#### 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, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0098132

Owner: WireCo WorldGroup

Address: 2400 W. 75<sup>th</sup> Street; Prairie Village, KS 66208

Continuing Authority: WireCo WorldGroup Inc.

Address: 2400 W. 75<sup>th</sup> Street; Prairie Village, KS 66208

Facility Name: WireCo WorldGroup – Sedalia

Facility Address: 24150 Oak Grove Lane, Sedalia MO 65301

Legal Description: See following page UTM Coordinates: See following page

Receiving Stream:

First Classified Stream and ID:

See following page
USGS Basin & Sub-watershed No.: See following page

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

#### **FACILITY DESCRIPTION**

Manufacturing of Carbon Steel Wire Rope; SIC # 3946; NAICS # 332618

Industrial stormwater and domestic wastewater are discharged from this facility. Domestic wastewater shall cease discharge by February 1, 2022, per the schedule of compliance in this permit. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Stormwater is from outdoor staging, roofs and run-off. Raw materials used in production are carbon steel wire, various types of lubricant, and plastics; intermediate products are strands of wire; and finished product is wire rope.

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

February 1, 2021

Effective Date

dward R. Galbraith Director Division of Environmental Quality

December 31, 2025

**Expiration Date** 

Chris Wieberg, Director, Water Projection Program

Permit No. MO-0098132 Page 2 of 8

#### FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001 – Domestic Wastewater; SIC # 3496

Three cell lagoon, primary cell aerated, sludge is retained in lagoon. PE = 40; design PE = 60. Discharge from this outfall is not

authorized on or after February 1, 2022 per SOC, by connection to Sedalia collection system. Legal Description: SE<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, Sec.31, T46N, R21W, Pettis County

UTM Coordinates: X = 475923, Y = 4286083Receiving Stream: Tributary to Brushy Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) WBID # 3960; locally known as Brushy Creek

USGS Basin & Sub-watershed No.: Coon Creek-Muddy Creek 10300103-0405

Population Equivalent: 40

Design Sludge Production: 1.0 dry tons per year

Design Flow: 0.008 MGD Average Flow: 0.0026 MGD

OUTFALL #002 - Industrial Stormwater; SIC # 3496

Legal Description: SW<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, Sec.31, T46N, R21W, Pettis County

UTM Coordinates: X = 475851, Y = 4286120 Receiving Stream: Tributary to Brushy Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) WBID # 3960; locally known as Brushy Creek

USGS Basin & Sub-watershed No.: Coon Creek-Muddy Creek 10300103-0405

Maximum Flow: 0.14 MGD

Average Flow: 0.019 MGD; dependent upon precipitation

OUTFALL #003 - Industrial Stormwater; SIC # 3496

Legal Description: NW<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, Sec.31, T46N, R21W, Pettis County

UTM Coordinates: X = 475712, Y = 4286436Receiving Stream: Tributary to Muddy Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) WBID # 3960; locally known as Muddy Creek

USGS Basin & Sub-watershed No.: Coon Creek-Muddy Creek 10300103-0405

Maximum Flow: 0.14 MGD

Average Flow: 0.017 MGD; dependent upon precipitation

OUTFALL #004 – Industrial Stormwater; SIC # 3496

Legal Description: SW<sup>1</sup>/<sub>4</sub>, NW<sup>1</sup>/<sub>4</sub>, Sec.31, T46N, R21W, Pettis County

UTM Coordinates: X = 475998, Y = 4286167Receiving Stream: Tributary to Brushy Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) WBID # 3960; locally known as Brushy Creek

USGS Basin & Sub-watershed No.: Coon Creek-Muddy Creek 10300103-0405

Maximum Flow: 0.14 MGD

Average Flow: 0.018 MGD; dependent upon precipitation

Permit No. MO-0098132 Page 3 of 8

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001

Domestic

### TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on <u>February 1, 2021</u> and remain in effect until <u>January 31, 2022</u>. Discharges shall be controlled, limited, and monitored by the facility as specified below. Discharge on or after <u>February 1, 2022</u> is not authorized.

						MONITORING REQUIREMENTS	
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	WEEKLY AVERAGE	Monthly Average	MEASUREMENT FREQUENCY	SAMPLE Type	
LIMIT SET: Q							
PHYSICAL							
Flow	MGD	*	-	*	once/quarter ◊	24 hr. total	
CONVENTIONAL							
Biochemical Oxygen Demand – 5 day	mg/L	-	65	45	once/quarter ◊	grab	
E. coli <sup>‡</sup>	#/100 ml	*	-	*	once/quarter ◊	grab	
Oil & Grease	mg/L	15	-	10	once/quarter ◊	grab	
pH <sup>†</sup>	SU	>6.5	>6.5	>6.5	once/quarter ◊	grab	
Total Suspended Solids	mg/L	-	110	70	once/quarter ◊	grab	
NUTRIENTS							
Ammonia as N	mg/L	*	-	*	once/quarter ◊	grab	

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>APRIL 28, 2021</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

OUTFALLS #002, #003, AND #004 Stormwater Only

### TABLE A-2 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on  $\underline{\textbf{February 1, 2021}}$  and remain in effect until expiration of the permit. Discharges shall be controlled, limited and monitored by the facility as specified below:

Every view in D. D. A. Green of	T. Va various	FINAL LI	MITATIONS	BENCH-	MONITORING REQUIREMENTS	
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	MONTHLY AVERAGE	MARKS	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: Q						
PHYSICAL						
Flow	MGD	*		-	once/quarter ◊	24 Hr Est.
CONVENTIONAL						
Chemical Oxygen Demand	mg/L	**		120	once/quarter ◊	grab
Oil & Grease	mg/L	**		10	once/quarter ◊	grab
pH <sup>†</sup>	SU	6.5 to 9.0		-	once/quarter ◊	grab
Total Suspended Solids	mg/L	**		100	once/quarter ◊	grab
METALS						
Iron, Total Recoverable	μg/L	**		7380	once/quarter ◊	grab
Lead, Total Recoverable	μg/L	**		22	once/quarter ◊	grab
Zinc, Total Recoverable	μg/L	**		308	once/quarter ◊	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>APRIL 28, 2021</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

Permit No. MO-0098132 Page 4 of 8

#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

- \* Monitoring and reporting requirement only
- \*\* Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.
- ‡ *E. coli*: final limitations and monitoring requirements are applicable only during the recreational season from April 1 through October 31. The Monthly Average for *E. coli* shall be expressed as a geometric mean.
- † For outfall #001, report the minimum pH value; pH is not to be averaged. For all other outfalls, the facility will report the minimum and maximum values; pH is not to be averaged.

Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS								
QUARTER	MONTHS	E. coli	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 <sup>th</sup>				
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 <sup>th</sup>				
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 28th				
Fourth	October	Sample once during October	Sample at least once during any	January 20th				
rourth	November, December	No sample required	month of the quarter	January 28 <sup>th</sup>				

#### B. SCHEDULE OF COMPLIANCE

Schedules of compliance are allowed per 40 CFR 122.47 and 10 CSR 20-7.031(11). The facility shall attain compliance with final effluent limitations established in this permit as soon as reasonably achievable:

Before February 1, 2022 the facility shall cease discharge of outfall #001 by connection to the local sewer system. Interim progress reports are not due for this activity. Discharge from outfall #001 on or after February 1, 2022 is a violation of this permit.

#### C. STANDARD CONDITIONS

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

#### D. SPECIAL CONDITIONS

- 1. This permit does not allow process wastewater discharges from the manufacturing process (this includes but is not limited to quench water, cooling water, flue gas wastewater, or equipment cleaning).
- 2. Spills, Overflows, and Other Unauthorized Discharges.
  - (a) Any spill, overflow, or other discharge(s) not specifically authorized above are unauthorized discharges.
  - (b) Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
- 3. Electronic Discharge Monitoring Report (eDMR) Submission System
  Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent
  monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted
  via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data about the NPDES program.
  (continued)

Permit No. MO-0098132 Page 5 of 8

#### D. SPECIAL CONDITIONS (CONTINUED)

- (a) eDMR Registration Requirements. The facility 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 <a href="https://dnr.mo.gov/env/wpp/edmr.htm">https://dnr.mo.gov/env/wpp/edmr.htm</a>. 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: <a href="https://apps5.mo.gov/mogems/welcome.action">https://apps5.mo.gov/mogems/welcome.action</a> If you experience difficulties with using the eDMR system you may contact <a href="edmr@dnr.mo.gov">edmr@dnr.mo.gov</a> or call 855-789-3889 or 573-526-2082 for assistance.
- (c) Waivers from Electronic Reporting. The facility must electronically submit compliance monitoring data and reports unless a waiver is granted by the department in compliance with 40 CFR Part 127. Only facilities with an approved waiver request may submit monitoring data and reports on paper to the Department for the period the approved electronic reporting waiver is effective. Facilities may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <a href="http://dnr.mo.gov/forms/780-2692-f.pdf">http://dnr.mo.gov/forms/780-2692-f.pdf</a>. The department will either approve or deny this electronic reporting waiver request within 120 calendar days.
- 4. Stormwater Pollution Prevention Plan (SWPPP).
  - The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and hence shall implement a Stormwater Pollution Prevention Plan (SWPPP) which must be prepared and implemented upon permit effective date. The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested. The SWPPP must be reviewed and updated annually or if site conditions affecting stormwater change. The facility shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (EPA 833-B-09-002) published by the EPA in 2015 <a href="https://www.epa.gov/sites/production/files/2015-11/documents/swppp">https://www.epa.gov/sites/production/files/2015-11/documents/swppp</a> guide industrial 2015.pdf The purpose of the SWPPP and the Best Management Practices (BMPs) listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was ineffective at providing the necessary protections for which it was designed. Corrective action describes the steps the facility took to eliminate the deficiency.

The SWPPP must include:

- (a) A listing of specific contaminants and their control measures (or BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.
- (b) A map with all outfalls and structural BMPs marked.
- (c) A schedule for at least once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
  - (1) Operational deficiencies must be corrected within seven (7) calendar days.
  - (2) Minor structural deficiencies must be corrected within fourteen (14) calendar days.
  - (3) Major structural deficiencies (deficiencies projected to take longer than 14 days to correct) must be reported as an uploaded attachment through the eDMR system with the DMRs. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including proposed timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. If required by the Department, the facility shall work with the regional office to determine the best course of action. The facility should consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
  - (4) All actions taken to correct the deficiencies shall be included with the written report, including photographs, and kept with the SWPPP. Additionally, corrective action of major structural deficiencies shall be reported as an uploaded attachment through the eDMR system with the DMRs.
  - (5) BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.
  - (6) Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department personnel upon request. Electronic versions of the documents and photographs are acceptable.
- (d) A provision for designating an individual to be responsible for environmental matters and a provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.

Permit No. MO-0098132 Page 6 of 8

#### D. SPECIAL CONDITIONS (CONTINUED)

- 5. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
  - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, and thereby prevent the contamination of stormwater from these substances.
  - (b) Ensure adequate provisions are provided to prevent surface water intrusion into the wastewater storage basin, to divert stormwater runoff around the wastewater storage basin, and to protect embankments from erosion.
  - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
  - (d) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records should be retained on-site.
  - (e) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
  - (f) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.
- 6. Stormwater Benchmarks. This permit stipulates pollutant benchmarks applicable to the facility's stormwater discharges.
  - (a) Benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Stormwater monitoring, numeric benchmark compliance, and visual inspections shall be used to determine the overall effectiveness of the BMPs identified in the SWPPP.
  - (b) If a sample exceeds a benchmark concentration or an inspection exceeds a narrative requirement, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce the pollutant concentrations in the facility's future stormwater discharges.
  - (c) Every time a numeric benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. This permit may require CARs be submitted to the Department upon permit renewal; see Renewal Requirements section below.
  - (d) Failure to take corrective action to address a narrative or numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark, is a permit violation.
- 7. Petroleum Secondary Containment.
  - Before releasing water accumulated in petroleum secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen to protect the general criteria found at 10 CSR 20-7.031(4).
  - (a) If odor or sheen is found, the water shall not be discharged without treatment and shall be disposed of in accordance with legally approved methods, such as being sent to an accepting wastewater treatment facility.
  - (b) If the facility wishes to discharge the accumulated stormwater with hydrocarbon odor or presence of sheen, the water shall be treated using an appropriate removal method. Following treatment and before release, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream, found in 10 CSR 20-7.031 Table A before discharge is authorized. Records of all testing and treatment of water accumulated in secondary containment shall be available on demand to the Department. Electronic records retention is acceptable.
- 8. 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 RSMo 644.051.16, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Clean Water Act Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
- 9. All outfalls and permitted features must be clearly marked in the field.
- 10. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report no-discharge when a discharge has occurred.

Permit No. MO-0098132 Page 7 of 8

#### D. SPECIAL CONDITIONS (CONTINUED)

- 11. The Department may require sampling and reporting as a result of illegal discharges from the site, compliance issues related to water quality concerns or BMP effectiveness, or evidence of off-site impacts from activities or discharges at the facility.
- 12. This permit does not apply to fertilizer products receiving a current exemption under the Missouri Clean Water Law and regulations in 10 CSR 20-6.015(3)(B)8., and are land applied in accordance with the exemption.
- 13. Changes in Discharges of Toxic Pollutant.
  - In addition to the reporting requirements under 40 CFR 122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
  - (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
    - (1) One hundred micrograms per liter (100  $\mu$ g/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
    - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
    - (4) One milligram per liter (1 mg/L) for antimony;
    - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
    - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
  - (b) Any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
    - (1) Five hundred micrograms per liter (500  $\mu$ g/l);
    - (2) One milligram per liter (1 mg/l) for antimony;
    - (3) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
    - (4) The level established by the Director in accordance with 40 CFR 122.44(f).

#### 14. Reporting of Non-Detects.

- (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, Section A, #4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory established reporting limit (RL) are used interchangeably in this permit.
- (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.
- (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
- (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).
- 15. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 16. This permit does not cover land disturbance activities.
- 17. This permit does not authorize the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course. The facility must contact the U.S. Army Corps of Engineers (Corps) to determine if a CWA §404 Department of Army permit or §401 water quality certification is required for the project.
- 18. Renewal Application Requirements.
  - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
  - (b) Application materials shall include a complete Form A and Form C. If the form names have changed, then the facility should ensure they are submitting the correct forms as required by regulation.
  - (c) The facility may use the electronic submission system to submit the application to the Program, if available.
  - (d) The facility will submit the most recent revision of the SWPPP with the permit renewal documents.
  - (e) This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

Permit No. MO-0098132 Page 8 of 8

#### E. DOMESTIC WASTEWATER SPECIAL CONDITIONS

- 1. Permittee will cease discharge by connection to the city of Sedalia before February 1, 2022. The following requirements must be maintained until the full closure of the lagoon is complete.
- 2. 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.b. Bypasses are to be reported to the Kansas City Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. 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.
- 3. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 4. At least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department.
- 5. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
- 6. 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.
- 7. An all-weather access road shall be provided to the treatment facility.
- 8. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or riprapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so 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.
- 9. A minimum of two (2) feet freeboard must be maintained in each lagoon cell. A lagoon level gauge, which clearly marks the minimum freeboard level, shall be provided in each lagoon cell.
- 10. The berms of the lagoon(s)/storage basin(s) shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.
- 11. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the lagoon/storage basin and to divert stormwater runoff around the lagoon and protect embankments from erosion.
- 12. Closure Requirements:
  - (a) The facility shall follow the requirements in Standard Conditions Part III for closure of the domestic wastewater lagoon.
  - (b) The facility shall follow closure requirements as found in 10 CSR 20-6.010(12)

#### F. 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 FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0098132 WIRECO WORLDGROUP – SEDALIA

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 for less.

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 (MSOP or operating permit) listed below. A factsheet is not an enforceable part of an operating permit.

#### **PART I. FACILITY INFORMATION**

Facility Type: Industrial Stormwater >1 MGD

SIC Code(s): 3946 NAICS Code(s): 332618

Application Date: 05/15/2020, 06/05/2020

Expiration Date: 12/31/2020 Last Inspection: 02/19/2019

#### **FACILITY DESCRIPTION:**

Manufacturing of Carbon Steel Wire Rope. Raw materials are carbon steel wire, various types of lubricant and plastics; intermediate products are strands of wire; and finished product is wire rope. Domestic wastewater source is from restrooms at both the offices and manufacturing facilities. Stormwater is from roofs and run-off. The facility utilizes municipal potable water for the manufacturing processes; however, this water is not discharged.

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other permits held by the facility; this permittee has no other environmental permits associated with this facility.

#### **PERMITTED FEATURES TABLE:**

OUTFALL	AVERAGE FLOW	DESIGN FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	## MGD	0.008 MGD	lagoon	domestic wastewater
#002	0.019 MGD	n/a	BMPs (silt fence, hay bales)	stormwater
#003	0.017 MGD	n/a	BMPs	stormwater
#004	0.018 MGD	n/a	BMPs (silt fence, hay bales)	stormwater

#### **FACILITY PERFORMANCE HISTORY & COMMENTS:**

The electronic discharge monitoring reports were reviewed for the last permit term. The facility's domestic wastewater effluent has very high E. coli; this discharge will cease by January 1, 2022. Iron at the stormwater outfalls is intermittently high. Oil and grease at the stormwater outfalls was very low and well controlled. TSS was intermittently high at the stormwater outfalls and the facility exceeded the TSS limit of 100 mg/L five times since last permit issuance: at outfall #002 four times, and #004 once.

