STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0110086

Owner: Warco Manufacturing Co., Inc.

Address: P.O. Box 48, Marthasville, MO 63357

Continuing Authority: Same as above Address: Same as above

Facility Name: Warco Manufacturing Company, Inc.

Facility Address: 13497 State Road D, Marthasville, MO 63357

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

Receiving Stream: Tributary to Tuque Creek
First Classified Stream and ID: Tuque Creek (P) WBID#1610
USGS Basin & Sub-watershed No.:Lower Missouri; 10300200-0506

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 electrical ceramics; SIC # 3264, 4952; NAICS # 327110; Sludge is managed by retaining in the lagoon and removing as needed. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Domestic wastewater is managed by sending to a sub-surface system <3,000 gallons/day.

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.

January 1, 2022 Effective Date

December 31, 2025

Expiration Date

Chris Wieberg, Director, Water Protection Program

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FACILITY DESCRIPTION (CONTINUED)

Warco Manufacturing Inc. manufactures electrical ceramics for transformers and related purposes. The ceramics are made of high quality clay slabs, molded, dried, and glazed on-site. They also have a foundry for aluminum, brass, and copper for joining to the insulator. All metal fines are collected and recycled. The facility discharges process wastewater from an inside floor drain to a lagoon with one discharging outfall. This wastewater is largely produced from rinsing molds and the tilter press and consists of water high in suspended sediment and semi-fluid slip material. The wastewater lagoon previously also received domestic wastewater from the facility; however, this lagoon usage has been discontinued. The lagoon has not been cleaned since the domestic use; therefore, it is still classified as a domestic waste holding structure. Cooling water is produced by this facility but is not discharged; it is currently recycled back into the cooling system or hauled by a contract hauler.

Domestic waste is now discharged through a subsurface land application system with a septic tank. It is regulated by the Warren County Health Department as the design flow is less than 3000 gallons per day.

The facility also has one storm water outfall which receives water from the shipping and receiving portion of the facility as well as open-top dumpsters which contain clay discard and damaged/unsaleable product. All of the manufacturing process is conducted under-roof. All oils and coolants are stored under-roof. The loading dock activities do not take place under-roof. Pallets and cardboard are stored outside. Shipping containers that originally contained copper are also stored outside; the copper product is removed prior to outdoor storage.

There is a large propane tank outside, along with a storage tank which contains fuel oil for the facility's furnace, which is inside secondary containment.

OUTFALL #001 - Process Wastewater

Receives process water from a two cell aerated earthen lagoon. Industrial and domestic sludge is retained in the lagoon.

Legal Description: SE¹/₄, SW¹/₄, Sec.21, T45N, R1W, Warren County

UTM Coordinates: X = 671346, Y = 4278373

Design Flow: 0.0040 MGD Average Flow: 0.0022 MGD

OUTFALL #002 - Stormwater

Receives stormwater from the loading dock and parking lot of the facility.

Legal Description: SE¹/₄, SW¹/₄, Sec.21, T45N, R1W, Warren County

UTM Coordinates: X = 671337, Y = 4278243

Maximum Flow: 0.12 MGD (based on 10 year 24 hour rain event)

PERMITTED FEATURE #003 – Wastewater holding lagoon,

Two cell aerated earthen lagoon. Receives industrial process wastewater. Previously received domestic wastewater; sludge from this use has not been removed.

Legal Description: SE¹/₄, SW¹/₄, Sec.21, T45N, R1W, Warren County

UTM Coordinates: X = 671346, Y = 4278373

Design Flow: 0.0040 MGD Average Flow: 0.0022 MGD

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001 Process Wastewater	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>January 1, 2022</u> and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:									
			Final Efflui	ENT LIMITATIONS	Monitoring R	LEQUIREMENTS			
EFFLUENT PARAME	TERS	Units	Daily Maximum	Monthly Average	Measurement Frequency	SAMPLE TYPE			
LIMIT SET: M									
PHYSICAL									
Flow		MGD	*	*	once/month	24 hr. total			
Temperature		°F	*	*	once/month	measured			
CONVENTIONAL									
Biochemical Oxygen Demar	nd	mg/L	45	30	once/month	grab			
Chemical Oxygen Demand		mg/L	120	90	once/month	grab			
E. coli ‡		#/100 ml	1030	206	once/month	grab			
Oil & Grease		mg/L	15	10	once/month	grab			
pH [†]		SU	6.5 to 9.0	6.5 to 9.0	once/month	grab			
Settleable Solids		mL/L/hr	1.5	1.0	once/month	grab			
Total Suspended Solids		mg/L	45	30	once/month	grab			
METALS									
Aluminum, Total Recoverab	le	μg/L	*	*	once/month	grab			
Zinc, Total Recoverable		μg/L	*	*	once/month	grab			
NUTRIENTS									
Ammonia as N									
(April 1 – Sept 30)		mg/L	3.6	1.4	once/month	grab			
(Oct 1 – March 31)		mg/L	7.5	2.9	once/month	grab			
					UE <u>FEBRUARY 28,</u> ER THAN TRACE AMO				
LIMIT SET: Q									
METALS									

LIMIT SET: Q					
METALS					
Copper, Total Recoverable	μg/L	*	*	once/quarter ◊	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>APRIL 28, 2022</u>.
THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #002 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 January 1, 2022 and remain in effect until expiration of the permit. Discharges shall be controlled, limited and monitored by the facility as specified below:								
EFFLUENT PARAMETER	a Livr	T TC	FINAL LIN	MITATIONS	BENCH-	Monitoring Req	UIREMENTS**	
EFFLUENT PARAMETER	S UNI	IIS	DAILY MAXIMUM	MONTHLY AVERAGE	MARKS	Measurement Frequency	SAMPLE TYPE	
LIMIT SET: Q								
PHYSICAL								
Flow	MC	3D	*		-	once/quarter ◊	24 Hr Est.	
Precipitation	incl	nes	*		-	once/quarter ◊	measured	
CONVENTIONAL								
Chemical Oxygen Demand	mg	;/L	120		-	once/quarter ◊	grab	
Oil & Grease	mg	;/L	15		-	once/quarter ◊	grab	
pH [†]	SU	U	6.5 to 9.0		-	once/quarter ◊	grab	
Settleable Solids	mL/I	L/hr	**		1.5	once/quarter ◊	grab	
Total Suspended Solids	mg	;/L	**		100	once/quarter ◊	grab	
METALS								
Aluminum, Total Recoverable	μg	/L	*		-	once/quarter ◊	grab	
Copper, Total Recoverable	μg	/L	*		-	once/quarter ◊	grab	
Zinc, Dissolved	μg	/L	*		-	once/quarter ◊	grab	
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2022. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.								

Process and Domestic Wastewater Lagoon	TABLE A-3 FINAL MONITORING REQUIREMENTS				
The facility is not authorized to discharge from this feature. The final requirements shall become effective on <u>January 1, 2022</u> and remain in effuntil expiration of the permit. This feature shall be monitored and operationally controlled by the facility as specified below:					
Monitoring Parameters		MONITORING REQUIREMENTS			
		REPORTING REQUIREMENTS			

LIMIT SET: OM

DEDMITTED BEATURE #003

Lagoon Operational Monitoring Report *** once/year

MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u>; THE FIRST REPORT IS DUE <u>JANUARY 28, 2023</u>.

NO DISCHARGES ARE AUTHORIZED FROM THIS FEATURE

- * Monitoring and reporting requirement only
- ** Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.
- *** Annual operating report shall be submitted by January 28th of each year for the previous calendar year period. The summarized annual operating report shall include the following: Record of maintenance, repairs, and corrective actions performed on the lagoon during the year, number of times per month the holding structure is checked to see if it is operating properly, record of lagoon berm conditions (erosion, slope ratio, etc.) at time of checks, and description of any unusual operating conditions encountered during the year. Also included will be monthly measurements of freeboard in both cells of the lagoon.
- ** Precipitation Event Monitoring Requirement: all samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and occurring at least 72 hours from the previously measurable precipitation event. If a discharge does not occur within the reporting period, report as no discharge. The total amount of precipitation should be noted from the event from which the samples were collected.

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- ‡ *E. coli*: final limitations and monitoring requirements are applicable only during the recreational season from April 1 through October 31. The monthly average limit for *E. coli* is expressed as a geometric mean.
- † pH: the facility will report the minimum and maximum values; pH is not to be averaged.

♦ Quarterly Monitoring

MINIMUM QUARTERLY SAMPLING REQUIREMENTS							
QUARTER	Months	QUARTERLY EFFLUENT PARAMETERS	REPORT IS DUE				
First	January, February, March	Sample at least once during any month of the quarter	April 28 th				
Second	April, May, June	Sample at least once during any month of the quarter	July 28 th				
Third	July, August, September	Sample at least once during any month of the quarter	October 28th				
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28 th				

B. STANDARD CONDITIONS

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

C. SPECIAL CONDITIONS

- 1. Spills, Overflows, and Other Unauthorized Discharges.
 - (a) Any spill, overflow, or other discharge(s) not specifically authorized 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.
- 2. Any discharge not meeting permitted limits may be pumped and hauled to an accepting wastewater treatment facility, or otherwise properly disposed.
- 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 for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due.
- 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 not 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 March 2021) https://www.epa.gov/sites/production/files/2021-03/documents/swppp guide industrial 2021 030121.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.

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C. SPECIAL CONDITIONS (CONTINUED)

- (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 a responsible individual 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.
- 5. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
 - (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters should remain closed when not in use.
 - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
 - (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, 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) Ensure adequate provisions are provided to prevent surface water intrusion into the wastewater storage basin and to divert stormwater runoff around the wastewater storage basin.
 - (f) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (g) Remove sediment from stormwater sediment pond(s) no less than every ten years, or more frequently dependent on the amount of sediment received; sediment accumulated shall be no more than 20% total volume or as prescribed in the engineering design, whichever is less. Records must be retained since last cleanout and submitted with the application for renewal.
 - (h) Fire protection test water must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, source water, effluent destination, BMPs, etc.) in the application for renewal. If fire protection test water is not produced, note this instead.
 - (i) After snow or ice, if the facility applies sand/salt to the pavement of parking lots, sidewalks, or stairs, the facility shall sweep the lots to remove sand/salt as soon as possible after snow or ice melt, collect excess solids, and minimize and control the discharge of solids into stormwater inlets. Salt and sand shall be stored in a manner minimizing mobilization in stormwater (for example: under roof, in covered container, in secondary containment, under tarp, etc.).
- 6. Stormwater Benchmarks. This permit stipulates numeric 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, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce pollutant concentrations in 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

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C. SPECIAL CONDITIONS (CONTINUED)

- 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 numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark(s), is a permit violation.
- (e) Stormwater benchmarks and required minimum BMPs as described in this permit are enforceable permit conditions. Any requested change(s) to numeric benchmark values or deviation from minimum BMP requirements must be established through the permitting process. Assessment, evaluation, and implementation of specific BMPs to meet numeric benchmarks or minimum BMP requirements, must be addressed through the SWPPPs and CARs.
- 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. All outfalls and permitted features must be clearly marked in the field.
- 9. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report nodischarge when a discharge has occurred.
- 10. 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, §A, No. 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).
- 11. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 12. This permit does not cover land disturbance activities.
- 13. 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.
- 14. This permit does not allow stream channel or wetland alterations unless approved by Clean Water Act §404 permitting authorities.
- 15. This permit does not authorize in-stream treatment, 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.
- 16. All records required by this permit may be maintained electronically per 432.255 RSMo. These records should be maintained in a searchable format.
- 17. Changes in Discharges of Toxic Pollutant.

