STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



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-0132349
Owner:	Josiah Cox
Address:	1630 Des Peres Rd. Suite 140, Des Peres, MO 63131
Continuing Authority:	Confluence Rivers Utility Operating Company, Inc.
Address:	1630 Des Peres Rd. Suite 140, Des Peres, MO 63131
Facility Name:	Stone Ridge Meadows Subdivision Wastewater Treatment Facility
Facility Address:	118 Stone Ridge Meadows Drive, St. Paul, MO 63366
Legal Description:	Sec. 7, T47N, R03W, St. Charles County
UTM Coordinates:	X = 697570, Y = 4302098
Receiving Stream:	Tributary to Peruque Creek
First Classified Stream and ID:	Peruque Creek (P) (0216)
USGS Basin & Sub-watershed No.:	(07110009-0102)

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

FACILITY DESCRIPTION

 Outfall #001
 -Non-POTW

 Flow equalization / bar screen / extended aeration / clarifier / chlorination / dechlorination / aerated sludge holding / sludge disposal by contract hauler.

 Design population equivalent is 100.

 Design flow is 10,000 gallons per day.

 Actual flow is 3,160 gallons per day.

 Design sludge production is 1.8 dry tons/year.

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

October 1, 2020 Effective Date June 1, 2023 Modification Date

June 30, 2025 Expiration Date

oke, Duector, Water Protection Program

OUTFALL <u>#001</u>

TABLE A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall number(s) as specified in the application for this permit. The final effluent limitations in **Table A** shall become effective on <u>October 1, 2020</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL EFF	LUENT LIM	ITATIONS	MONITORING RE	QUIREMENTS
EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Limit Set: Q	•	•		·		
Flow	MGD	*		*	once/quarter****	24-hr. estimate
Biochemical Oxygen Demand ₅	mg/L		45	30	once/quarter****	composite**
Total Suspended Solids	mg/L		45	30	once/quarter****	composite**
E. coli (Note 1, Page 3)	#/100mL	1,030		206	once/quarter****	grab
Ammonia as N (Jan 1 – Mar 31) (Apr 1 – Jun 30) (Jul 1 – Sep 30) (Oct 1 – Dec 31)	mg/L	10.1 12.1 12.1 12.1		2.7 1.8 1.3 3.1	once/quarter****	composite**
Total Residual Chlorine (Note 2, Page 3)	μg/L	< 130		< 130	once/quarter****	grab
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units***	SU	6.5		9.0	once/quarter****	grab
EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Dissolved Oxygen (Note 2, Page 3)	mg/L	*		*	once/quarter****	grab
MONITORING REPORTS SHALL BE SUBMI BE NO DISCHARGE OF FLOATING SOLIDS						HERE SHALL

* Monitoring requirement only.

** A composite sample made up from a minimum of four grab samples collected within a 24 hour period with a minimum of two hours between each grab sample.

*** pH is measured in pH units and is not to be averaged.

**** See table below for quarterly sampling.

Quarterly Minimum Sampling Requirements								
Quarter	Months	<i>E. coli</i> , Total Residual Chlorine (TRC), and Dissolved Oxygen	All Other Parameters	Report is Due				
First	January, February, March	Not required to sample.	Sample at least once during any month of the quarter	April 28 th				
Second	April, May, June	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	July 28 th				
Third	July, August, September	Sample at least once during any month of the quarter	Sample at least once during any month of the quarter	October 28 th				
October Sample once du		Sample once during <u>October</u>	Sample at least once during	Jonuary 28th				
rourui	November & December	Not required to sample.	any month of the quarter	January 28 th				

Note 1 – Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean.

Note 2 – This permit contains a Total Residual Chlorine (TRC) limit.

- (a) The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be **18 \mug/L** (daily maximum limit) and **9 \mug/L** (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 μ g/L when using the DPD Colorimetric Method #4500 CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 μ g/L will be considered violations of the permit and values less than the minimum quantification level of 130 μ g/L will be considered to be in compliance with the permit limitation.
- (b) Disinfection is required during the recreational season from April 1 through October 31. <u>Do not chlorinate</u> during the non-recreational months and an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary.
- (c) Do not chemically de-chlorinate if it is not needed to meet the limits in your permit.
- (d) If no chlorine was used in a given sampling period, an actual analysis for TRC and Dissolved Oxygen (DO) is not necessary. Simply report as "AG Conditional Monitoring Not Required This Period" for TRC and DO in the eDMR system.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached <u>Parts I & III</u> standard conditions dated <u>August 1, 2014 and August 1, 2019</u>, and hereby incorporated as though fully set forth herein.

C. SPECIAL CONDITIONS

- 1. <u>Electronic Discharge Monitoring Report (eDMR) Submission System</u> 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.
 - (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 <u>https://dnr.mo.gov/mogem</u>. Information about the eDMR system can be found at <u>https://dnr.mo.gov/env/wpp/edmr.htm</u>. 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: <u>https://apps5.mo.gov/mogems/welcome.action</u>. If you experience difficulties with using the eDMR system you may contact <u>edmr@dnr.mo.gov</u> 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. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days.
- 2. 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.

C. SPECIAL CONDITIONS (continued)

- 3. All outfalls must be clearly marked in the field.
- 4. Report as no-discharge when a discharge does not occur during the report period.
- 5. 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 a parameter is not detected above ML, the permittee must report the data qualifier signifying less than ML for that parameter (e.g., $< 50 \mu g/L$, if the ML for the parameter is $50 \mu g/L$). For reporting an average based on a mix of values detected and not detected, assign a value of "0" for all non-detects for that reporting period and report the average of all the results.
- 6. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 7. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3), and with Standard Condition Part I, Section B, subsection 2. Bypasses are to be reported to the St. Louis Regional Office during normal business hours or by using the online Sanitary Sewer Overflow/Facility Bypass Application located at: <u>https://dnr.mo.gov/mogem/</u> or the Environmental Emergency Response spill-line at 573-634-2436 outside of normal business hours. Once an electronic reporting system compliant with 40 CFR Part 127, the National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, is available all bypasses must be reported electronically via the new system. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
- 8. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 9. An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
- 10. An all-weather access road to the treatment facility shall be maintained.
- 11. The outfall sewer shall be protected and maintained against the effects of floodwater, ice, or other hazards as to reasonably insure its structural stability, freedom from stoppage, and that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
- 12. The permit holder shall maintain the discharges from this facility such that the annual average flow does not exceed the "Adjusted Design Flow" indicated on the front page of this permit. An annual average flow in excess of the adjusted design flow is a permit violation. The annual average flow shall be determined by multiplying the daily average water usage from the previous year by 1.15. The resulting annual average flow for each year shall be submitted to the Department upon permit renewal for reevaluation of the Adjusted Design Flow.

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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-0132349 STONE RIDGE MEADOWS WASTEWATER TREATMENT FACILITY

This Statement of Basis (Statement) gives pertinent information regarding minor modification(s) to the above listed operating permit without the need for a public comment process. A Statement is not an enforceable part of a Missouri State Operating Permit.

Part I – Facility Information

Facility Type:Non-POTWFacility Description:Flow equalization / extended aeration / aerated sludge holding tank / chlorination / dechlorination / sludgedisposal by contract hauler

Part II – Modification Rationale

This operating permit is hereby modified to reflect a change in ownership from Stone Ridge Meadows HOA to Josiah Cox and continuing authority from Stone Ridge Meadows HOA to Confluence Rivers Utility Operating Company, Inc.

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.

DATE OF FACT SHEET: MAY 01, 2023

COMPLETED BY:

ABIGAIL DAY, ENVIRONMENTAL PROGRAM ASSISTANT MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT (573) 751-7326 abigail.day@dnr.mo.gov

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0132349 STONE RIDGE MEADOWS WASTEWATER TREATMENT FACILITY

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 facility.

Part I – Facility Information

Facility Type: Non-POTW

<u>Facility Description</u>: Flow equalization / bar screen / extended aeration / clarifier / chlorination / dechlorination / aerated sludge holding / sludge disposal by contract hauler.

Have any changes occurred at this facility or in the receiving water body that affects effluent limit derivation?

✓ No.

