludge (including aeration, oxidation ditches, sequencing batch reactors, membrane bioreactors, and contact stabilization)</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Stabilization ponds without aeration</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Aerated lagoon</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Advanced Lagoon Treatment – Aerobic cells, anaerobic cells, covers, or fixed film</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Biological, physical, or chemical</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Carbon regeneration</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Total from page ONE (1)</strong></td>
<td>----</td>
<td>10</td>
</tr>
</tbody>
</table>
### APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

<table>
<thead>
<tr>
<th>ITEM</th>
<th>POINTS POSSIBLE</th>
<th>POINTS ASSIGNED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solids Handling</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sludge Holding</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Anaerobic digestion</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Aerobic digestion</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Evaporative sludge drying</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Mechanical dewatering</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Solids reduction (incineration, wet oxidation)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Land application</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Disinfection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorination or comparable</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>On-site generation of disinfectant (except UV light)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Dechlorination</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>UV light</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Required Laboratory Control Performed by Plant Personnel (highest level only)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lab work done outside the plant</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Push -- button or visual methods for simple test such as pH, settleable solids</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Additional procedures such as DO, COD, BOD, titrations, solids, volatile content</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>More advanced determinations, such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Total from page TWO (2)</td>
<td>----</td>
<td>10</td>
</tr>
<tr>
<td>Total from page ONE (1)</td>
<td>----</td>
<td>10</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>----</td>
<td>20</td>
</tr>
</tbody>
</table>

- A: 71 points and greater
- B: 51 points – 70 points
- C: 26 points – 50 points
- D: 0 points – 25 points
These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

1. Sampling Requirements.
   a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
   b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. Monitoring Requirements.
   a. Records of monitoring information shall include:
      i. The date, exact place, and time of sampling or measurements;
      ii. The individual(s) who performed the sampling or measurements;
      iii. The date(s) analyses were performed;
      iv. The individual(s) who performed the analyses;
      v. The analytical techniques or methods used; and
      vi. The results of such analyses.
   b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.

3. Sample and Monitoring Calculations. Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

4. Test Procedures. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when: 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.

5. Record Retention. Except for records of monitoring information required by the 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 40 CFR part 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 the permit, and records of all data used to complete the application for the 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 Department at any time.

6. Illegal Activities.
   a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
   b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. Planned Changes.
   a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
      i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b);
      ii. 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 40 CFR 122.42;
      iii. 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;
      iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

   a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business 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 recurrence of the noncompliance.
Section C – Bypass/Upset Requirements

1. Definitions.
   a. **Bypass:** the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
   b. **Severe Property Damage:** 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.
   c. **Upset:** 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. Bypass Requirements.
   a. 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 paragraphs 2. b. and 2. c. of this section.
   b. Notice. i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
      ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
   c. Prohibition of bypass. i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
      1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      2. 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
      3. The permittee submitted notices as required under paragraph 2. b. of this section.
      ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. Upset Requirements.
   a. 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 paragraph 3. b. of this section 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.
   b. 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:
      i. An upset occurred and that the permittee can identify the cause(s) of the upset;
      ii. The permitted facility was at the time being properly operated; and
      iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
   c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
   a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
   b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement
imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates sections 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(ii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed $10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $25,000. Penalties for Class II violations are not to exceed $10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $125,000.

d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, or other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed $10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than $50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. Duty to Reapply.

a. 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.

b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)

c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)

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.

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.

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.

6. Permit Actions.

a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

i. Violations of any terms or conditions of this permit or the law;  

ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;

iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or

iv. Any reason set forth in the Law or Regulations.

b. 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.

7. Permit Transfer.

a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.

b. The Department 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 the Missouri Clean Water Law or the Federal Clean Water Act.

c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.

8. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

9. Property Rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department 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 Department upon request, copies of records required to be kept by this permit.

11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
   a. 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 the permit;
   b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
   c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
   d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. **Closure of Treatment Facilities.**
   a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
   b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. **Signatory Requirement.**
   a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
   b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
   c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.

14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.
PART II - SPECIAL CONDITIONS – PUBLICLY OWNED TREATMENT WORKS
SECTION A – INDUSTRIAL USERS

1. Definitions
Definitions as set forth in the Missouri Clean Water Laws and approved by the Missouri Clean Water Commission shall apply to terms used herein.

Significant Industrial User (SIU). Except as provided in the General Pretreatment Regulation 10 CSR 20-6.100, the term Significant Industrial User means:
1. All Industrial Users subject to Categorical Pretreatment Standards; and
2. Any other Industrial User that: discharges an average of 25,000 gallons per day or more of process wastewater to the Publicly-Owned Treatment Works (POTW) (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW’s or for violating any Pretreatment Standard or requirement.


2. Identification of Industrial Discharges
Pursuant to 40 CFR 122.44(j)(1), all POTWs shall identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR 403.

3. Application Information
Applications for renewal or modification of this permit must contain the information about industrial discharges to the POTW pursuant to 40 CFR 122.21(j)(6)

4. Notice to the Department
Pursuant to 40 CFR 122.42(b), all POTWs must provide adequate notice of the following:
1. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging these pollutants; and
2. Any substantial change into the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

For purposes of this paragraph, adequate notice shall include information on:
   i. the quality and quantity of effluent introduced into the POTW, and
   ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

For POTWs without an approved pretreatment program, the notice of industrial discharges which was not included in the permit application shall be made as soon as practicable. For POTWs with an approved pretreatment program, notice is to be included in the annual pretreatment report required in the special conditions of this permit. Notice may be sent to:

   Missouri Department of Natural Resources
   Water Protection Program
   Attn: Pretreatment Coordinator
   P.O. Box 176
   Jefferson City, MO 65102
STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
March 1, 2015

PART III – SLUDGE AND BIOSOLIDS FROM DOMESTIC AND INDUSTRIAL WASTEWATER TREATMENT FACILITIES

SECTION A – GENERAL REQUIREMENTS

1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.

2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.

3. Sludge and Biosolids Use and Disposal Practices:
   a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
   b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
   c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.

4. Sludge Received from other Facilities:
   a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
   b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge.

5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.

6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.

7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Actor under Chapter 644 RSMo.

8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.

9. Alternate Limits in the Site Specific Permit.
   Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:
   a. A site specific permit must be obtained for each operating location, including application sites.
   b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.