 In addition to the reporting requirements under 40 CFR 122.41, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director per 40 CFR 122.42(a)(1) and (2) as soon as recognizing:

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C. SPECIAL CONDITIONS (CONTINUED)

- (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 µg/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 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for the 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).
- (c) Authorization of new or expanded pollutant discharges may be required under a permit modification or renewal, and may require an antidegradation review.
- 18. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, as well as an antidegradation determination if appropriate, to request authorization of new or expanded discharges.
- 19. 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.
- 20. The berms of the lagoons and storage basins shall be moved and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.
- 21. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the lagoons and storage basins and to divert stormwater runoff around the lagoon and protect embankments from erosion.
- 22. 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 complete Form A, and Form C. If the form names have changed, the facility should ensure they are submitting the correct forms as required by regulation.
 - (c) The facility must sample the stormwater outfalls and provide analysis for every parameter contained in the permit at any outfall for at the site in accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II)
 - (d) The facility may use the electronic submission system to submit the application to the Program, if available.
 - (e) This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

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D. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to 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-0110086

WARCO MANUFACTURING CO., INC.

The Federal Water Pollution Control Act (Clean Water Act (CWA) §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 (§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 644 RSMo as amended). MSOPs may also cover underground injection, non-discharging facilities, and land application facilities. Permits 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 applicable regulations, rationale for the development of limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or permit) listed below. A factsheet is not an enforceable part of a permit.

PART I. FACILITY INFORMATION

Facility Type: Industrial: <1 MGD

 SIC Code(s):
 3264, 4952

 NAICS Code(s):
 327110

 Application Date:
 7/9/2020

 Modification Date:
 3/7/2017

 Expiration Date:
 12/31/2020

 Last Inspection:
 8/11/2020

FACILITY DESCRIPTION:

Warco Manufacturing Co,, Inc. manufactures electrical ceramics for transformers and related purposes. The ceramics are made of high quality clay slabs, molded, dried, and glazed on-site. They also have a foundry for aluminum, brass, and copper for joining to the insulator. All metal fines are collected and recycled. The facility discharges process wastewater from an inside floor drain to a lagoon with one discharging outfall. This wastewater is largely produced from rinsing molds and the tilter press and consists of water high in suspended sediment and semi-fluid slip material. The wastewater lagoon previously also received domestic wastewater from the facility; however, this lagoon usage has been discontinued. The lagoon has not been cleaned since the domestic use; therefore, it is still classified as a domestic waste holding structure. Cooling water is produced by this facility but is not discharged; it is currently recycled back into the cooling system or hauled by a contract hauler.

Domestic waste is now discharged through a subsurface land application system with a septic tank. It is regulated by the Warren County Health Department as the design flow is less than 3,000 gallons per day.

The facility also has one storm water outfall which receives water from the shipping and receiving portion of the facility as well as open-top dumpsters which contain clay discard and damaged/unsaleable product. All of the manufacturing process is conducted under-roof. All oils and coolants are stored under-roof. The loading dock activities do not take place under-roof. Pallets and cardboard are stored outside. Shipping containers that originally contained copper are also stored outside; the copper product is removed prior to outdoor storage.

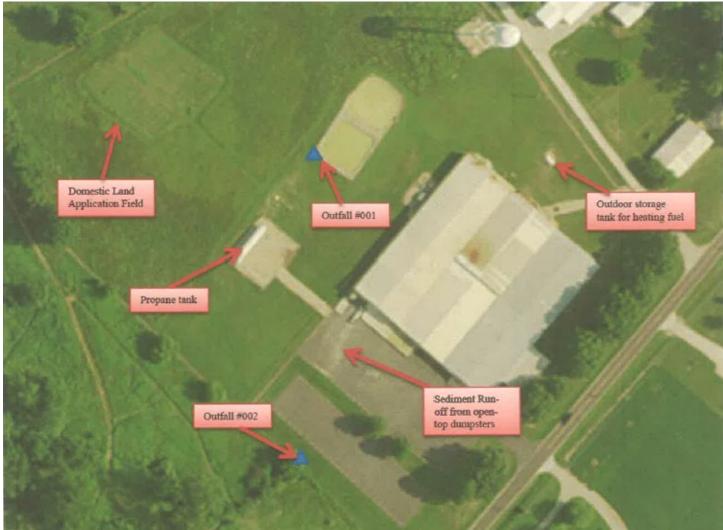
There is a large propane tank outside, along with a storage tank which contains fuel oil for the facility's furnace, which is inside secondary containment.

PERMITTED FEATURES TABLE:

IERWITTED	TEATURES TABLE.			
OUTFALL	AVERAGE FLOW	DESIGN FLOW	TREATMENT LEVEL	Effluent type
#001	0.0022 MGD	0.0040 MGD	Two Cell Aerated Lagoon	Industrial process water, residual domestic wastewater
#002	Dependent on precipitation	0.12 MGD*	BMPs	Industrial Impacted Stormwater

^{*}Estimated flow in a 10 year 24 hour rainfall event, based on Rational Method

FACILITY MAP:



FACILITY PERFORMANCE HISTORY & COMMENTS:

The electronic discharge monitoring reports were reviewed for the last five years. The facility reported either "no-discharge" or "operation shutdown" for the entire term of the permit at both outfalls #001 and #002. The facility was last inspected in August of 2020. The inspection noted a number of deficiencies at the site. The first letter of warning mentioned the failure to obtain a sample in any quarter of the previous two years. It was noted that the inspector conducting the inspection witnessed discharge coming from outfall #001. The second letter of warning noted the failure to develop and implement a SWPPP, retain monthly site inspection records, and provide training and/or retain employee stormwater training logs as required by MO0110086 Special Condition #11. The third letter of warning noted that the outfall pipe was damaged which was a failure to properly operate and maintain the facility. The fourth letter of warning noted the failure to implement/evaluate/maintain proper BMPs and storage practices. Examples consisted of failing to prevent the comingling of stormwater with clay found in the uncovered dumpster and clay being found at a site other than a permitted outfall. The fifth and final letter of warning mentioned the failure to operate under the requirements of the current MO0110086, by discharging process wastewater from an unpermitted outfall, which intermittently discharges to a tributary to Tuque Creek, waters of the state, without a correct Missouri State Operating Permit. A letter dated 3/8/2021 from the Department stated that a sufficient response was received from the facility which addressed the required actions to be taken in order for the facility to be back in compliance with Missouri's Clean Water Law.

CONTINUING AUTHORITY:

The Missouri Secretary of State continuing authority charter number for this facility is X00058749; this number was verified by the permit writer to be associated with the facility and precisely matches the continuing authority reported by the facility.

OTHER ENVIRONMENTAL PERMITS:

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other environmental permits currently held by this facility. This facility holds no other permits.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-digit HUC
W001	Tributary to Tuque Creek	n/a	n/a	GEN	0.6 mi	
#001	Tuque Creek	P	1610	ALP, HHP, IRR, LWW, SCR, WBC-B	0.44 mi	10300200-0506
#002	Tributary to Tuque Creek	n/a	n/a	GEN	0.0 mi	Lower Missouri
	Tuque Creek	P	1610	ALP, HHP, IRR, LWW, SCR, WBC-B	0.34 mi	

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: wetlands. 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 Number: 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 tp://msdis.missouri.edu/pub/Inland 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.

HUC: Hydrologic Unit Code; https://dnr.mo.gov/env/wpp/watersheds.htm has additional information about the watersheds in Missouri

Designated Uses:

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 is 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) do 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

Other Applicable Criteria:

10 CSR 20-7.031(4): GEN – general criteria; acute toxicity criteria applicable to all waters even those lacking designated uses

10 CSR 20-7.031(5)(N)6: NNC – lake numeric nutrient criteria apply

Water Quality Standards Search https://apps5.mo.gov/mocwis_public/waterQualityStandardsSearch.do

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; identified at 10 CSR 20-7.015(B)7 and 10 CSR 20-7.015(8)

EXISTING WATER QUALITY & IMPAIRMENTS:

The receiving waterbody(s) segment(s), upstream, and downstream confluence water quality was reviewed. No relevant water quality data was available. The USGS https://waterdata.usgs.gov/nwis/sw or the Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and https://apps5.mo.gov/wqa/ Impaired waterbodies was reviewed. https://apps5.mo.gov/wqa/ Impaired waterbodies which may be impacted by discharges from this facility were determined. Impairments include waterbodies on the 305(b) or 303(d) list and those waterbodies or watersheds under a TMDL. http://dnr.mo.gov/env/wpp/tmdl/ 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. http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm 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 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 for that watershed may be developed. The TMDL shall include the WLA calculation.

✓ The permit writer has noted no upstream or downstream impairments near this facility.

WATERBODY MONITORING REQUIREMENTS:

✓ No waterbody monitoring requirements are recommended at this time.

WATERBODY 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

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 reissuance conform to the anti-backsliding provisions of CWA §402(o), and 40 CFR 122.44.
 - ✓ 40 CFR 122.44(l)(i)(B)(2); the Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under CWA §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.
 - (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.

- 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 all parameters that would cause an excursion of the general criteria have been accounted for through effluent monitoring for zinc and copper.
 - 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.
- (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, including the consideration of
 WET testing. Numeric effluent limitations are included for those pollutants which could be discharged in toxic
 amounts. These effluent limitations are protective of human health, animals, and aquatic life. Specific toxic
 pollutants are discussed below in Derivation and Discussion of Limits, and where appropriate, numeric effluent
 limitations added.
- (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 260.200 RSMo, except as the use of such materials is specifically permitted pursuant to 260.200 through 260.247 RSMo.
 - 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.
 - There is no reasonable potential for the wastes listed above to be found in the receiving stream at any of the outfalls at this solid waste facility. 10 CSR 80-3.010(16)(A)-(C) require litter and solid wastes be controlled on the site for aesthetic purposes, preventing it from entering the stream.
- The previous permit special condition stated: "The permit establishes final ammonia limitations based on Missouri's current Water Quality Standard. On August 22, 2013, the U.S. Environmental Protection Agency (EPA) published a notice in the Federal Register announcing of the final national recommended ambient water quality criteria for protection of aquatic life from the effects of ammonia in freshwater. The EPA's guidance, Final Aquatic Life Ambient Water Quality Criteria for Ammonia Fresh Water 2013, is not a rule, nor automatically part of a state's water quality standards. States must adopt new ammonia criteria consistent with EPA's published ammonia criteria into their water quality standards that protect the designated uses of the water bodies. The Department of Natural Resources has initiated stakeholder discussions on how to best incorporate these new criteria into the State's rules. A date for when this rule change will occur has not been determined. Also, refer to Section IV of this permit's factsheet for further information including estimated future effluent limits for this facility. It is recommended the permittee view the Department's 2013 EPA criteria Factsheet located at http://dnr.mo.gov/pubs/pub2481.htm."
 - The permit writer has determined this special condition was no longer appropriate.
- 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.
- 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 stated: "Permittee will cease discharge by connection to a facility with an areawide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability."
 - The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
- The previous permit special condition stated: "The wastewater treatment facility must be sufficiently secured to restrict entry by children, livestock, and unauthorized persons as well as to protect the facility from vandalism."