The 2019 inspection did not result in any violations.

#### **CONTINUING AUTHORITY:**

The Missouri Secretary of State continuing authority charter number for this facility is F00790737; this number was verified by the permit writer to be associated with the facility and matches the continuing authority reported by the facility.

#### **FACILITY MAP:**



#### PART II. RECEIVING WATERBODY INFORMATION

#### **RECEIVING WATERBODY TABLE:**

TECETITIO	WATERDODI TABLE.					
OUTFALL	Waterbody Name	CLASS	WBID	DESIGNATED USES*	DISTANCE TO SEGMENT (MILES)	12-DIGIT HUC
#001	Tributary to Brushy Creek	n/a	n/a	GEN	0.0	
#002 #004	100K Extent Remaining Stream locally known as Brushy Creek	С	3960	HHP, IRR, LWW, SCR, WBC-B, WWH (AQL)	0.03 0.08 0.08	10300103-0405 Coon Creek-
	Tributary to Muddy Creek	n/a	n/a	GEN	0.0	Muddy Creek
#003	100K Extent Remaining Stream locally known as Brushy Creek	С	3960	HHP, IRR, LWW, SCR, WBC-B, WWH (AQL)	0.18	

Classes are representations of hydrologic flow volume or lake basin size as defined in 10 CSR 20-7.031(1)(F). L1: Lakes with drinking water supply - wastewater discharges are not permitted to occur to L1 watersheds per 10 CSR 20-7.015(3)(C); L2: major reservoirs; L3: all other public and private lakes; P: permanent streams; C: streams which may cease flow in dry periods but maintain pools supporting aquatic life; E: streams which do not maintain surface flow; and W: wetland. Losing streams are defined in 10 CSR 20-7.031(1)(O) and are designated on the losing stream dataset or determined by the Department to lose 30% or more of flow to the subsurface.

WBID = Waterbody Identification: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at <a href="ftp://msdis.missouri.edu/pub/Inland">ftp://msdis.missouri.edu/pub/Inland</a> Water Resources/MO 2014 WQS Stream Classifications and Use shp.zip; New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3. as 100K Extent Remaining Streams.

10 CSR 20-7.031(1)(C)1.: **ALP** = Aquatic Life Protection (formerly AQL); current uses are defined to ensure the protection and propagation of fish shellfish and wildlife, further subcategorized as: WWH = Warm Water Habitat; CLH = Cool Water Habitat; CDH = Cold Water Habitat; EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses ALP effluent limitations in 10 CSR 20-7.031 Table A1-B3 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 supporting swimming uses and has public access;

**WBC-B** = whole body contact recreation not included in WBC-A;

**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 and drinking of water;

IRR = irrigation for use on crops utilized for human or livestock consumption, includes aquifers per 10 CSR 20-7.031(6)(A);

LWW = Livestock and Wildlife Watering (current narrative use is defined as LWP = Livestock and Wildlife Protection), includes aquifers per 10 CSR 20-7.031(6)(A);

**DWS** = Drinking Water Supply, includes aquifers per 10 CSR 20-7.031(6)(A);

**IND** = industrial water supply

10 CSR 20-7.031(1)(C)8. to 11.: Wetlands (10 CSR 20-7.031 Tables A1-B3 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 20-7.015(7) and 10 CSR 20-7.031(6): GRW = Groundwater

10 CSR 20-7.031(4): **GEN** = general criteria; acute toxicity criteria applicable to all waters even those lacking designated uses n/a = not applicable

#### **EXISTING WATER OUALITY, UPSTREAM, OR DOWNSTREAM IMPAIRMENTS:**

The permit writer has reviewed upstream and downstream stream segments of this facility for impairments.

- ✓ The permit writer has noted no upstream impairments near this facility.
- ✓ The permit writer has noted downstream of the facility the stream is on the 303(d) list and there is a TMDL.

#### 303(D) LIST:

Section 303(d) of the federal Clean Water Act requires each state identify waters 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 impaired waters not addressed by normal water pollution control programs. <a href="http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm">http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm</a>

✓ Applicable; Muddy Creek is listed on the 2018 Missouri 303(d) list for *E. coli*. This facility is considered a contributor to the impairment, however, the facility is connecting their wastewater discharge to the city of Sedalia and therefore the domestic wastewater discharge will cease in the near future.

#### TOTAL MAXIMUM DAILY LOAD (TMDL):

A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan or TMDL may be developed. The TMDL shall include the WLA calculation. <a href="https://dnr.mo.gov/env/wpp/tmdl/">https://dnr.mo.gov/env/wpp/tmdl/</a>

- Applicable; this facility is located in a watershed with a TMDL. Muddy Creek and Brushy Creek; Pettis County, Missouri. EPA Approved: February 11, 2002.
  - O 1- Name: Muddy Creek. Location: Near Sedalia in Pettis County, Missouri. Hydrologic Unit Code (HUC): 10300103-040003; Water Body Identification (WBID): 0855. Missouri Stream Class: P1. Beneficial Uses: Livestock and Wildlife Watering Protection of Aquatic Life and Human Health associated with Fish Consumption General Warm Water Fishery. Size of Impaired Segment: 1 mile; Location of Impaired Segment: From NW ¼ Section 19, T46N, R21W (downstream) to SE ¼ Section 18, T46N, R21W (upstream). Pollutant: Biochemical Oxygen Demand (BOD); Pollutant Source: Sedalia Central Wastewater Treatment Plant Permit Number: Missouri State Operating Permit No. MO-0023019.
  - O 2- Name: Brushy Creek (Fork). Location: Near Sedalia in Pettis County, Missouri. Hydrologic Unit Code (HUC): 10300103-040003; Water Body Identification (WBID): 0859. Missouri Stream Class: 3.0 miles from the mouth is Class P. The next 0.5 mile is C (Class C streams may cease to flow in dry periods but maintain permanent pools which support aquatic life). Beneficial Uses: Livestock and Wildlife Watering Protection of Aquatic Life and Human Health associated with Fish Consumption Limited Warm Water Fishery. Size of Impaired Segment: 1 mile; Location of Impaired Segment: NW ¼ Section 19, T46N, R21W (mouth) to NW ¼ Section 30, T46N, R21W (upstream). Pollutants: Biochemical Oxygen Demand (BOD) Ammonia (NH3-N) Non-Filterable Residue (NFR). Pollutant Source: Sedalia Central Wastewater Treatment Plant Permit Number: Missouri State Operating Permit No. MO-0023019
- ✓ The facility was not listed as a contributor to the impairments even though the facility discharges these pollutants. The facility is closing the domestic wastewater lagoon, and has a schedule of compliance to do so.

#### WATERS OF THE STATE DESIGNATIONS:

Waters of the state are divided into seven categories per 10 CSR 20-7.015(1)(B) 1. through 7. The applicable water of the state category is listed below. Missouri's technology-based effluent regulations are found in [10 CSR 20-7.015] and are implemented in 10 CSR 20-7.015(2) through (8). When implementing technology regulations, considerations are made for the facility type, discharge type, and category of waters of the state. Effluent limitations may not be applicable to certain waters of the state, facility type, or discharge type. In these cases, effluent limitations may be based on a best professional judgment evaluation. The best professional judgment evaluation will take site specific conditions into consideration; including facility type, the receiving water body classification, and type of discharge. Stormwater discharges and land application sites are not directly subject to limitations found in 10 CSR 20-7.015, but may be subject to limitations determined by the best professional judgment evaluation. Effluent limitation derivations are discussed in Part IV: Effluents Limits Determinations.

✓ All other waters

#### **LAKE NUMERIC NUTRIENT CRITERIA:**

Water quality standards per 10 CSR 20-7.031(5)(N) describe nutrient criteria requirements assigned to lakes (which include reservoirs) in Missouri, equal to or greater than 10 acres during normal pool conditions. The Department's Nutrient Criteria Implementation Plan (NCIP) may be reviewed at: <a href="https://dnr.mo.gov/env/wpp/rules/documents/nutrient-implementation-plan-final-072618.pdf">https://dnr.mo.gov/env/wpp/rules/documents/nutrient-implementation-plan-final-072618.pdf</a> Discharges of wastewater in to lakes or lake watersheds designated as L1 (drinking water use) are prohibited per 10 CSR 20-7.015(3)(C).

✓ Not applicable; this facility does not discharge in a lake watershed or the lake is less than 10 acres.

#### RECEIVING WATERBODY MONITORING REQUIREMENTS:

No receiving water monitoring requirements are recommended at this time.

#### MIXING CONSIDERATIONS:

For all outfalls, mixing zone and zone of initial dilution are not allowed per 10 CSR 20-7.031(5)(A)4.B.(I)(a) and (b), as the base stream flow does not provide dilution to the effluent.

#### PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

#### **ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:**

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

✓ Not applicable; the facility is an existing facility.

#### **ANTIBACKSLIDING:**

Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] require a reissued permit to be as stringent as the previous permit with some exceptions. Backsliding (a less stringent permit limitation) is only allowed under certain conditions.

- ✓ Limitations in this operating permit for the reissuance conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.
  - ✓ The Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
    - The previous permit special conditions contained a specific set of prohibitions related to general criteria (GC) found in 10 CSR 20-7.031(4); however, there was no determination as to whether the discharges have reasonable potential to cause or contribute to excursion of those general water quality criteria in the previous permit. This permit assesses each general criteria as listed in the previous permit's special conditions. Federal regulations 40 CFR 122.44(d)(1)(iii) requires instances where reasonable potential (RP) to cause or contribute to an exceedance of a water quality standard exists, a numeric limitation must be included in the permit. Rather than conducting the appropriate RP determination, the previous permit simply placed the prohibitions in the permit. These conditions were removed from the permit. Appropriate reasonable potential determinations were conducted for each general criterion listed in 10 CSR 20-7.031(4)(A) through (I) and effluent limitations were placed in the permit for those general criteria where it was determined the discharge had reasonable potential to cause or contribute to excursions of the general criteria. Specific effluent limitations were not included for those general criteria where it was determined the discharges will not cause or contribute to excursions of general criteria. Removal of the prohibitions does not reduce the protections of the permit or allow for impairment of the receiving stream. The permit maintains sufficient effluent limitations, monitoring requirements and best management practices to protect water quality while maintaining permit conditions applicable to facility disclosures and in accordance with 10 CSR 20-7.031(4) where no water contaminant by itself or in combination with other substances shall prevent the water of the state from meeting the following conditions:
      - (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.
        - For all outfalls, there is no RP for putrescent bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates putrescent wastewater would be discharged from the facility.
        - For all outfalls, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates unsightly or harmful bottom deposits would be discharged from the facility (after the conclusion of the SOC).
      - (B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses.
        - For all outfalls, there is no RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates oil will be present in sufficient amounts to impair beneficial uses (after the conclusion of the SOC).

- For all outfalls, there is no RP for scum and floating debris in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates scum and floating debris will be present in sufficient amounts to impair beneficial uses.
- (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.
  - For all outfalls, there is no RP for unsightly color or turbidity in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates unsightly color or turbidity will be present in sufficient amounts to impair beneficial uses.
  - For all outfalls, there is no RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates offensive odor will be present in sufficient amounts to impair beneficial uses (after the conclusion of the SOC).
- (D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life.
  - The permit writer considered specific toxic pollutants when writing this permit. Numeric effluent limitations are included for those pollutants could be discharged in toxic amounts. These effluent limitations are protective of human health, animals, and aquatic life.
- (E) Waters shall maintain a level of water quality at their confluences to downstream waters that provides for the attainment and maintenance of the water quality standards of those downstream waters, including waters of another state.
  - This criteria was not assessed for antibacksliding as this is a new requirement, approved by the EPA on July 30, 2019
- (F) There shall be no significant human health hazard from incidental contact with the water.
  - This criterion is very similar to (D) above. See Part IV, Effluent Limits Derivation below.
- (G) There shall be no acute toxicity to livestock or wildlife watering.
  - This criterion is very similar to (D) above. See Part IV, Effluent Limits Derivation below.
- (H) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community.
  - For all outfalls, there is no RP for physical changes impairing the natural biological community because nothing disclosed by the facility indicates this is occurring.
  - It has been established any chemical changes are covered by the specific numeric effluent limitations established in the permit.
  - For all outfalls, there is no RP for hydrologic changes impairing the natural biological community because nothing disclosed by the facility indicates this is occurring.
- (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.
  - There are no solid waste disposal activities or any operation which has reasonable potential to cause or contribute to the materials listed above being discharged through any outfall.
- The previous permit special condition stated: "Any pesticide discharge from any point source shall comply with the requirements of Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label."
  - The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
- The previous permit special condition indicated spills from hazardous waste substances must be reported to the department. However, this condition is covered under standard conditions therefore was removed from special conditions.
- Precipitation monitoring was removed; the facility's SWPPP requires a record of this data, andthis data is not necessary to be transmitted to the department, as it is readily available online. Maintaining records of precipitation events is important; determining specific BMPs, determining if they are sufficient for the site, and determining if the BMPs are functioning as designed all are tied to precipitation volume and duration. BMPs which may work for high volume, low duration, may not also work for low volume, high duration. It is important for the facility to understand how the stormwater flow at the site behaves and implement the BMPs appropriately; therefore the precipitation requirement in the SWPPP is continued, while the requirement to report the precipitation to the Department is removed.

#### **ANTIDEGRADATION REVIEW:**

Process water discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if 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 <a href="http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm">http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm</a>

Not applicable; the facility has not submitted information proposing expanded or altered process water discharge; no further degradation proposed therefore no further review necessary.

This permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) which must include an alternative analysis (AA) of the BMPs. The SWPPP must be developed, implemented, updated, and maintained at the facility. Failure to implement and maintain the chosen alternative, is a permit violation. The AA is a structured evaluation of BMPs to determine which are reasonable and cost effective. Analysis should include practices designed to be 1) non-degrading, 2) less degrading, or 3) degrading water quality. The chosen BMP will be the most reasonable and cost effective while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The analysis must demonstrate why "no discharge" or "no exposure" are not feasible alternatives at the facility. Existing facilities with established SWPPPs and BMPs need not conduct an additional alternatives analysis unless new BMPs are established to address BMP failures or benchmark exceedances. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.015(9)(A)5 and 7.031(3). For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the AA performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

✓ Applicable; the facility must consider this in the SWPPP.

#### **BEST MANAGEMENT PRACTICES:**

Minimum site-wide best management practices are established in this permit to ensure all facilities are managing their sites equally to protect waters of the state from certain activities which could cause negative effects in receiving water bodies. While not all sites require a SWPPP because the SIC codes are specifically exempted in 40 CFR 122.26(b)(14), these best management practices are not specifically included for stormwater purposes. These practices are minimum requirements for all industrial sites to protect waters of the state. If the minimum best management practices are not followed, the facility may violate general criteria [10 CSR 20-7.031(4)]. Statutes are applicable to all permitted facilities in the state, therefore pollutants cannot be released unless in accordance with RSMo 644.011 and 644.016 (17).

#### **COST ANALYSIS FOR COMPLIANCE (CAFCOM):**

Pursuant to Section 644.145, RSMo, when incorporating a new requirement for discharges from publicly owned facilities, 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 facility, 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 not including new requirements may be deemed affordable.

✓ The Department is not required to complete a cost analysis for compliance because the facility is not publicly owned.

#### CHANGES IN DISCHARGES OF TOXIC POLLUTANT:

This special condition reiterates the federal rules found in 40 CFR 122.44(f) and 122.42(a)(1). In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "...any pollutant listed as toxic under section 307(a)(1) or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters found in 40 CFR 401.15. The facility should also consider any other toxic pollutant in the discharge as reportable under this condition.

#### 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.

✓ Not applicable; the facility is not currently under Water Protection Program enforcement action.

#### DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS:

Domestic wastewater is defined as wastewater (i.e., human sewage) originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, animal waste, process waste, and other similar waste.

✓ Applicable; this facility uses a lagoon system which the Department of Natural Resources must authorize in accordance with 19 CSR 20-3.060(6)(D) as Department of Health and Senior Services rules only provide for the use of a lagoon for single residences. This facility has coordinated with the city of Sedalia to hook up the domestic wastewater under consolidation requirements; thereby the lagoon and the domestic wastewater will be closed in accordance with 10 CSR 20-6.010(12). See SCHEDULE OF COMPLIANCE in this section.

Sewage sludge is solid, semi-solid, 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 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. Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for productive use (i.e. fertilizer) and after having pathogens removed.

Additional information: http://extension.missouri.edu/main/DisplayCategory.aspx?C=74 (WQ422 through WQ449).