Application Date:04/09/20Expiration Date:08/31/17

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
#001	0.0155	Secondary	Domestic

Facility Performance History:

This facility was last inspected on May 27, 2015. The conditions of the facility at the time of inspection were found to be satisfactory.

DMR exceedances in the previous 5 years are as follows: *E. coli*: November 2016, August 2018 Ammonia as N: February and August 2016, February 2018, February 2020

Comments:

Changes in this permit for Outfall #001 include the addition of Dissolved Oxygen monitoring, as this facility uses dechlorination chemicals, the revision of Ammonia as N effluent limitations, and the reduction of sampling frequency for flow from weekly to quarterly as this facility's flow has low variability. See Part VI of the Fact Sheet for further information regarding the addition, revision, and removal of effluent parameters. In addition, this facility has been approved for an adjusted design flow of 4,999 gpd.

Part II – Operator Certification Requirements

 \checkmark This facility is not required to have a certified operator.

Part III – Operational Control Testing Requirements

Missouri Clean Water Commission regulation 10 CSR 20-9.010 requires certain publicly 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 publicly 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's judgement of monitoring needs for process control at the specified facility.

 \checkmark As per [10 CSR 20-9.010(4))], the facility is not required to conduct operational monitoring.

Part IV – Receiving Stream Information

RECEIVING STREAM(S) TABLE: OUTFALL #001

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
Tributary to Peruque Creek			General Criteria	07110000 0102	0.0
Peruque Creek	Р	0213	AQL, WBC-B, SCR, HHP, IRR, LWW	07110090-0102	0.72

*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)].

Uses found in the receiving streams table, above:

10 CSR 20-7.031(1)(C)1.:

AQL = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: WWH = Warm Water Habitat; CDF = Cold-water fishery (Current narrative use is cold-water habitat.); CLF = Cool-water fishery (Current narrative use is cool-water habitat.); EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

- 10 CSR 20-7.031(1)(C)2.: Recreation in and on the water
 - WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A = Whole body contact recreation that supports swimming uses and has public access;

WBC-B = Whole body contact recreation that supports swimming;

SCR = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

HHP (formerly HHF) = Human Health Protection as it relates to the consumption of fish;

IRR = Irrigation for use on crops utilized for human or livestock consumption;

LWW = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection); **DWS** = Drinking Water Supply;

IND = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

WSA = Storm- and flood-water storage and attenuation; WHP = Habitat for resident and migratory wildlife species; WRC = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): **GRW** = Groundwater

RECEIVING STREAM(S) LOW-FLOW VALUES:

DECENTING STREAM	LOW-FLOW VALUES (CFS)					
RECEIVING STREAM	1Q10	7Q10	30Q10			
Tributary to Peruque Creek	0	0	0			

MIXING CONSIDERATIONS

Mixing Zone: Not Allowed [10 CSR 20-7.031(5)(A)4.B.(I)(a)]. Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(5)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Receiving Water Body's Water Quality

The Department conducted a stream survey on August 12, 2011 at one location near this facility: in Tributary to Peruque Creek approximately 150 yards downstream from Outfall #001. No use designations of the receiving stream were impaired.

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

ADJUSTED DESIGN FLOW:

 $10 \text{ CSR } 20-6.011(1)(B)1 \text{ provides for an Adjusted Design Flow when calculating permit fees for wastewater treatment facilities. If the average flow is sixty percent (60%) or less than the system's design flow, the average flow may be substituted for the design flow when calculating the annual operating fee.$

If the facility's actual average flow is consistently 60 percent or less than the permitted design flow, the facility may qualify for a reduction in your fee when:

- The facility has a valid permit, or has applied for re-issuance, is in compliance with the terms, conditions and effluent limitations of the permit, and the facility has a good compliance history; and
- Flow is not expected to exceed 60% of design flow for the remaining term of the existing operating permit.
- ✓ Based on the facility's compliance status and/or the information provided, the facility is approved for an Adjusted Design Flow.

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(1)] 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.
 - ✓ Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.
 - <u>Ammonia as N</u>. Effluent limitations were re-calculated for Ammonia. The Department previously followed the 2007 Ammonia Guidance method for derivation of ammonia limits. However, the EPA's Technical Support Document for Water Quality-based Toxic Controls (TSD) establishes other alternatives to limit derivation. The Department has determined that the approach established in Section 5.4.2 of the TSD, which allows for direct application of both the acute and chronic wasteload allocations (WLA) as permit limits for toxic pollutants, is more appropriate limit derivation approach. Using this method for a discharge to a waterbody where mixing is not allowed, the criterion continuous concentration (CCC) and the criterion maximum concentration (CMC) will equal the chronic and acute WLA respectively. The WLAs are then applied as effluent limits, per Section 5.4.2 of the TSD, where the CMC is the Daily Maximum and the CCC is the Monthly Average. The direct application of both acute and chronic criteria as WLA is also

applicable for facilities that discharge into receiving waterbodies with mixing considerations. The CCC and CMC will need to be calculated into WLA with mixing considerations using the mass-balance equation. The newly established limitations are still protective of water quality.

- <u>Flow</u>. The previous permit contained weekly sampling and reporting frequencies. This permit contains quarterly sampling and reporting frequencies due to the low design flow of the facility, consistency amongst effluent data, and compliance with effluent limits. The permit is still protective of water quality.
- ✓ Information related to revised Water Quality Standards is available which was not available at the time of permit issuance.
 - <u>Total Residual Chlorine (TRC).</u> Changes to Missouri's Water Quality Standards [10 CSR 20-7.031] were published in the Missouri Code of State Regulations on March 31, 2018. The EPA recently submitted a partial approval letter dated December 26, 2019, approving the change for chronic criterion for TRC from 10 µg/L to 11 µg/L for Warmwater Aquatic Habitats. This permit's TRC limit derivation reflects this change, and the permitted effluent limitations are protective of the newly revised Water Quality Standards.
- ✓ The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
 - <u>General Criteria</u>. 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 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)], for domestic wastewater discharge with new, altered, or expanding discharges, the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm

 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, when a higher level authority is available, must submit information to the Department for review and approval, provided it 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 removed by contract hauler.

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 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 optional and found on the Department's website at the following locations:

Operational Monitoring Lagoon: <u>http://dnr.mo.gov/forms/780-2801-f.pdf</u> Operational Monitoring Mechanical: <u>http://dnr.mo.gov/forms/780-2800-f.pdf</u> I&I Report: <u>http://dnr.mo.gov/forms/780-2690-f.pdf</u>

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: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. Each facility must make a request. If a single entity owns or operates more than one facility, 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 not currently using the eDMR data reporting system. The permittee is required to register with the Department's eDMR system through MoGEM before the first report is due.

NUMERIC LAKE NUTRIENT CRITERIA

✓ This facility does not discharge into a lake watershed where numeric lake nutrient criteria are applicable.

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)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

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

REASONABLE POTENTIAL ANALYSIS (RPA):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(1)(iii)] if the permit writer determines that any given pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

✓ An RPA was conducted on appropriate parameters. Please see APPENDIX – RPA RESULTS.

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 Publicly Owned Treatment Works (POTWs)/municipals.

✓ Influent monitoring is not being required to determine percent removal.

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.

This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

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 may include interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1), 10 CSR 20-7.031(11), and 10 CSR 20-7.015(9), 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 requirements, 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 limits. 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 an 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.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in June 2015], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of stormwater discharges. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs that are reasonable and cost effective. The AA evaluation should include practices that are designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why "no discharge" or "no exposure" is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), Section II.B.

If parameter-specific numeric exceedances continue to occur and the permittee feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the permittee can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the Department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification; the application is found at: http://dnr.mo.gov/forms/index.html.

 \checkmark At this time, the permittee is not required to develop and implement a SWPPP.

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.