 The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
- The previous permit special condition stated: "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."

 The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
- The previous permit special condition stated: "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. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. 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."

The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.

ANT DEGRADATION 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 http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm Per [10 CSR 20-7.015(4)(A)], new discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream, or 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 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. For assistance in determining the analysis, the EPA has provided examples of BMP analysis; https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/BMP-Performance-Analysis-Report.pdf and https://www.epa.gov/sites/production/files/2015-10/documents/optimal-sw-mgmt-plan-alternatives.pdf may be helpful to the facility. 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. https://www.epa.gov/npdes/industrial-stormwater-guidance Applicable; the facility must review and maintain stormwater BMPs as appropriate.

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 644.011 and 644.016 (17) RSMo.

COST ANALYSIS FOR COMPLIANCE (CAFCOM):

Pursuant to 644.145 RSMo, when incorporating a new requirement for discharges from publicly owned facilities, or when enforcing provisions of this chapter or the CWA, pertaining to any portion of a publicly owned facility, the Department 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 CWA. This process is completed through a CAFCom. 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) for technology treatments and 122.42(a)(1) for all other toxic substances. 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 listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for reporting under these rules in the permit. The facility should also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the permittee or other resource determined to be representative of the discharge, such as sampling by Department personnel.

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.

DISCHARGE MONITORING REPORTING - ELECTRONIC (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 requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historic data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis-public/dmrDisclaimer.do

Registration and other information regarding MoGEM can be found at https://dnr.mo.gov/mogem. Information about the eDMR system can be found at https://dnr.mo.gov/env/wpp/edmr.htm.The first user shall register as an Organization Official and the association to the facility must be approved by the Department. To access the eDMR system, use: https://apps5.mo.gov/mogems/welcome.action For assistance using the eDMR system, contact edmr@dnr.mo.gov or call 855-789-3889 or 573-526-2082. To assist the facility in entering data into the eDMR system, the permit describes limit sets designators in each table in Part A of the permit. Facility personnel will use these identifiers to ensure data entry is being completed appropriately. For example, M for monthly, Q for quarterly, A for annual, and others as identified.

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: http://dnr.mo.gov/forms/780-2692-f.pdf. A request must be made for each operating permit. 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.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS:

Domestic wastewater is defined as wastewater originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, wash water, animal waste, process and ancillary wastewater. Sewage sludge is solid, semisolid, 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 (WO422 through WO449).

✓ Permittee is not authorized to land apply biosolids. Sludge/biosolids are stored in the lagoon. The permittee must submit a sludge management plan for approval detailing removal and disposal plans when sludge is to be removed from the lagoons. However, because this facility's lagoon continues to contain domestic biosolids, the permit considers this to be a domestic wastewater basin in addition to holding industrial process wastewater. All contaminants of concern must be addressed when the lagoon is closed in accordance with 10 CSR 20-6.010(12).

EFFLUENT LIMITATIONS:

Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. Permits are required to establish the most stringent or most protective limit. If the TBEL or WQBEL does not provide adequate protection for the receiving water, then the other must be used per 10 CSR 20-7.015(9)(A) or 40 CFR 122.44(b)(1). See WASTELOAD ALLOCATION below which describes how WQBEL wasteload allowances are established under the permit. Effluent limitations derived and established for this permit are based on current operations of the facility. Any flow through the outfall is considered a discharge and must be sampled and reported as provided in the permit. Daily maximums and monthly averages are required per 40 CFR 122.45(d)(1) for continuous discharges (not from a POTW).

FEDERAL EFFLUENT LIMITATION GUIDELINES:

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. Effluent guidelines are not always established for every pollutant present in a point source discharge. In many instances, EPA promulgates effluent guidelines for an indicator pollutant. Industrial facilities complying with the effluent guidelines for the indicator pollutant will also control other pollutants (e.g. pollutants with a similar chemical structure). For example, EPA may choose to regulate only one of several metals present in the effluent from an industrial category, and compliance with the effluent guidelines will ensure similar metals present in the discharge are adequately controlled. All are technology based limitations which must be met by the applicable facility at all times. Should Reasonable Potential be established for any particular parameter, and water-quality derived effluent limits are more protective of the receiving water's quality, the WQS will be used as the limiting factor in accordance with 40 CFR 122.44(d) and 10 CSR 20-7.015(9)(A).

✓ The facility does not have an associated ELG.

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 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, 644.076.1 RSMo, as well as Part I §D – Administrative Requirements of Standard Conditions included in 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 §§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 644.016(27) RSMo, 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 as an alternative to discharging.

Requirements for these types of operations are found in 10 CSR 20-6.015; authority to regulate these activities is from 644.026 RSMo.

✓ Not applicable; this permit does not authorize operation of a surficial land application system to disperse wastewater or sludge.

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 https://dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm; 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. https://dnr.mo.gov/geology/wrc/majorwaterusers.htm 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). https://dnr.mo.gov/pubs/pub2236.htm

✓ Not applicable; this facility cannot withdraw water from the state in excess of 70 gpm or 0.1 MGD.

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 122.63, 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 https://dnr.mo.gov/pubs/pub2653.htm 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 requirement is applicable to all Missouri waterways.

✓ Not applicable; the total design flow is less than 0.1 MGD for all wastewater outfalls. However, the facility has effluent limits for Ammonia as N at outfall #001 as the two cell lagoon retains domestic sludge.

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: https://dnr.mo.gov/env/wpp/rules/documents/nutrient-implementation-plan-final-072618.pdf 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.

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) individuals. 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. Private entities are exempted from the population equivalent requirement unless the Department has reason to believe a certified operator is necessary.

PERMIT SHIELD:

Enforceable conditions, generally called permit shield, are found under CWA section 402(k) or Section 644.051.16, RSMo. All permits issued by the State of Missouri protect both the permittee and issuer from legal intervention, but only when all discharges and activities are clearly divulged by the facility; and when the issuer evaluates all discharges and activities during the renewal (or modification) process. During the facility review of the permit draft, it is both the facility's and Department's responsibility to ensure all types of effluent the facility wishes to discharge, or qualified activities the facility wishes to perform (such as land application), are authorized in some manner. Authorization may be either through an outfall established in the permit under the facility description heading, or after reviewing the fact sheet which should include a mention of the discharge (or activity) and endorsing the discharge (or

activity) as de minimis or through some other described determination. The Department must issue a legally binding and enforceable permit, which can only be completed through a thorough review from both parties.

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 644.016 RSMo are limitations on the introduction of pollutants or water contaminants into publicly owned treatment works or facilities.

✓ Not applicable, this facility does not discharge industrial wastewater to a POTW. Domestic wastewater is not subject to pretreatment requirements.

REASONABLE POTENTIAL (RP):

Regulations per 10 CSR 20-7.015(9)(A)2 and 40 CFR 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 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 use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD. An RPD consists of evaluating visual observations, non-numeric information, or small amounts of numerical data (such as 1 data point supplied in the application). A stormwater RPD consists of reviewing application data and/or discharge monitoring data and comparing those data to narrative or numeric water quality criteria. RPD decisions are based on minimal numeric samples, the type of effluent proposed for discharge, or the unavailability of numerical RPA for a parameter, such as pH, or oil and grease. Absent effluent data, effluent limits are derived without consideration of effluent variability and is assumed to be present unless found to be absent to meet the requirements of antidegradation review found in 10 CSR 20-7.031(3) and reporting of toxic substances pursuant to 40 CFR 122.44(f). Permit writers use the Department's permit writer's manual (http://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm), the EPA's permit writer's manual (https://www.epa.gov/npdes/npdes-permit-writers-manual), 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, inspection reports, 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.

Secondly, Permit writers 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 using an RPA calculator. RPAs cannot be performed on stormwater as the flow is intermittent.

✓ An RPA was not conducted for this facility. For outfall #001, there were not enough data points to conduct an RPA for ammonia or other parameters at this facility. For outfall #002, this permit establishes permit limits and benchmarks for stormwater. The department has determined stormwater is not a continuous discharge and is therefore not subject to mathematical RPAs. However, the permit writer completed and RPD, a reasonable potential determination, using best professional judgement for all of the appropriate parameters in this permit. An RPD consists of reviewing applications data and/or the discharge monitoring data for the last five years and comparing those data to the water quality standard.

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 644.051.13(5) RSMo 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 644.051.16 RSMo. Forms are located at: https://dnr.mo.gov/forms/#WaterPollution

SAMPLING FREQUENCY JUSTIFICATION:

Sampling and reporting frequency was generally retained from previous permit. 40 CFR 122.45(d)(1) indicates all continuous discharges, such as wastewater 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 or more often dependent on site needs. 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 644.029 RSMo. 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 specifically 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.

✓ Not applicable; this permit does not contain a SOC. Limits have not become more restrictive.

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 possible 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. https://dnr.mo.gov/env/esp/spillbill.htm

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.

✓ Permittee is not authorized to land apply industrial sludge. Sludge is stored in the lagoon. The permittee must submit a sludge management plan for approval that details removal and disposal plans when sludge is to be removed from lagoons; see DOMESTIC SLUDGE, above.

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) §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 §304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under §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. A BMP may take the form of a numeric benchmark. 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 https://www.epa.gov/sites/production/files/2015-11/documents/swppp_guide_industrial_2015.pdf, 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).

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), §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: https://dnr.mo.gov/forms/#WaterPollution

✓ 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, §A, No. 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 §§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 577.155 RSMo; 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 577.155 RSMo; 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. Thermal variances are regulated separately and are found under 644.

✓ 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 maximum amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Only streams with available load allocations can be granted discharge allowances.

Not applicable; wasteload allocations were either not calculated or were not based on typical TSD methods. See Part IV for specific limit derivation and methods used to calculate effluent limits.