10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
    a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
    b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.
SECTION B – DEFINITIONS

1. Best Management Practices include agronomic loading rates, soil conservation practices and other site restrictions.
2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
7. Industrial wastewater means any wastewater, also known as process water, not defined as domestic wastewater. Per 40 CFR Part 122, process water means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
8. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include wastewater treatment lagoons and constructed wetlands for wastewater treatment.
9. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
10. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the growing seasons after biosolids application.
11. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
12. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs)
13. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
14. Septage is the material pumped from residential septic tanks and similar treatment works (with a design population of less than 150 people). The standard for biosolids from septage is different from other sludges.

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

1. Sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and sludge conditions of this permit.
2. The permittee shall operate the facility so that there is no sludge discharged to waters of the state.
3. Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D – SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER

1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the Department; or the hauler transports the sludge to another permitted treatment facility.
3. Haulers who land apply septage must obtain a state permit.
4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility, unless it is required by the accepting facility.
**SECTION E – INCINERATION OF SLUDGE**

1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous with 10 CSR 25.
3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored, and ash used or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.

**SECTION F – SURFACE DISPOSAL SITES AND SLUDGE LAGOONS**

1. Surface disposal sites of domestic facilities shall comply with the requirements in 40 CFR 503 Subpart C; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
2. Sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain sludge storage lagoons as storage facilities, accumulated sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of sludge removed will be dependent on sludge generation and accumulation in the facility. Enough sludge must be removed to maintain adequate storage capacity in the facility.
   a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the Department; or
   b. Permittee shall close the lagoon in accordance with Section H.

**SECTION G – LAND APPLICATION**

1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the facility description or the special conditions of the issued NPDES permit.
2. Land application sites within a 20 miles radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless otherwise specified in a site specific permit. If the permittee’s land application site is greater than a 20 mile radius of the wastewater treatment facility, approval must be granted from the Department.
3. Land application shall not adversely affect a threatened or endangered species or its designated critical habitat.
4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
   a. This permit does not authorize the land application of domestic sludge except for when sludge meets the definition of biosolids.
   b. This permit authorizes “Class A or B” biosolids derived from domestic wastewater and/or process water sludge to be land applied onto grass land, crop land, timber or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
5. Public Contact Sites:
   Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the Department after two years of proper operation with acceptable testing documentation that shows the biosolids meet Class A criteria. A shorter length of testing will be allowed with prior approval from the Department. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site specific permit.
   a. After Class B biosolids have been land applied, public access must be restricted for 12 months.
   b. Class B biosolids are only land applied to root crops, home gardens or vegetable crops whose edible parts will not be for human consumption.
6. Agricultural and Silvicultural Sites:
   Septage – Based on Water Quality guide 422 (WQ422) published by the University of Missouri
   a. Haulers that land apply septage must obtain a state permit
   b. Do not apply more than 30,000 gallons of septage per acre per year.
   c. Septage tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to other mechanical type treatment facilities.
   d. To meet Class B sludge requirements, maintain septage at 12 pH for at least thirty (30) minutes before land application. 50 pounds of hydrated lime shall be added to each 1,000 gallons of septage in order to meet pathogen and vector stabilization for septage biosolids applied to crops, pastures or timberland.
   e. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.
Biosolids - Based on Water Quality guide 423, 424, and 425 (WQ423, WQ424, WQ425) published by the University of Missouri;

a. Biosolids shall be monitored to determine the quality for regulated pollutants.
b. The number of samples taken is directly related to the amount of sludge produced by the facility (See Section I of these Standard Conditions). Report as dry weight unless otherwise specified in the site specific permit. Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to reach the maximum concentration of pollutants allowed.
c. Table 1 gives the maximum concentration allowable to protect water quality standards.

d. The low metal concentration biosolids has reduced requirements because of its higher quality and can safely be applied for 100 years or longer at typical agronomic loading rates. (See Table 2)

e. Each pollutant in Table 3 has an annual and a total cumulative loading limit, based on the allowable pounds per acre for various soil categories.

### Table 1

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Biosolids ceiling concentration $^1$</th>
<th>Milligrams per kilogram dry weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td></td>
<td>75</td>
</tr>
<tr>
<td>Cadmium</td>
<td></td>
<td>85</td>
</tr>
<tr>
<td>Copper</td>
<td></td>
<td>4,300</td>
</tr>
<tr>
<td>Lead</td>
<td></td>
<td>840</td>
</tr>
<tr>
<td>Mercury</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>Molybdenum</td>
<td></td>
<td>75</td>
</tr>
<tr>
<td>Nickel</td>
<td></td>
<td>420</td>
</tr>
<tr>
<td>Selenium</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Zinc</td>
<td></td>
<td>7,500</td>
</tr>
</tbody>
</table>

1 Land application is not allowed if the sludge concentration exceeds the maximum limits for any of these pollutants.

### Table 2

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Biosolids Low Metal Concentration $^1$</th>
<th>Milligrams per kilogram dry weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic</td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Cadmium</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>Copper</td>
<td></td>
<td>1,500</td>
</tr>
<tr>
<td>Lead</td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>Mercury</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Nickel</td>
<td></td>
<td>420</td>
</tr>
<tr>
<td>Selenium</td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Zinc</td>
<td></td>
<td>2,800</td>
</tr>
</tbody>
</table>

1 You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

### Table 3

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CEC 15+</th>
<th>CEC 5 to 15</th>
<th>CEC 0 to 5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Annual</td>
<td>Total $^1$</td>
<td>Annual</td>
</tr>
<tr>
<td>Arsenic</td>
<td>1.8</td>
<td>36.0</td>
<td>1.8</td>
</tr>
<tr>
<td>Cadmium</td>
<td>1.7</td>
<td>35.0</td>
<td>0.9</td>
</tr>
<tr>
<td>Copper</td>
<td>66.0</td>
<td>1335.0</td>
<td>25.0</td>
</tr>
<tr>
<td>Lead</td>
<td>13.0</td>
<td>267.0</td>
<td>13.0</td>
</tr>
<tr>
<td>Mercury</td>
<td>0.7</td>
<td>15.0</td>
<td>0.7</td>
</tr>
<tr>
<td>Nickel</td>
<td>19.0</td>
<td>347.0</td>
<td>19.0</td>
</tr>
<tr>
<td>Selenium</td>
<td>4.5</td>
<td>89.0</td>
<td>4.5</td>
</tr>
<tr>
<td>Zinc</td>
<td>124.0</td>
<td>2,492.0</td>
<td>50.0</td>
</tr>
</tbody>
</table>