 \checkmark This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(86)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

✓ Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$Ce = \frac{(Qe + Qs)C - (Qs \times Cs)}{(Qe)}$$
 (EPA/505/2-90-001, Section 4.5.5)

Where	C = downstream concentration	Ce = effluent concentration
	Cs = upstream concentration	Qe = effluent flow
	Qs = upstream flow	

Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

Number of Samples "n":

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

✓ A WLA study was either not submitted or determined not applicable by Department staff.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A) and the Water Quality Standards 10 CSR 20-7.031(4)(D),(F),(G),(J)2.A & B are being met. Under [10 CSR 20-6.010(8)(B)], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§§644.051.3 requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc...); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by facilities meeting the following criteria:

- Facility is a designated Major.
- Facility continuously or routinely exceeds its design flow.
- Facility that exceeds its design population equivalent (PE) for BOD₅ whether or not its design flow is being exceeded.
- Facility (whether primarily domestic or industrial) that alters its production process throughout the year.
- Facility handles large quantities of toxic substances, or substances that are toxic in large amounts.
- Facility has Water Quality-based Effluent Limitations for toxic substances (other than NH₃)
- Facility is a municipality with a Design Flow \geq 22,500 gpd.
- Other please justify.
- ✓ At this time, the permittee is not required to conduct WET test for this facility.

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.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

- This facility discharges to a 303(d) listed stream. Peruque Creek (0216) was listed on the 2014 303(d) list for an unknown pollutant.
 - It is unknown at this time if the facility is a source of the above listed pollutant(s) or considered to contribute to the impairment of Peruque Creek. In addition, this pollutant is no longer listed on the 2018 303(d) list.
- ✓ This facility discharges to a stream with an EPA approved TMDL. This facility is located within the Mississippi River Watershed. The discharge from this facility flows directly to the Mississippi River (P) (3700). The Mississippi River (P) (3700) has a TMDL for 490 miles for chlordane and Polychlorinated Biphenyls (PCBs) in fish tissue. Section 5.2 of the TMDL states treated domestic discharge is not considered to cause or contribute to the impairment of the waterbodies addressed by the TMDL, as chlordane and PCBs were banned in 1988 and 1977, respectively. Thus, the WLA for domestic facilities remains unchanged

Part VI – Effluent Limits Determination

OUTFALL #001 – MAIN FACILITY OUTFALL

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

EFFLUENT LIMITATIONS TABLE:

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
Flow	MGD	1	*		*	*/*	1/quarter	quarterly	Е
BOD ₅	mg/L	1		45	30	45/30	1/quarter	quarterly	C
TSS	mg/L	1		45	30	45/30	1/quarter	quarterly	C
Escherichia coli**	#/100mL	1, 3	1,030		206	1,030/206	1/quarter	quarterly	G
Ammonia as N (Jan 1 – Mar 31) (Apr 1 – Jun 30) (Jul 1 – Sep 30) (Oct 1 – Dec 31)	mg/L	2, 3	10.1 12.1 12.1 12.1		2.7 1.8 1.3 3.1	Apr – Sep: 5.6/1.2 Oct - Mar: 12.1/2.5	1/quarter	quarterly	С
Chlorine, Total Residual	μg/L	1, 3	< 130		< 130	<130/<130	1/quarter	quarterly	G
PARAMETER	Unit	Basis for Limits	Minimum		Maximum	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
рН	SU	1	6.5		9.0	6.5-9.0	1/quarter	quarterly	G
PARAMETER	Unit	Basis for Limits	Daily Minimum		Monthly Avg. Min	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
Dissolved Oxygen (DO)	mg/L	3, 7	*		*	***	1/quarter	quarterly	G
* - Monitoring requirem	ent only.					**** - E =	24-hr. estimate	9	

** - #/100mL; the Monthly Average for E. coli is a geometric mean.

*** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

- State or Federal Regulation/Law 1.
- 2. Water Quality Standard (includes RPA)
- Water Quality Based Effluent Limits 3.
- 4 Antidegradation Review

- 5. Antidegradation Policy
- Water Quality Model 6.
- 7. Best Professional Judgment

TMDL or Permit in lieu of TMDL

9 WET Test Policy Multiple Discharger Variance 10.

G = Grab

11. Nutrient Criteria Implementation Plan

C = 24-hour composite

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- Flow. In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD**₅). Operating permit retains 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average from the previous permit. Effluent limits were established in accordance with 10 CSR 20-7.015(8) for discharges to All Other Waters.
- Total Suspended Solids (TSS). Operating permit retains 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average from the previous permit. Effluent limits were established in accordance with 10 CSR 20-7.015(8) for discharges to All Other Waters.
- Escherichia coli (E. coli). Monthly average of 206 per 100 mL as a geometric mean and Daily Maximum of 1,030 per 100 mL as a geometric mean during the recreational season (April 1 – October 31), for discharges within two miles upstream of segments or lakes with Whole Body Contact Recreation (B) designated use of the receiving stream, as per 10 CSR 20-7.015(9)(B). An effluent limit for both monthly average and daily maximum is required by 40 CFR 122.45(d). The Geometric Mean is calculated by multiplying all of the data points and then taking the nth root of this product, where n = # of samples collected. For example: Five E. coli samples were collected with results of 1, 4, 6, 10, and 5 (#/100mL). Geometric Mean = 5^{th} root of (1)(4)(6)(10)(5) = 5^{th} root of 1,200 = 4.1#/100mL.

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<u>Total Ammonia Nitrogen</u>. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L. No mixing considerations allowed; therefore, WLA = appropriate criterion.

The Department previously followed the 2007 Ammonia Guidance method for derivation of ammonia limits. However, the EPA's Technical Support Document for Water Quality-based Toxic Controls (TSD) establishes other alternatives to limit derivation. The Department has determined that the approach established in Section 5.4.2 of the TSD, which allows for direct application of both the acute and chronic wasteload allocations (WLA) as permit limits for toxic pollutants, is more appropriate limit derivation approach. Using this method for a discharge to a waterbody where mixing is not allowed, the criterion continuous concentration (CCC) and the criterion maximum concentration (CMC) will equal the chronic and acute WLA respectively. The WLAs are then applied as effluent limits, per Section 5.4.2 of the TSD, where the CMC is the Daily Maximum and the CCC is the Monthly Average. The direct application of both acute and chronic criteria as WLA is also applicable for facilities that discharge into receiving waterbodies with mixing considerations. The CCC and CMC will need to be calculated into WLA with mixing considerations using the mass-balance equation:

 $Ce = \frac{(Qe + Qs)C - (Qs \times Cs)}{(Qe)}$

Where C = downstream concentration Cs = upstream concentration Qs = upstream flow Ce = effluent concentration Qe = effluent flow

In the event that mixing considerations derive an AML less stringent than the MDL, the AML and MDL will be equal and based on the MDL.

Quarter	Temp (°C)*	pH (SU)*	Total Ammonia Nitrogen CCC (mg/L)	Total Ammonia Nitrogen CMC (mg/L)
1 st	6.9	7.8	2.7	10.1
2 nd	23.5	7.8	1.8	12.1
3 rd	27.8	7.8	1.3	12.1
4 th	14	7.8	3.1	12.1

* Ecoregion Data (Central Irregular Plains)

1st Quarter

Chronic WLA: $C_e = ((0.0155 + 0.0)2.7 - (0.0 * 0.01))/0.0155 = 2.7 \text{ mg/L}$

Acute WLA: $C_e = ((0.0155 + 0.0)10.1 - (0.0 * 0.01))/0.0155 = 12.1 \text{ mg/L}$

Chronic WLA = AML = 2.7 mg/LAcute WLA = MDL = 10.1 mg/L

3rd Quarter

Chronic WLA: $C_e = ((0.0155 + 0.0)1.3 - (0.0 * 0.01))/0.0155 = 1.3 \text{ mg/L}$

Acute WLA: $C_e = ((0.0155 + 0.0)12.1 - (0.0 * 0.01))/0.0155 = 12.1 \text{ mg/L}$

Chronic WLA = AML = 1.3 mg/LAcute WLA = MDL = 12.1 mg/L $\frac{2^{nd} \text{ Quarter}}{\text{Chronic WLA:}}$ $C_e = ((0.0155 + 0.0)1.8 - (0.0 * 0.01))/0.0155 = 1.8 \text{ mg/L}$

Acute WLA: $C_e = ((0.0155 + 0.0)12.1 - (0.0 * 0.01))/0.0155 = 12.1 \text{ mg/L}$

Chronic WLA = AML = **1.8** mg/L Acute WLA = MDL = **12.1** mg/L

4th Quarter

Chronic WLA: $C_e = ((0.0155 + 0.0)3.1 - (0.0 * 0.01))/0.0155 = 3.1 \text{ mg/L}$

Acute WLA: $C_e = ((0.0155 + 0.0)12.1 - (0.0 * 0.01))/0.0155 = 12.1 \text{ mg/L}$

Chronic WLA = AML = 3.1 mg/LAcute WLA = MDL = 12.1 mg/L

• <u>Total Residual Chlorine (TRC)</u>. Warm-water Protection of Aquatic Life CCC = $11 \mu g/L$, CMC = $19 \mu g/L$ [10 CSR 20-7.031, Table A]. Background TRC = $0.0 \mu g/L$.