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 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 LIMIT DETERMINATIONS

OUTFALL #001 - PROCESS WASTEWATER

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	REPORTING FREQUENCY	SAMPLE Type
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/MONTH	ONCE/MONTH	24 Нг. Тот
TEMPERATURE	°F	*	*	SAME	ONCE/MONTH	ONCE/MONTH	MEASURED
CONVENTIONAL							
BIOCHEMICAL OXYGEN DEMAND	mg/L	45	30	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
CHEMICAL OXYGEN DEMAND	mg/L	120	90	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
E. COLI	#/100 ml	1030	206	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
OIL & GREASE	mg/L	15	10	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
PH [†]	SU	6.5-9.0	6.5-9.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
SETTLEABLE SOLIDS	mL/L/hr	1.5	1.0	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	45	30	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
METALS							
ALUMINUM, TR	μg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
COPPER, TR	μg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
ZINC, TR	μg/L	*	*	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
NUTRIENTS							
Ammonia as N							
(April 1 – Sept 30)	mg/L	3.6	1.4	SAME	ONCE/MONTH	ONCE/MONTH	GRAB
(OCT 1 – MARCH 31)	mg/L	7.5	2.9	SAME	ONCE/MONTH	ONCE/MONTH	GRAB

TR total recoverable

monitoring and reporting requirement only report the minimum and maximum pH values; pH is not to be averaged

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), monthly monitoring continued from previous permit. The facility reported non-detect in the last permit term.

Temperature

Monitoring only continued from previous permit. In accordance with 10 CSR 20-7.031(5)(D), water contaminant sources shall not cause or contribute to stream temperature in excess of ninety degrees Fahrenheit (90 °F) or change the stream temperature by more than 5 degrees Fahrenheit.

CONVENTIONAL:

Biochemical Oxygen Demand (BOD₅)

Daily maximum limit of 45 mg/L and a monthly average limit of 30 mg/L. Effluent limitations from the previous permit have been reassessed and verified that they are still protective of the receiving stream's water quality. These limits are retained due to the domestic waste retained in the lagoon. Chemical Oxygen Demand (COD) is a more appropriate evaluator of oxygen demand in industrial wastewater; however, it is in the permit writer's best professional judgment to include BOD_5 to measure the stored domestic waste's influence on the effluent from this facility.

Chemical Oxygen Demand (COD)

Daily maximum limit of 120 mg/L and a monthly average limit of 90 mg/L. Effluent limitations from the previous permit have been reassessed and verified that they are still protective of the receiving stream's water quality. There is no water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD that may indicate materials/chemicals coming into contact with process water that cause an increase in oxygen demand, and may indicate a failure of the treatment mechanism in treating for this oxygen demand. COD is good evaluator of oxygen demand in industrial effluent.

Escherichia coli (E. coli).

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, 6, 10, and 5 (#/100mL). Geometric Mean = 5^{th} root of (1)(4)(6)(10)(5) = 5^{th} root of 1,200 = 4.1 #/100mL.

Oil & Grease

15 mg/L daily maximum; 10 mg/L monthly average. Previous permit required 10 mg/L daily maximum which is the chronic water quality standard. An acute water quality standard has been calculated below. 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 xylene, but these constituents are often lost during testing due to their boiling points. The facility reported "no discharge" each reporting period in the last permit term. 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 limit this permit applies does not allow the facility to violate general criteria even if data provided are below the numeric limit.

AQL Chronic: 10 mg/L per 10 CSR 20-7.031 Table A1

Set chronic standard equal to chronic WLA per TSD 5.4.2 (EPA/505/2-90-001); multiply by 1.5 to obtain acute limit. 10 mg/L * 1.5 = 15 mg/L

ηH

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater 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.

Settleable Solids (SS)

Daily maximum limit of 1.5 mL/L/hr and a monthly average of 1.0 mL/L/hr. There is no numeric water quality standard for SS; however, sediment discharges can negatively impact aquatic life. Increased settleable solids are known to interfere with multiple stages of the life cycle in many benthic organisms. For example, they can smother eggs and young or clog the crevasses benthic organisms use for habitat. Settleable solids are also a valuable indicator parameter. Solids monitoring allows the facility to identify increases in sediment and solids indicating uncontrolled materials leaving the site. The facility reported from non-detect or operation shutdown during the entire last permit term.

Total Suspended Solids (TSS)

Daily maximum of 45 mg/L, with a monthly average of 30 mg/L. Solids are a pollutant of concern with this facility. Their industrial process generates large amounts of both suspended and settleable solids. There is no water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. These limits are continued from the previous permit, and reflect the fact that the lagoon has not been cleaned since it was used for domestic purposes.

METALS:

Aluminum, Total Recoverable

Monitoring requirement only, continued from the previous permit. This facility uses kaolinite clay. Aluminum is a primary component in kaolinite, which has the general chemical formula of Al₂Si₂O₅(OH₄). Additionally, the facility reported using a glaze which contains feldspar. Aluminum is a primary component of feldspar.

Copper, Total Recoverable

Monitoring only continued from previous permit. This facility uses brass in its industrial process. Brass is an alloy of copper and zinc. During site visits, it has been observed that large amounts of metal fines collect on the floor of the production facility during the day. The facility is diligent in sweeping and recycling the fines, as they are valuable. However, the permit writer feels that as copper is used in the industrial process next to production areas where drains to the lagoon exist, it has the potential to be tracked into areas where drains are and discharged to the lagoon.

Zinc, Total Recoverable

Monitoring only continued from previous permit. This facility uses brass in its industrial process. Brass is an alloy of copper and zinc. During site visits, it has been observed that large amounts of metal fines collect on the floor of the production facility during the day. The facility is diligent in sweeping and recycling the fines, as they are valuable. However, the permit writer feels that as zinc is used in the industrial process next to production areas where drains to the lagoon exist, it has the potential to be tracked into areas where drains are and discharged to the lagoon. In addition, the permittee reported using a glaze which contains zinc oxide. During an inspection, it was noted that process water discharged to the lagoon was blue in color due to the glaze in the discharge.

NUTRIENTS:

Ammonia, Total as Nitrogen

Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(4)(B)7.C. & Table B3] default pH 7.8 SU No mixing considerations allowed; therefore, WLA = appropriate criterion. An RPA is not able to be conducted for this facility, as there are no data points available. The available previous data shows exceedances of the required limits; therefore the limits will be continued. These limits have changed slightly due to rounding differences, but they are largely the same. The daily maximum has changed in the summer season from 3.7 mg/L to 3.6 mg/L. The permit writer does not feel a schedule of compliance is appropriate for this limit change.

Season	Temp (°C)	pH (SU)	Total Ammonia Nitrogen CCC (mg/L)	Total Ammonia Nitrogen CMC (mg/L)
Summer	26	7.8	1.5	12.1
Winter	6	7.8	3.1	12.1

Summer: April 1 – September 30

Acute WLA: $C_e = ((0.006 + 0.0)12.1 - (0.0 * 0.01))/0.006$

Chronic WLA: $C_e = ((0.006 + 0.0)1.5 - (0.0 * 0.01))/0.006$

 $LTA_a = 12.1 \text{ mg/L } (0.321) = 3.9 \text{ mg/L}$

 $LTA_c = 1.5 \text{ mg/L} (0.780) = 1.2 \text{ mg/L}$

Use most protective number of LTA_a or LTA_c.

MDL = 1.2 mg/L (3.11) = 3.7 mg/L

AML = 1.2 mg/L (1.19) = 1.4 mg/L

 $C_e = 1.5 \text{ mg/L}$

 $C_e = 12.1 \text{ mg/L}$

[CV = 0.6, 99th Percentile]

 $[CV = 0.6, 99^{th} Percentile, 30 day avg.]$

 $[CV = 0.6, 99^{th} Percentile]$

 $[CV = 0.6, 95^{th} Percentile, n = 30]$

Winter: October 1 - March 31

Acute WLA: $C_e = ((0.006 + 0.0)12.1 - (0.0 * 0.01))/0.006$

Chronic WLA: $C_e = ((0.006 + 0.0)3.1 - (0.0 * 0.01))/0.006$

 $LTA_a = 12.1 \text{ mg/L } (0.321) = 3.9 \text{ mg/L}$ $LTA_c = 3.1 \text{ mg/L } (0.780) = 2.4 \text{ mg/L}$

Use most protective number of LTA_a or LTA_c.

MDL = 2.4 mg/L (3.11) = 7.46 = 7.5 mg/L

AML = 2.4 mg/L (1.19) = 2.85 = 2.9 mg/L

 $C_e = 12.1 \text{ mg/L}$ $C_e = 3.1 \text{ mg/L}$

 $[CV = 0.6, 99^{th} Percentile]$

 $[CV = 0.6, 99^{th} Percentile, 30 day avg.]$

 $[CV = 0.6, 99^{th} Percentile]$

 $[CV = 0.6, 95^{th} Percentile, n = 30]$

OUTFALL #002 – STORMWATER ONLY

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	Daily Maximum Limit	BENCH- MARK	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	24 HR. ESTIMATE
PRECIPITATION	inches	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	24 нг. тот
CONVENTIONAL							
COD	mg/L	120	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL & GREASE	mg/L	15	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
PH [†]	SU	6.5 - 9.0	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SETTLEABLE SOLIDS	mL/L/hr	**	1.5	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
TSS	mg/L	**	100	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
METALS							
ALUMINUM, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
COPPER, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
ZINC, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	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. The facility reported no-discharge or operation shutdown for the entire term of the previous permit.

Precipitation

Monitoring only requirement; measuring the amount of precipitation [(10 CSR 20-6.200(2)(C)1.E(VI)] during an event is necessary to ensure adequate stormwater management exists at the site. Knowing the amount of potential stormwater runoff can provide the facility a better understanding of any specific control measures be employed to ensure protection of water quality. The facility will provide the 24 hour accumulation value of precipitation from the day of sampling the other parameters.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Daily maximum limit of 120 mg/L continued from previous permit. There is no water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD that may indicate materials/chemicals coming into contact with stormwater that

cause an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. COD is a good evaluator of oxygen demand in industrial effluent.

Oil & Grease

15 mg/L daily maximum. The previous permit required 10 mg/L daily maximum using the chronic water quality standard. Stormwater discharges are acute in nature and vary widely in frequency, magnitude, and duration. 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 xylene, but these constituents are often lost during testing due to their boiling points. The facility reported no-discharge or operation shutdown in the last permit term. 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 limit this permit applies does not allow the facility to violate general criteria even if data provided are below the numeric limit. AQL Chronic: 10 mg/L per 10 CSR 20-7.031 Table A1

Set chronic standard equal to chronic WLA per TSD 5.4.2 (EPA/505/2-90-001); multiply by 1.5 to obtain acute limit. 10 mg/L * 1.5 = 15 mg/L

pH

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater 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.

Settleable Solids (SS)

Monitoring with a daily maximum benchmark of 1.5 mL/L/hour. Sediment and solids are pollutants of concern at this facility. The industrial process produces large amounts of both suspended and setteleable solids. There is no numeric water quality standard for SS; however, sediment discharges can negatively impact aquatic life habitat. Settleable solids are also a valuable indicator parameter. Solids monitoring allows the facility to identify increases in sediment and solids may indicate uncontrolled materials leaving the site. The benchmark value falls within the range of values implemented in other permits having similar industrial activities.