- ✓ Applicable; this permit authorizes surficial land application of biosolids in accordance with Standard Conditions III.
- ✓ Applicable, sludge/biosolids/septage are currently stored in the lagoon, but will be required to be removed after the facility connects to the Sedalia lift station for the domestic wastewater. At that time, the facility must close the lagoon in accordance with 10 CSR 20-6.010(12); at this time, the permit authorizes removal by contract hauler. See Standard Conditions Part III as incorporated into this permit. See SCHEDULE OF COMPLIANCE in this section.

#### **EFFLUENT LIMITATIONS:**

Effluent limitations derived and established for this permit are based on current operations of the facility and applied per 10 CSR 20-7.015(9)(A) as applicable. Any flow through the outfall is considered a discharge and must be sampled and reported as provided in the permit. Future permit action due to facility modification may contain new operating permit terms and conditions which supersede the terms and conditions, including effluent limitations, of this operating permit. Daily maximums and monthly averages are required per 40 CFR 122.45(d)(1) for continuous discharges (not from a POTW).

#### 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. The 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 facilities to begin submitting discharge monitoring data and reports online.

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 facility must first submit an eDMR Waiver Request Form: <a href="http://dnr.mo.gov/forms/780-2692-f.pdf">http://dnr.mo.gov/forms/780-2692-f.pdf</a>. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is not 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.

To assist the facility in entering data into the eDMR system, the permit describes limit sets in each table in Part A of the permit. The data entry personnel should use these identifiers to ensure data entry is being completed appropriately.

✓ The facility is currently using the eDMR data reporting system.

#### FEDERAL EFFLUENT LIMITATION GUIDELINE:

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. All are technology based limitations which must be met by the applicable facility at all times.

✓ The facility does have an associated ELG [40 CFR 420] but does not discharge process wastewaters therefore is not implemented in this permit.

#### GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). In instances where reasonable potential exists, the permit includes limitations within the permit to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to impact the narrative criteria. Additionally, RSMo 644.076.1, as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission. See Part IV for specific determinations.

#### **GROUNDWATER MONITORING:**

Groundwater is a water of the state according to RSMo 644.016(27), is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6), and must be protected accordingly.

✓ This facility is not required to monitor groundwater for the water protection program.

#### LAND APPLICATION:

Land application, or surficial dispersion of wastewater and/or sludge, is performed by facilities to maintain a basin as no-discharge. Requirements for these types of operations are found in 10 CSR 20-6.015; authority to regulate these activities is from RSMo 644.026.

- ✓ Not applicable; this permit does not authorize operation of a surficial land application system to disperse wastewater or sludge.
- ✓ This permit does not authorize land disposal or the application of hazardous waste.

#### LAND DISTURBANCE:

Land disturbance, sometimes called construction activities, are actions which cause disturbance of the root layer or soil; these include clearing, grading, and excavating of the land. 40 CFR 122.26(b)(14) and 10 CSR 20-6.200(3) requires permit coverage for these activities. Coverage is not required for facilities when only providing maintenance of original line and grade, hydraulic capacity, or to continue the original purpose of the facility.

✓ Not applicable; this permit does not provide coverage for land disturbance activities. The facility may obtain a separate land disturbance permit (MORA) online at <a href="https://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm">https://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm</a>; MORA permits do not cover disturbance of contaminated soils, however, site specific permits such as this one can be modified to include appropriate controls for land disturbance of contaminated soils by adding site-specific BMP requirements and additional outfalls.

#### **MAJOR WATER USER:**

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. All major water users are required by law to register water use annually (Missouri Revised Statues Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). <a href="https://dnr.mo.gov/pubs/pub2236.htm">https://dnr.mo.gov/pubs/pub2236.htm</a>

✓ Not applicable; this facility cannot withdraw water from the state in excess of 70 gpm/0.1 MGD. This facility uses municipal potable water for the purposes of cooling.

#### **MODIFICATION REQUESTS:**

Facilities have the option to request a permit modification from the Department at any time under RSMo 644.051.9 Requests must be submitted to the Water Protection Program with the appropriate forms and fees paid per 10 CSR 20-6.011. It is recommended facilities contact the permit writer early so the correct forms and fees are submitted, and the modification request can be completed in a timely fashion. Minor modifications, found in 40 CFR 122.63, are processed without the need for a public comment period. Major modifications, those requests not explicitly fitting under 40 CFR 122.36, do require a public notice period. Modifications to permits should be completed when: a new pollutant is found in the discharge; operational or functional changes occur which affect the technology, function, or outcome of treatment; the facility desires alternate numeric benchmarks; or other changes are needed to the permit.

Modifications are not required when utilizing or changing additives in accordance with the publication <a href="https://dnr.mo.gov/pubs/pub2653.htm">https://dnr.mo.gov/pubs/pub2653.htm</a> nor are required when a temporary change or provisional discharge has been authorized by the regional office. While provisional discharges may be authorized by the regional office, they will not be granted for more than the time necessary for the facility to obtain an official modification from the Water Protection Program. Temporary provisional discharges due to weather events or other unforeseen circumstances may or may not necessitate a permit modification. The facility may ask for a Compliance Assistance Visit (CAV) from the regional office to assist in the decision-making process; CAVs are provided free to the permitted entity.

#### **NUTRIENT MONITORING:**

Nutrient monitoring is required for facilities characteristically or expected to discharge nutrients (nitrogenous compounds and/or phosphorus) when the design flow is equal to or greater than 0.1 MGD per 10 CSR 20-7.015(9)(D)8.

✓ This facility is becoming a stormwater only permit therefore not subject to provisions found in 10 CSR 20-7.015 per 10 CSR 20-7.015(1)(C). Data obtained for the first year of the permit, if implemented, would not be valid after the SOC is completed.

#### **OIL/WATER SEPARATORS:**

Oil water separator (OWS) tank systems are frequently found at industrial sites where process water and stormwater may contain oils and greases, oily wastewaters, or other immiscible liquids requiring separation. Food industry discharges typically require pretreatment prior to discharge to municipally owned treatment works. Per 10 CSR 26-2.010(2)(B), all oil water separator tanks must be operated according to manufacturer's specifications and authorized in NPDES permits per 10 CSR 26-2.010(2) or may be regulated as a petroleum tank.

✓ Not applicable; the facility has not disclosed the use of any oil water separators they wish to include under the NPDES permit at this facility and therefore oil water separator tanks are not authorized by this permit.

#### **OPERATOR CERTIFICATION REQUIREMENTS:**

Operators or supervisors of operations at regulated domestic wastewater treatment facilities shall be certified in accordance with 10 CSR 20-9 and any other applicable state law or regulation.

✓ Not applicable; this facility is not required to have a certified operator. This permit does not cover domestic wastewater or the domestic wastewater population equivalent (PE) is less than two hundred (200). Additionally, this facility is not owned or operated by a municipality, public sewer district, county, public water supply district, or private sewer company regulated by the Public Service Commission, or operated by a state or federal agency.

#### **PRETREATMENT:**

This permit does not regulate pretreatment requirements for facilities discharging to an accepting permitted wastewater treatment facility. If applicable, the receiving entity (the publicly owned treatment works - POTW) is to ensure compliance with any effluent limitation guidelines for pretreatment listed in 40 CFR Subchapter N per 10 CSR 20-6.100. Pretreatment regulations per RSMo 644.016 are limitations on the introduction of pollutants or water contaminants into publicly owned treatment works or facilities.

✓ Applicable; this entity reported categorical wastewater is discharged to a POTW and falls under 40 CFR 420 requiring pretreatment requirements.

#### REASONABLE POTENTIAL (RP):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit in mixing zones. If the permit writer determines 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 the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A). Permit writers may use mathematical reasonable potential analysis (RPA) using the Technical Support Document for Water Quality Based Toxics Control (TSD) methods (EPA/505/2-90-001) as found in Section 3.3.2, or may also use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD.

- ✓ Applicable; the permit writer conducted an RPD on applicable parameters within the permit. See Part IV: Effluent Limits Determinations below.
- ✓ A mathematical RPA was not conducted for this facility. After the schedule of compliance completion date, this permit becomes a stormwater-only permit. This permit establishes permit limits and benchmarks for stormwater. The Department has determined stormwater is not a continuous discharge and is therefore not necessarily dependent on mathematical RPAs. However, the permit writer completed an RPD, a reasonable potential determination, using best professional judgment for all of the appropriate parameters in this permit. An RPD consists of reviewing application data and/or discharge monitoring data for the last five years and comparing those data to narrative or numeric water quality criteria.
- ✓ Permit writers use the Department's permit writer's manual (<a href="https://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm">https://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm</a>), the EPA's permit writer's manual (<a href="https://www.epa.gov/npdes/npdes-permit-writers-manual">https://www.epa.gov/npdes/npdes-permit-writers-manual</a>), program policies, and best professional judgment. For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, stream flows and uses, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling. Best professional judgment is based on the experience of the permit writer, cohorts in the Department and resources at the EPA, research, and maintaining continuity of permits if necessary. For stormwater permits, the permit writer is required per 10 CSR 6.200(6)(B)2 to consider: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment of the permit writer; D. water quality; and E. BMPs. Part IV provides specific decisions related to this permit.

#### **RENEWAL REQUIREMENTS:**

The renewal special condition permit requirement is designed to guide the facility to prepare and include all relevant and applicable information in accordance with 10 CSR 20-6.010(7)(A)-(C), and if applicable, federal regulations. The special condition may not include all requirements and requests for additional information may be made at the time of permit renewal under RSMo 644.051.13(5) and 40 CFR 122.21(h). Prior to submittal, the facility must review the entire submittal to confirm all required information and data is provided; it is the facility's responsibility to discern if additional information is required. Failure to fully disclosure applicable information with the application or application addendums may result in a permit revocation per 10 CSR 20-6.010(8)(A) and may result in the forfeiture of permit shield protection authorized in RSMo 644.051.16.

#### SAMPLING FREQUENCY JUSTIFICATION:

Sampling and reporting frequency was generally retained from previous permit. 40 CFR 122.45(d)(1) indicates all continuous discharges shall be permitted with daily maximum and monthly average limits. Minimum sampling frequency for all parameters is annually per 40 CFR 122.44(i)(2).

Sampling frequency for stormwater-only outfalls is typically quarterly even though BMP inspection occurs monthly. The facility may sample more frequently if additional data is required to determine if best management operations and technology are performing as expected.

#### **SAMPLING TYPE JUSTIFICATION:**

Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent should have composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others. For further information on sampling and testing methods see 10 CSR 20-7.015(9)(D)2.

#### SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, 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. SOCs are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met. An 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 in accordance with 40 CFR 125.3.
- For a newly constructed facility in most cases per RSMo 644.029. Newly constructed facilities must meet all applicable effluent limitations (technology and water quality) when discharge begins. New facilities are required to install the appropriate control technologies as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit 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 associated with development of a site specific criterion. 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 in developing SOCs, and to attain a greater level of consistency, the Department issued a policy on development of SOCs on October 25, 2012. The policy provides guidance to permit writers on standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

Applicable; the time given for effluent limitations of this permit listed under Interim Effluent Limitations and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)]. The facility has been given a schedule of compliance to close down the domestic lagoon onsite. This facility is connecting the domestic wastewater to the city of Sedalia. The previous schedule included in this permit ended at March 31, 2021; however the facility has requested additional time due to unforeseen events, such as the COVID pandemic. The facility supplied the city ordinance (essentially a contract) between the City and HDR Engineering to construct the lift station. The facility also supplied a timeline as an overview of their connection schedule. Construction is scheduled to be completed on December 31, 2021, therefore the schedule will be extended to January 31, 2022. If the lift station is completed prior to this date, and the facility has the opportunity to connect prior, then the facility must connect as soon as this is achievable. This permit prohibits discharge from outfall #001 on or after February 1, 2022.

#### SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING:

Per 260.505 RSMo, any emergency involving a hazardous substance must be reported to the Department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest practicable moment after discovery. The Department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the noncompliance reporting requirement found in Standard Conditions Part I. <a href="https://dnr.mo.gov/env/esp/spillbill.htm">https://dnr.mo.gov/env/esp/spillbill.htm</a>

Any other spills, overflows, or unauthorized discharges reaching waters of the state must be reported to the regional office during normal business hours, or after normal business hours, to the Department's 24 hour Environmental Emergency Response spill line at 573-634-2436.

#### **SLUDGE – INDUSTRIAL:**

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge. Industrial sludge could also be derived from lagoon dredging or other similar maintenance activities.

✓ Not applicable; industrial sludge is not generated at this facility.

#### **STANDARD CONDITIONS:**

The standard conditions Part I attached to this permit incorporate all sections of 10 CSR 20-6.010(8) and 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions should be reviewed by the facility to ascertain compliance with this permit, state regulations, state statues, federal regulations, and the Clean Water Act. Standard Conditions Part III, if attached to this permit, incorporate requirements dealing with domestic wastewater, domestic sludge, and land application of domestic wastes.

#### STORMWATER PERMITTING: LIMITATIONS AND BENCHMARKS:

Because of the fleeting nature of stormwater discharges, the Department, under the direction of EPA guidance, has determined monthly averages are capricious measures of stormwater-only discharges. The *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001; 1991) Section 3.1 indicates most procedures within the document apply only to water quality based approaches, not end-of-pipe technology-based controls. Hence, stormwater-only outfalls will generally only contain a maximum daily limit (MDL), a benchmark, or a monitoring requirement as dictated by site specific conditions, the BMPs in place, the BMPs proposed, past performance of the facility, and the receiving water's current quality.

Sufficient rainfall to cause a discharge for one hour or more from a facility would not necessarily cause significant flow in a receiving stream. Acute Water Quality Standards (WQSs) are based on one hour of exposure, and must be protected at all times. Therefore, industrial stormwater facilities with toxic contaminants present in the stormwater may have the potential to cause a violation of acute WQSs if toxic contaminants occur in sufficient amounts. In this instance, the permit writer may apply daily maximum limitations.

Conversely, it is unlikely for rainfall to cause a discharge for four continuous days from a facility; if this does occur however, the receiving stream will also likely sustain a significant amount of flow providing dilution. Most chronic WQSs are based on a four-day exposure with some exceptions. Under this scenario, most industrial stormwater facilities have limited potential to cause a violation of chronic water quality standards in the receiving stream.

A standard mass-balance equation cannot be calculated for stormwater because stormwater flow and flow in the receiving stream cannot be determined for conditions on any given day or storm event without real-time ad-hoc monitoring. The amount of stormwater discharged from the facility will vary based on current and previous rainfall, soil saturation, humidity, detention time, BMPs, surface permeability, etc. Flow in the receiving stream will vary based on climatic conditions, size of watershed, area of surfaces with reduced permeability (houses, parking lots, and the like) in the watershed, hydrogeology, topography, etc. Decreased permeability may increase the stream flow dramatically over a short period of time (flash).

Numeric benchmark values are based on site specific requirements taking in to account a number of factors but cannot be applied to any process water discharges. First, the technology in place at the site to control pollutant discharges in stormwater is evaluated. The permit writer also evaluates other similar permits for similar activities. A review of the guidance forming the basis of Environmental Protection Agency's (EPA's) *Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity* (MSGP) may also occur. Because precipitation events are sudden and momentary, benchmarks based on state or federal standards or recommendations use the Criteria Maximum Concentration (CMC) value, or acute standard may also be used. The CMC is the estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed briefly without resulting in an unacceptable effect. The CMC for aquatic life is intended to be protective of the vast majority of the aquatic communities in the United States. If a facility has not disclosed BMPs applicable to the pollutants for the site, the facility may not be eligible for benchmarks.

40 CFR 122.44(b)(1) requires the permit implement the most stringent limitations for each discharge, including industrially exposed stormwater; and 40 CFR 122.44(d)(1)(i) and (iii) requires the permit to include water-quality based effluent limitations where reasonable potential has been found. However, because of the non-continuous nature of stormwater discharges, staff are unable to perform statistical Reasonable Potential Analysis (RPA) under most stormwater discharge scenarios. Reasonable potential determinations (RPDs; see REASONABLE POTENTIAL above) using best professional judgment are performed.

Benchmarks require the facility to monitor, and if necessary, replace and update stormwater control measures. Benchmark concentrations are not effluent limitations. A benchmark exceedance, therefore, is not a permit violation; however, failure to take corrective action is a violation of the permit. Benchmark monitoring data is used to determine the overall effectiveness of control measures and to assist the facility in knowing when additional corrective actions may be necessary to comply with the conditions of the permit.

BMP inspections typically occur more frequently than sampling. Sampling frequencies are based on the facility's ability to comply with the benchmarks and the requirements of the permit. Inspections should occur after large rain events and any other time an issue is noted; sampling after a benchmark exceedance may need to occur to show the corrective active taken was meaningful.

When a permitted feature or outfall consists of only stormwater, a benchmark may be implemented at the discretion of the permit writer, if there is no RP for water quality excursions.

✓ Applicable, this facility has stormwater-only outfalls where benchmarks or limitations were deemed appropriate contaminant measures.