Chronic WLA: $C_e = ((0.0155 + 0.0)11 - (0.0 * 0.0))/0.0155$ $C_e = 10 \ \mu g/L$

Acute WLA: $C_e = ((0.0155 + 0.0)19 - (0.0 * 0.0))/0.0155$ $C_e = 19 \ \mu g/L$

$LTA_c = 11 (0.527) = 5.8 \ \mu g/L$	$[CV = 0.6, 99^{th} Percentile]$
$LTA_a = 19 (0.321) = 6.1 \mu g/L$	$[CV = 0.6, 99^{th} Percentile]$

Use most protective number of LTA_c or LTA_a.

$MDL = 5.8 (3.11) = 18 \ \mu g/L$	$[CV = 0.6, 99^{th} Percentile]$
$AML = 5.8 (1.55) = 9 \ \mu g/L$	$[CV = 0.6, 95^{th} Percentile, n = 4]$

The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be $18 \mu g/L$ (daily maximum limit) and $9 \mu g/L$ (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 $\mu g/L$ when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 130 $\mu g/L$ will be considered violations of the permit and values less than the minimum quantification level of 130 $\mu g/L$ will be considered to be in compliance with the permit limitation.

- <u>pH</u>. 6.5-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are not protective of the in-stream Water Quality Standard, which states that water contaminants shall not cause pH to be outside the range of 6.5-9.0 SU.
- <u>Dissolved Oxygen</u>. This facility utilizes dechlorination chemicals in order to reduce the amount of total residual chlorine that is discharged in the effluent. Dechlorination chemicals are known to exhibit an oxygen demand on the effluent and if not properly managed the effects on the effluent DO concentrations can be significant. Currently, there is no monitoring data related to the dissolved oxygen concentration in the discharge or to the condition of the receiving stream's dissolved oxygen. Therefore reasonable potential to cause or contribute to an excursion of either the general or specific criteria may exist based upon the permittee's application for discharge. Monitoring only requirements have been included in this permit in order to determine if a future effluent limitation is necessary to protect water quality.

Sampling Frequency Justification: The Department has determined that previously established sampling and reporting frequency is sufficient to characterize the facility's effluent and be protective of water quality, other than for flow. This facility's flow tends to be invariable, and thus the reporting frequency has been reduced from weekly to quarterly. Sampling for *E. coli* is set at quarterly per 10 CSR 20-7.015(9)(D)7.C.

<u>Sampling Type Justification</u>: As per 10 CSR 20-7.015, samples collected for mechanical plants shall be a 24 hour modified composite sample. Grab samples, however, must be collected for pH, *E. coli*, TRC, and Dissolved Oxygen in accordance with recommended analytical methods. For further information on sampling and testing methods please review 10 CSR 20-7.015(9)(D) 2.

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. The discharge from this facility is made up of treated domestic wastewater. Based upon review of the Report of Compliance Inspection for the inspection conducted on May 27, 2015, 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, this facility utilizes secondary treatment technology and is currently in compliance with secondary treatment technology based effluent limits established in 40 CFR 133 and there has been no indication to the Department that the stream has had issues maintaining beneficial uses as a result of this discharge. Based on the information reviewed during the drafting of this permit, these final effluent limitations appear to have protected against the excursion of this criterion in the past. Therefore, the discharge does not have the reasonable potential to cause or contribute to an excursion of this criterion.

- (B) <u>Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses</u>. 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. This permit contains final effluent limitations which are protective of both acute and chronic toxicity for various pollutants that are either expected to be discharged by domestic wastewater facilities or that were disclosed by this facility on the application for permit coverage. Based on the information reviewed during the drafting of this permit, it has been determined if the facility meets final effluent limitations established in this permit, there is no reasonable potential for the discharge to cause an excursion of this criterion.
- (E) <u>Waters shall provide for the attainment and maintenance of water quality standards downstream including waters of another state</u>. Please see (D) above as justification is the same.
- (F) <u>There shall be no significant human health hazard from incidental contact with the water</u>. Please see (D) above as justification is the same.
- (G) There shall be no acute toxicity to livestock or wildlife watering. Please see (D) above as justification is the same.
- (H) <u>Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community</u>. Please see (A) above as justification is the same.
- (I) 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 not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publicly-owned treatment works.

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 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.

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 July 24, 2020 to August 24, 2020. No comments were received, however Ammonia as N effluent limitations were updated to reflect revised eco-regional data.

DATE OF FACT SHEET: MAY 6, 2020

COMPLETED BY:

JESSICA VITALE, ENVIRONMENTAL SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT (573) 522-2575 Jessica.Vitale@dnr.mo.gov

Appendices

APPENDIX – RPA RESULTS:

Parameter	CMC*	RWC Acute*	CCC*	RWC Chronic*	n**	Range max/min	CV***	MF	RP Yes/No
Total Ammonia as Nitrogen (Summer) mg/L	12.1	12.1	57.00	1.3	57.00	10.00	19/0.3	2.68	3.00
Total Ammonia as Nitrogen (Winter) mg/L	12.1	10.1	101.12	2.7	101.12	9.00	31.6/0.3	0.60	3.20

N/A - Not Applicable

* - Units are $(\mu g/L)$ unless otherwise noted.

** - If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent. If the number of samples is < 10, then the default CV value must be used in the WQBEL for the applicable constituent.

*** - Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set.

RWC – Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).

n-Is the number of samples.

MF - Multiplying Factor. 99% Confidence Level and 99% Probability Basis.

RP – Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.



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, or 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.
- Test Procedures. The analytical and sampling methods used shall conform 4. 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 (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.

- 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); or
 - 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.

2. Non-compliance Reporting.

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 reoccurrence of the noncompliance.



- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
- c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
- 3. Anticipated Noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
- 4. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
- 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
- 6. **Other Information**. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

7. Discharge Monitoring Reports.

- a. Monitoring results shall be reported at the intervals specified in the permit.
- b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
- c. Monitoring results shall be reported to the Department no later than the 28^{th} day of the month following the end of the reporting period.

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).
 iv. The permittee complied with any remedial measures required under
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- 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 section 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)(iii) 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.
- It is unlawful for any person to cause or permit any discharge of water d. 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, 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:
 - 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.

- 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 noncompliance 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 III – BIOSOLIDS AND SLUDGE FROM DOMESTIC TREATMENT FACILITIES

SECTION A - GENERAL REQUIREMENTS

- PART III Standard Conditions pertain to biosolids and sludge requirements under the Missouri Clean Water Law and regulations for domestic and municipal wastewater and also incorporates federal sludge disposal requirements under 40 CFR Part 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR Part 503 for domestic biosolids and sludge.
- 2. PART III Standard Conditions apply only to biosolids and sludge generated at domestic wastewater treatment facilities, including public owned treatment works (POTW) and privately owned facilities.
- 3. Biosolids and Sludge Use and Disposal Practices:
 - a. The permittee is authorized to operate the biosolids and sludge generating, treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. The permittee shall not exceed the design sludge/biosolids volume listed in the facility description and shall not use biosolids or sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. For facilities operating under general operating permits that incorporate Standard Conditions PART III, the facility is authorized to operate the biosolids and sludge generating, treatment, storage, use and disposal facilities identified in the original operating permit application, subsequent renewal applications or subsequent written approval by the department.
- 4. Biosolids or Sludge Received from other Facilities:
 - a. Permittees may accept domestic wastewater biosolids or sludge from other facilities as long as the permittee's design sludge capacity is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the biosolids or sludge generator or hauler that certifies the type and source of the sludge
- 5. Nothing in this permit precludes the initiation of legal action under local laws, except to the extent local laws are preempted by state law.
- 6. This permit does not preclude the enforcement of other applicable environmental regulations such as odor emissions under the Missouri Air Pollution Control Lawand regulations.
- This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable biosolids or sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RSMo.
- 8. In addition to Standard Conditions PARTIII, the Department may include biosolids and sludge limitations in the special conditions portion or other sections of a site specific permit.
- 9. Exceptions to Standard Conditions PARTIII may be authorized on a case-by-case basis by the Department, as follows:
 - a. The Department may modify a site-specific permit following permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR § 124.10, and 40 CFR § 501.15(a)(2)(ix)(E).
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR Part 503.