Total Suspended Solids (TSS)

Monitoring with a daily maximum benchmark of 100 mg/L. Solids are a pollutant of concern at this facility. Their industrial process generates large amounts of both suspended and settleable solids. It was observed during an inspection that a large amount of sediment was being discharged from an onsite dumpster, contributing to the watershed of outfall #002. 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:

Aluminum, Total Recoverable

Monitoring requirement only. This facility uses aluminum in its industrial process. Aluminum is also a common component in kaolinite clay (Al₂Si₂O₅(OH₄)), the primary material used in the industrial process. Large amounts of clay sediment were observed in the watershed contributing to outfall #002. Monitoring will be added per the permit writer's best professional judgment.

Copper, Total Recoverable

Monitoring requirement only. This facility uses brass in its industrial process. Brass is an alloy of copper and zinc. During a site visit, it was observed that large amounts of metal fines collect on the floor of the production facility during the day. The facility is diligent in sweeping and recycling the fines, as they are valuable. However, the permit writer feels that as copper is used in the industrial process, it may be tracked out of the facility by employees or equipment or discarded in the open top dumpster onsite. In addition, crates that previously contained copper are stored outdoors.

Zinc, Total Recoverable

Monitoring requirement only. This facility uses brass in its industrial process. Brass is an alloy of copper and zinc. During a site visit, it was observed that large amounts of metal fines collect on the floor of the production facility during the day. The facility is diligent in sweeping and recycling the fines, as they are valuable. However, the permit writers feels that as zinc is used in the industrial process, it may be tracked out of the facility or possibly discarded in the open top dumpster.

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:

Permits are normally issued on a five-year term, but to achieve watershed synchronization some permits will need to be issued for less than the full five years as 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. http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf. This will 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.

If the Department issues the permit at this time, the effective period of the permit would be less than one year in length. To ensure efficient use of Department staff time, reduce the Department's permitting back log, and to provide better service to the facility by avoiding another renewal application to be submitted in such a short time period, this operating permit will be issued for the maximum timeframe of five years and synced with other permits in the watershed at a later date.

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 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. http://dnr.mo.gov/env/wpp/permits/pn/index.html The Department must issue public notice of a pending operating 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 wishing to submit comments regarding this proposed operating permit, 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. All comments must be in written form.

✓ The Public Notice period for this operating permit was from October 8, 2021 to November 8, 2021. No responses were received.

DATE OF FACT SHEET: AUGUST 24, 2021

COMPLETED BY:

KYLE O'ROURKE, ENVIRONMENTAL PROGRAM SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 526-1289 Kyle.O'Rourke@dnr.mo.gov



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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.



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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 28th 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.
- 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



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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.



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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.



MO 780-1479 (02-19)

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

FOR AGENCY USE ONLY						
CHECK NUMBER						
DATE RECEIVED	FEE SUBMITTED					
JET PAY CONFIRMATIO	ON NUMBER					

		TRUCTIONS BEFORE COMPLETING THIS I		IED.					
IF YOU	JR FACILITY IS ELIGIBLE FOR A NO EXP	POSURE EXEMPTION:							
Fill out	the No Exposure Certification Form (Mo 78	80-2828): https://dnr.mo.gov/forms/780-2828-f.	pdf						
1. REA	SON FOR APPLICATION:								
☑ a.	This facility is now in operation under Missouri State Operating Permit (permit) MO – 0110086, is submitting an application for renewal, and there is no proposed increase in design wastewater flow. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.								
☐ b.									
☐ c.	This is a facility submitting an application permit fee is required.	for a new permit (for a new facility). Antidegra	dation Revie	w may be required. New					
☐ d.	This facility is now in operation under Mis modification to the permit. Antidegradation	ssouri State Operating Permit (permit) MO – on Review may be required. Modification fee is	ar	nd is requesting a					
2. FAC	ILITY								
	Manufacturing Company, Inc.		TELEPHONE 636-433-2	NUMBER WITH AREA CODE					
	(PHYSICAL)	CITY	STATE	ZIP CODE					
	State Road D	Marthasville	МО	63357					
3. OWN	NER								
	Manufacturing Company, Inc.		636-433-2	NUMBER WITH AREA CODE 2212					
	yer@warcoinc.com								
PO Box	(MAILING) 48	Marthasville	MO	63357					
4. CON	TINUING AUTHORITY								
NAME	li com		TELEPHONE	NUMBER WITH AREA CODE					
same as									
EWAIL ADI	DREGG								
ADDRESS	(MAILING)	CITY	STATE	ZIP CODE					
5. OPE	RATOR CERTIFICATION								
NAME N.A.		CERTIFICATE NUMBER	TELEPHONE	NUMBER WITH AREA CODE					
ADDRESS	(MAILING)	CITY	STATE	ZIP CODE					
6. FACI	LITY CONTACT	Minimum and the second second	*						
NAME	AME TITLE TELEPHONE NUMBER WITH AREA CODE								
Dale Loh	-	President	636-433	-2212					
	ver@warcoinc.com								
7. DOW	/NSTREAM LANDOWNER(S) Attach addit	ional sheets as necessary.							
NAME		•							
ADDRESS		CITY	1.9	STATE ZIP CODE					

8. ADDITIONAL FACILITY INFORMATION								
8.1 Legal Description of For Universal Transverse	Outfalls. (Attach addition Mercator (UTM), use Zone	onal sheets if ne	cessary.) to North American Da	um 1983 (NAD83	9)			
001 <u>SE</u> 1⁄4			45N R <u>1</u>					
UTM Coordinates Easti 002 <u>SE</u> ½	ng (X): 671346 <u>SW</u> ½ Se ng (X): 671337 <u>SW</u> ½ Se ng (X): 671346	Northing (Y): <u>4</u> c <u>21 </u>	45N R 1 1278373 — — R 1 1278243	W _ Warren_	Cou	nty		
UTM Coordinates Easti	ng (X): <u>671337</u>	_ Northing (1)	1210270			ntv		
UTM Coordinates Easti	SW ½ Se ng (X): 671346 % Se	Northing (Y): 4	278373	***************************************				
004		Northing (Y):	R_		Cou	nty		
8.2 Primary Standard Industr	ng (X):	d Facility North A	merican Industrial C	lassification Sv	stem (NAIC	CS) Codes.		
Primary SIC 3264	and NAIC <u>S 32711</u>	0	SI <u>C</u>	and NAI	C <u>S</u>			
	VAICS			and NA	IC <u>S</u>			
9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION A. Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculture facility? YES NO								
A. Is this permit for a man If yes, complete Form (ufacturing, commercial, r).	nining, solid/haza	rdous waste, or silvi	culture facility?	AE2 N	NO 🗀		
B. Is the facility considered If yes, complete Forms	d a "Primary Industry" un C and D.	der EPA guideline	es (40 CFR Part 122	, Appendix A) ;	YES 🗌	NO 🗹		
C. Is wastewater land app					YES 🗌	NO 🗹		
D. Are sludge, biosolids, a If yes, complete Form F	sh, or residuals generate R.	ed, treated, stored	, or land applied?		YES 🗌	NO 🗹		
environmental regulato	pplied for any permit or or ry authority? list of all permits or app			or any other	YES 🗌	NO 🗸		
	er in your operations at t ne source of the water: _				YES 🗌	NO 🗸		
G. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.								
10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM								
Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. One of the following must be checked in order for this application to be considered complete. Please visit http://dnr.mo.gov/env/wpp/edmr.htm to access the Facility Participation Package.								
✓ - You have completed and su	bmitted with this permit	application the red	quired documentatio	n to participate	in the eDM	IR 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 writted waivers.	n request for a waiver fr	om electronic repo	orting. See instruction	ons for further in	nformation	regarding		
11. FEES								
Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/								
12. 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 Dale Lobmeyer President)			636-433-221		EN CODE		
SIGNATURE John	n			DATE SIGNED	9-20	20		

MO 180-1479 (02-19)



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

1.0 NAME OF FACILITY

Warco Manufacturing Company, Inc.

1.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER:

MO-0110086

1.2 IS THIS A NEW FACILITY? PROVIDE CONSTRUCTION PERMIT (CP) NUMBER IF APPLICABLE.

nc

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. See Attached Document for Full Description.

FLOWS, TYPE, AND FREQUENCY

- 2.0 Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average and maximum flows between intakes, operations, treatment units, evaporation, public sewers, and outfalls. If a water balance cannot by determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- 2.1 For each outfall (1) below, provide: (2) a description of all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, stormwater runoff, and any other process or non-process wastewater, (3) the average flow and maximum flow (put max in parentheses) contributed by each operation and the sum of those operations, (4) the treatment received by the wastewater, and (5) the treatment type code. Continue on additional sheets if necessary.

			-11		
1. 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	
001	process water & domestic sludge	0	Lagoon	3-G	
002	Stormwater	0.12 MGD Estimate Grass Veg. BMP > 25' width		4-A	
003	process water & domestic sludge	0	lagoon	3-G	
	k!				
	Attach addi	tional pages if necessa	arv.	1	