1 Total cumulative loading limits for soils with equal or greater than 6.0 pH (salt based test) or 6.5 pH (water based test)
### Table 4 - Guidelines for land application of other trace substances

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Pounds per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>4,000&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Beryllium</td>
<td>100</td>
</tr>
<tr>
<td>Cobalt</td>
<td>50</td>
</tr>
<tr>
<td>Fluoride</td>
<td>800</td>
</tr>
<tr>
<td>Manganese</td>
<td>500</td>
</tr>
<tr>
<td>Silver</td>
<td>200</td>
</tr>
<tr>
<td>Tin</td>
<td>1,000</td>
</tr>
<tr>
<td>Dioxin</td>
<td>(10 ppt in soil)&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

2. This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.
4. Case by case review. Concentrations in sludge should not exceed the 95<sup>th</sup> percentile of the National Sewage Sludge Survey, EPA, January 2009.

### Best Management Practices – Based on Water Quality guide 426 (WQ426) published by the University of Missouri

a. Use best management practices when applying biosolids.
b. Biosolids cannot discharge from the land application site
c. Biosolid application is subject to the Missouri Department of Agriculture State Milk Board concerning grazing restrictions of lactating dairy cattle.
d. Biosolid application must be in accordance with section 4 of the Endangered Species Act.
e. Do not apply more than the agronomic rate of nitrogen needed.
f. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) When biosolids are land applied at an application rate greater than two dry tons per acre per year.
   i. PAN can be determined as follows and is in accordance with WQ426
      \[(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1)\].
      <sup>1</sup>Volatilization factor is 0.7 for surface application and 1 for subsurface application.
g. Buffer zones are as follows:
   i. 300 feet of a water supply well, sinkhole, lake, pond, water supply reservoir or water supply intake in a stream;
   ii. 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstanding state resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
   iii. 150 feet if dwellings;
   iv. 100 feet of wetlands or permanent flowing streams;
   v. 50 feet of a property line or other waters of the state, including intermittent flowing streams.
h. Slope limitation for application sites are as follows:
   i. A slope 0 to 6 percent has no rate limitation
   ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels
   iii. Slopes > 12 percent, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
i. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
k. Biosolids / sludge applicators must keep detailed records up to five years.
SECTION H – CLOSURE REQUIREMENTS

1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.

2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 – 6.010 and 10 CSR 20 – 6.015.

3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
   a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
   b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
   c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
      i. PAN can be determined as follows:
         \[
         (\text{Nitrate + nitrite nitrogen}) + (\text{organic nitrogen x 0.2}) + (\text{ammonia nitrogen x volatilization factor}^1).
         \]
      1 Volatilization factor is 0.7 for surface application and 1 for subsurface application.

4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered “septage” under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
   a. Testing for metals or fecal coliform is not required
   b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
   c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above.
      Allowable PAN loading is 300 pounds/acre.

5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain ≥70% vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.

6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200.

7. When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
   a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain ≥70% vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
   b. Per 10 CSR 20-6.015(4)(B), Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
   c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.

8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.
SECTION I – MONITORING FREQUENCY

1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed. Please see the table below.

<table>
<thead>
<tr>
<th>Design Sludge Production (dry tons per year)</th>
<th>Monitoring Frequency (See Notes 1, 2, and 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals, Pathogens and Vectors</td>
<td>TKN 1</td>
</tr>
<tr>
<td>Nitrogen TKN 1</td>
<td>PAN 2</td>
</tr>
<tr>
<td>Priority Pollutants and TCLP 3</td>
<td></td>
</tr>
<tr>
<td>0 to 100</td>
<td>1 per year</td>
</tr>
<tr>
<td>101 to 200</td>
<td>biannual</td>
</tr>
<tr>
<td>201 to 1,000</td>
<td>quarterly</td>
</tr>
<tr>
<td>1,001 to 10,000</td>
<td>1 per month</td>
</tr>
<tr>
<td>10,001 +</td>
<td>1 per week</td>
</tr>
</tbody>
</table>

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids.
Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals.
Note 3: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

2. If you own a wastewater treatment lagoon or sludge lagoon that is cleaned out once a year or less, you may choose to sample only when the sludge is removed or the lagoon is closed. Test one composite sample for each 100 dry tons of sludge or biosolids removed from the lagoon during the year within the lagoon at closing. Composite sample must represent various areas at one-foot depth.

3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the Department.

4. At this time, the Department recommends monitoring requirements shall be performed in accordance with, “POTW Sludge Sampling and Analysis Guidance Document,” United States Environmental Protection Agency, August 1989, and the subsequent revisions.

SECTION J – RECORD KEEPING AND REPORTING REQUIREMENTS

1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these standard conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.

2. Reporting period
   a. By January 28th of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
   b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.

3. Report Forms. The annual report shall be submitted on report forms provided by the Department or equivalent forms approved by the Department.

4. Reports shall be submitted as follows:

   Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the Department and EPA. Other facilities need to report only to the Department. Reports shall be submitted to the addresses listed as follows:

   DNR regional office listed in your permit
   (see cover letter of permit)
   ATTN: Sludge Coordinator

   EPA Region VII
   Water Compliance Branch (WACM)
   Sludge Coordinator
   11201 Renner Blvd.
   Lenexa, KS 66219
5. Annual report contents. The annual report shall include the following:
   a. Sludge and biosolids testing performed. Include a copy or summary of all test results, even if not required by the permit.
   b. Sludge or biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at the end of the year, and the quantity used or disposed.
   c. Gallons and % solids data used to calculate the dry ton amounts.
   d. Description of any unusual operating conditions.
   e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
      i. This must include the name, address for the hauler and sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that facility.
      ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
   f. Contract Hauler Activities:
      If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.
   g. Land Application Sites:
      i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¼, ¼, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
      ii. If the “Low Metals” criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
      iii. Report the method used for compliance with pathogen and vector attraction requirements.
      iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