SECTION B - DEFINITIONS

- 1. Best Management Practices are practices to prevent or reduce the pollution of waters of the state and include agronomic loading rates (nitrogen based), soil conservation practices, spill prevention and maintenance procedures 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, feed or fiber. The facility includes any structures necessary to store the biosolids untilsoil, 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 Part 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 (PSRP) in accordance with 40 CFR Part 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. Feed crops are crops produced primarily for consumption by animals.
- 8. Fiber crops are crops such as flax and cotton.
- 9. Food crops are crops consumed by humans which include, but is not limted to, fruits, vegetables and tobacco.
- 10. Industrial wastewater means any wastewater, also known as process wastewater, not defined as domestic wastewater. Per 40 CFR Part 122.2, process wastewater 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. Land application of industrial wastewater, residuals or sludge is not authorized by Standard Conditions PART III.
- 11. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological contact systems, and other similar facilities. It does not include wastewater treatment lagoons or constructed wetlands for wastewater treatment.
- 12. Plant Available Nitrogen (PAN) is nitrogen that will be available to plants during the growing seasons after biosolids application.
- 13. 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.
- 14. 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), sewage sludge incinerator ash, or grit/screenings generated during preliminary treatment of domestic sewage.
- 15. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen or concrete lined 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.
- 16. Septage is the sludge pumped from residential septic tanks, cesspools, portable toilets, Type III marine sanitation devices, or similar treatment works such as sludge holding structures from residential wastewater treatment facilities with design populations of less than 150 people. Septage does not include grease removed from grease traps at a restaurant or material removed from septic tanks and other similar treatment works that have received industrial wastewater. The standard for biosolids from septage is different from other sludges. See Section H for more information.

SECTION C-MECHANICAL WASTEWATER TREATMENT FACILITIES

- 1. Biosolids or sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and the requirements of Standard Conditions PART III or in accordance with Section A.3.c., above.
- The permittee shall operate storage and treatment facilities, as defined by Section 644.016(23), RSMo, so that there is no biosolids or sludge discharged to waters of the state. Agricultural storm water discharges are exempt under the provisions of Section 644.059, RSMo.
- 3. Mechanical treatment plants shall have separate biosolids or sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove biosolids or sludge from these storage compartments on the required design schedule is a violation of this permit.

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

- 1. Permittees that use contract haulers, under the authority of their operating permit, to dispose of biosolids or sludge, are responsible for compliance with all the terms of this permit. Contract haulers that assume the responsibility of the final disposal of biosolids or sludge, including biosolids land application, must obtain a Missouri State Operating Permit unless the hauler transports the biosolids or sludge to another permitted treatment facility.
- 2. Testing of biosolids or sludge, other than total solids content, is not required if biosolids or sludge are hauled to a permitted wastewater treatment facility, unless it is required by the accepting facility.

SECTION E- INCINERATION OF SLUDGE

- Please be aware that sludge incineration facilities may be subject to the requirements of 40 CFR Part 503 Subpart E, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 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, mass of sludge incinerated and mass of ash generated. Permittee shall also provide the name of the ash disposal facility and permit number if applicable.

$Section\,F-Surface\,Disposal\,Sites\,\text{and}\,Biosolids\,\text{and}\,Sludge\,Lagoons$

- Please be aware that surface disposal sites of biosolids or sludge from wastewater treatment facilities may be subject to other laws including the requirements in 40 CFR Part 503 Subpart C, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 2. Biosolids or 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 biosolids or sludge storage lagoons as storage facilities, accumulated biosolids or 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 biosolids or sludge removed will be dependent on biosolids or sludge generation and accumulation in the facility. Enough biosolids or 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 biosolids or sludge on the bottom of the lagoon, upon prior approval of the Department; or
 - b. Permittee shall close the lagoon in accordance with Section I.

SECTION G - LAND APPLICATION OF BIOSOLIDS

- 1. The permittee shall not land apply biosolids unless land application is authorized in the facility description, the special conditions of the issued NPDES permit, or in accordance with Section A.3.c., above.
- 2. This permit only authorizes "Class A" or "Class B" biosolids derived from domestic wastewater 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.
- 3. Class A Biosolids Requirements: Biosolids shall meet Class A requirements for application to public contact sites, residential lawns, home gardens or sold and/or given away in a bag or other container.
- 4. Class B biosolids that are land applied to agricultural and public contact sites shall comply with the following restrictions:
 - a. Food crops that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
 - b. Food crops below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for four months or longer prior to incorporation into the soil.
 - c. Food crops below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than four months prior to incorporation into the soil.
 - d. Animal grazing shall not be allowed for 30 days after application of biosolids.
 - e. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Turf shall not be harvested for one year after application of biosolids if used for lawns or high public contact sites in close proximity to populated areas such as city parks or golf courses.
 - g. After Class B biosolids have been land applied to public contact sites with high potential for public exposure, as defined in 40 CFR § 503.31, such as city parks or golf courses, access must be restricted for 12 months.
 - h. After Class B biosolids have been land applied public contact sites with low potential for public exposure as defined in 40 CFR § 503.31, such as a rural land application or reclamation sites, access must be restricted for 30 days.
- 5. Pollutant limits
 - a. Biosolids shall be monitored to determine the quality for regulated pollutants listed in Table 1, below. Limits for any pollutants not listed below may be established in the permit.
 - b. The number of samples taken is directly related to the amount of biosolids or sludge produced by the facility (See Section J, below). 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 achieve pollutant concentration below those identified in Table 1, below.
 - c. Table 1 gives the ceiling concentration for biosolids. Biosolids which exceed the concentrations in Table 1 may not be land applied.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM **APPLICATION FOR TRANSFER OF OPERATING PERMIT**

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FOR AGEN	CY USE ONLY
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DATE RECEIVED	FEE SUBMITTED
JETPAY CONFIRMATION	NUMBER

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THE FOLLOWING ITEMS (1 - 4) ARE TO BE COMPLETED BY THE CURRENT OWNER. SEE INSTRUCTIONS FOR APPROPRIATE FEE TO BE SUBMITTED WITH APPLICATION. 1. FACILITY NAME TELEPHONE NUMBER WITH AREA CODE Stone Ridge Meadows HOA ADDRESS (PHYSICAL) CITY STATE 7IP 118 Stone Ridge Meadows Dr O'Fallon 63366 MO PERMIT NUMBER COUNTY #MO- 0132349 St. Charles 2. CURRENT OWNER NAME EMAIL ADDRESS TELEPHONE NUMBER WITH AREA CODE James Layne srmhoa18@gmail.com 314-276-0428 ADDRESS CITY STATE ZIP 117 Stone Ridge Meadows Drive O'Fallon MO 63366 3. CONTINUING AUTHORITY NAME EMAIL ADDRESS TELEPHONE NUMBER WITH AREA CODE ADDRESS CITY STATE ZIP 4. CERTIFICATION 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. NAME (TYPE OR PRINT) OFFICAL TITLE TELEPHONE NUMBER WITH AREA CODE ANX 314-276-0428 residen SIGNATURE DATE SIGNED 3/27/2023 MO 780-1517 (02-19) PAGE 1 OF 2



RECEIVED Water Protection Program

NAME	ABOVE)				
Stone Ridge Meadows	NAME Stone Ridge Meadows			NUMBER WITH AREA CODE	
6. FUTURE OWNER					
NAME Josiah Cox	EMAIL ADDRESS		TELEPHONE 1 314-736-4	NUMBER WITH AREA CODE	
ADDRESS 1630 Des Peres Rd	CITY Des Peres	5up.com	STATE	ZIP 63131	
Is the owner PSC regulated? Yes		ur Certificate of C			
7. CONTINUING AUTHORITY					
NAME	EMAIL ADDRESS		TELEPHONE	NUMBER WITH AREA CODE	
ADDRESS					
ADDRESS	CITY		STATE	ZIP	
8. FACILITY CONTACT	And a grant of grant of the second				
NAME Brad Thibault	TITLE	ouri Regional Man	ager		
EMAIL ADDRESS bthibault@cswrgroup.com	TELEPH	ONE NUMBER WITH AR			
ADDRESS	CITY	00-0307	STATE	ZIP	
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INSTRUCTIONS FOR COMPLETING APPLICATION FOR TRANSFER OF OPERATING PERMIT

All blanks must be filled in when the application is submitted to the Missouri Department of Natural Resources. This includes **BOTH** required signatures.