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

In accordance with 40 CFR 122.44(k), Best Management Practices (BMPs) must be used 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*, (EPA 833-B-09-002) published by the EPA in 2015 <a href="https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf">https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf</a>, BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. 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 storm water discharges. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

A SWPPP must be prepared by the facility if the SIC code is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. 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 facility 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 reevaluate 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 which are reasonable and cost effective. The AA evaluation should include practices 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 benchmark exceedances continue to occur and the facility 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 facility 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, which includes an appropriate fee; the application is found at: <a href="https://dnr.mo.gov/forms/#WaterPollution">https://dnr.mo.gov/forms/#WaterPollution</a>

✓ Applicable; a SWPPP shall be developed and implemented for this facility; see specific requirements in the SPECIAL CONDITIONS section of the permit.

#### SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:

Please review Standard Conditions Part 1, section A, number 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 unless alternates are approved by the Department and incorporated within this permit. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the

concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations 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 quantifies the pollutant below the level of the applicable water quality criterion 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 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 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A facility is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive.

#### **UNDERGROUND INJECTION CONTROL (UIC):**

The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to section 1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by RSMo 577.155; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in RSMo 577.155; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the facility shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: http://dnr.mo.gov/forms/780-1774-f.pdf Single family residential septic systems and nonresidential septic systems used solely for sanitary waste and having the capacity to serve fewer than 20 persons a day are excluded from the UIC requirements (40 CFR 144.81(9)).

✓ Not applicable; the facility has not submitted materials indicating the facility will be performing UIC at this site.

#### VARIANCE:

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 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.

Not applicable; this permit is not drafted under premise of a petition for variance.

#### WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010; definitions], the WLA is the amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. If one limit does not provide adequate protection for the receiving water, then the other must be used per 10 CSR 20-7.015(9)(A). Total Maximum Daily Loads, if required for this facility, were also reviewed.

V Not applicable; wasteload allocations were either not calculated or were not based on standard TSD methods.

#### WASTELOAD ALLOCATION (WLA) MODELING:

Facilities may submit site specific studies to better determine the site specific wasteload allocations applied in permits.

✓ Not applicable; a WLA study was either not submitted or determined not applicable by Department staff.

#### 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 changing twenty-five percent or more since the previous operating permit.

#### PART IV. EFFLUENT LIMITS DETERMINATIONS

#### OUTFALL #001 - DOMESTIC WASTEWATER

Discharge on or after February 1, 2022 is not authorized.

#### **EFFLUENT LIMITATIONS TABLE:**

PARAMETERS	Unit	Daily Max	WEEKLY AVERAGE	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE Type
PHYSICAL								
FLOW	MGD	*	1	*	SAME	ONCE/QUARTER	ONCE/QUARTER	24 Hr. Tot
CONVENTIONAL								
BOD <sub>5</sub>	MG/L		65	45	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
E. COLI (CFU/100ML)	‡	*	-	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL & GREASE	MG/L	15	-	10	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
РΗ †	SU	>6.5	-	>6.5	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
TSS	MG/L	-	110	70	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Nutrients								
Ammonia as N	MG/L	*	-	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

- \* monitoring and reporting requirement only
- † report the maximum pH value; pH is not to be averaged
- # of colonies/100mL; the Monthly Average for E. coli is a geometric mean.

#### 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. The facility will report the total flow in millions of gallons per day (MGD).

#### **Biochemical Oxygen Demand (BOD5)**

10 CSR 20-7.015(8)(A)3.D.II.(a) - 65 mg/L as a weekly average and 45 mg/L as a monthly average. Previous permit limitations were 42 mg/L weekly average, and 30 mg/L monthly average. Quarterly monitoring and reporting continued from previous permit.

#### Escherichia coli (E. coli)

A daily maximum of 1030 bacteria per 100 mL and a monthly geometric mean of 206 bacteria per 100 mL –only during the recreational season (April 1 through October 31), to protect Whole Body Contact (B) designated use of the receiving stream, as per 10 CSR 20-7.031(5)(C). 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  $n^{th}$  root of this product, where n = # of samples collected. For example: Five *E. coli* samples were collected with results of 1, 4, 5, 6, and 10 (#/100 mL). Geometric mean  $= 5^{th}$  root of  $(1)(4)(5)(6)(10) = 5^{th}$  root of 1,200 = 4.1 #/100 mL. SOC continues and completes at the date listed in the permit. Quarterly monitoring and reporting; a sample is required in October.

#### Oil & Grease

Conventional pollutant, in accordance with 10 CSR 20-7.031 Table A: *Criteria for Designated Uses*; 10 mg/L monthly average (chronic standard). The daily maximum was calculated using the *Technical Support Document for Water Quality-Based Toxics Control* (EPA/505/2-90-001). Section 5.4.2 indicates the waste load allocation can be set to the chronic standard. When the chronic standard is multiplied by 1.5, the daily maximum can be calculated. Hence, 10 \* 1.5 = 15 mg/L for the daily maximum. Limits unchanged from previous permit. Quarterly monitoring and reporting continued from previous permit

#### pН

Previous permit limitations were to maintain pH above 6.5 SU per 10 CSR 20-7.015(8)(A)3. A. for lagoons; these limits are continued. Quarterly monitoring and reporting continued from previous permit.

#### **Total Suspended Solids (TSS)**

10 CSR 20-7.015(8)(A)3.D.II.(a) - 110 mg/L weekly average and 70 mg/L monthly average. Previous permit limitations were the same and remain protective of the receiving waters. Quarterly monitoring and reporting continued from previous permit.

#### **NUTRIENTS:**

#### Ammonia, as N

Previous permit was monitoring only until the end of the schedule of compliance. As this permit is extending the SOC; to a final determination of lagoon closure, monitoring is continued until discharge must cease.

#### OUTFALLS #002, #003, AND #004 - STORMWATER ONLY

Add tables and parameters as necessary

#### **EFFLUENT LIMITATIONS TABLE:**

EFFLUENT LIMITATIONS	Indee.						
PARAMETERS	Unit	Daily Maximum Limit	BENCH- MARK	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	-	SAME	ONCE/QUARTER	QUARTERLY	24 HR. ESTIMATE
CONVENTIONAL							
COD	mg/L	**	120	SAME	ONCE/QUARTER	QUARTERLY	GRAB
OIL & GREASE	mg/L	**	10	SAME	ONCE/QUARTER	QUARTERLY	GRAB
pH <sup>†</sup>	SU	6.5 то 9.0	1	SAME	ONCE/QUARTER	QUARTERLY	GRAB
TSS	mg/L	**	100	SAME	ONCE/QUARTER	QUARTERLY	GRAB
METALS							
IRON, TR	μg/L	**	7380	*	ONCE/QUARTER	QUARTERLY	GRAB
Lead, TR	μg/L	**	22	*	ONCE/QUARTER	QUARTERLY	GRAB
ZINC, TR	μg/L	**	308	*	ONCE/QUARTER	QUARTERLY	GRAB

- \* monitoring and reporting requirement only
- \*\* monitoring with associated benchmark
- † report the minimum and maximum pH values; pH is not to be averaged
- TR total recoverable

#### **DERIVATION AND DISCUSSION OF LIMITS:**

#### PHYSICAL:

#### **Flow**

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to ensure compliance with permitted effluent limitations. If the facility is unable to obtain effluent flow, then it is the responsibility of the facility to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), quarterly monitoring continued from previous permit.

#### **CONVENTIONAL:**

#### **Chemical Oxygen Demand (COD)**

Monitoring with 120 mg/L daily maximum benchmark continued from the previous permit is included using the permit writer's best professional judgment. The facility reported from non-detect to 58.3 mg/L. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter in stormwater. COD monitoring allows the facility to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. The benchmark value falls within the range of values implemented in other permits having similar industrial activities and is achievable through proper BMP controls.

#### Oil & Grease

Monitoring with a daily maximum benchmark of 10 mg/L. The facility reported from non-detect to 5.3 mg/L for this parameter. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or toluene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for* 

Designated Uses; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities.

#### pН

6.5 to 9.0 SU – instantaneous grab sample continued from previous permit. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. The facility reported from 5.7 to 7.91 SU. The facility reported below 6.0 during the last permit term; once at each outfalls #002, #003, and #004, all in first quarter 2019. pH is a fundamental water quality indicator. Additionally, metals leachability in stormwater is dependent on pH. Limitations in this permit will protect against aquatic organism toxicity, downstream water quality issues, human health hazard contact, and negative physical changes in accordance with the general criteria at 10 CSR 20-7.031(4) and the Clean Water Act's (CWA) goal of 100% fishable and swimmable rivers and streams.

#### **Total Suspended Solids (TSS)**

Monitoring with a daily maximum benchmark of 100 mg/L, continued from previous permit and implemented per best professional judgment. The facility reported from non-detect to 1420 mg/L. The TSS in the stormwater at this site is highly variable. Progress should be made to determine the causes of high TSS (above 200 mg/L) while attempting to meet 100 mg/L as the benchmark. Because of the highly variable TSS at this site, this permit will require the facility to submit all Corrective Action Reports (CARs) over the next permit term. The facility may also ask the regional office for a Compliance Assistance Visit (CAV) where the facility can discuss methods of treatment for TSS in stormwater which may be appropriate for the site. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the facility to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities.

#### **METALS:**

#### Iron, Total Recoverable

Previous permit requirements were monitoring only; the facility reported between non-detect and 36,900  $\mu$ g/L for this parameter. A review of the satellite imagery did not indicate an issue with general criteria; no staining was observed. When applying for a stormwater permit under 40 CFR 122.26, facilities must have a plan in place that describes actions, procedures, control techniques, management practices, and equipment available to prevent illegal discharge of pollutants into waterways. A numeric benchmark was developed for this parameter. This level is attainable by utilizing common stormwater treatment methods such as filter socks, drain inlet filters, or detention basins. The facility should review the current BMPs at the site and compare them to BMPs available specifically for treatment of this metal. The facility will need to assure the BMP chosen also receives the appropriate maintenance and the facility may need to implement a replacement schedule for any impermanent treatment devices. The facility must investigate and implement appropriate BMPs for source of iron at the site. The chosen BMP will be maintained per manufacturer's specifications. The facility may consider removing the sources of iron in stormwater at the site or consider covering the sources. The benchmark for this metal was based on product testing for filter socks. Filter socks are readily available, have a low cost, and are easily implementable with little infrastructure changes. Stormwater filter socks remove up to 90% of metals in the stormwater. The maximum of the discharges is  $36,900~\mu$ g/L. Assuming an 80% removal rate, the new target benchmark is set at 7380  $\mu$ g/L As with all technology requirements, the facility is not required to use the specific technology chosen, only that the BMPs chosen for the site will meet the numeric requirement in the permit.

#### Lead, Total Recoverable

Previous permit requirements were monitoring only; the facility reported between non-detect and  $109 \,\mu\text{g/L}$  for this parameter. When applying for a stormwater permit under 40 CFR 122.26, facilities must have a plan in place that describes actions, procedures, control techniques, management practices, and equipment available to prevent illegal discharge of pollutants into waterways. A numeric benchmark was developed for this parameter. The facility should review the current BMPs at the site and compare them to BMPs available specifically for treatment of this metal. The facility will need to assure the BMP chosen also receives the appropriate maintenance and the facility may need to implement a replacement schedule for any impermanent treatment devices. The benchmark for this metal was based on product testing for filter socks. Filter socks are readily available, have a low cost, and are easily implementable with little infrastructure changes. Stormwater filter socks remove up to 90% of metals in the stormwater. The maximum of the discharges is  $109 \,\mu\text{g/L}$ . Assuming a conservative 80% removal rate, the new target benchmark is set at  $22 \,\mu\text{g/L}$  (21.8  $\,\mu\text{g/L}$  rounded). As with all technology requirements, the facility is not required to use the

specific technology chosen, only that the BMPs chosen for the site will meet the numeric requirement in the permit. This level is attainable by utilizing common stormwater treatment methods such as filter socks, drain inlet filters, or detention basins.

#### Zinc, Total Recoverable

Previous permit requirements were monitoring only; the facility reported between non-detect and 1540  $\mu$ g/L for this parameter. When applying for a stormwater permit under 40 CFR 122.26, facilities must have a plan in place that describes actions, procedures, control techniques, management practices, and equipment available to prevent illegal discharge of pollutants into waterways. A numeric benchmark was developed for this parameter. This level is attainable by utilizing common stormwater treatment methods such as filter socks, drain inlet filters, or detention basins. The facility should review the current BMPs at the site and compare them to BMPs available specifically for treatment of this metal. The facility will need to assure the BMP chosen also receives the appropriate maintenance and the facility may need to implement a replacement schedule for any impermanent treatment devices. The benchmark for this metal was based on product testing for filter socks. Filter socks are readily available, have a low cost, and are easily implementable with little infrastructure changes. Stormwater filter socks remove up to 90% of metals in the stormwater. The maximum of the discharges is 1540  $\mu$ g/L. Assuming an 80% removal rate, the new target benchmark is set at 308  $\mu$ g/L As with all technology requirements, the facility is not required to use the specific technology chosen, only that the BMPs chosen for the site will meet the numeric requirement in the permit.

#### PART V. 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.

#### 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 all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. <a href="http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf">http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf</a>. 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 two years old, such 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.

✓ This permit will maintain synchronization by expiring the end of the 4th quarter, 2026; or in 5 years.

#### **PUBLIC NOTICE:**

The Department shall give public notice 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 or with 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 facility must be notified of the denial in writing. <a href="http://dnr.mo.gov/env/wpp/permits/pn/index.html">http://dnr.mo.gov/env/wpp/permits/pn/index.html</a>

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 started November 20, 2020 and ended December 21, 2020. No comments were received.

DATE OF FACT SHEET: DECEMBER 22, 2020

#### COMPLETED BY:

PAM HACKLER, ENVIRONMENTAL SCIENTIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 526-3386 pam.hackler@dnr.mo.gov



## THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

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.

- 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.
- 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 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.

#### Illegal Activities.

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

#### Section B – Reporting Requirements

#### 1. Planned Changes.

- a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
  - 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.



## THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
  - 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.
- 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
- 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.
- Monitoring results shall be reported to the Department no later than the 28<sup>th</sup> 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.

- 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:
  - 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
  - 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:
  - 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 Section D – Administrative Requirements, paragraph 4.
- 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

- 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



## THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

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 II 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 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.)
- 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.
- 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.

- 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;
  - Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
  - 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.
- Property Rights. This permit does not convey any property rights of any sort, or any exclusive privilege.



## THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

- 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;
  - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

#### 12. Closure of Treatment Facilities.

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

#### 13. Signatory Requirement.

- 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.

## THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION August 1, 2019

#### 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.
- 7. 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 PART III, 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 PART III 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 until soil, weather, and crop conditions are favorable for land application.
- 4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 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.
- 2. 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 AND BIOSOLIDS AND SLUDGE LAGOONS

- 1. 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.

TABLE 1

Biosolids ceiling concentration					
Pollutant	Milligrams per kilogram dry weight				
Arsenic	75				
Cadmium	85				
Copper	4,300				
Lead	840				
Mercury	57				
Molybdenum	75				
Nickel	420				
Selenium	100				
Zinc	7,500				

d. Table 2 below gives the low metal concentration for biosolids. Because of its higher quality, biosolids with pollutant concentrations below those listed in Table 2 can safely be applied to agricultural land, forest, public contact sites, lawns, home gardens or be given away without further analysis. Biosolids containing metals in concentrations above the low metals concentrations but below the ceiling concentration limits may be land applied but shall not exceed the annual loading rates in Table 3 and the cumulative loading rates in Table 4. The permittee is required to track polluntant loading onto application sites for parameters that have exceeded the low metal concentration limits.

TABLE 2

IABLE Z					
Biosolids Low Metal Concentration					
Pollutant	Milligrams per kilogram dry weight				
Arsenic	41				
Cadmium	39				
Copper	1,500				
Lead	300				
Mercury	17				
Nickel	420				
Selenium	100				
Zinc	2,800				

e. Annual pollutant loading rate.

Table 3

Biosolids Annual Loading Rate					
Pollutant	Kg/ha (lbs./ac) per year				
Arsenic	2.0 (1.79)				
Cadmium	1.9 (1.70)				
Copper	75 (66.94)				
Lead	15 (13.39)				
Mercury	0.85 (0.76)				
Nickel	21 (18.74)				
Selenium	5.0 (4.46)				
Zinc	140 (124.96)				

f. Cumulative pollutant loading rates.

Table 4

Biosolids Cumulative Pollutant Loading Rate					
Pollutant	Kg/ha (lbs./ac)				
Arsenic	41 (37)				
Cadmium	39 (35)				
Copper	1500 (1339)				
Lead	300 (268)				
Mercury	17 (15)				
Nickel	420 (375)				
Selenium	100 (89)				
Zinc	2800 (2499)				

- 6. Best Management Practices. The permittee shall use the following best management practices during land application activities to prevent the discharge of biosolids to waters of the state.
  - a. Biosolids shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under § 4 of the Endangered Species Act or its designated critical habitat.
  - $b. \quad Apply \ biosolids \ only \ at the \ agronomic \ rate \ of \ nitrogen \ needed \ (see \ 5.c. \ of \ this \ section).$
  - c. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop

nitrogen removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kgTN; or 2) When biosolids are land applied at an application rate greater than two dry tons per acre per year.