	Yes (complete the	following table)		No (go to s	ection 2.3)				
						4.	FLOW		
1.			3. FRE	QUENCY	A. FLOW RA	TE (in mgd)	B. TOTAL (specify w		C. DURATION
OUTFALL NUMBER	2. OPERATION(S) CON	TRIBUTING FLOW	A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	1. MAXIMUM DAILY	2. LONG TERM AVERAGE	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	(in days)
			Subpart(s) No (go to section 2.5) t guideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5) the quantity representing an actual measurement of your maximum level of production, sed in the applicable effluent guideline and indicate the affected outfalls. ITS OF MEASURE D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) eral, state, or local authority to meet any implementation schedule for the construction, rastewater treatment equipment or practices or any other environmental programs which bed in this application? This includes, but is not limited to, permit conditions, administrativement compliance schedule letters, stipulations, court orders, and grant or loan conditionable) No (go to 2.6) AFFECTED 3. BRIEF DESCRIPTION OF PROJECT						
		Subpart(s) No (go to section 2.5) uent guideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5) ist the quantity representing an actual measurement of your maximum level of production, s used in the applicable effluent guideline and indicate the affected outfalls. D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) federal, state, or local authority to meet any implementation schedule for the construction, of wastewater treatment equipment or practices or any other environmental programs which scribed in this application? This includes, but is not limited to, permit conditions, administration forcement compliance schedule letters, stipulations, court orders, and grant or loan conditions at the processing to the process of the pro							
	DELICE CONTROL OF THE PROPERTY								
3 PR0	ODUCTION								
				d by EPA u	nder sectior	304 of the	Clean Water	Act apply to	your
•	•		Subpart(s) No (go to section 2.5) Int guideline(s) expressed in terms of production (or other measure of operation)? Described No (go to section 2.5) The quantity representing an actual measurement of your maximum level of production, used in the applicable effluent guideline and indicate the affected outfalls.						
		by any federal, state, or local authority to meet any implementation schedule for the construction, eration of wastewater treatment equipment or practices or any other environmental programs which ges described in this application? This includes, but is not limited to, permit conditions, administr							
3. Are t elow.	he limitations in the ef		escribe in C						
	Yes (complete C.)	☑ No	Subpart(s) No (go to section 2.5) Int guideline(s) expressed in terms of production (or other measure of operation)? Describ No (go to section 2.5) The quantity representing an actual measurement of your maximum level of production, used in the applicable effluent guideline and indicate the affected outfalls. NITS OF MEASURE						
	,		Subpart(s) No (go to section 2.5) guideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5) ne quantity representing an actual measurement of your maximum level of production, ed in the applicable effluent guideline and indicate the affected outfalls. TS OF MEASURE D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) Peral, state, or local authority to meet any implementation schedule for the construction, astewater treatment equipment or practices or any other environmental programs which			ion			
express	ed in the terms and un	its used in the ap							
4. OUTFAL	L(S) B. QUANTITY PER DAY	Subpart(s) No (go to section 2.5) e effluent guideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5)							
			Subpart(s) No (go to section 2.5) Int guideline(s) expressed in terms of production (or other measure of operation)? Described No (go to section 2.5) the quantity representing an actual measurement of your maximum level of production, used in the applicable effluent guideline and indicate the affected outfalls. NITS OF MEASURE						
			Applicable. Subpart(s) No (go to section 2.5) ideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5) quantity representing an actual measurement of your maximum level of production, in the applicable effluent guideline and indicate the affected outfalls. If MEASURE						
			Applicable. Subpart(s) No (go to section 2.5) Ideline(s) expressed in terms of production (or other measure of operation)? Describe No (go to section 2.5) Quantity representing an actual measurement of your maximum level of production, in the applicable effluent guideline and indicate the affected outfalls. D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) I, state, or local authority to meet any implementation schedule for the construction, ewater treatment equipment or practices or any other environmental programs which in this application? This includes, but is not limited to, permit conditions, administration ment compliance schedule letters, stipulations, court orders, and grant or loan conditions) No (go to 2.6)						
		Perfluent guideline(s) expressed in terms of production (or other measure of operation)? Described in the guideline and indicate the affected outfalls. AND C. UNITS OF MEASURE D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) AND Secritary federal, state, or local authority to meet any implementation schedule for the construction, on of wastewater treatment equipment or practices or any other environmental programs which described in this application? This includes, but is not limited to, permit conditions, administrations, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.							
4 IMPR	ROVEMENTS		treatment equipment or practices or any other environmental programs which application? This includes, but is not limited to, permit conditions, administrations.						
A. A u	Are you required by any apgrading, or operation affect the discharges do	of wastewater trescribed in this a	astewater treatment equipment or practices or any other environmental programs whi ed in this application? This includes, but is not limited to, permit conditions, administ		which may nistrative				
A. A u a o	Are you required by any apgrading, or operation affect the discharges do	Subpart(s) No (go to section 2.5) fluent guideline(s) expressed in terms of production (or other measure of operation)? Described in the quantity representing an actual measurement of your maximum level of production its used in the applicable effluent guideline and indicate the affected outfalls. C. UNITS OF MEASURE D. OPERATION, PRODUCT, MATERIAL, ETC. (specify) y federal, state, or local authority to meet any implementation schedule for the construction of wastewater treatment equipment or practices or any other environmental programs while secribed in this application? This includes, but is not limited to, permit conditions, administ enforcement compliance schedule letters, stipulations, court orders, and grant or loan conting table) No (go to 2.6)	which may nistrative conditions.						
A. A. u a a o	Are you required by any apprading, or operation affect the discharges do renforcement orders, as (complete the follow a lication of condition,	of wastewater trescribed in this a enforcement corring table) 2. AFFECTED	eatment ed pplication? npliance so	quipment or This include thedule lette No <i>(go to</i>	r practices o des, but is n ers, stipulati	r any other ot limited to ons, court	environment o, permit cond	al programs litions, admir rant or loan o	which may nistrative conditions.
A. A. u. a. o. v. Ye.	Are you required by any appropriation of the discharges do or enforcement orders, as (complete the follows)	of wastewater trescribed in this a enforcement cor ving table)	eatment ed pplication? npliance so	quipment or This include thedule lette No <i>(go to</i>	r practices o des, but is n ers, stipulati	r any other ot limited to ons, court	environment o, permit cond	al programs ditions, admin rant or loan o	which may nistrative conditions.
A. A. u. a. o. v. Ye.	Are you required by any apprading, or operation affect the discharges do renforcement orders, as (complete the follow a lication of condition,	of wastewater trescribed in this a enforcement corring table) 2. AFFECTED	eatment ed pplication? npliance so	quipment or This include thedule lette No <i>(go to</i>	r practices o des, but is n ers, stipulati	r any other ot limited to ons, court	environment o, permit cond	al programs litions, admir rant or loan o	which may nistrative conditions.
A. A u a a o	Are you required by any apprading, or operation affect the discharges do renforcement orders, as (complete the follow a lication of condition,	of wastewater trescribed in this a enforcement corring table) 2. AFFECTED	eatment ed pplication? npliance so	quipment or This include thedule lette No <i>(go to</i>	r practices o des, but is n ers, stipulati	r any other ot limited to ons, court	environment o, permit cond	al programs litions, admir rant or loan o	which may nistrative conditions.

information for any hauler	nv industrial or domestic bio	volume, and methods (i	ated at yo ncineratio	ur facility. Include names and contact n, landfilling, composting, etc) used. See
	oved from the site as of the s		on.	
DATA COLLECTION AN	D REPORTING REQUIREM	IENTS FOR APPLICAN	TS	
3.0 EFFLUENT (AND IN	TAKE) CHARACTERISTICS	(SEE INSTRUCTIONS)	
A. & B. See instructio number or designation department or rule.	ns before continuing – comp in the space provided. The	olete one Table 1 for eac facility is not required to	ch outfall complete	(and intake) – annotate the outfall (intake) e intake data unless required by the
believe is discharged	ow to list any pollutants lister or may be discharged from a asons you believe it to be pr	any outfall not listed in pa	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. SOUR	CE 3. QU	TFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)
3.1 Whole Effluent Toxici A. To your knowledge, h waters in relation to your Yes (go to 3.1 B)		icity (WET) tests been p ree years?	erformed	on the facility discharges (or on receiving
any results of toxicity ide	ntification evaluations (TIE)	or toxicity reduction eva	luations (ˈ	ns tested, and the testing results. Provide TRE) if applicable. Please indicate the ps the facility is taking to remedy the
3.2 CONTRACT ANALYS	SIS INFORMATION			
				ntract laboratory or consulting firm?
Yes (list the name,	address, telephone number	r, and pollutants analyze	d by each	h laboratory or firm.) 🗹 No (go to 4.0)
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.

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
2.5 ac	Vegetated, Paved	>25 ft grass strip to filter overland flow from building and parking area
	DRAINED (PROVIDE UNITS)	DRAINED (VEGETATED, STONE, PAVED, ETC)

4.2 STORMWATER FLOWS

Provide the date of sampling with the flows, and how the flows were estimated. See Attached DMR's

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.

violations.	
NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Dale Lohmeyer President	636-433-2212
SIGNATURE (SEE INSTRUCTIONS)	6-29-2020

FOR 3.0 - ITEMS A AND B TABLE 1 FORM C

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE.

You may report some or all of this information on separate sheet (use similar format) instead of completing these pages.

EFFLUENT (AND INTAKE) CHARACTERISTICS	E) CHARAC	TERIST		THIS OUTFALL IS	S:					OUTFALL NO O	
3.0 PART A - You must	provide the re	esults o	-You must provide the results of at least one analysis for		lutant in Part	A. Complete	every pollutant in Part A. Complete one table for each outfall or proposed outfall.	utfall or proposed		See instructions.	
					2. VALUES	ES				3. UNITS (specify if blank)	cify if blank)
1. POLLUTANT	A. M.	IAXIMUM E	A. MAXIMUM DAILY VALUE	B. MAXIN	MAXIMUM 30 DAY VALUES	JES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES	D. NO. OF	A. CONCEN-	o o
	(1) CONCENTRATION	ATION	(2) MASS	(1) CONCENTRATION		(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	200
A. Biochemical Oxygen Demand, 5-day (BOD ₅)				AZ Z							
B. Chemical Oxygen Demand (COD)				ND							
C. Total Organic Carbon (TOC)				N							
D. Total Suspended Solids (TSS)	1			ON	*				21	~	
E, Ammonia as N											
F. Flow	ANT LA	Z	Ω	VALUE		>	VALUE			MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY D)
G. Temperature (winter)	VALUE			VALUE		>	VALUE			4.	28
H. Temperature (summer)	VALUE			VALUE		>	VALUE			Ц ₀	
I. pH	MINIMUM			MAXIMUM		₹	AVERAGE			STANDARD UNITS (SU)	JNITS (SU)
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.	n column 2A tant, you mus re in Part 3.0	for eac st provic C.	h pollutant you kno le the results for at	w or have reason least one analys	n to believe is is for the pol	s present. Ma Ilutant. Compl	rk "X" in column 2B ete one table for ead	for each pollutant och outfall (intake).	you believe Provide resu	to be absent. ults for additio	lf you mark nal
	2. MARK "X"					3. VALUES				4. UNITS	ПЗ
AND CAS NUMBER		mi mi	A, MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUES	C. LONG TERM	C. LONG TERM AVERAGE VALUES	D. NO. OF	A. CONCEN-	MASS
(if available)	PRESENT AB	BELIEVED ABSENT	CONCENTRATION	MASS C	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Non-Co	onventi	onal Pollutants								
A. Alkalinity (CaCO ₃)	×	Σ	MINIMUM	Min	MINIMUM		MINIMUM				
B. Bromide (24959-67-9)	×										
C. Chloride (16887-00-6)	×										
D. Chlorine, Total Residual	×										
E. Color	×										
F. Conductivity	×										
F. Cyanide, Amenable to Chlorination	×										