Department of Natural Resources regulation 10 CSR 20-6.010 (11) governs the transfer of National Pollutant Discharge Elimination System (NPDES) permits. Until such time as the permit is officially transferred, the current permittee remains responsible for complying with the terms and conditions of the existing permit. The department, within thirty (30) days of receipt of this application, shall notify the new applicant of its intent to revoke and reissue or transfer the permit.

Section 1-4. Current permittee (present owner/seller) is to complete items 1 - 4.

Section 5-10. Applicant for transfer of operating permit (future owner/buyer) is to complete items 5 - 10.

Section 2 & 6. Owner: Provide the legal name, mailing address, phone number, and email address of the owner. The owner identified in this section and subsequently reflected on the certificate page of the operating permit, is the owner of the regulated activity/discharge being applied for and is not necessarily the owner of the real property on which the activity or discharge is occurring.

Section 3 & 7. Continuing Authority – A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. If the continuing authority is not an individual(s), government, or otherwise required to register with the Missouri Secretary of State (SoS), then the business name must be listed exactly as it appears on the SoS's webpage: https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0

Section 10. Electronic Discharge Monitoring Report (eDMR) Submission System – You can find the eDMR application at the following link: <u>https://dnr.mo.gov/forms/780-2204-f.pdf</u>

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: <u>http://www.broadbandmap.gov/</u>. Please contact the Department if you need assistance.

Section 4. & 12. Signatures - 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.

Section 11. JetPay

Applicants can pay fees online by credit card or eCheck through a system called JetPay.

- Per Section 37.001, RSMo, a transaction fee will be included. The transaction fee is paid to the third party vendor JetPay, not the Department of Natural Resources.
- Upon successful completion of your payment, JetPay provides a payment confirmation. Submit this form with a copy of the
 payment confirmation if requesting a new permit or a permit modification. For permit renewals of active permits, the
 Department will invoice fees annually in a separate request.
- If you are unable to make your payment online, but want to pay with credit card, you may email your name, phone number, and invoice number, if applicable, to <u>WPPFees@dnr.mo.gov</u>. The Budget, Fees, and Grants Management Unit will contact you to assist with the credit card payment. Please do not include your credit card information in the email.
- Applicants can find fee rates in 10 CSR 20-6.011 (<u>https://dnr.mo.gov/pubs/pub2564.htm</u>).
- · Permit modifications, including transfers, are subject to the following fees; \$200 for Municipals and \$100 for All others

Note: Business name and address changes where owner and continuing authority remain the same are not considered transfers.

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: Operating Permits Section P.O. Box 176 Jefferson City, MO 65102

Map of regional offices with addresses and phone numbers are available on the Web at <u>http://dnr.mo.gov/regions/</u>. If there are any questions concerning this form, please contact the appropriate regional office or the Department of Natural Resources, Water Protection Program, Operating Permits Section at 800-361-4827 or 573-522-4502.

GENERAL ASSIGNMENT

This General Assignment ("Assignment") is executed as of the 23rd day of March, 2023 by STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, INC., a Missouri non-profit corporation ("Grantor"), in favor of CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation ("Grantee") (Grantee's Mailing Address: 1630 Des Peres Rd., Ste. 140, St. Louis, MO 63131).

RECITALS

WHEREAS, Concurrently herewith, Grantor is conveying to Grantee its interest in certain real property located in St. Charles County, Missouri and described in a Deed of Easement, dated on today's date, between the parties, which is incorporated herein by this reference, together with the improvements located thereon, and Grantor is also transferring to Grantee its interest in certain personal property referenced within a Bill of Sale, dated on today's date, between the parties, which is also incorporated herein by this reference (herein collectively referred to as the "Property"), pursuant to that certain Agreement for Sale and Continued Operation of Utility System dated March 28, 2022, by and between Grantor, as Seller, and Grantee or its affiliate, as Buyer ("Purchase Agreement"). All capitalized terms not otherwise defined herein shall have the meaning ascribed to them in the Purchase Agreement, which by this reference is incorporated herein.

WHEREAS, Grantor has agreed to assign to Grantee all of Grantor's right, title and interest in and to the sewer and water system main lines, appurtenances and other assets, up to the point of interconnection between the utility and the customer, pertaining to the provision of sewer and water service in and to the System, as such term is defined in the Purchase Agreement, which provides sewer and water service to the area described on **EXHIBIT A**, attached hereto and incorporated herein, located in St. Charles County, Missouri (the "System).

WHEREAS, Grantor has further agreed to assign to Grantee all of Grantor's rights to operate, maintain and service the main lines of the sewer and water system in the System, including but not limited to, the right to collect assessments and/or fees.

WHEREAS, Grantor has agreed to assign to Grantee, all its right, title and interest in any licenses, permits, certificates of public convenience and necessity, leases, contracts and agreements that pertain to the Assets or sewer and water service in and to the System.

WHEREAS, Grantor has agreed to assign to Grantee all of Grantor's right, title and interest in and to any easements in and to the System (the "Easements").

ASSIGNMENT

NOW, THEREFORE, in consideration of the foregoing recitals and for other good and valuable consideration, the receipt and sufficiency of which is acknowledged, Grantor and Grantee hereby agree as follows:

1. Assignment.

Grantor hereby assigns, conveys, transfers and sets over unto Grantee, free of all liens and encumbrances, all of Grantor's right, title and interest in and to:

- A. Easements in the System;
- B. The main lines of the sewer and water system, appurtenances and other assets pertaining to the provision of the sewer and water service in and to the System, including without limitation, the following:
 - a. Buildings, easements, rights of way, licenses, permits and leases;
 - b. All sewer lines, pipes, lagoon(s), treatment plant(s), pump/lift station(s), tanks, meters, valves, manholes, and any other appurtenances of the sewer system, and all machinery, equipment, supplies and other tangible items used in connection with the sewer system; AND All water lines, pipes, wells, well house, tanks, pumps, meters, valves, and any other appurtenances of the water system, and all machinery, equipment, supplies and other tangible items used in connection with the water system;
 - c. Any machinery and equipment such as meters, tools, devices, mobile work equipment, and all furniture, fixtures, machinery, supplies and other tangible items located in St. Charles County, Missouri, and used or held for use in connection with the System;
 - d. Any rights, approvals, licenses, permits, and/or applications of any kind or nature, including, without limitation, the right to own, operate, and maintain the System and provide service to the System, any approvals or permits issued by or which are on file with any governmental agencies, departments or authorities, such as electric, gas, cable television, telephone, and other utility service rights, permits, and/or applications;
 - e. Any leases, or service, utility, maintenance, management, supply, franchise, or other agreements Grantee has expressly agreed to take transfer of, customer lists, construction plans and specifications, engineering reports, environmental reports, technical reports, drawings, surveys, utility studies, market studies, appraisals, and/or any other reports or data which are in the possession of Grantor or may be obtained by Grantor, including, without limitation, all work product and file materials of any third party consultants (other than attorneys) who have done work in connection with the System;
 - f. All prepaid expenses or fee credits or any kind or nature, including without limitation all prepaid impact fees and/or impact fee credits; and all rights to any refunds or reimbursements of any kind or nature which relate to the System, including, without limitation, all rights to receive reimbursements or refunds from any utility districts, water districts, road districts or other governmental authorities or third parties;
 - g. All indemnities or claims with respect to the System;
 - h. Any warranties, guaranties, indemnities, bonds or other financial assurances or guaranties, if any, pertaining to, allocable to, or arising out of the System, and all claims and causes of action thereunder; and
 - i. All assets not described which are located in St. Charles County, Missouri, and used or useful in or to the System, but specifically excluding customer deposits held by Grantor.