FORM B: APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW LESS THAN OR EQUAL TO 100,000 GALLONS PER DAY

READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM

1. THIS APPLICATION IS FOR:
   - [ ] An operating permit for a new or unpermitted facility. Construction Permit # _____
     (Include completed antidegradation review or request for antidegradation review, see instructions)
   - [ ] A new site-specific operating permit formerly general permit #MOG _____
   - [X] A site-specific operating permit renewal: Permit #MO- 0112470 Expiration Date 11/30/2018
   - [ ] A site-specific operating permit modification: Permit #MO- _____ Reason: _____
   - [ ] General permit (MOGD - Non POTWs discharging < 50,000 GPD or MOG823 - Land Application of Domestic Wastewater): Permit #MO- _____ Expiration Date _____

1.1 Is the appropriate fee included with the application (see instructions for appropriate fee)?
   - [ ] YES
   - [X] NO

2. FACILITY

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eolia WWTF</td>
<td>(573) 485-7310</td>
</tr>
</tbody>
</table>

ADDRESS (PHYSICAL)
Southwest of intersection Hwy FF & New Subdivision Rd

<table>
<thead>
<tr>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eolia</td>
<td>MO</td>
<td>63344</td>
</tr>
</tbody>
</table>

2.1 Legal description: ¼, ¼, ¼, Sec. 33, T 52n, R 1w County Pike

2.2 UTM Coordinates Easting (X): 670526 Northing (Y): 4344016
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

2.3 Name of receiving stream: Unnamed tributary to Brush Creek

2.4 Number of outfalls: Wastewater outfalls: Stormwater outfalls: Instream monitoring sites:

3. OWNER

<table>
<thead>
<tr>
<th>NAME</th>
<th>EMAIL ADDRESS</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Village of Eolia</td>
<td><a href="mailto:villageofeolia@gmail.com">villageofeolia@gmail.com</a></td>
<td>(573) 485-7310</td>
</tr>
</tbody>
</table>

ADDRESS
PO Box 7

<table>
<thead>
<tr>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eolia</td>
<td>MO</td>
<td>63344</td>
</tr>
</tbody>
</table>

3.1 Request review of draft permit prior to public notice?
   - [X] YES
   - [ ] NO

3.2 Are you a publicly owned treatment works?
   - [X] YES
   - [ ] NO
   If yes, is the Financial Questionnaire attached?
   - [ ] YES
   - [X] NO

3.3 Are you a privately owned treatment works?
   - [ ] YES
   - [X] NO

3.4 Are you a privately owned treatment facility regulated by the Public Service Commission?
   - [ ] YES
   - [X] NO

4. CONTINUING AUTHORITY: Permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the facility.

<table>
<thead>
<tr>
<th>NAME</th>
<th>EMAIL ADDRESS</th>
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</tr>
</thead>
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<td><a href="mailto:villageofeolia@gmail.com">villageofeolia@gmail.com</a></td>
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ADDRESS
PO Box 7

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<tbody>
<tr>
<td>Eolia</td>
<td>MO</td>
<td>63344</td>
</tr>
</tbody>
</table>

If the continuing authority is different than the owner, include a copy of the contract agreement between the two parties and a description of the responsibilities of both parties within the agreement.

5. OPERATOR

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
<th>CERTIFICATE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Haake</td>
<td>Wastewater Operator</td>
<td>13270</td>
</tr>
</tbody>
</table>

EMAIL ADDRESS
villageofeolia@gmail.com

TELEPHONE NUMBER WITH AREA CODE
(573) 485-7310

6. FACILITY CONTACT

<table>
<thead>
<tr>
<th>NAME</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Haake</td>
<td>Wastewater Operator</td>
</tr>
</tbody>
</table>

EMAIL ADDRESS
villageofeolia@gmail.com

TELEPHONE NUMBER WITH AREA CODE
(573) 485-7310

ADDRESS
PO Box 7

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</thead>
<tbody>
<tr>
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<td>MO</td>
<td>63344</td>
</tr>
</tbody>
</table>
7. DESCRIPTION OF FACILITY

7.1 Process Flow Diagram or Schematic: Provide a diagram showing the processes of the treatment plant. Show all of the treatment units, including disinfection (e.g., chlorination and dechlorination), influents, and outfalls. Specify where samples are taken. Indicate any treatment process changes in the routing of wastewater during dry weather and peak wet weather. Include a brief narrative description of the diagram. Attach sheets as necessary.

7.2 Attach an aerial photograph or USGS topographic map showing the location of the facility and outfall.
8. ADDITIONAL FACILITY INFORMATION

8.1 Facility SIC code: _____ Discharge SIC code: 4953

8.2 Number of people presently connected or population equivalent (P.E.) 231 Design P.E. 522

8.3 Connections to the facility:

Number of units presently connected:

Homes 172 Trailers 20 Apartments 30 Other (including industrial) _____

Number of commercial establishments: 9 _____

8.4 Design flow: 39000 Actual flow:

8.5 Will discharge be continuous through the year? ☐ Yes ☑ No

Discharge will occur during the following months:

How many days of the week will discharge occur?

8.6 Is industrial wastewater discharged to the facility? ☐ Yes ☑ No

If yes, attach a list of the industries that discharge to your facility

8.7 Does the facility accept or process leachate from landfills? ☐ Yes ☑ No

8.8 Is wastewater land applied? ☑ Yes ☐ No

If yes, is Form I attached? ☑ Yes ☐ No

8.9 Does the facility discharge to a losing stream or sinkhole? ☐ Yes ☑ No

8.10 Has a wasteload allocation study been completed for this facility? ☑ Yes ☐ No

9. LABORATORY CONTROL INFORMATION

LABORATORY WORK CONDUCTED BY PLANT PERSONNEL

Lab work conducted outside of plant. ☑ Yes ☐ No

Push-button or visual methods for simple test such as pH, settleable solids. ☑ Yes ☐ No

Additional procedures such as dissolved oxygen, chemical oxygen demand, biological oxygen demand, titrations, solids, volatile content. ☐ Yes ☑ No

More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc. ☐ Yes ☑ No

Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph. ☐ Yes ☑ No

10. COLLECTION SYSTEM

10.1 Length of pipe in the sewer collection system? 40400 _____ Feet, or 7.56 _____ Miles (either unit is appropriate)

10.2 Does significant infiltration occur in the collection system? ☑ Yes ☐ No

If yes, briefly explain any steps underway or planned to minimize inflow and infiltration:

A lot of rain will cause big flows at lagoon

11. BYPASSING

Does any bypassing occur in the collection system or at the treatment facility? ☑ Yes ☐ No

If yes, explain:

discharge of effluent if lagoon is full and can’t irrigate because of wet ground.
12. SLUDGE HANDLING, USE AND DISPOSAL

12.1 Is the sludge a hazardous waste as defined by 10 CSR 25? [Yes ☑ No ☐]

12.2 Sludge production, including sludge received from others: 9 Design dry tons/year 8 Actual dry tons/year

12.3 Capacity of sludge holding structures:
   ✔ Sludge storage is provided. ☐ Sludge is stored in lagoon.
   No sludge storage is provided.