- i. PAN can be determined as follows:
  - (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor  $^{1}$ ).

    Volatilization factor is 0.7 for surface application and 1 for subsurface application. Alternative volitalization factors and mineralization rates can be utilized on a case-by-case basis.
- ii. Crop nutrient production/removal to be based on crop specific nitrogen needs and realistic yield goals. NO TE: There are a number of reference documents on the Missouri Department of Natural Resources website that are informative to implement best management practices in the proper management of biosolids, including crop specific nitrogen needs, realistic yields on a county by county basis and other supporting references.
- iii. Biosolids that are applied at agronomic rates shall not cause the annual pollutant loading rates identified in Table 3 to be exceeded.
- d. Buffer zones are as follows:
  - i. 300 feet of a water supply well, sinkhole, water supply reservoir or water supply intake in a stream;
  - 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstandingstate resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
  - iii. 150 feet of dwellings or public use areas;
  - iv. 100 feet (35 feet if biosolids application is down-gradient or the buffer zone is entirely vegetated) of lake, pond, wetlands or gaining streams (perennial or intermittent);
  - v. 50 feet of a property line. Buffer distances from property lines may be waived with written permission from neighboring property owner.
  - vi. For the application of dry, cake or liquid biosolids that are subsurface injected, buffer zones identified in 5.d.i. through 5.d.iii above, may be reduced to 100 feet. The buffer zone may be reduced to 35 feet if the buffer zone is permanently vegetated. Subsurface injection does not include methods or technology reflective of combination surface/shallow soil incorporation.
- e. Slope limitation for application sites are as follows:
  - i. For slopes less than or equal to 6 percent, no rate limitation;
  - ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels;
  - iii. Slopes > 12 percent, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
  - iv. Dry, cake or liquid biosolids that are subsurface injected, may be applied on slopes not to exceed 20 percent. Subsurface injection does not include the use of methods or technology reflective of combination surface/shallow soil incorporation.
- f. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- g. Biosolids may be land applied to sites with soil that are snow covered, frozen, or saturated with liquid when site restrictions or other controls are provided to prevent pollutants from being discharged to waters of the state during snowmelt or stormwater runoff. During inclement weather or unfavorable soil conditions use the following management practices:
  - A maximum field slope of 6% and a minimum 300 feet grass buffer between the application site and waters of the state. A 35 feet grass buffer may be utilized for the application of dry, cake or liquid biosolids that are subsurface injected. Subsurface injection does not include the use of mthods or technology refletive of combination surface/shallow soil incorporation;
  - ii. A maximum field slope of 2% and 100 feet grass buffer between the application site and waters of the state. A 35 feet grass buffer may be used for the application of dry, cake or liquid biosolids that are subsurface injected. Subsurface injection does not included the use of methods or technology refletive of combination surface/shallow soil incorporation;
  - iii. Other best management practices approved by the Department.

#### SECTION H – SEPTAGE

- 1. Haulers that land apply septage must obtain a state permit. An operating permit is not required for septage haulers who transport septage to another permitted treatment facility for disposal.
- 2. Do not apply more than 30,000 gallons of septage per acre per year or the volume otherwise stipulated in the operating permit.
- 3. Septic tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to mechanical treatment facilities.
- 4. Septage must comply with Class B biosolids regarding pathogen and vector attraction reduction requirements before it may be applied to crops, pastures or timberland. To meet required pathogen and vector reduction requirements, mix 50 pounds of hydrated lime for every 1,000 gallons of septage and maintain a septage pH of at least 12 pH standard units for 30 minutes or more prior to application.
- 5. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.
- 6. As residential septage contains relatively low levels of metals, the testing of metals in septage is not required.

#### SECTION I— CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater facilities (mechanical and lagoons) and sludge or biosolids storage and treatment facilities. It does not apply to land application sites.
- 2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all sludges and/or biosolids. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 6.010 and 10 CSR 20 6.015.
- 3. Biosolids or sludge that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
  - a. Biosolids and sludge shall meet the monitoring and land application limits for agricultural rates as referenced in Section G, above.
  - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
  - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre. Alternative, site-specific application rates may be included in the closure plan for department consideration.
    - i. PAN can be determined as follows:
       (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹).

       i. Volatilization factor is 0.7 for surface application and 1 for subsurface application. Alternative volitalization factors and mineralization rates can be utilized on a case-by-case basis
- 4. Domestic wastewater treatment lagoons with a design treatment capacity less than or equal to 150 persons, are "similar treatment works" under the definition of septage. Therefore the sludge within the lagoons may be treated as septage during closure activities. See Section B, above. Under the septage category, residuals may be left in place as follows:
  - a. Testing for metals or fecal coliform is not required.
  - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
  - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.
- 5. Biosolids or sludge left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, and unless otherwise approved, the lagoon berm shall be demolished, and the site shall be graded and contain ≥70% vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion. Alternative biosolids or sludge and soil mixing ratios may be included in the closure plan for department consideration.
- 6. Lagoon and earthen structure closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200.
- 7. When closing a mechanical wastewater plant, all biosolids or sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
  - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain  $\geq 70\%$  vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate

- surface water drainage without creating erosion.
- b. Hazardous Waste shall not be land applied or disposed during mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations pursuant to 10 CSR 25.
- c. After demolition of the mechanical plant, the site must only contain clean fill defined in Section 260.200.1(6) RSMo as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill, reclamation, or other beneficial use. Other solid wastes must be removed.
- 8. If biosolids or sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or I, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for onsite sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR Part 503, Subpart C.

#### SECTION J – MONITORING FREQUENCY

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

#### TABLE 5

T. I D LL C							
Biosolids or Sludge	Monitoring Frequency (See Notes 1, and 2)						
produced and disposed (Dry Tons per Year)	Metals, Pathogens and Vectors, Total Phosphorus, Total Potassium	Nitrogen TKN, Nitrogen PAN <sup>1</sup>	Priority Pollutants <sup>2</sup>				
319 or less	1/year	1 per month	1/year				
320 to 1650	4/year	1 per month	1/year				
1651 to 16,500	6/year	1 per month	1/year				
16,501+	12/year	1 per month	1/year				

Calculate plant available nitrogen (PAN) when either of the following occurs: 1) when biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids. This data shall be used to calculate the dry tons of sludge applied per acre.

Note 2: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

- 2. Permittees that operate wastewater treatment lagoons, peak flow equalization basins, combined sewer overflow basins or biosolids or sludge lagoons that are cleaned out once a year or less, may choose to sample only when the biosolids or sludge is removed or the lagoon is closed. Test one composite sample for each 319 dry tons of biosolids or sludge removed from the lagoon during the reporting year or during lagoon closure. Composite sample must represent various areas at one-foot depth.
- 3. Additional testing may be required in the special conditions or other sections of the permit.
- 4. Biosolids and sludge monitoring shall be conducted in accordance with federal regulation 40 CFR § 503.8, Sampling and analysis.

#### SECTION K - RECORD KEEPING AND REPORTING REQUIREMENTS

- 1. The permittee shall maintain records on file at the facility for at least five years for the items listed in Standard Conditions PART III and any additional items in the Special Conditions section of this permit. This shall include dates when the biosolids or sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- 2. Reporting period
  - a. By February 19<sup>th</sup> of each year, applicable facilities shall submit an annual report for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and biosolids or sludge disposal facilities.
  - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when biosolids or sludge are removed from the lagoon during the report period or when the lagoon is closed.
- 3. Report Form. The annual report shall be prepared on report forms provided by the Department or equivalent forms approved by the Department.
- 4. Reports shall be submitted as follows:
  - Major facilities, which are those serving 10,000 persons or more or with a design flow equal to or greater than 1 million gallons per day or that are required to have an approved pretreatment program, shall report to both the Department and EPA if the facility land applied, disposed of biosolids by surface disposal, or operated a sewage sludge incinerator. All other facilities shall maintain their biosolids or sludge records and keep them available to Department personnel upon request. State reports shall be submitted to the address listed as follows:

DNR regional or other applicable office listed in the permit (see cover letter of permit)

<sup>&</sup>lt;sup>2</sup> Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) are required only for permit holders that must have a pre-treatment program. Monitoring requirements may be modified and incorporated into the operating permit by the Department on a case-by-case basis.

Reports to EPA must be electronically submitted online via the Central Data Exchange at: https://cdx.epa.gov/ Additional information is available at: https://www.epa.gov/biosolids/compliance-and-annual-reporting-guidance-about-clean-water-act-laws

- 5. Annual report contents. The annual report shall include the following:
  - a. Biosolids and sludge testing performed. If testing was conducted at a greater frequency than what is required by the permit, all test results must be included in the report.
  - b. Biosolids or sludge quantity shall be reported as dry tons for the quantity produced and/or disposed.
  - c. Gallons and % solids data used to calculate the dry ton amounts.
  - d. Description of any unusual operating conditions.
  - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
    - This must include the name and address for the hauler and sludge facility. If hauled to a municipal
      wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that
      facility.
    - ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.

#### f. Contract Hauler Activities:

If using a contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate biosolids or sludge use permit.

#### g. Land Application Sites:

- i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as alegal description for nearest 1/4, 1/4, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kgTN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
- ii. If the "Low Metals" criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
- iii. Report the method used for compliance with pathogen and vector attraction requirements.
- iv. Report soil test results for pH and phosphorus. If no soil was tested during the year, report the last date when tested and the results.



#### MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM FORM A – APPLICATION FOR NONDOMESTIC PERMIT UNDER MISSOURI **CLEAN WATER LAW**

FOR AGENC	Y USE ONLY
CHECK NUMBER	
DATE RECEIVED	FEE SUBMITTED
JET PAY CONFIRMATION	NUMBER

	E READ ALL THE ACCOMPANYING INSTRUCTIONS E TTAL OF AN INCOMPLETE APPLICATION MAY RESUI						
	R FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEM						
	the No Exposure Certification Form (Mo 780-2828): https://	<u>//dnr.mo.gov/forms/780-2828-f.pc</u>	<u>f</u>				
	SON FOR APPLICATION:						
☐ a.	This facility is now in operation under Missouri State Operapplication for renewal, and there is no proposed increasinvoiced and there is no additional permit fee required for	se in design wastewater flow. Anr					
☐ b.	This facility is now in operation under permit MO –, is submitting an application for renewal, and there <u>is</u> a proposed increase in design wastewater flow. Antidegradation Review may be required. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.						
□ c.	This is a facility submitting an application for a new perm permit fee is required.	nit (for a new facility). Antidegrada	tion Review ma	ay be required. New			
☐ d.	This facility is now in operation under Missouri State Oper modification to the permit. Antidegradation Review may			requesting a			
2. FACI	LITY						
NAME			TELEPHONE NUME	BER WITH AREA CODE			
ADDRESS	(PHYSICAL)	CITY	STATE	ZIP CODE			
3. OWN	IER						
NAME			TELEPHONE NUME	BER WITH AREA CODE			
EMAIL ADD	DRESS						
ADDRESS	(MAILING)	CITY	STATE	ZIP CODE			
4. CON	TINUING AUTHORITY						
NAME			TELEPHONE NUME	BER WITH AREA CODE			
EMAIL ADD	DRESS						
ADDRESS	(MAILING)	CITY	STATE	ZIP CODE			
5. OPEI	RATOR CERTIFICATION						
NAME		CERTIFICATE NUMBER	TELEPHONE NUME	BER WITH AREA CODE			
ADDRESS	(MAILING)	CITY	STATE	ZIP CODE			
6. FACI	LITY CONTACT	,					
NAME		TITLE	TELEPHONE NU	MBER WITH AREA CODE			
E-MAIL ADI	DRESS	l	1				
7. DOW	VNSTREAM LANDOWNER(S) Attach additional sheets as	s necessary.					
NAME							
ADDRESS		CITY	STATE	ZIP CODE			

MO 780-1479 (02-19)

8. ADDI	TIONAL FACILITY INFORMATION			
8.1	Legal Description of Outfalls. (Attach additional sheets if necessary.) For Universal Transverse Mercator (UTM), use Zone 15 North referenced to North American Datum	m 1983 (NAD83	3)	
	001/4 Sec T R		Cou	inty
	002		Cou	inty
	003		Cou	ınty
	001         ½         ½         Sec         T         R           UTM Coordinates Easting (X):		Cou	inty
<b>8.2</b> F	rimary Standard industrial Classification (SIC) and Facility North American industrial Cla	SSILICATION Sy:	stem (mait	CS) Codes.
	Primary SIC         and NAICS         SIC           SIC         sIC	_ and NAI and NAI	C <u>S</u> ICS	
9. ADDI	TIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION	_		
Α.	Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculf yes, complete Form C.	Iture facility?	YES 🗌	NO 🗌
B.	Is the facility considered a "Primary Industry" under EPA guidelines (40 CFR Part 122, A If yes, complete Forms C and D.	Appendix A) :	YES 🗌	NO 🗌
C.	Is wastewater land applied? If yes, complete Form I.		YES 🗌	NO 🗌
D.	Are sludge, biosolids, ash, or residuals generated, treated, stored, or land applied? If yes, complete Form R.		YES 🗌	NO 🗌
E.	Have you received or applied for any permit or construction approval under the CWA or environmental regulatory authority?  If yes, please include a list of all permits or approvals for this facility.	any other	YES 🗌	NO 🗌
F.	Do you use cooling water in your operations at this facility?  If yes, please indicate the source of the water:		YES 🗌	NO 🗌
G.	Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.			
10. ELE	CTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM			
and mor	CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reponitoring shall be submitted by the permittee via an electronic system to ensure timely, content set of data. One of the following must be checked in order for this application to content in the content of the following must be checked in order for this application to content in the content of the following must be checked in order for this application to content of the	nplete, accura	ate, and na	tionally
🗌 - You	have completed and submitted with this permit application the required documentation	to participate i	in the eDM	R system.
☐ - You eDMR s	I have previously submitted the required documentation to participate in the eDMR syste ystem.	m and/or you	are curren	tly using the
☐ - You waivers.	have submitted a written request for a waiver from electronic reporting. See instruction	s for further in	formation	regarding
11. FEE	S			
	ees may be paid by attaching a check, or online by credit card or eCheck through the Jet is JetPay and make an online payment: <a href="https://magic.collectorsolutions.com/magic-ui/pa">https://magic.collectorsolutions.com/magic-ui/pa</a>			
12. CER	TIFICATION			
with a sy inquiry of informat penaltie	under penalty of law that this document and all attachments were prepared under my directed designed to assure that qualified personnel properly gather and evaluate the inform of the person or persons who manage the system, or those persons directly responsible for submitted is, to the best of my knowledge and belief, true, accurate, and complete. It is for submitting false information, including the possibility of fine and imprisonment for knowledge.	mation submit or gathering th am aware tha lowing violation	ted. Based he informa t there are ons.	on my tion, the significant
NAME AND	OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUM	MBER WITH AR	EA CODE
SIGNATURI	- //mmil	DATE SIGNED		

MO 780-1479 (02-19)

### BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

#### INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT

1. Check which option is applicable. **Do not check more than one item.** Nondomestic permit refers to permits issued by the Department of Natural Resources' Water Protection Program for all **nondomestic** wastewater treatment facilities, including all industry, stormwater, and Class IA Concentrated Animal Feeding Operations (CAFO). **This includes all nondomestic** wastewater treatment facilities that incorporate domestic wastewater into the operating permit.

For some new or modified permits, a construction permit is required prior to beginning construction at the facility. For other permits, an exemption is provided from construction permit requirements. Please review the requirements at <a href="http://dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm">http://dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm</a>. If the facility is for wastewater treatment and is designed for greater than 22,500 gallons per day, the engineering report must be submitted and approved prior to submittal of the application, fee, plans, and specifications. A summary of design data must be submitted with the engineering plans and specifications.

For new wastewater facilities, some wastewater permit modifications, and some permit renewals with proposed increase in design wastewater flow, an antidegradation review may be required. Please visit <a href="https://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm">https://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm</a> for more information

- 2. Facility Provide the name by which this facility is known locally. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Also include the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, county road, etc.
- 3. Owner Provide the legal name and address of owner or company.
- 4. Continuing Authority A continuing authority is a company, business, entity, or person(s) 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 <a href="https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf">https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf</a>. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage:

  <a href="https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0">https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0</a>, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.
- Operator Provide the name, certificate number, mailing address and telephone number of the person operating the facility, if required by regulation (10 CSR 20-9.020(2)). Most industrial facilities will not be required to have a certified wastewater operator.
- 6. Provide the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility, with the facts reported in this application, and who can be contacted by the department, if necessary. This person will need to be available to respond to emails which will include pre-public notice drafts of permits.
- 7. Please provide the name and address of the first downstream landowner, different from that of the permitted facility, through whose property the discharge will flow. Also, please indicate the location on the map. For discharges that leave the permitted facility and flow under a road or highway, or along the right-of-way, the downstream property owner is the landowner that the discharge flows to after leaving the right-of-way. For no discharge facilities, provide this information for the location where discharge would flow if there was one. For land application sites, include the owners of the land application sites and all adjacent landowners.
- 8.1 An outfall is the point at which wastewater or stormwater is discharged. Outfalls should be given in terms of the legal description of the facility. Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, please use a mapping system to approximate the coordinates.
- 8.2 List only your primary Standard Industrial Classification (SIC), and North American Industry Classification System (NAICS) code for each outfall. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. To find the correct SIC code, an applicant may check his or her unemployment insurance forms or contact the Missouri Division of Employment Security, 573-751-3215. The primary SIC code is that of the operation that generates the most revenue. If this information is not available, the number of employees or, secondly, production rate may be used to determine your SIC code. Additional information for Standard Industrial Codes can be found at <a href="https://www.osha.gov/pls/imis/sicsearch.html">www.osha.gov/pls/imis/sicsearch.html</a> and for the North American Industry Classification System at <a href="https://www.census.gov/naics">www.census.gov/naics</a> or contact the appropriate Department of Natural Resources regional office.

## INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT (CONTINUED)

- 9. If you answer yes to A, B, C, D, or E, then you must complete and file the supplementary form(s) indicated. 40 CFR 122.21(f) and (g) requires the facility to submit the information requested herein. For 9.E., please include all permits or approvals, including construction, issued under the Hazardous Waste Management Program (RCRA), the Safe Drinking Water Act, Clean Air Act, or any other permits issued under the Clean Water Act.
  - A U.S. Geological Survey 1" = 2,000' scale map must be submitted with the permit application showing all outfalls, the receiving stream and the location of the downstream property owners. This type of map can be obtained from the Missouri Department of Natural Resources' Geological Survey in Rolla at 573-368-2100 or various online mapping applications.
- 10. Electronic Discharge Monitoring Report (eDMR) Submission System Visit the eDMR site at <a href="http://dnr.mo.gov/env/wpp/edmr.htm">http://dnr.mo.gov/env/wpp/edmr.htm</a> and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package.

Waivers from 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: <a href="http://www.broadbandmap.gov/">http://www.broadbandmap.gov/</a>. Please contact the department if you need assistance.
- 11. Please visit <a href="https://dnr.mo.gov/pubs/pub2564.htm">https://dnr.mo.gov/pubs/pub2564.htm</a> for permit fees. This form must be submitted with the application fee if requesting a new permit, permit modification, or permit transfer.

Fee schedules are listed in regulation at 10 CSR 20-6.011, <a href="https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf">https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf</a>.

Incomplete permit applications and/or related engineering documents will be returned by the department if they are not completed in the time frame established in a comment letter from the department to the owner. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

- 12. Certification/Signature All applications must be signed as follows and the signature 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.

#### MAIL COMPLETED FORM AND FEES TO:

Missouri Department Of Natural Resources
Water Protection Program
Water Pollution Control Branch
ATTN: Operating Permits Section
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

If there are any questions concerning this form, contact the Department of Natural Resources' Water Protection Program, Operating Permits Section at 800-361-4827 or 573-522-4502.



### MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

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

FOR AGENCY	USE ONLY
CHECK NUMBER	
DATE RECEIVED	FEE SUBMITTED
JETPAY CONFIRMA	TION NUMBER

READ THE AC	COMPANYING INSTR	RUCTIONS BEFORE	COM	PLE	TING THIS FO	RM			
1. THIS APPL	CATION IS FOR:								
☐ An operat	ng permit for a new or ι	unpermitted facility.	Cons	struc	tion Permit # _				
(Include c	ompleted antidegradation	on review or request	for ant	ideg	radation reviev	v, see instructio	ns)		
☐ A new site	-specific operating perr	mit formerly general	permit	#MC	OG				
☐ A site-spec	cific operating permit rer	newal: Permit	#MO-		E	xpiration Date _			
☐ A site-spec	cific operating permit mo	odification: Perm	it #MO		R	eason:			
☐ General pe	ermit (NON-POTWs) (M	MOGD –discharging	< 50,00	00 G	PD or MOG82	3 – Land Applic	ation of Doi	mesti	c Wastewater):
Permit #N	O Ex	xpiration Date							
1.1 Is the a	ppropriate fee included	with the application	(see ir	nstru	ctions for appr	opriate fee)?	☐ YE	S	□NO
2. FACILITY									
NAME							TELEPHON	E NUME	BER WITH AREA CODE
ADDRESS (PHYSICA	L)		CITY				STATE	ZIP (	CODE
<b>2.1</b> Legal	description: Se	ec. ,T ,R					County	1	
	For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)								
2.3 Name	of receiving stream:								
<b>2.4</b> Num	per of outfalls:	Wastewater outfa	lls:		Stormwater	outfalls:	Instream	moni	toring sites:
3. OWNER: 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.									
NAME		<u> </u>			EMAIL ADDRESS		TELEPHON	E NUME	BER WITH AREA CODE
ADDRESS			CITY				STATE	ZIP (	CODE
3.1 Requ	est review of draft perm	it prior to public notic	ce?		☐ YES ☐ No	)	1		
<b>3.2</b> Are y	ou a publicly owned tre	atment works?			☐ YES ☐ N	<b>O</b>			
If yes	, please attach the Fina	ancial Questionnaire.			See: https://dn	r.mo.gov/forms	<u>/780-2511-</u> 1	f.pdf	
<b>3.3</b> Are y	ou a privately owned tre	eatment works?			☐ YES ☐ No	)			
	ou a privately owned tre								
4. CONTINUIN maintenand	IG AUTHORITY: Permarke and modernization of	anent organization of the facility.	that w	ill s	erve as the co	ntinuing autho	ority for the	e ope	ration,
NAME		•			EMAIL ADDRESS		TELEPHON	E NUME	BER WITH AREA CODE
ADDRESS			CITY				STATE	ZIP (	CODE
	g authority is different the responsibilities of bo					agreement betw	een the two	o par	ties and a
5. OPERATOR			9						
NAME		TITLE			CERTIFICATE NUM	MBER			
EMAIL ADDRESS		<u>I</u>			TELEPHONE NUM	BER WITH AREA COD	E		
6. FACILITY C	ONTACT								
NAME					TITLE				
EMAIL ADDRESS					TELEPHONE NUM	BER WITH AREA COD	E		
ADDRESS				CITY	<u> </u> '		STATE		ZIP CODE

7. DESCRIPTION OF FACILITY
7.1 Process Flow Diagram or Schematic: Provide a diagram showing the processes of the treatment plant. Show all of the treatment units, including disinfection (e.g. – chlorination and dechlorination), influents, and outfalls. Specify where samples are taken. Indicate any treatment process changes in the routing of wastewater during dry weather and peak wet weather. Include a brief narrative description of the diagram.  Attach sheets as necessary.
7.0 Attack an agricular between hor LICCC tangers as his many charging the Lagation of the facility and cuttall
7.2 Attach an aerial photograph or USGS topographic map showing the location of the facility and outfall.  Please see the following website: <a href="https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce">https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce</a>

8. AD	DITIONAL FACILITY INFORMATION				
8.1	Facility SIC code: Discharge SIC code:				
8.2	Number of people presently connected or population ed	uivalent	(P.E.)	esign P.E.	
8.3	Connections to the facility:				
	Number of units presently connected:				
	Residential: Commercial: Industrial:	<u> </u>			
8.4	Design flow:		flow:		
8.5	Will discharge be continuous through the year? ☐Yes	□ No			
	Discharge will occur during the following months:  How many days of the week will discharge occur?			_	
8.6	Is industrial wastewater discharged to the facility? If yes, attach a list of the industries that discharge to you	r facility	□Yes □ No		
8.7	Does the facility accept or process leachate from landfills	?	□Yes □ No		
8.8	Is wastewater land applied?		□Yes □ No		
	If yes, attach Form I.		See: https://dnr.i	mo.gov/forms/78	30-1686-f.pdf
8.9	Does the facility discharge to a losing stream or sinkhole	?	□Yes □ No	·	
8.10	Has a wasteload allocation study been completed for this	facility?	Yes No		
9. LA	BORATORY CONTROL INFORMATION				
LABC	DRATORY WORK CONDUCTED BY PLANT PERSONNEL	-			
	vork conducted outside of plant.		_	☐Yes ☐ No	
	-button or visual methods for simple test such as pH, settla	bie solia:	S.	□Yes □ No	)
oxyge	ional procedures such as dissolved oxygen, chemical en demand, biological oxygen demand, titrations, solids, vo		ntent.	□Yes □ No	)
fecal	advanced determinations such as BOD seeding procedure coliform/ <i>E. coli</i> , nutrients (including Ammonia), Oil & Greas	e, \ total	•	□Yes □ No	)
Highl	y sophisticated instrumentation, such as atomic absorption	and gas	chromatograph.	□Yes □ No	)
	COLLECTION SYSTEM				
	Are there any municipal satellite collection systems connec f yes, please list all connected to this facility, contact phone				
FACII	LITY NAME		CONTACT PHON	E NUMBER	LENGTH OF SYSTEM (FEET OR MILES)
10.2	Length of pipe in the sewer collection system? (If availab	le, includ	de totals from satelli	e collection syst	iems)
	Feet, or Miles (either unit is appro	opriate)			
10.3	Does significant infiltration occur in the collection system	? □Y	es 🗌 No		
	If yes, briefly explain any steps underway or planned to m	inimize i	inflow and infiltration	:	

11. BYPASSING				
Does any bypassing occur in the collection system or at the	e treatment facility? ☐Ye	es 🗌 No		
If yes, explain:				
12. SLUDGE HANDLING, USE AND DISPOSAL				
<b>12.1</b> Is the sludge a hazardous waste as defined by 10	CSR 25?	] No		
12.2 Sludge production, including sludge received from	others:Design	dry tons/year	Actua	l dry tons/year
12.3 Capacity of sludge holding structures:				
Sludge storage provided: cubic feet; ☐ No sludge storage is provided. ☐ Sludge is s		average percent	solids of	sludge;
12.4 Type of Storage:  Holding tank	Building	•		
Basin	☐ Lagoon			
☐ Concrete Pad		Describe)		
12.5 Sludge Treatment:	По			
☐ Anaerobic Digester ☐ Lagoon ☐ Storage Tank ☐ Aerobic Diges	ter Other (	sting Attach description)	1	
☐ Lime Stabilization ☐ Air or Heat Dr	`	Attach description)	•	
12.6 Sludge Use or Disposal:	<u> </u>			
	sal (Sludge Disposal Lag	oon, Sludge held f	for more	than two years)
	other treatment facility ned in Wastewater treatme	ont lagoon		
Solid waste landfill	ieu iii vvastewater treatiiit	ant lagoon		
12.7 Person responsible for hauling sludge to disposal fa				
☐ By applicant ☐ By others (complete below)	ow)	514411 40000000		
NAME		EMAIL ADDRESS		
ADDRESS	CITY		STATE	ZIP CODE
CONTACT PERSON	TELEPHONE NUMBER WITH ARE		PERMIT NO MO-	
12.8 Sludge use or disposal facility				
☐ By applicant ☐ By others (Comple	ete below.)			
NAME	·	EMAIL ADDRESS		
ADDRESS	CITY		STATE	ZIP CODE
CONITACT DEDOCAL	TELEPHONE NUMBER WITH ARE	A CODE	PERMIT NO	
CONTACT PERSON	TELEPHONE NUMBER WITH ARE		MO-	•
12.9 Does the sludge or biosolids disposal comply with	federal sludge regulation	s under 40 CFR 5	03?	
☐Yes ☐ No (Explain)				

Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally-					
consistent set of data. One of the following must be checked in order for this application to be considered complete. Please complete the eDMR Registration by clicking on the following link: <a href="https://dnr.mo.gov/forms/780-2204-f.pdf">https://dnr.mo.gov/forms/780-2204-f.pdf</a> .					
☐ - You have completed and submitted with this permit application the required documentation to participate in the eDMR system.					
You have previously submitted the required documentation to participate in the eDMR system and/or you are currently using the eDMR system.					
You have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.					
14. JETPAY					
Permit fees may be payed online by credit card or eCheck through a system called JetPay. Use the URL provided to access JetPay and make an online payment.  New Site Specific Permit: <a href="https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591/">https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591/</a> Construction Permits: <a href="https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/592/">https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/592/</a> New General Domestic WW: <a href="https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/772/">https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596/</a> New General Domestic WW: <a href="https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/772/">https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596/</a>					
15. 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)  OFFICIAL TITLE  TELEPHONE NUMBER WITH AREA CODE					
SIGNATURE DATE SIGNED					

MO 780-1512 (02-19)

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

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

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

#### 1.1 Fees Information:

#### **DOMESTIC OPERATING PERMIT FEES - PRIVATE**

Annual operating permit fees are based on flow.

 Annual fee/Design flow
 Annual fee/Design flow
 Annual fee/Design flow
 Annual fee/Design flow

 \$150.......<5,000 gpd</td>
 \$1,000.....15,000-24,999 gpd
 \$4,000......100,000-249,999 gpd

 \$300......5,000-9,999 gpd
 \$1,500.....25,000-29,999 gpd
 \$5,000......≥250,000 gpd

 \$600......10,000-14,999 gpd
 \$3,000.....30,000-99,999 gpd

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

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

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

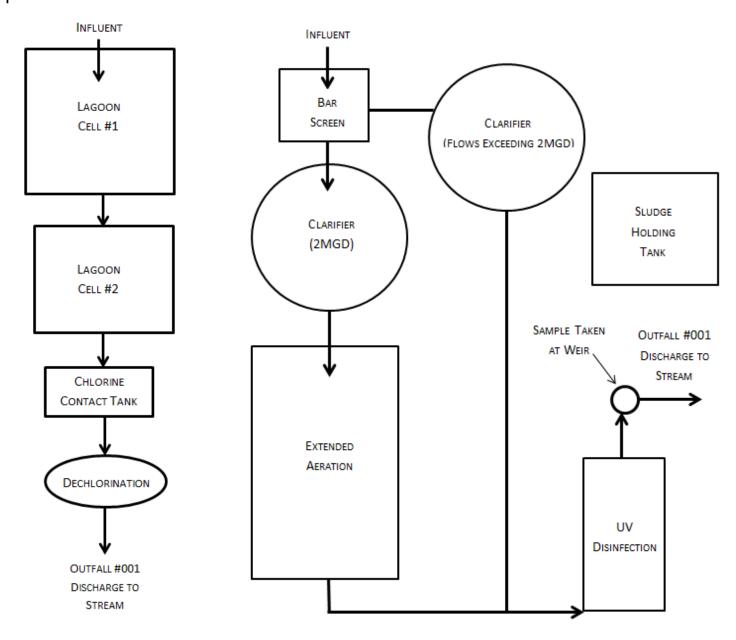
**OPERATING PERMIT MODIFICATIONS**, including transfers, are subject to the following fees:

- a. Publicly Owned Treatment Works (POTWs) \$200 each.
- b. Non-POTWs \$100 each for a minor modification (name changes, address changes, other non-substantive changes) or a fee equal to 25% of the facility's annual operating fee for a major modification.
- 2. Name of Facility Include the name by which this facility is locally known. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Provide the street address or location of the facility. If the facility lacks a street name or route number, provide the names of the closest intersection, highway, country road, etc.
- 2.1 Self-explanatory
- 2.2 Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates; the department's mapping system is available at <a href="https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce">https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce</a>.
- 2.3-2.4 Self-explanatory
- 3. 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.
  - Prior to submitting a permit to public notice, the Department of Natural Resources shall provide the permit applicant 10 days to review the draft permit for nonsubstantive drafting errors. In the interest of expediting permit issuance, permit applicants may waive the opportunity to review draft permits prior to public notice.
- 3.2-3.4 Self-explanatory. The Financial Questionnaire is available at: https://dnr.mo.gov/forms/780-2511-f.pdf
- 4. 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 <a href="https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf">https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf</a>. 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:

  <a href="https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0">https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0</a>
- 5. Operator Provide the name, certificate number, title, mailing address, primary phone number, and e-mail address of the operator of the facility.
- 6. Provide the name, title, mailing address, primary phone number, and e-mail address of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by the department.