- C. All easements, streets, rights-of-way, or other rights and interests, if any, associated with the System and held by or reserved by Grantor in the following subdivision plats and/or by virtue of the following documents, BUT EXPRESSLY EXCLUDING ANY OBLIGATIONS CREATED BY THE SAME:
 - a. All plats located within the area described on EXHIBIT A;
 - All documents establishing easements or other rights used or useful in operation of the System which affect the area described on EXHIBIT A, including but not limited to Declarations of Covenants, Conditions and Restrictions, or similar documents;
 - c. Quit Claim Deed recorded on October 28, 2009 in Book 5285, Page 1689 in the Recorder of Deeds Office in St. Charles County, Missouri.
- D. The rights to operate, maintain and service the System, including but not limited to, the right to collect assessments and/or fees.

Grantor hereby represents to and assures Grantee that Grantor, or its predecessor(s) in interest, have owned, operated and maintained the System in a continuous, uninterrupted, open, notorious and adverse manner for a time period in excess of ten (10) years prior to the date of this Assignment.

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2. <u>Governing Law</u>. This Assignment shall be construed under and enforced in accordance with the laws of the State of Missouri.

3. <u>Further Assurances</u>. Grantor agrees to execute and deliver to Grantee, upon demand, such further documents, instruments or conveyances and shall take such further actions as are reasonably necessary to effectuate this Assignment.

4. <u>Attorneys' Fees and Costs</u>. If any action or proceeding is commenced by either party to enforce their rights under this Assignment, the prevailing party in such action or proceeding shall be entitled to recover all reasonable costs and expenses, including, without limitation, reasonable attorneys' fees and court costs, in addition to any other relief awarded by the court.

5. <u>Successors and Assigns</u>. This Assignment shall inure to the benefit of and be binding upon, the successors, executors, administrators, legal representatives and assigns of the parties hereto.

6. <u>Counterparts</u>. This Assignment may be executed in counterparts (including email and pdf), each of which shall be an original, but all of which together shall constitute one agreement.

7. <u>Authority to Execute</u>. Each person whose signature appears hereon represents, warrants and guarantees that he or she has been duly authorized and has full authority to execute this Assignment on behalf of the party on whose behalf this Assignment is executed.

8. Subject to Purchase Agreement. This Assignment is in accordance with and is subject to all of the representations, warranties, covenants, exclusions and indemnities set forth in the Purchase Agreement, all of which are incorporated herein by reference. In the event of a conflict between the provisions of this Assignment and the provisions of the Purchase Agreement, the provisions of the Purchase Agreement shall govern. This Assignment does not merge, supersede, enlarge or satisfy any representation, warranty, covenant, agreement or other duty or obligation of Grantor arising under the Purchase Agreement or the closing of the transactions contemplated therein, other than the obligation to execute and deliver to Grantee this Assignment at Closing (as defined in the Purchase Agreement).

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands, by and through their duly authorized representatives, and caused these presents to be executed the date and year first above written.

GRANTOR:

STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, a Missouri non-profit corporation

By: James Layne, President,

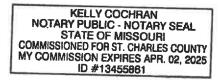
STATE OF MISSOURI) COUNTY OF <u>St Louis</u>)

The foregoing General Assignment was acknowledged, signed and sworn to before me on this day of March, 2023 by James Layne, as President of Stone Ridge Meadows Home Owners Association, a Missouri non-profit corporation, who stated that he was authorized to execute this document on behalf of the non-profit corporation.

(AFFIX NOTARY SEAL)

NOTARY PUBLIC

My Commission Expires:



GRANTEE:

CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation By: Josiah M. Cox, President

STATE OF MISSOURI)) SCT. COUNTY OF ST. LOUIS)

The foregoing General Assignment was acknowledged, signed and sworn to before me on this day of March, 2023 by JOSIAH M. COX, President of CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation, who stated that he was authorized to execute this document.

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(AFFIX NOTARY SEAL)

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My Commission Expires: 3-1-26

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1	JASMIN LLAMAS
4	Notary Public - Notary Seal
J	St Louis County - State of Missouri 🖉
1	Commission Number 22016027
ĩ	My Commission Expires Mar 1, 2026

EXHIBIT A

The area served is part of the City of St. Paul, St. Charles County, Missouri and being more particularly described as follows:

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Commencing from the southwest corner of the Northwest Quarter of the Southeast Quarter of Section 7, Township 47 North, Range 3 East; thence N1°23'11"E 20.00 feet to the point of beginning; thence N1°23'11"E 640.00 feet; thence S88°16'49"E 1191.00 feet; thence S1°23'11"W 640.00 feet; thence N88°16'49"W 1191.00 feet to the point of beginning, containing 17.50 acres more or less.

DEED OF EASEMENT

This Deed of Easement ("Easement") is made and entered into as of the <u>121</u>^d day of March, 2023 by and between STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, INC., a Missouri non-profit corporation, party of the first part ("Grantor"), and CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation, party of the second part, ("Grantee") (Grantee's Mailing Address: 1630 Des Peres Road, Suite 140, St. Louis, MO 63131).

NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES, and the sum of One Dollar and No/100ths (\$1.00) and other good and valuable consideration in hand paid by Grantee to Grantor, the receipt and sufficiency of which is hereby acknowledged, Grantor does hereby GRANT, BARGAIN, SELL AND CONVEY unto Grantee, its successors and assigns, the following rights and interests located in the County of Saint Charles, State of Missouri, to wit:

- A. An exclusive, perpetual easement over the real property described in Exhibit A, attached hereto and incorporated herein (the "Utility Easement"), for the purpose of operation and maintenance of the wastewater plant and well, and water and sewer equipment, lines, and other appurtenances for the central water and sewer system which serves the surrounding area, including currently-located improvements and appurtenances, whether known or unknown and whether of record or not, and including rights of ingress and egress and to maintain, reconstruct, increase, remove or alter such wastewater plant and well and appurtenances. The Utility Easement shall exclude all others, including Grantor, its successors in interest and assigns. Grantee shall be responsible for maintenance of the Utility Easement.
- B. A non-exclusive, perpetual easement over the real property described in **Exhibit B**, attached hereto and incorporated herein (the "Access Easement"), for the purpose of ingress and egress to the Utility Easement.

Signature Page

1. <u>Easement Rights</u>. The rights set forth herein regarding the Utility Easement and Access Easement are the "Easement Rights." Grantor agrees not to unreasonably interfere with the exercise of the Easement Rights by Grantee or its guests, agents, invitees or licensees.

For purposes of the Utility Easement and Access Easement, the Grantee shall be entitled to occupy and use so much of the adjoining lands of Grantor as shall be necessary and appropriate on a temporary basis without liability for waste or trespass for the purposes of constructing improvements on or maintaining and repairing the aforesaid Utility Easement and Access Easement. Grantee agrees to repair any damage to adjoining land of the Grantor to substantially the same condition as it existed prior to the damage at Grantee's sole expense and subject to the Grantor's good faith acceptance of the repairs. Grantee agrees to maintain at the Grantee's expense the Utility Easement and its proportionate share of the Access Easement and any improvements thereon. Grantee agrees to provide Grantor with a key to access the two permanent structures within the Utility Easement. Grantee agrees that no fence, gate or chain be installed at the entrance of the Utility Easement.

2. <u>Governing Law</u>. This Deed of Easement shall be construed under and enforced in accordance with the laws of the State of Missouri.

3. <u>Further Assurances</u>. Grantor agrees to execute and deliver to Grantee, upon demand, such further documents, instruments or conveyances and shall take such further actions as are reasonably necessary to effectuate this Deed of Easement.

4. <u>Successors and Assigns</u>. This Deed of Easement shall inure to the benefit of and be binding upon, the successors, executors, administrators, legal representatives and assigns of the parties hereto and shall run with the land for the benefit of Grantee, its successors in interest, assigns, patrons and/or agents.

5. <u>Counterparts</u>. This Deed of Easement may be executed in counterparts (including email and pdf), each of which shall be an original, but all of which together shall constitute one agreement.