12.4 Type of Storage: ☐ Holding tank ☐ Building ☐ Lagoon ☐ Concrete Pad ☐ Other (Describe) ________

12.5 Sludge Treatment:
   ☑ Anaerobic Digester ☐ Lagoon ☐ Composting
   ☐ Storage Tank ☐ Aerobic Digester ☐ Other (Attach description) ________
   ☐ Lime Stabilization ☐ Air or Heat Drying

12.6 Sludge Use or Disposal:
   ☑ Contract Hauler ☐ Hauled to Another treatment facility
   ☒ Land Application ☐ Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years)
   ☐ Incineration ☐ Sludge Retained in Wastewater treatment lagoon
   ☐ Solid waste landfill

12.7 Person responsible for hauling sludge to disposal facility:
   ☐ By applicant ☒ By others (Complete below)

NAME: Ted Brown Hauling
ADDRESS: 206 Brown Ln
CITY: Louisiana
STATE: MO
ZIP CODE: 63353
CONTACT PERSON: Ted Brown
TELEPHONE NUMBER WITH AREA CODE: (573) 754-5812
PERMIT NO.: MO- G821144

12.8 Sludge use or disposal facility
   ☐ By applicant ☒ By others (Complete below.)

NAME: City of Louisiana
ADDRESS: 202 S 3rd St
CITY: Louisiana
STATE: MO
ZIP CODE: 63353
CONTACT PERSON: Ted Brown
TELEPHONE NUMBER WITH AREA CODE: (573) 754-5812
PERMIT NO.: MO- 01090

12.9 Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503?
   ☐ Yes ☐ No (Explain)

13. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM

Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. One of the following must be checked in order for this application to be considered complete. Please visit http://dnr.mo.gov/env/wpp/edmr.htm to access the Facility Participation Package.

☑ - You have completed and submitted with this permit application the required documentation to participate in the eDMR system.
☐ - You have previously submitted the required documentation to participate in the eDMR system and/or you are currently using the eDMR system.
☐ - You have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.

14. CERTIFICATION

I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law.

NAME (TYPE OR PRINT): John Haake
OFFICIAL TITLE: Wastewater Operator
TELEPHONE NUMBER WITH AREA CODE: (573) 485-7310
SIGNATURE: [Signature]
DATE SIGNED: 04-04-18
INSTRUCTIONS FOR COMPLETING FORM B: APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW LESS THAN OR EQUAL TO 100,000 GALLONS PER DAY

(Facilities over 100,000 gallons per day of domestic waste must use FORM B2)
(Facilities that receive wastes other than domestic contact the department)

1. Check the appropriate box. Do not check more than one item. Operating permit refers to a permit issued by the Department of Natural Resources' Water Protection Program. If an Antidegradation Review has not been conducted, submit the application located at the following link to the Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102: http://dnr.mo.gov/forms/780-1893-f.pdf

1.1 Fees Information:
DOMESTIC OPERATING PERMIT FEES – PRIVATE

Annual operating permit fees are based on flow:

<table>
<thead>
<tr>
<th>Annual fee/Design flow</th>
<th>Annual fee/Design flow</th>
<th>Annual fee/Design flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>$150 - &lt;5,000 gpd</td>
<td>$1,000 - 15,000-24,999 gpd</td>
<td>$4,000 - 100,000-249,999 gpd</td>
</tr>
<tr>
<td>$300 - 5,000-9,999 gpd</td>
<td>$1,500 - 25,000-29,999 gpd</td>
<td>$5,000 - &gt;250,000 gpd</td>
</tr>
<tr>
<td>$600 - 10,000-14,999 gpd</td>
<td>$3,000 - 30,000-99,999 gpd</td>
<td></td>
</tr>
</tbody>
</table>

New domestic wastewater treatment facilities must submit the annual fee with the original application.

If the application is for a site-specific permit re-issuance, send no fees. You will be invoiced separately by the department on the anniversary date of the original permit. Late fees of two percent per month are charged and added to outstanding annual fees.

PUBLIC SEWER SYSTEM OPERATING PERMIT FEES (city, public sewer district, public water district, or other publicly owned treatment works). Annual fee is based on number of service connections. Fees listings are found in 10 CSR 20-6.011 which is available at http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. New public sewer system facilities should not submit any fee as the department will invoice the permittee.

OPERATING PERMIT MODIFICATIONS, including transfers, are subject to the following fees:

a. Publicly Owned Treatment Works (POTWs) - $200 each.
b. Non-POTWs – $100 each for a minor modification (name changes, address changes, other non-substantive changes) or a fee equal to 25% of the facility’s annual operating fee for a major modification.

2. Name of Facility – Include the name by which this facility is locally known. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Provide the street address or location of the facility. If the facility lacks a street name or route number, provide the names of the closest intersection, highway, country road, etc.

3. Self-explanatory

4. Owner – Provide the legal name, mailing address, phone number, and email address of the owner. Prior to submitting a permit to public notice, the Department of Natural Resources shall provide the permit applicant 15 days to review the draft permit for nonsubstantive drafting errors. In the interest of expediting permit issuance, permit applicants may waive the opportunity to review draft permits prior to public notice.

5. Self-explanatory

6. Continuing Authority – Include the permanent organization that will serve as the continuing authority for the operation, maintenance and modernization of the facility. The regulatory requirement regarding continuing authority is available at http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf or contact the Department of Natural Resources Water Protection Program (see contact information below).

7. Operator – Provide the name, certificate number, title, mailing address, phone number, and email address of the operator of the facility.

8. Provide the name, mailing address, work phone number, and e-mail address of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by the department.
7.1 Process Flow Diagram Examples

7.2 A topographic map is available on the Web at [www.dnr.mo.gov/internetmapviewer/](http://www.dnr.mo.gov/internetmapviewer/) or from the Department of Natural Resources' Geological Survey Division in Rolla at 573-368-2125.