A BE GOOD IN THE STATE OF THE S		2. MARK "X"	13		3. VALUES			4. UNITS	ITS
Principle Prin			60	A. MAXIMUM DAILY VALUE		C. LONG TERM AVERAGE VALUE	NO OF	A CONCEN-	
Four conventional and Non-Conventional Pollutants (Continued) ND			LIEVED		-		ANALYSES	TRATION	B. MASS
Figure F	Subpart 1 - Conventions	al and Non-Co	onvent	tional Pollutants (Continued)					
Properties X	G. E. coli	Z	a						ı
	H. Fluoride (16984-48-8)	×							
	I. Nitrate plus Nitrate (as N)	×							
	J. Kjeldahl, Total (as N)	×							
	K. Nitrogen, Total Organic (as N)	2	4		6				
		Z	0						
X x x x X X X X X X X X X X X X X X X X	M. Phenols, Total	×	5						
X X X X X X X X X X	N. Phosphorus (as P), Total (7723-14-0)	×							
	O. Sulfate (as SO ⁴) (14808-79-8)	×_							
	P. Sulfide (as S)	×							
	Q. Sulfite (as SO³) (14265-45-3)	×							
	R. Surfactants	×							
	S. Trihalomethanes, Total	Z	0						
	Subpart 2 - Metals								
	1M. Aluminum, Total Recoverable (7429-90-5)	~	3						
	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)	×							
- G	6M. Boron, Total Recoverable (7440-42-8)	×	<u> </u>						
P	7M. Cadmium, Total Recoverable (7440-43-9)	×							
pa	8M. Chromium III Total Recoverable (16065-83-1)	×							
	9M. Chromium VI, Dissolved (18540-29-9)	×							
	10M. Cobalt, Total Recoverable (7440-48-4)	×							

	2. MARK "X"	"X"				3. VALUES				4. UNITS	TS
1. POLLUTANT AND CAS NUMBER	1	æ	A. MAXIMUM DAILY VALUE	IILY VALUE	B. MAXIMUM 30 DAY VALUE	DAY VALUE	C. LONG TERM AVERAGE VALUE	ERAGE VALUE	D. NO. OF	A. CONCEN-	O V
(if available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	0.00
Subpart 2 – Metals (Continued)	ntinued)										
11M. Copper, Total Recoverable (7440-50-8)		JO									
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)	×	2				ſ				0	
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)		ND N									
Subpart 3 - Radioactivity											
1R. Alpha Total	×										
2R. Beta Total	×										
3R, Radium Total	×				14						
4R. Radium 226 plus 228 Total	al x										

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet (use s*imilar format*) instead of completing these pages.

3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C. MILLIONS OF GALLONS PER DAY (MGD) B. MASS B. MASS 3. UNITS (specify if blank) STANDARD UNITS (SU) 4. UNITS Ļ 3.0 PART A - You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions. A. CONCENTRATION A. CONCEN-TRATION OUTFALL NO. D. NO. OF ANALYSES D. NO. OF ANALYSES C. LONG TERM AVERAGE VALUES (2) MASS C. LONG TERM AVERAGE VALUES CONCENTRATION (1) CONCENTRATION MINIMUM AVERAGE VALUE VALUE VALUE B. MAXIMUM 30 DAY VALUES MASS 3. VALUES (2) MASS B. MAXIMUM 30 DAY VALUES 2. VALUES CONCENTRATION MINIMUM THIS OUTFALL IS: (1) CONCENTRATION S 25 MAXIMUM MASS VALUE VALUE VALUE A. MAXIMUM DAILY VALUE Subpart 1 - Conventional and Non-Conventional Pollutants CONCENTRATION (2) MASS A. MAXIMUM DAILY VALUE EFFLUENT (AND INTAKE) CHARACTERISTICS MINIMUM B. BELIEVED ABSENT (1) CONCENTRATION 2. MARK "X" × × × × A. BELIEVED PRESENT MINIMUM VALUE VALUE VALUE B. Chemical Oxygen Demand (summer) D: Chlorine, Total Residual D. Total Suspended Solids (winter) F. Cyanide, Amenable to Chlorination 1. POLLUTANT
AND CAS NUMBER
(if available) C. Total Organic Carbon A, Biochemical Oxygen Demand, 5-day (BODs) 1. POLLUTANT A. Alkalinity (CaCO₃) E. Ammonia as N G. Temperature H. Temperature . Conductivity B. Bromide (24959-67-9) 16887-00-6) C. Chloride E. Color F. Flow (COD) (TOC) (TSS)

	2. MARK "X"	CX				3. VALUES				4. UNITS	IITS
1. POLLUTANT AND CAS NUMBER		œi	A. MAXIMUM DAILY VALUE	ILY VALUE	B. MAXIMUM 3	MAXIMUM 30 DAY VALUE	C. LONG TERM A	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	33411
	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	200
Subpart 1 - Conventional and Non-Conventional Pollutants (Continued)	al and Non-	-Conver	utional Pollutants (C	ontinued)							
G. E. coli		NO	-					=			
H. Fluoride (16984-48-8)		×									
I. Nitrate plus Nitrate (as N)	^	×									
J. Kjeldahl, Total (as N)		×									
K. Nitrogen, Total Organic (as N)		SS									
L. Oil and Grease		ND		-			E				
M. Phenols, Total		×									
N. Phosphorus (as P), Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)		×									
P. Sulfide (as S)		×									
Q. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		ND									
Subpart 2 - Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		20									
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)		×			2						
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)		×									

Page 6 of 13

	2. MARK "X"	.X., X!				3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER	A REI IEVEN	еi	A. MAXIMUM DAILY VALUE	VILY VALUE	B. MAXIMUM 30	MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	ERAGE VALUE	D. NO. OF	A. CONCEN-	MASS
(if available)	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	D. MASS
Subpart 2 - Metals (Continued)	ntinued)										
11M. Copper, Total Recoverable (7440-50-8)		ND									
12M. Iron, Total Recoverable (7439-89-6)		×									
13M. Lead, Total Recoverable (7439-92-1)		×									
14M. Magnesium, Total Recoverable (7439-954)		×									
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)	40	×									
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)	,	ND									
Subpart 3 - Radioactivity	ty										
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×	16				<u> </u>				
4R. Radium 226 plus 228 Total	III.	×									

Page 7 of 13

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet (use similar format) instead of completing these pages.

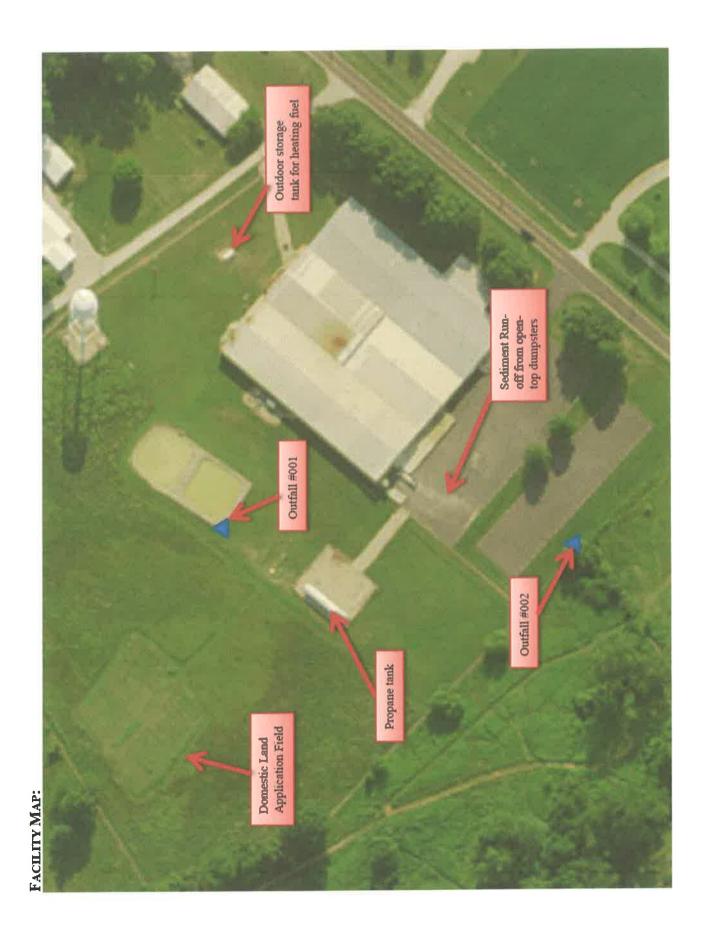
MILLIONS OF GALLONS PER DAY (MGD) B. MASS 3. UNITS (specify if blank) STANDARD UNITS (SU) Ļ 3.0 PART A - You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions. A. CONCEN-TRATION OUTFALL NO. D. NO. OF ANALYSES (2) MASS C. LONG TERM AVERAGE VALUES (1) CONCENTRATION AVERAGE VALUE VALUE VALUE (2) MASS B. MAXIMUM 30 DAY VALUES THIS OUTFALL IS: (1) CONCENTRATION SD MAXIMUM VALUE VALUE VALUE (2) MASS A. MAXIMUM DAILY VALUE **EFFLUENT (AND INTAKE) CHARACTERISTICS** (1) CONCENTRATION VALUE VO MINIMUM VALUE VALUE B. Chemical Oxygen Demand (COD) (summer) D. Total Suspended Solids (winter) C. Total Organic Carbon (TOC) A. Biochemical Oxygen Demand, 5-day (BODs) 1. POLLUTANT E. Ammonia as N G. Temperature Temperature Flow TSS) 핌

3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C. 4. UNITS 3. VALUES 2. MARK "X"

AND CAS NUMBER (if available) Subpart 1 — Conventional and Non-Conventional Pollutants A. Alkalinity (CaCO ₃) A. Minimum										
(if available) A. Bellev Subpart 1 — Conventional and I A. Alkalinity (CaCO ₃)		A. MAXIMUM DAILY VALUE	VILY VALUE	B. MAXIMUM 30 DAY VALUES	DAY VALUES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES	D. NO. OF	A. CONCEN-	9
Subpart 1 — Conventional and I	EVED BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	O THE COLUMN TO
A. Alkalinity (CaCO ₃)	Non-Conv	entional Pollutants								
	×	MINIMUM		MINIMUM		MINIMUM				
B. Bromide (24959-67-9)	×									
C. Chloride (16887-00-6)	×				-					
D. Chlorine, Total Residual	×									
E. Color	×									
F. Conductivity	×									
F. Cyanide, Amenable to Chlorination	×									

Auto-objectivity of control objectivity objectivity of control objectivity objectivity of control objectivity objec		2. MARI	MARK "X"				3. VALUES				4. UNITS	TS
			æi	A. MAXIMUM DA	AILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	O
Conventional and Non-Conventional Pollutants (Continued)			BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	O. MAGO
MIDE (at M) X X X X X X X X X	Subpart 1 – Conventiona	al and Non	-Conver	ntional Pollutants ((Continued)							
Nitrade (se M)	G. E. coli		MD									
	H. Fluoride (16984-48-8)		×									
	1. Nitrate plus Nitrate (as N)		×									
	J. Kjeldahl, Total (as N)		×									
	K. Nitrogen, Total Organic (as N)		ND									
	L. Oil and Grease	-	ND									
	M. Phenols, Total		×									
	N. Phosphorus (as P), Total (7723-14-0)		×									
X X X X X X X X X X	O. Sulfate (as SO ⁴) (14808-79-8)		×	34								
s, Total X etals XD etals XD 9-90-5) X 0-38-2) X Recoverable X all 0-41-7) X Recoverable	P. Sulfide (as S)		×									
x	Q. Sulfite (as SO³) (14265-45-3)		×									
### A #### A ### A #### A ### A #### A #### A #### A #### A #### A #### A ######	R. Surfactants		×									
	S. Trihalomethanes, Total		ND									
	Subpart 2 - Metals											
	1M. Aluminum, Total Recoverable (7429-90-5)		an									
	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)		×		æ				×			
	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)		×									