6. <u>Authority to Execute</u>. Each person whose signature appears hereon represents, warrants and guarantees that he or she has been duly authorized and has full authority to execute this Deed of Easement on behalf of the party on whose behalf this Deed of Easement is executed.

[SIGNATURE PAGES FOLLOW]

GRANTOR:

STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, INC., a Missouri non-profit corporation By: James Layne, President

STATE OF MISSOURI)
COUNTY OF St Louis) SCT.)

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The foregoing Deed of Easement was acknowledged, signed and sworn to before me on this <u>2</u> 3²/ day of March, 2023 by James Layne, as President of Stone Ridge Meadows Home Owners Association, Inc., a Missouri non-profit corporation, who stated that he was authorized to execute this document on behalf of the non-profit corporation.

NOTARY PUBLIC

(AFFIX NOTARY SEAL)

My Commission Expires:

KELLY COCHRAN NOTARY PUBLIC - NOTARY SEAL STATE OF MISSOURI COMMISSIONED FOR ST. CHARLES COUNTY MY COMMISSION EXPIRES APR. 02, 2025 ID #13455861

GRANTEE:

RIVERS UTILITY
OMPANY, INC., a Missouri
A
President
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STATE OF MISSOURI)) SCT. COUNTY OF ST. LOUIS)

The foregoing Deed of Easement was acknowledged, signed and sworn to before me on this <u>23</u>rd day of March, 2023 by JOSIAH M. COX, President of CENTRAL STATES WATER RESOURCES, INC., a Missouri corporation, the Manager of CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation, who stated that he was authorized to execute this document.

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(AFFIX NOTARY SEAL)

My Commission Expires: 3.1.26

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JASMIN LLAMAS
Notary Public - Notary Seal
St Louis County - State of Missouri
Commission Number 22016037
My Commission Expires Mar 1, 2026

EXHIBIT "A"

A Utility Easement being part of Common Ground "B" of Stone Ridge Meadows as recorded in Plat Book 43 Page 352, in Fractional Section 7, Township 47 North, Range 3 East of the 5th P.M., St. Charles County, Missouri and being more particularly described as follows:

Beginning at the southwest corner of said Common Ground "B"; thence along the west line of said Common Ground "B", N1 degree 42'57"E 122.36 feet; thence leaving said west line S88 degrees 16'49"E 61.70 feet; thence N1 degree 43'11"E 63.21 feet; thence S88 degrees 16'49"E 35.36 feet to the east line of said Common Ground "B"; thence along said east line S1 degree 22'57"W 185.56 feet to the southeast corner of said Common Ground "B"; thence along the south line thereof N88 degrees 17'03"W 98.14 feet to the point of beginning.

EXHIBIT "B"

The non-exclusive easement for ingress and egress created by the Easement Deed executed by and between Frederick Hoeckelmann and Patty Hoeckelmann, husband and wife and Paul Hoeckelmann and Clara Hoeckelmann, husband and wife, grantors to JRJ Investments, L.L.C., grantee, dated March 2, 2005 and recorded March 8, 2005 in Book 4118 page 128, over the following described land:

A tract of land being part of Section 7, Township 47 North, Range 3 East, St. Charles County, Missouri and being more particularly described as follows:

Commencing at the Southwest corner of said Southwest Quarter of the Northeast Quarter of Section 7; thence North 89 degrees 43 minutes 00 seconds West 20.00 feet of the Point of Beginning of the description herein said point being the Southeast corner of a tract of land conveyed to First Things First Inc., by deed recorded in Book 2919 Page 1765 of St. Charles County records; thence along the East line of said First Things First Inc., property, North 00 degrees 00 minutes 00 seconds West 1060.94 feet to the centerline of Mueller Road; thence along said centerline, North 89 degrees 47 minutes 00 seconds East 50.00 feet; thence leaving said centerline, South 00 degrees 00 minutes 00 seconds West 1061.38 feet; thence South 10 degrees 09 minutes 34 seconds East 113.39 feet; thence South 00 degrees 00 minutes 00 seconds West 53.74 feet; thence North 90 degrees 00 minutes 00 seconds West 50.00 feet; thence North 00 degrees 00 minutes 00 seconds East 53.98 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds East 53.98 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds East 53.98 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds East 53.98 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; thence North 10 degrees 09 minutes 34 seconds West 113.39 feet; to the Point of Beginning.

BILL OF SALE

This BILL OF SALE, effective as of the $\frac{2.3}{100}$ day of March, 2023, is made by STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, INC., a Missouri non-profit corporation ("Seller"), in favor of CONFLUENCE RIVERS UTILITY OPERATING COMPANY, INC., a Missouri corporation ("Buyer").

WHEREAS, Buyer, or its affiliate, and Seller are parties to that certain Agreement for Sale and Continued Operation of Utility System dated March 28, 2022 which contemplates the sale of certain assets of Seller to Buyer, and which by this reference is incorporated herein (the "Purchase Agreement").

NOW, THEREFORE, Seller, for the consideration set forth in the Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged, does hereby sell, assign, convey, transfer and deliver to Buyer, all of Seller's right, title and interest in and to the Property, as such term is defined and described in the Purchase Agreement, consists of the assets, both real and personal, used or useful in operation of a sewer system and water system located in St. Charles County, Missouri that services the area described on the attached EXHIBIT A, such assets being more particularly described as follows:

All personal property comprising the sewer system, including but not limited to, the sewer lines, pipes, lagoon(s), treatment plant(s), pump/lift station(s), tanks, meters, valves, manholes, and any other appurtenances of the sewer system, and all machinery, equipment, supplies and other tangible items used in connection with the sewer system; AND All personal property comprising the water system, including but not limited to, the water lines, pipes, wells, well house, tanks, pumps, meters, valves, and any other appurtenances of the water system, and all machinery, equipment, supplies and other tangible items used in connection with the water system.

TO HAVE AND TO HOLD the Property, with all of the rights and appurtenances thereto belonging, unto Buyer, its successors and assigns, to itself and for its own use and behalf forever.

AND, for the consideration aforesaid, Seller hereby constitutes and appoints Buyer the true and lawful attorney or attorneys in fact of Seller, with full power of substitution, for Seller and in its name and stead or otherwise, by and on behalf of and for the benefit of Buyer to demand and receive from time to time any and all of the Property hereby assigned, transferred and conveyed, and to give receipts and releases for and in respect of the same and any part thereof, and from time to time to institute and prosecute at the expense and for the benefit of Buyer any and all proceedings at law, in equity or otherwise which Buyer may deem proper in order to collect, assert, or enforce any claim, right or title of any kind in and to the Property and to do all such acts and things in relation thereto as Buyer shall deem desirable; and Seller hereby declaring that the appointment made and the powers hereby granted are coupled with an interest and are and shall be irrevocable by Seller in any manner or for any reason.

AND, for the consideration aforesaid, Seller has covenanted and by this Bill of Sale does covenant with Buyer that Seller will do, execute and deliver, or will cause to be done, executed and delivered, all such further acts, transfers, assignments and conveyances, powers of attorney and assurances, for the better assuring, conveying and confirming unto Buyer, the entire right, title and interest in the Property hereby sold, transferred, assigned and conveyed as Buyer shall reasonably require.

This Bill of Sale and the covenants and agreements herein contained shall inure to the benefit of Buyer, its successors and assigns, and shall be binding upon Seller, its successors and assigns.

This Bill of Sale is executed and delivered by Seller pursuant to the Purchase Agreement, and is subject to the covenants, representations and warranties made therein.

EXHIBIT A

The area served is part of the City of St. Paul, St. Charles County, Missouri and being more particularly described as follows:

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Commencing from the southwest corner of the Northwest Quarter of the Southeast Quarter of Section 7, Township 47 North, Range 3 East; thence N1°23'11"E 20.00 feet to the point of beginning; thence N1°23'11"E 640.00 feet; thence S88°16'49"E 1191.00 feet; thence S1°23'11"W 640.00 feet; thence N88°16'49"W 1191.00 feet to the point of beginning, containing 17.50 acres more or less.

IN WITNESS WHEREOF, this Bill of Sale has been executed as of the date first set forth above.

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STONE RIDGE MEADOWS HOME OWNERS ASSOCIATION, a Missouri non-profit corporation

By:__ James Layne, President