#### 7.1 Process Flow Diagram Examples

WASTEWATER TREATMENT LAGOON WASTEWATER TREATMENT FACILITY



- 7.2 A topographic map is available on the Web at <a href="https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce">https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=1d81212e0854478ca0dae87c33c8c5ce</a> or from the Department of Natural Resources' Geological Survey Division in Rolla at 573-368-2125.
- 8.1 For Standard Industrial Codes visit <a href="www.osha.gov/pls/imis/sicsearch.html">www.osha.gov/pls/imis/sicsearch.html</a> or contact the Department of Natural Resources' Water Protection Program. For example, a family style restaurant has a Facility SIC code of 5812.
- 8.2-8.7 Self-explanatory.
- 8.8 If wastewater is land applied submit for Form I: www.dnr.mo.gov/forms/780-1686-f.pdf.
- 8.9-8.10 Self-explanatory

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

- 9. Self-explanatory.
- 10.1 Self-explanatory.
- 10.2 Self-explanatory
- 10.3 If Inflow and Infiltration (I&I) is a problem at the facility, list possible actions to be taken to repair the collection and treatment facility.
- 11. Include overflows of combined sewers and lift stations or bypassing of the wastewater treatment facility. Provide a detailed description of the circumstances that sewage bypassing occurs and the frequency of occurrence.
- 12. A copy of 10 CSR 25 is available on the Web at <a href="https://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-25">www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-25</a>.
- 12.1-12.8 Self-explanatory.
- 12.9 Refer to University of Missouri Extension Environmental Quality publications about biosolids (WQ420-WQ426). The documents are available at <a href="mailto:extension.missouri.edu/main/DisplayCategory.aspx?C=74">extension.missouri.edu/main/DisplayCategory.aspx?C=74</a>. In addition, the federal sludge regulations are available through the U.S. Government Printing Office at <a href="https://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR">https://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR</a>.
- Electronic Discharge Monitoring Report (eDMR) Submission System Visit the eDMR site at <a href="https://dnr.mo.gov/env/wpp/edmr.htm">https://dnr.mo.gov/env/wpp/edmr.htm</a> and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package. Waivers to electronic reporting may be granted by the Department per 40 CFR 127.15 under certain, special circumstances. A written request must be submitted to the Department for approval. Waivers may be granted to facilities owned or operated by:
  - a. members of religious communities that choose not to use certain technologies or
  - b. permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: <a href="https://broadbandmap.fcc.gov/#/">https://broadbandmap.fcc.gov/#/</a>. Please contact the Department if you need assistance.

#### JETPAY

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

- a. 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.
- b. Be sure to select the correct fee type and corresponding URL to ensure your payment is applied appropriately. If you are unsure what type of fee to pay, please contact the Water Protection Program's Budget, Fees, and Grants Management Unit by phone at (573) 522-1485 for assistance.
- c. 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.
- d. 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 <a href="https://www.wppfees@dnr.mo.gov">wppfees@dnr.mo.gov</a>. 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.
- e. Applicants can find fee rates in 10 CSR 20-6.011 (https://dnr.mo.gov/pubs/pub2564.htm).

#### 15. CERTIFICATION

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

- For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
- b. For a partnership or sole proprietorship, by a general partner or the proprietor.
- c. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

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

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

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

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



## MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

## FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, AND STORMWATER

<b>GENERA</b>	L INFORMATION (PLEASE SEE INSTRUCTIONS	S)							
1.0 NAME	OF FACILITY								
1.1 THIS F	.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER:								
1.2 IS THIS	1.2 IS THIS A NEW FACILITY? PROVIDE CONSTRUCTION PERMIT (CP) NUMBER IF APPLICABLE.								
of all rav	1.3 Describe the nature of the business, in detail. Identify the goods and services provided by the business. Include descriptions of all raw, intermediate, final products, byproducts, or waste products used in the production or manufacturing process, stored outdoors, loaded or transferred and any other pertinent information for potential sources of wastewater or stormwater discharges.								
FLOWS	, TYPE, AND FREQUENCY								
wastewa water ba evapora pictorial	ich a line drawing showing the water flow through to the effluent, and treatment units labeled to calance on the line drawing by showing average and tion, public sewers, and outfalls. If a water balance description of the nature and amount of any source	correspond to the more d maximum flows between e cannot by determined es of water and any co	e detailed descriptions in item B. een intakes, operations, treatme d (e.g., for certain mining activitie of the detailed in t	Construct a nt units, es), provide a					
process (3) the a	each outfall (1) below, provide: (2) a description of wastewater, sanitary wastewater, cooling water, so verage flow and maximum flow (put max in parent reatment received by the wastewater, and (5) the total control of the sand (5) t	tormwater runoff, and a heses) contributed by	any other process or non-proces each operation and the sum of t	s wastewater, hose operations,					
. OUTFALL NO.	OPERATION(S) CONTRIBUTING FLOW; INCLUDE ALL PROCESSES AND SUB PROCESSES AT EACH OUTFALL	3. AVERAGE FLOW AND (MAXIMUM FLOW), INCLUDE UNITS.	4. TREATMENT DESCRIPTION	5. TREATMENT CODES FROM TABLE A					
	Attach addit	ional pages if necessa	nrv						
	Allacii addii	ional pages il liecessa	uy.						

	ERMITTENT DISCHAR or stormwater runoff, le		any of the	e discharge:	s described	in items 2.0	0 or 2.1 interm	nittent or sea	isonal?
ļ	☐ Yes (complete the	following table)		No (go to s	section 2.3)				
			2 501	3. FREQUENCY		4.	FLOW		-
1.			J. FRE	:QUENCY	A. FLOW RA	ATE (in mgd)	B. TOTAL (specify w		C. DURATION
OUTFALL NUMBER	2. OPERATION(S) CON	2. OPERATION(S) CONTRIBUTING FLOW		B. MONTHS PER YEAR (specify average)	1. MAXIMUM DAILY	2. LONG TERM AVERAGE	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	(in days)
ļ				!					
			+	<del>                                     </del>			+		
							<del>                                     </del>		
				!					
2.3 PR(	DDUCTION					<u> </u>			
. 5	en e Paritation	· · · · · · (ELO) -		504		224 .646	O' \\/	* :	
	s an effluent limitation of Indicate the part and s			d by EPA u	inder section	1 304 of the	e Clean Water	· Act apply to	) your
	Yes 40 CFR	Subpart(s	s)	🗆	No (go to se	ection 2.5)			
B. Are the below.	he limitations in the ef	fluent guideline(s	) expresse	d in terms o	of production	n (or other	measure of op	peration)? De	escribe in C
	Yes (complete C.)	☐ No	(go to sec	tion 2.5)					
	u answered "yes" to B, ed in the terms and un								tion,
A. OUTFALI		1	1				MATERIAL, ETC. (		
			+						
		+	+						
2.4 IMPR	OVEMENTS								
u a	Are you required by an apgrading, or operation affect the discharges do ar enforcement orders,	n of wastewater tro lescribed in this ap	eatment ed pplication?	quipment or This include	r practices of des, but is n	or any other not limited to	r environmenta o, permit conc	al programs ditions, admir	which may nistrative
☐ Ye	es (complete the follow	ving table)		] No (go to	2.6)				
	IFICATION OF CONDITION,	2. AFFECTED OUTFALLS		3. BRIEF	DESCRIPTION OF	F PROJECT	<u> </u>		MPLIANCE DATE
	GREEMENT, ET G.	OUTALLO						A. REQUIRED	B. PROJECTED
В. С	Optional: provide below	v or attach additic	nal sheets	 describing	water pollu	tion contro	I programs or		 nmental
р	rojects which may affe	ect discharges. In	idicate whe	ether each p	program is u	ınderway o	r planned, and		
р	lanned schedules for	construction. This	may inclu	ide propose	ed bmp proje	ects for sto	rmwater.		

2.5 SLUDGE MANAGEMENT Describe the removal of any industrial or domestic biosolids or sludges generated at your facility. Include names and contact nformation for any haulers used. Note the frequency, volume, and methods (incineration, landfilling, composting, etc) used. See Form A for additional forms which may need to be completed.									
DATA COLLECTION AN	D REPORTING REQUIREN	MENTS FOR APPLICAN	NTS						
3.0 EFFLUENT (AND IN	TAKE) CHARACTERISTICS	(SEE INSTRUCTIONS	5)						
				(and intake) – annotate the outfall (intake) e intake data unless required by the					
believe is discharged		any outfall not listed in p	arts 3.0 A	. Table B which you know or have reason to or B on Table 1. For every pollutant listed, ata in your possession.					
1. POLLUTANT	2. SOUF	RCE 3. OU	JTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)					
3.1 Whole Effluent Toxic	ty Testing								
	ave any Whole Effluent Tox discharge) within the last the		performed	on the facility discharges (or on receiving					
☐ Yes (go to 3.1 B)	☐ No (go to 3.2)								
3.1 B  Disclose wet testing conditions, including test duration (chronic or acute), the organisms tested, and the testing results. Provide any results of toxicity identification evaluations (TIE) or toxicity reduction evaluations (TRE) if applicable. Please indicate the conclusions of the test(s) including any pollutants identified as causing toxicity and steps the facility is taking to remedy the toxicity.									
3.2 CONTRACT ANALYS	SIS INFORMATION								
•	·	· ·	-	ntract laboratory or consulting firm?					
Yes (list the name,	address, telephone numbe	r, and pollutants analyze	ed by each	h laboratory or firm.)					
A. LAB NAME	B. ADDRESS	C. TELEPHONE (area code and number)		D. POLLUTANTS ANALYZED (list or group)					

#### 4.0 STORMWATER

4 1

Do you have industrial stormwater discharges from the site? If so, attach a site map outlining drainage areas served by each outfall. Indicate the following attributes within each drainage area: pavement or other impervious surfaces; buildings; outdoor storage areas; material loading and unloading areas; outdoor industrial activities; structural stormwater control measures; hazardous waste treatment, storage, and disposal units; and wells or springs in the area.

OUTFALL NUMBER	TOTAL AREA DRAINED (PROVIDE UNITS)	TYPES OF SURFACES (VEGETATED, STONE, PAVED, ETC)	BEST MANAGEMENT PRACTICES EMPLOYED; INCLUDE STRUCTURAL BMPS AND TREATMENT DESIGN FLOW FOR BMPS DESCRIBE HOW FLOW IS MEASURED
002	228,000 sqft	50% BLD, 50%NVS	Silt fence, Hay bales
003	120,000 sqft	40%BLD, 10%PAV,50%VEG	None
004	144,000 sqft	80%BLD, 20%NVS	Silt fence, Hay bales

#### 4.2 STORMWATER FLOWS

Provide the date of sampling with the flows, and how the flows were estimated.

#### SIGNATORY REQUIREMENTS

5.0 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 AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Eduardo Gonzalez	(913)231-4685
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED 06/04/2020

FORM C	TABLE 1	FOR 3.0 - ITEMS A AND E

		•	•	•								
EFFLUENT (AND INTA	(E) CHAF	RACTERI	STICS	THIS OUTFA	LL IS:	•				OUTFALL NO.		
3.0 PART A – You must	provide th	he results	of at least one ar	nalysis for every	pollutant in Part	A. Complete o	ne table for each ou	ıtfall or proposed	outfall. See	instructions.		
	2. VALUES										ecify if blank)	
1. POLLUTANT		A. MAXIMU	M DAILY VALUE	B. M	MAXIMUM 30 DAY VALU	ES	C. LONG TERM AVER	RAGE VALUES	D. NO. OF	A CONCEN		
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS (	1) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	
A. Biochemical Oxygen Demand, 5-day (BOD₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE		•	VALUE		VAL	UE			MILLIONS OF GALLONS PER DAY (MGD)		
G. Temperature (winter)	VALUE			VALUE	VALUE			ALUE			°F	
H. Temperature (summer)	VALUE			VALUE	VALUE			UE				
I. pH	MINIMUM			MAXIMUM	MAXIMUM AVERAGE					STANDARD	UNITS (SU)	
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	tant, you	must prov										
1. POLLUTANT	2. MAI	RK "X"			3. VALUES							
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM D	AILY VALUE	B. MAXIMUM 3	0 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	B. MASS	
(ii available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. WASS	
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants									
A. Alkalinity (CaCO <sub>3</sub> )			MINIMUM		Мінімим		MINIMUM					
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MAI	RK "X"	3. VALUES							4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A DELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	80 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN- TRATION	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES		B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)			•				
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus (as P), Total (7723-14-0)											
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)											
P. Sulfide (as S)											
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals	,								•	•	
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MA	RK "X"	3. VALUES							4. UNITS	
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	B.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	У	•	•				•				
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total										_	

INSTRUCTIONS FOR FILLING OUT APPLICATION FOR NPDES DISCHARGE PERMIT – FORM C – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, PROCESS WASTEWATER, NON-PROCESS WASTEWATER, AND INDUSTRIAL STORMWATER DISCHARGES.

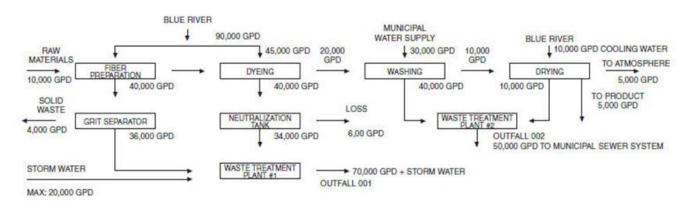
All applicable sections must be filled in when the application is submitted. The form must be signed as indicated. This application is to be completed only for facilities with a discharge. Non-discharging (land application facilities) should fill out the appropriate forms for the activity. Include any area with potential discharge, even if there is normally no discharge. If this form is not adequate for you to describe your existing operations, then sufficient information should be attached so an evaluation of the discharges can be made. Attach additional sheets as necessary for any additional information. If an applicant believes previous outfalls are no longer applicable to the facility, please indicate so. Certain parts of the application may be submitted electronically, such as extensive analytical data, or project plans relating to improvements. This may be included using a thumb drive or CD. If extensive data is submitted without an electronic copy, the department may request the submission at a later time so the permit writer can mathematically evaluate the data. If you have any questions regarding this form please contact the Water Protection Program Operating Permits Administrative Assistant at 800-361-4827 or 573-571-6825 and you will be directed to a permit writer.

#### **GENERAL INFORMATION**

- 1.0 Name of Facility By what title or name is this facility known? Has the official name changed? Please indicate both the previous and current name you wish to be listed on the permit.
- 1.1 Operating permit number as assigned (MO-#######)
- 1.2 Indicate if this is a new facility or if there are any new discharges. Has the facility completed an antidegradation review? Is this facility being moved from a general permit to a site specific permit? If so, indicate general permit number.
- 1.3 Self-explanatory.

#### FLOWS, TYPE, AND FREQUENCY

2.0 The line drawing should show the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. Indicate any alternate treatment trains available. You may group similar operations into a single unit labeled to correspond to the more detailed listing. More than one drawing may be required depending on the complexity of the system. The water balance should show average and maximum flows. Show all significant losses of water to: products, atmosphere, public sewer systems; both storm sewer and sewer. You should use actual measurements whenever available; otherwise, use your best estimate. An example of an acceptable line drawing appears below.



2.1 List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or a "distillation tower"). You may estimate the flow contributed by each source if no data is available, and for stormwater, you may use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order and you should select the proper code from Table A to fill in column 3B for each treatment unit. Insert "XX" into column 3B if no code corresponds to a treatment unit you list.

	TABLE A – CODES FO	R TREATM	MENT UNITS
PHYSIC <i>A</i>	AL TREATMENT PROCESSES		
1-A	Ammonia Stripping	1-M	Grit Removal
1-B	Dialysis	1-N	Microstraining
1-C	Diatomaceous Earth Filtration	1-0	Mixing
1-D	Distillation	1-P	Moving Bed Filters
1-E	Electrodialysis	1-Q	Multimedia Filtration
1-F	Evaporation	1-R	Rapid Sand Filtration
1-G	Flocculation	1-S	Reverse Osmosis (Hyper Filtration)
1-H	Flotation	1-T	Screening
1-I	Foam Fractionation	1-U	Sedimentation (Settling)
1-J	Freezing	1-V	Slow Sand Filtration
1-K	Gas-Phase Separation	1-W	Solvent Extraction
1-L	Grinding (Comminutors)	1-X	Sorption
CHEMIC	AL TREATMENT PROCESSES		
2-A	Carbon Absorption	2-G	Disinfection (Ozone)
2-B	Chemical Oxidation	2-H	Disinfection (Other)
2-C	Chemical Precipitation	2-I	Electrochemical Treatment
2-D	Coagulation	2-J	Ion Exchange
2-E	Dechlorination	2-K	Neutralization
2-F	Disinfection (Chlorine)	2-L	Reduction
BIOLOGI	CAL TREATMENT PROCESSES		
3-A	Activated Sludge	3-E	Pre-Aeration
3-B	Aerated Lagoons	3-F	Spray Irrigation/Land Application
3-C	Anaerobic Treatment	3-G	Stabilization Ponds
3-D	Nitrification-Denitrification	3-H	Trickling Filtration
OTHER F	PROCESSES		
4-A	Discharge to Surface Water	4-C	Reuse/Recycle of Treated Effluent
4-B	Ocean Discharge Through Outfall	4-D	Underground Injection
SLUDGE	TREATMENT AND DISPOSAL PROCESSES		
5-A	Aerobic Digestion	5-M	Heat Drying
5-B	Anaerobic Digestion	5-N	Heat Treatment
5-C	Belt Filtration	5-O	Incineration
5-D	Centrifugation	5-P	Land Application
5-E	Chemical Conditioning	5-Q	Landfill
5-F	Chlorine Treatment	5-R	Pressure Filtration
5-G	Composting	5-S	Pyrolysis
5-H	Drying Beds	5-T	Sludge Lagoons
5-I	Elutriation	5-U	Vacuum Filtration
5-J	Flotation Thickening	5-V	Vibration
5-K	Freezing	5-W	Web Oxidation
5-L	Gravity Thickening		

2.2 A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the "Maximum Daily" columns. Report the average of all daily values measures during days when discharge occurred within the last year in the "Long Term Average" columns.