8.1 For Standard Industrial Codes visit [www.osha.gov/pls/imis/sicsearch.html](http://www.osha.gov/pls/imis/sicsearch.html) or contact the Department of Natural Resources' Water Protection Program. For example, a family style restaurant has a Facility SIC code of 5812.

8.2-8.7 Self-explanatory.


8.9-8.10 Self-explanatory
INSTRUCTIONS FOR COMPLETING FORM B: APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW LESS THAN OR EQUAL TO 100,000 GALLONS PER DAY (continued)


10.1 Self-explanatory.

10.2 If Inflow and Infiltration (I&I) is a problem at the facility, list possible actions to be taken to repair the collection and treatment facility.

11. Include overflows of combined sewers and lift stations or bypassing of the wastewater treatment facility. Provide a detailed description of the circumstances that sewage bypassing occurs and the frequency of occurrence.


12.1-12.9 Self-explanatory.

12.9 Refer to University of Missouri Extension Environmental Quality publications about biosolids (WQ420-WQ426). The documents are available at extension.missouri.edu/main/DisplayCategory.aspx?C=74. In addition, the federal sludge regulations are available through the U.S. Government Printing Office at https://www.gpo.gov/fdsys/browse/collectionCode=CFR.

13. Electronic Discharge Monitoring Report (eDMR) Submission System – Visit the eDMR site at http://dnr.mo.gov/env/wpp/edmr.htm and click on the “Facility Participation Package” link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package. Waivers to electronic reporting may be granted by the Department per 40 CFR 127.15 under certain, special circumstances. A written request must be submitted to the Department for approval. Waivers may be granted to facilities owned or operated by:

a. members of religious communities that choose not to use certain technologies or
b. permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: http://www.broadbandmap.gov. Please contact the Department if you need assistance.

14. CERTIFICATION

Signature - All applications must be signed as follows and the signatures must be original:

a. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.

b. For a partnership or sole proprietorship, by a general partner or the proprietor.

c. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

Submittal of an incomplete application may result in the application being returned.

This completed form and any attachments along with the applicable permit fees, should be submitted to:

Department of Natural Resources
Water Protection Program
ATTN: NPDES Permits and Engineering Section
P.O. Box 176
Jefferson City, MO 65102

Map of regional offices with addresses and phone numbers are available on the web at http://dnr.mo.gov/regions/. If there are any questions concerning this form, contact the appropriate regional office or the Department of Natural Resources, Water Protection Program, Operating Permits Section at 800-361-4827 or 573-751-6825.
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM I – PERMIT APPLICATION FOR
OPERATION OF WASTEWATER IRRIGATION SYSTEMS

INSTRUCTIONS: The following forms must be submitted with Form I: FORM B or B2 for domestic wastewater.
FORM A for industrial wastewater.

1. FACILITY INFORMATION

<table>
<thead>
<tr>
<th>1.1 Facility Name</th>
<th>1.2 Permit Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eolia WWTF</td>
<td>MO- 011247</td>
</tr>
</tbody>
</table>

1.3 Type of wastewater to be irrigated:
- Domestic
- Municipal
- State/National Park
- Seasonal business
- Municipal with Pretreatment Program or Significant Industrial Users
- Other (explain) ______

SIC Codes (list all that apply, in order of importance) 4952

1.4 Months when the business or enterprise will operate or generate wastewater:
- 12 months per year
- Part of year (list Months): __________

1.5 This system is designed for:
- No-discharge
- Partial irrigation when feasible and discharge rest of time
- Irrigation during recreation season (April – October) and discharge during November – March
- Other (explain) ______

1.6 List the Facility outfalls which will be applicable to the irrigation system.

Outfall Numbers: 01

2. STORAGE BASINS

2.1 Number of storage basins: 1

Type of basin:
- Steel
- Concrete
- Fiberglass
- Earthen
- Earthen with membrane liner

3. LAND APPLICATION SYSTEM

3.1 Number of irrigation sites 1

Total Acres 40.26

<table>
<thead>
<tr>
<th>Location</th>
<th>Total Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼, ¼, ¼, Sec 33 T 52 R 1W Pike County</td>
<td>40.3 Acres</td>
</tr>
</tbody>
</table>

Attach pages as needed.

3.2 Attach a site map showing topography, storage basins, irrigation sites, property boundary, streams, wells, roads, dwellings, and other pertinent features.

3.3 Type of vegetation:
- Grass hay
- Pasture
- Timber
- Row crops
- Other (describe) ______

3.4 Wastewater flow (dry weather) gallons/day:

- Average annual: 4638000
- Seasonal: 92765
- Off-season: ______

Months of seasonal flow: 7
### 3. LAND APPLICATION SYSTEM (continued)

#### 3.5 Land Application rate per acre (design flow including 1 in 10 year stormwater flows):

<table>
<thead>
<tr>
<th>Design</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches/year</td>
<td>inches/year</td>
</tr>
<tr>
<td>inches/hour</td>
<td>inches/hour</td>
</tr>
<tr>
<td>inches/day</td>
<td>inches/day</td>
</tr>
<tr>
<td>inches/week</td>
<td>inches/week</td>
</tr>
</tbody>
</table>

**Total Irrigation per year (gallons):**

- **Design:** 1420000
- **Actual:** 4638000

**Actual months used for Irrigation (check all that apply):**

- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
- Oct
- Nov
- Dec

#### 3.6 Land Application Rate is based on:

- [x] Nutrient Management Plan (N&P)
- [ ] Hydraulic Loading
- [ ] Other (describe)

#### 3.7 Equipment type:

- [x] Sprinklers
- [ ] Gated pipe
- [ ] Center pivot
- [x] Traveling gun
- [ ] Other (describe)

**Equipment Flow Capacity:** 1200 Gallons per hour

**Total hours of operation per year:** 293

#### 3.8 Public Use Areas. Public access shall not be allowed to public use area irrigation sites when application is occurring. Method of Public Access Restriction:

- [x] Site is Fenced
- [ ] Wastewater disinfection prior to irrigation
- [ ] Site is not for public use
- [ ] Other (describe): Posted no trespassing signs

#### 3.9 Separation distance (in feet) from the outside edge of the wetted irrigation area to nearby down gradient features:

- [ ] Permanent flowing stream
- [ ] Losing Stream
- [ ] Intermittent (wet weather) stream
- [ ] Lake or pond
- [ ] 50ft Property boundary
- [ ] Dwellings
- [ ] Water supply well
- [ ] Other (describe)

#### 3.10 The facility must develop and retain an Operation and Maintenance (O&M) Plan for the irrigation system.

**Date of O&M Plan:**

### 4. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment.

**OWNER OR AUTHORIZED REPRESENTATIVE:** John Haake

**OFFICIAL TITLE:** Wastewater Operator

**EMAIL ADDRESS:**

**TELEPHONE NUMBER WITH AREA CODE:** (573) 485-7310

**SIGNATURE:**

**DATE SIGNED:** 04-04-18
ATTACHMENT A
(To be included with Form I and Form R)

Top of Berm
Lagoon or Storage Basin
PROFILE SKETCH

Top Surface Area (sp. ft.) at inside top of Berm

Emergency Overflow

Safety Volume: 25-year-24-hour storm

Maximum Operating Level 1 ft below overflow

Storage Volume:
Wastewater Flows and 1-in-10 year Rainfall minus Evaporation

Minimum Operating Level 1 ft below overflow

Bottom Seal Protection
Treatment and Sludge Storage

Bottom Surface Area (sq. ft.)

DEFINITION OF TERMS (REFER TO THE PROFILE SKETCH ABOVE).

a. Freeboard is depth from top of berm to emergency spillway (minimum 1 foot);

b. Safety Volume is depth for 25-year, 24-hour storm (minimum of 1 foot);

c. Maximum Operating Level is at bottom of the safety volume (minimum of 2 feet below top of berm);

d. Minimum Operating Level is 2 feet above bottom of lagoon for seal protection per 10 CSR 20-8.
   The minimum operating level may be greater than 2 feet when additional treatment volume is included.

e. Storage Volume and days storage are based on the volume between Minimum and Maximum Operating Levels.

f. Total Depth is from top of berm to bottom of basin including freeboard.
KNOW ALL MEN BY THESE PRESENTS:

THIS INDENTURE, made on the 8th day of November, 2017, by and between Annette M. Conrad, Trustee of the Annette M. Conrad Trust dated June 22, 1990, of the County of Pike in the State of Missouri, hereinafter referred to as "Grantor/Party of the First Part"; and Village of Eolia, Missouri, a political subdivision of the State of Missouri, of the County of Pike in the State of Missouri, hereinafter referred to as "Grantee/Party of the Second Part". The mailing address of the Grantee is P.O. Box 7, Eolia, MO 63344.

WITNESSETH:

WHEREAS, Annette M. Conrad created a Revocable Living Trust by a Revocable Living Trust document dated June 22, 1990, wherein she was both the Grantor and the Trustee; and

WHEREAS, on March 25, 2016, Annette M. Conrad conveyed to the Trustee of the Annette M. Conrad Trust dated June 22, 1990 the real estate in the County of Pike and State of Missouri, hereinafter described; and

WHEREAS, the said Trust Agreement has not been revoked and is still in existence and is in full force and effect on this day, and under the terms of the said Agreement the undersigned Trustee is authorized to sell, exchange, convey or otherwise dispose of any part of the said trust estate, real and personal, upon such terms and conditions and for such consideration as the Trustee deems to be in the best interest of the trust estate; and,

WHEREAS, the above named Second Party and the said Trustee (First Party) have negotiated and have come to an agreement wherein the Second Party purchase the said real estate from the First Party.

NOW, THEREFORE, for the sum of Ten Dollars and Other Good and Valuable Consideration, the undersigned Trustee, Annette M. Conrad, does hereby GRANT, BARGAIN, SELL, CONVEY AND CONFIRM unto the said Village of Eolia, Missouri, a political subdivision of the State of Missouri the said Party of the Second Part, the following described real estate, lying, being, and situate in the County of Pike, State of Missouri, to wit:

A 40.264 ACRE TRACT OF LAND BEING PART OF TRACT 2, DEED BOOK 331, PAGE 8652 OF THE PIKE COUNTY RECORDS, SITUATED IN PART OF U.S. SURVEY 1708, T. 52N., R. 1 W., PIKE COUNTY, MO. AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING AT AN IRON ROD MARKING THE SOUTHEAST CORNER OF LOT 10 OF THE STONEBRAKER TRACT OF U.S. SURVEY 1708, THENCE S 20° 28' 44" E. 260.00' TO AN IRON ROD, THE BEGINNING POINT OF THE TRACT OF LAND HEREIN DESCRIBED; THENCE N 45° 13' 28" E. 678.42' TO AN IRON ROD, THENCE N 15° 19' 53" W. 410.00', THENCE N 79° 09' 58" E. 806.15' TO AN OLD IRON ROD, THENCE S 10° 50' 02" E. 425.00', THENCE N 79° 09' 58" E. 615.00', THENCE S10° 50' 02" E. 490.26' TO AN IRON ROD, THENCE S 82° 59' 06" W. 1024.44' TO AN IRON ROD, THENCE S 00° 21' 21" E. 270.49' TO AN IRON
ROD, THENCE N 76° 57' 16" W. 117.97 TO AN IRON ROD, THENCE S 01° 02' 27" E. 843.85' TO AN IRON ROD ON THE PIKE-LINCOLN COUNTY LINE, THENCE N 88° 22' 33" W. ALONG SAID COUNTY LINE 468.77' TO AN OLD STONE, THENCE N 20° 28' 44" W. DEPARTING SAID COUNTY LINE 1022.61' TO THE BEGINNING POINT.

ALONG WITH A 30' WIDE ROAD AND UTILITY EASEMENT BEING PART OF U.S. SURVEY 1708, T. 52 N. R. 1 W., PIKE COUNTY, MO., BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS; COMMENCING AT THE NORTHEAST CORNER OF A 6.00 ACRE TRACT CONVEYED TO THE VILLAGE OF EOLIA IN DEED BOOK 322, PAGE 2937, THENCE S 10° 50' 02" W. 15.00', THE BEGINNING POINT OF THE CENTERLINE OF SAID 30' WIDE EASEMENT, THENCE ALONG SAID CENTERLINE THE FOLLOWING: N. 79° 09' 58" E. 835.23', THENCE N. 84° 24' 26" E. 26.91' TO ITS TERMINUS ON THE WEST RIGHT-OF-WAY LINE OF MO ROUTE 'FF'.