#### **PRODUCTION**

- 2.3 A. All effluent limitation guidelines (ELGs) promulgated by EPA appear in the Federal Register and are published annually in 40 CPR Subchapter N (400-499). A guideline applies to you based on the applicability sections within each subpart. If you are unsure you are covered by an ELG, check with your Missouri Department of Natural Resources' Regional Office. You must check yes if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check no. The ELG number and subpart(s) must be included.
- 2.3 B. An ELG is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants, or requires no discharge of the wastewater.
- 2.3 C. This item must be completed if you checked "yes" to item B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated. Report quantities and the units of measurement used in the applicable effluent guideline. The data provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation, but may not be based on design capacity or on predictions of future increases in operation. This data must be concurrent of facility operations.
- 2.4 IMPROVEMENTS If you check yes to this question, complete all parts of the table, or attach a copy of any previous submission you have made containing the same information. You are not required to submit a description of future pollution control projects if you do not wish to, or if none are planned.
- 2.5 SLUDGE MANAGEMENT If the facility generates any sludge or biosolids, please indicate where the sludge accumulates (lagoon, tank, etc.) and the methods of disposal. Please include the volume and frequency of sludge removal/disposal and any haulers used. Please indicate if the facility composts, incinerates, landfills, stores, sells, or other methods of eliminating the sludge from lagoons or holding tanks. Consider submitting a sludge or biosolids management plan electronically if additional description is needed.

#### DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS

- 3.0 This section requires collection and reporting of data on pollutants discharged from each outfall, including stormwater outfalls, non-process wastewater, and any intake data you wish to provide. Parts A, B, and C address different sets of pollutants and must be completed in accordance with the specific instructions for the part. All data must be reported as a concentration **and** as total mass. You may report some or all of the required data by attaching separate sheets of paper.
- 3.0 A. and B. These sections are found on Table 1. Complete a separate table for each outfall and intake.
- 3.0 A. Requires reporting at least one analysis for each pollutant. Part A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water, stormwater runoff, or other discharges; intake values are not required in this Part. Upon written request, (email is suitable) prior to submitting the application, the department may waive the requirements to test for one or more of these pollutants upon determining testing for the pollutant(s) is not applicable for your effluent.
- 3.0 B. Mark "X" in either "Believed Present", Column 2A, or "Believed Absent", Column 2B, for each pollutant, based on your best estimate, and test those you believe present. Base your determination a pollutant is present in, or absent from, your discharge on your knowledge of your raw materials, source water, maintenance chemicals, intermediate, byproduct, and final products, and any previous analyses known to you of the facility's effluent, or of any similar effluent. If either chloride or sulfate is believed present, the department asks you to test for both chloride and sulfate. If you expect a pollutant is present as a result your intake water, you should mark "Believed Present" and analyze for the pollutant. Provide analysis of the intake or source water as well; this includes water withdrawn from wells or obtained from a potable water source. Presence of a pollutant in the discharge from sourced water does not eliminate disclosure requirements. If a

pollutant is reported as not present, the pollutant will be considered "believed absent" for the purposes of application shield.

#### 3.0 A and B Continued

Use the following abbreviations (or other as applicable) in Column 4, "Units". Mass must be specified as per day, month, or year.

	CONCENTRATION	MASS				
ppm	parts per million	lbs	pounds			
mg/L	milligrams per liter	ton	tons (English tons)			
ppb	parts per billion	mg	Milligrams			
ug/L	micrograms per liter	g	grams			
pCi/L	picocuries per liter	kg	kilograms			
		Т	tonnes (metric tons)			

MAXIMUM DAILY VALUE. If you measure a pollutant only once, complete only the "Maximum Daily Value" columns and insert "1" into the "number of analyses" in Column D. The Missouri Department of Natural Resources may require you to conduct additional analyses to further characterize your discharge. If the pollutant is sampled but not detected, a less than "<" symbol should be used next to the detection limit (or laboratory reporting limit). Simply stating "below detection limits" without quantifying the limit of detection may not be appropriate and additional information may be required.

MAXIMUM 30 DAY VALUES. "Maximum 30 Day Values" are not compulsory but should be filled out if data is available. The department suggests at least 4 samples (one per week) be collected over a one month period for averaging purposes, but is not required. Determine the average of all daily values taken during one calendar month, and report the highest average of all daily values taken during all calendar months, and report the highest average in Column B. Column D must show the number of samples used in the calculation.

LONG TERM AVERAGES. "Long Term Average Values" are not compulsory but should be filled out if data is available. Determine the long term average of all the data and report in Column C. Column D must show the number of samples used in the calculations. The facility should include a statement describing the timeframe of the data used in the calculations. Consider including an electronic copy of the data with the application.

SAMPLING. The collection of samples for analyses should be supervised by a person experienced in performing sampling of industrial wastewater and/or stormwater. You may contact your Missouri Department of Natural Resources' Regional Office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate or blank samples, etc. The time when you sample should be representative of your normal operation, with all processes contributing wastewater in normal operation, and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, at a site specified in your present permit, or for new discharges, at any site adequate for the collection of a representative sample.

GRAB SAMPLE. An individual sample of sufficient volume for analysis, collected at a randomly selected time, over a period not exceeding 15 minutes, which is representative of the discharge. Grab samples must be used for temperature, pH, total residual chlorine, oil and grease, *E. coli*, and any pollutant considered to be volatile. Grab samples are typically appropriate for stormwater.

COMPOSITE SAMPLE. Use composite sampling (if available) for all pollutants (except above). A combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be proportional; either time interval proportional, or flow proportional. Aliquots may be collected manually or automatically.

ANALYSIS. You must use test methods promulgated in 40 CFR Part 136 for all analyses. The facility must use a sufficiently sensitive method to determine compliance with Missouri Water Quality Standards in accordance with Standard Conditions Part I. If no method has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge. If there is no promulgated method, your attached description should include the preservation techniques, sample holding times, the quality control measures which you used, and any other

pertinent information, such as filtering or what fraction the method detects. For obscure methods or new contaminants, consider including an electronic copy of the method with the application and the laboratory analysis sheets.

IDENTICAL OUTFALL CONSIDERATION. If you have two or more substantially identical outfalls, you may submit the results of the analysis for one substantially identical outfall in its place. Identify which outfall you did test and describe why the outfalls which you did not test are substantially identical to the outfall you did test.

REPORTING OF INTAKE DATA. You are not required to report intake data unless you wish apply for "net" effluent limitations for one or more pollutants. Net limitations are technology limits adjusted by subtracting the level of the pollutant present in the intake water from the discharge. National Pollutant Discharge Elimination System (NPDES) regulations allow net limitations only in certain circumstances. To demonstrate eligibility, report the maximum and average of the results of analyses on the intake water, attach a statement the intake water is drawn from the same body of water into which the discharge is made, and a statement how the pollutant level is reduced by the wastewater treatment. When applicable, a demonstration to the extent the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in the discharge; for example, when the pollutant represents a class of compounds.

3.0. C. requires listing any pollutants from "TABLE B – TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT" you believe to be present and explain why you believe them to be present. If you have analytical data, you must report it. You may include other pollutants not listed below but present in your discharge in 3.0 C. Please provide Chemical Abstract Service (CAS) numbers for any additional pollutants described. If the facility is required to complete Form D, duplication of the parameters here is not required.

TABLE B – TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT									
TOXIC POLLUTANT	HAZARDOUS SUBSTANCES	HAZARDOUS SUBSTANCES							
Asbestos	Dimethylamine	Napthenic acid							
HAZARDOUS SUBSTANCES	Dintrobenzene	Nitrotoluene							
Acetaldehyde	Diquat	Parathion							
Allyl alcohol	Disulfoton	Phenolsulfonate							
Allyl chloride	Diuron	Phosgene							
Amyl acetate	Epichlorohydrin	Propargite							
Aniline	Ethion	Propylene oxide							
Benzonitrile	Ethylene diamine	Pyrethrins							
Benzyl chloride	Ethylene dibromide	Quinoline							
Butyl acetate	Formaldehyde	Resorcinol							
Butylamine	Furfural	Strontium							
Captan	Guthion	Strychnine							
Carbaryl	Isoprene	Sytrene							
Carbofuran	Isopropanolamine	2,4,5-T (2,4,5-Trichloro-phenoxyacetic acid)							
Carbon disulfide	Kelthane	TDE (Tetrachlorodiphenyl ethane)							
Chlorpyrifos	Kepone	2, 4, 5-TP (2-(2,4,5-Trichloro-phenoxy) propanoic acid)							
Coumaphos	Malathion	Trichlorofon							
Cresol	Mercaptodimethur	Triethanolamine							
Crotonaldehyde	Methoxychlor	Triethaylamine							
2,4-D (2,4-Dichloro-Phenoxyacetic acid)	Methyl mercaptan	Uranium							
Diazinon	Methyl parathion	Vanadium							
Dicamba	Mevinphos	Vinyl acetate							
Dichlobenil	Mexacarbate	Xylene							
2,2-Dichloropropionic acid	Monethyl amine	Xylenol							
Dichlorvos	Monomethyl amine	Zirconium							
Diethylamine	Nalad								

- 3.1 Self-explanatory.
- 3.2 Self-explanatory.

#### 4.0 STORMWATER [10 CSR 20-6.200(2)(C)1.]

In accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II), the facility must sample the stormwater for any pollutant listed in the permit for process wastewater discharges and/or the applicable Effluent Limitation Guideline. All industrial stormwater must be sampled for parameters listed in 10 CSR 20-6.200(2)(C)1.E.(III); these are: oil and grease, pH, biochemical oxygen demands (BOD<sub>5</sub>), chemical oxygen demands (COD), total suspended solids (TSS), conductivity, total phosphorus, total Kjeldahl nitrogen, and nitrate plus nitrite nitrogen.

- 4.1 Indicate the outfall numbers for industrial stormwater discharges. Provide the area drained by each outfall. Indicate the type and percentages of surface(s), for example: 60% grass or vegetated areas, 10% non-vegetated soils, 30% pavement, etc., the outfall drains. The facility must indicate any structural best management practices, such as settling/retention, rain garden/infiltration, filter socks, etc, employed at each outfall.
- 4.2 Describe the method used to determine the flow rate in accordance with 10 CSR 20-6.200(2)(C)1., and the flow rate; submit the date and duration of the storm event from which the samples were taken.
- 5.0 SIGNATORY REQUIREMENTS The Clean Water Act provides for severe penalties for submitting false information on this application form. Section 309(c)(2) of the Clean Water Act provides "Any person who knowingly makes any false statement, representation, or certification in any application . . . shall upon conviction, be punished by a fine of no more \$10,000 or by imprisonment for not more than six months, or both.

All applications must be signed as follows and the signature must be original. For a corporation: by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters. For a partnership or sole proprietorship: by a general partner or the proprietor. 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.

FORM C	TABLE 1	FOR 3.0 - ITEMS A AND E

		•	•	•								
EFFLUENT (AND INTA	(E) CHAF	RACTERI	STICS	THIS OUTFA	LL IS:	•				OUTFALL NO.		
3.0 PART A – You must	provide th	he results	of at least one ar	nalysis for every	pollutant in Part	A. Complete o	ne table for each ou	ıtfall or proposed	outfall. See	instructions.		
	2. VALUES										ecify if blank)	
1. POLLUTANT		A. MAXIMU	M DAILY VALUE	B. M	MAXIMUM 30 DAY VALU	ES	C. LONG TERM AVER	RAGE VALUES	D. NO. OF	A CONCEN		
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS (	1) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	
A. Biochemical Oxygen Demand, 5-day (BOD₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE		•	VALUE		VAL	UE			MILLIONS OF GALLONS PER DAY (MGD)		
G. Temperature (winter)	VALUE			VALUE	VALUE			ALUE			°F	
H. Temperature (summer)	VALUE			VALUE	VALUE			UE				
I. pH	MINIMUM			MAXIMUM	MAXIMUM AVERAGE					STANDARD	UNITS (SU)	
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	tant, you	must prov										
1. POLLUTANT	2. MAI	RK "X"			3. VALUES							
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM D	AILY VALUE	B. MAXIMUM 3	0 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	B. MASS	
(ii available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. WASS	
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants									
A. Alkalinity (CaCO <sub>3</sub> )			MINIMUM		Мінімим		MINIMUM					
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MAI	RK "X"		3. VALUES						4. UN	ITS
1. POLLUTANT AND CAS NUMBER	A DELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	80 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)			•				
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus (as P), Total (7723-14-0)											
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)											
P. Sulfide (as S)											
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals									•	•	
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MA	RK "X"		3. VALUES							IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											<u> </u>
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											<u> </u>
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	У	•					•	•	•		
1R. Alpha Total											
2R. Beta Total											1
3R. Radium Total											<u> </u>
4R. Radium 226 plus 228 Total											<u> </u>

FORM C	TABLE 1	FOR 3.0 - ITEMS A AND E

		•	•	•							
EFFLUENT (AND INTA	(E) CHAF	RACTERI	STICS	THIS OUTFA	LL IS:					OUTFALL NO.	
3.0 PART A – You must	provide th	he results	of at least one ar	nalysis for every	pollutant in Part	A. Complete o	ne table for each ou	tfall or proposed	outfall. See	instructions.	
					2. VALUE	s				3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	M DAILY VALUE	B. M	MAXIMUM 30 DAY VALU	ES	C. LONG TERM AVER	AGE VALUES	D. NO. OF	A CONCEN	
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS (	I) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD₅)											
B. Chemical Oxygen Demand (COD)											
C. Total Organic Carbon (TOC)											
D. Total Suspended Solids (TSS)											
E. Ammonia as N											
F. Flow	VALUE			VALUE	·	VAL	JE .			MILLIONS OF GAI	
G. Temperature (winter)	VALUE			VALUE		VAL	UE			°F	=
H. Temperature (summer)	VALUE			VALUE		VAL	UE			°F	•
I. pH	MINIMUM			MAXIMUM		AVE	RAGE			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	tant, you	must prov									
1. POLLUTANT	2. MAI	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM D	AILY VALUE	B. MAXIMUM 3	0 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	B. MASS
(ii available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. WASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants								
A. Alkalinity (CaCO <sub>3</sub> )			MINIMUM		Мінімим		MINIMUM				
B. Bromide (24959-67-9)											
C. Chloride (16887-00-6)											
D. Chlorine, Total Residual											
E. Color											
F. Conductivity											
F. Cyanide, Amenable to Chlorination											

	2. MAI	RK "X"		3. VALUES						4. UN	ITS
1. POLLUTANT AND CAS NUMBER	A DELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	80 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)			•				
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus (as P), Total (7723-14-0)											
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)											
P. Sulfide (as S)											
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals									•	•	
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MA	RK "X"		3. VALUES							IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											<u> </u>
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											<u> </u>
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	У	•					•	•	•		
1R. Alpha Total											
2R. Beta Total											1
3R. Radium Total											<u> </u>
4R. Radium 226 plus 228 Total											<u> </u>

FORM C	TABLE 1	FOR 3.0 - ITEMS A AND E

		•	•	•							
EFFLUENT (AND INTA	(E) CHAF	RACTERI	STICS	THIS OUTFA	LL IS:					OUTFALL NO.	
3.0 PART A – You must	provide th	he results	of at least one ar	nalysis for every	pollutant in Part	A. Complete o	ne table for each ou	tfall or proposed	outfall. See	instructions.	
					2. VALUE	s				3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	M DAILY VALUE	B. M	MAXIMUM 30 DAY VALU	ES	C. LONG TERM AVER	AGE VALUES	D. NO. OF	A CONCEN	
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS (	I) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD₅)											
B. Chemical Oxygen Demand (COD)											
C. Total Organic Carbon (TOC)											
D. Total Suspended Solids (TSS)											
E. Ammonia as N											
F. Flow	VALUE			VALUE	·	VAL	JE .			MILLIONS OF GAI	
G. Temperature (winter)	VALUE			VALUE		VAL	UE			°F	=
H. Temperature (summer)	VALUE			VALUE		VAL	UE			°F	•
I. pH	MINIMUM			MAXIMUM		AVE	RAGE			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	tant, you	must prov									
1. POLLUTANT	2. MAI	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM D	AILY VALUE	B. MAXIMUM 3	0 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	B. MASS
(ii available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. WASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants								
A. Alkalinity (CaCO <sub>3</sub> )			MINIMUM		Мінімим		MINIMUM				
B. Bromide (24959-67-9)											
C. Chloride (16887-00-6)											
D. Chlorine, Total Residual											
E. Color											
F. Conductivity											
F. Cyanide, Amenable to Chlorination											

	2. MAI	RK "X"		3. VALUES						4. UN	ITS
1. POLLUTANT AND CAS NUMBER	A DELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	80 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)			•				
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus (as P), Total (7723-14-0)											
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)											
P. Sulfide (as S)											
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals									•	•	
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MA	RK "X"		3. VALUES							IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											<u> </u>
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											<u> </u>
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	У	•					•	•	•		
1R. Alpha Total											
2R. Beta Total											1
3R. Radium Total											<u> </u>
4R. Radium 226 plus 228 Total											<u> </u>

Google Earth Sedalia-MO Facility Permit MO-0098132 WireCo WorldGroup Legend Outfall Itfall 3

STORM WATER TOW