SUBJECT TO EASEMENTS, COVENANTS AND RESTRICTIONS OF RECORD.

The said Trustee hereby covenants that she is lawfully seized of an indefeasible estate in fee simple in the premises herein above described; that she has good right to convey the same as Trustee; that the premises are free and clear of any encumbrances done or suffered by her or those under whom she claims; and that she will Warrant and Defend the title to the said premises unto the said Parties of the Second Part, and unto its successors and assigns forever against the lawful claims and demands of all persons whomsoever.

IN WITNESS WHEREOF, the said Trustee has hereunto set her hands, this 22nd day of November, 2017.

Annette M. Conrad Trust dated June 22, 1990

Annette M. Conrad, Trustee

STATE OF MISSOURI

COUNTY OF PIKE

BE IT REMEMBERED, that on the 22nd day of November, 2017, before the undersigned, a Notary Public within the County of Pike and State of Missouri, personally came Annette M. Conrad, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument of writing as party thereto, and acknowledges the same to be her free act and deed as Trustee for the purposes therein mentioned.

-Notary Public

Commission #12513184
Pike County
Notary Seal
State of Missouri
Commission Expires 09-30-2019
Complete this form to register a permit holder for electronic reporting. This form should also be used to identify or change authorized representatives assigned an electronic signature for the department's eDMR system.

**PART A. PERMIT HOLDER INFORMATION**

<table>
<thead>
<tr>
<th>PERMIT NUMBER</th>
<th>FACILITY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO- 0112470</td>
<td>Eolia WWTF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PO Box 7</td>
<td>Eolia</td>
<td>MO</td>
<td>63344</td>
</tr>
</tbody>
</table>

**PERMIT HOLDER ACCOUNT ACTION**

- [ ] New Application
- [ ] Revised Permit Holder or Account Information
- [ ] Request for Reactivation

**PART B. USER ACCOUNT INFORMATION**

<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>First Name</th>
<th>Middle Initial</th>
<th>JOB TITLE</th>
<th>EMPLOYER’S NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haake</td>
<td>John</td>
<td></td>
<td>Wastewater Operator</td>
<td>Village of Eolia</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EMAIL</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:villageofeolia@gmail.com">villageofeolia@gmail.com</a></td>
<td>573-485-7310</td>
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**USER ACCOUNT ACTION**

- [ ] Add
- [ ] Update
- [ ] Delete

**ACCOUNT TYPE**

- [ ] Viewer
- [ ] Preparer
- [ ] Certifier

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<tbody>
<tr>
<td>Zumwalt</td>
<td>Shawnda</td>
<td></td>
<td>Clerk</td>
<td>Village of Eolia</td>
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<tbody>
<tr>
<td>Burbridge</td>
<td>John</td>
<td>Jerry</td>
<td>Chairman, Board of Trustee</td>
<td></td>
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</tbody>
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PART C. PERMIT HOLDER REGISTRATION

I request the above identified permit holder be registered for electronic reporting and request any department initiated minor permit revisions (where no fee is required) that may be necessary to allow use of the department's eDMR system. As the permit holder, I agree the authorized representatives will follow permit requirements and the procedures for the electronic submission of DMR forms, as described in the permit holder participation package.

Please establish or revise the above user accounts in accordance with the information provided for each identified account. The person(s) identified as certifier(s) are hereby designated as the authorized representatives for all reporting purposes. I understand each person to receive a certifier account on the eDMR system must complete Part D and must sign in the presence of a Notary Public.

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.

<table>
<thead>
<tr>
<th>PERMIT HOLDER NAME (TYPE OR PRINT)</th>
<th>PERMIT HOLDER SIGNATURE</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Haake</td>
<td></td>
<td>04-04-18</td>
</tr>
</tbody>
</table>

OFFICIAL TITLE (TYPE OR PRINT)
Wastewater Operator

PART D. CERTIFIER REGISTRATION

The permit holder and certifier intend to have the submission of eDMRs be the functional equivalent of the paper submissions required by a permit issued in accordance with the Missouri Clean Water Law, Chapter 644, RSMo and/or the Clean Water Act, 33 U.S.C. § 1251, et seq. The certifier will use a validly issued PIN as a signature when submitting eDMRs. The permit holder and certifier agree not to contest the validity of eDMRs submitted under an authorized PIN based on the fact such submissions were completed electronically. The permit holder and certifier further agree the provisions of the Uniform Electronic Transactions Act, Sections 432.200 through 432.295, RSMo, shall apply, except as otherwise stated herein or within the permit holder participation package.

The permit holder and certifier agree:

1. Any eDMR submitted under the PIN specific to the certifier shall be considered a "writing" or "in writing," and any such records shall be deemed for all purposes:
   a. To have been "signed" by the certifier.
   b. To constitute an "original" when printed from electronic files or records.

2. Electronic DMRs constitute admissible evidence in any judicial or administrative proceeding.

An electronically submitted DMR will not satisfy a reporting requirement until it has been received and accepted by the department. If an electronically submitted DMR is rejected, the permit holder shall take the necessary steps to properly resubmit such DMR within 24 hours of the notice of rejection.
By signing below, the permit holder and certifier agree with the terms and conditions of Part D.

Certifier (must sign in the presence of Notary)  

[Signature]  
4/21/18

GAIL RUTTER  
Notary Public - State of Missouri  
My Commission Expires June 21, 2020  
Pike County  
Commission #12380372

Date

Notary Public 1*  

[Signature]  
04/02/18

GAIL RUTTER  
Notary Public - State of Missouri  
My Commission Expires June 21, 2020  
Pike County  
Commission #12380372

Date

Permit Holder (must sign in presence of Notary)  

[Signature]  
04/04/18

GAIL RUTTER  
Notary Public - State of Missouri  
My Commission Expires June 21, 2020  
Pike County  
Commission #12380372

Date

Notary Public 2*  

[Signature]  
04/04/18

Notary public 1 is for use if both the permit holder and the certifier both sign in the presence of the same notary; however, if the notary so desires they may sign and stamp both locations. If the certifier and the permit holder do not sign at the same time, then notary 1 is specific to the certifier and notary 2 is specific to the permit holder. In cases when the certifier and the permit holder are not in the same location, the certifier must complete the application to the best of their ability (including signature and notary public 1) and send the document to the permit holder to be completed (including signature and notary public 2).