1	2. MARK "X"	:K "X"				3. VALUES				4. UNITS	ITS
AND CAS NUMBER	A. BELIEVED	60 5	A. MAXIMUM DAILY VALUE	ILY VALUE	B. MAXIMUM 30 DAY VALUE	30 DAY VALUE	C. LONG TERM AVERAGE VALUE	PRAGE VALUE	D. NO. OF	A, CONCEN-	B WASS
	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	D. M.
Subpart 2 – Metals (Continued)	tinued)										
11M. Copper, Total Recoverable (7440-50-8)		MD			74						
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)		×		-			4.	3			
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 (7440-56-6)		an									
Subpart 3 - Radioactivity	<u> </u>										
1R. Alpha Total		×									
2R. Beta Total		×);						
3R. Radium Total		×	27.								18
4R. Radium 226 plus 228 Total	_	×									



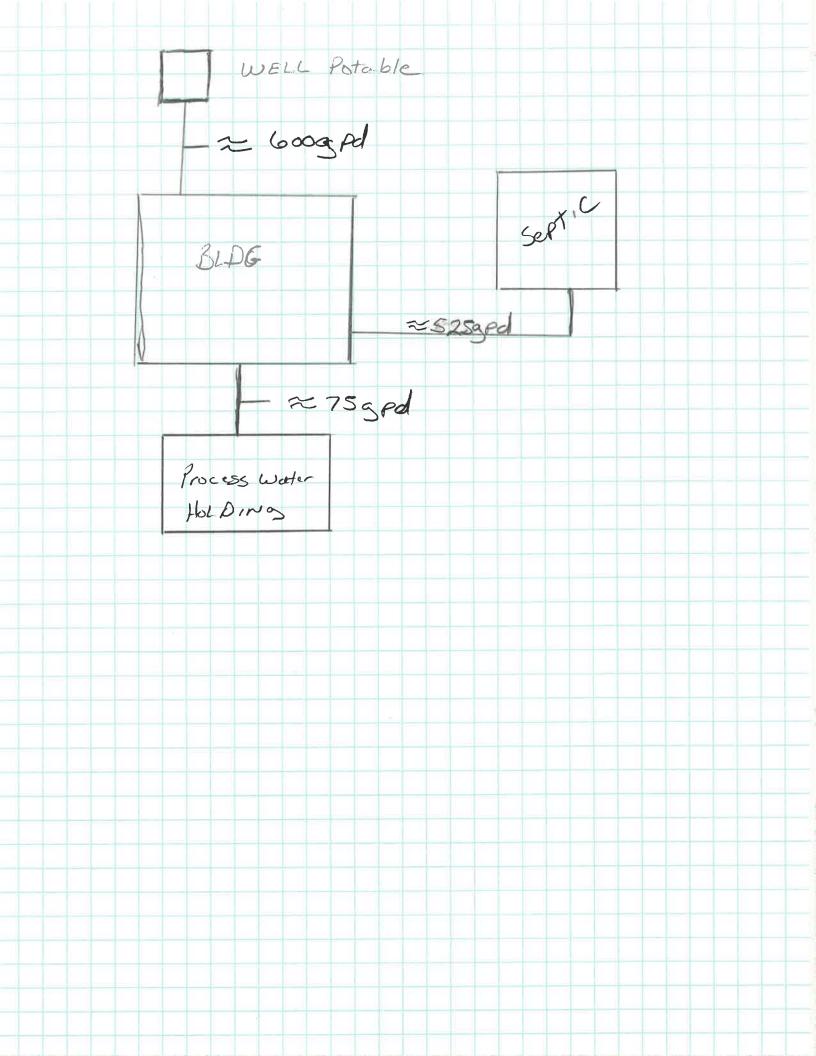
Form C Additional information

1.3 Warco Manufacturing Inc. manufactures electrical ceramics for transformers and related purposes. The ceramics are made of high quality clay slabs, molded, dried, and glazed on-site. They also have a foundry for aluminum, brass, and copper for joining to the insulator. All metal fines are collected and recycled. The facility discharges process wastewater from an inside floor drain to a lagoon with one discharging outfall. This wastewater is largely produced from rinsing molds and the tilter press and consists of water high in suspended sediment and semi-fluid slip material. The wastewater lagoon previously also received domestic wastewater from the facility; however, this lagoon usage has been discontinued. The lagoon has not been cleaned since the domestic use; therefore, it is still classified as a domestic waste holding structure. Cooling water is produced by this facility but is not discharged; it is currently recycled back into the cooling system or hauled by a contract hauler.

Domestic waste is now discharged through a subsurface land application system with a septic tank. It is regulated by the Warren County Health Department as the design flow is less than 3000 gallons per day.

The facility also has one storm water outfall which receives water from the shipping and receiving portion of the facility as well as open-top dumpsters which contain clay discard and damaged/unsaleable product. All of the manufacturing process is conducted under-roof. All oils and coolants are stored under-roof. The loading dock activities do not take place under-roof. Pallets and cardboard are stored outside. Shipping containers that originally contained copper are also stored outside; the copper product is removed prior to outdoor storage.

There is a large propane tank outside, along with a storage tank which contains fuel oil for the facility's furnace, which is inside secondary containment.



Dep. of Natural Resources (REGIONAL OFFICE)

St. Louis Regional Office 7545 S. Lindbergh, Suite 210 St. Louis, MO 63125 3144162960 3144162970 (fax)

PERMITTEE NAME/ADDRESS

NAME: ADDRESS:

Warco Manufacturing Company Inc 1401 Highway D East PO Box 48 MARTHASVILLE, MO 63357

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NO DISCHARGE: C-No Discharge

NOTE READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter		MA	ASS	Unit	CONG	CENTRA	TION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Copper, total recoverable (UIII9)	REPORTO	****	****			*****					
	REQRMNT	*****	****		Daily Maximum : Monitoring Required		Monthly Average : Monitoring Required	ug/L	Quarterly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS:

Exceptly under penulty of law that the document and all attachments were prepared under my direction or supervision in security with a system designed to assure that qualified personnel properly guther and evaluate the information administed. Hased on my majory of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are again from the pension of the information including the possibility of fine

	OPERATOR IN	ESPONSIBLE CHARGE	
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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
TYPED OR PRINTED NAME SIGNATURE		Date	

Page 1

PERMITTEE NAME/ADDRESS

NAME: ADDRESS:

Warco Manufacturing Company Inc 1401 Highway D East PO Box 48

MARTHASVILLE, MO 63357

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NO DISCHARGE: C - No Discharge

St. Louis Regional Office 7545 S. Lindbergh, Suite 210 St. Louis, MO 63125 3144162960 3144162970 (ftx)

Dep. of Natural Resources (REGIONAL OFFICE)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter		MASS		Unit	CONCENTRAT	TION		Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Aluminum, total recoverable (01104	REPORTD	****	****			****	*****				
Stage Type: End of Pipe	REQRMNT	****	••••		Daily Maximum: Monitoring Required	•••••	****	ug/L	Quarterly	Grab	
Chemical Oxygen Demand (COD) (00340)	REPORTO	****	****			****	84668	mg/L			
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum: 120	*****	*****	IIIg/L	Quarterly	Grab	
Copper, total recoverable (01119)	REPORTD	***	****			****	****				
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum : Monitoring Required	****	****	ug/L	Quarterly	Grab	
Oil and grease (soxhlet extr.) tot (00550)	REPORTD	***	****			****	****	mg/L			
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum: 10	****	****	IIIg/L	Quarterly	Grab	
pH (00400)	REPORTD	****	****			****					
Stage Type: End of Pipe	REQRMNT	****			Minimum: 6,5	****	Maximum : 9.0	SU	Quarterly	Grab	
Rainfall (46529)	REPORTD		****		4666	****	AAAAA				
Stage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	****	in	*****	*****	****		Quarterly	Measured	
Settleable Solids (SS) (00545)	REPORTD	****	****			****	果此条长 条				
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum: Monitoring Required	*****	****	mL/L	Quarterly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS:

I cornity under pensity of law that this document and all attachments were prepared index my direction or supervisous in accordance with a system designed to nome that qualified personnel properly guilter and evaluate the information unbmitted. Direct on my inquiry of the person or persons who manage the rystems, or those persons directly reportable for guidering the information, the information, including the parability of fine land imprisonment for lumviney relatations.

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PRINCIPAL EXECUTIVE OFFICE	R OR AUTHORIZED AGENT	TELEPHONE	
TYPED OR PRINTED NAME	SIGNATURE	Date	
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PERMITTEE NAME/ADDRESS

Warco Manufacturing Company Inc 1401 Highway D East PO Box 48 NAME: ADDRESS:

MARTHASVILLE, MO 63357

MO0110086 002 A PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD
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FROM

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NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Storm water flow (81395)	REPORTD		****		ARRE	****	****				
	REQRMNT	Daily Maximum : Monitoring Required	*****	Mgal/d	****	****	*****		Quarterly	Estimate	
Total Suspended Solids (TSS) (00530)	REPORTD	的的价格	****			****	****	mg/L			
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum: Monitoring Required	*****	*****	Ilig/L	Quarterly	Grab	
Zinc (Zn), total recoverable (01094)	REPORTD	****	****			****	****				
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum: Monitoring Required	*****	*****	ug/L	Quarterly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS

Describe an experience of the comment and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel purposity gather and evaluate the information submitted. Based on my imprity of the purson or persons who manage the system, or those persons directly responsible for gathering the information submitted is, so the best of my knowledge and belief, true, accurate, and complete. I am review that there are significant penalties for submitting false information, including the possibility of fine

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TYPED OR PRINTED NAME	SIGNATURE	Date	

Page 3

PERMITTEE NAME/ADDRESS

Warco Manufacturing Company Inc NAME: ADDRESS:

1401 Highway D East PO Box 48 MARTHASVILLE MO 63357

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NOTE READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Dep. of Natural Resources

(REGIONAL OFFICE) St. Louis Regional Office 7545 S. Lindbergh, Suite 210 St. Louis, MO 63125 3144162960 3144162970 (fax)

NO DISCHARGE: C - No Discharge

Parameter		M.	ASS	Unit	CONC	ENTR	ATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Aluminum, total recoverable (01104	REPORTD	****	AAAAA			****					
Stage Type End of Pipe	REQRMNT	****	****		Daily Maximum : Monitoring Required	****	Mondily Average : Monitoring Required	ug/L	Monthly	Grab	
BOD, 5-day, 20 deg. C (00310)	REPORTD	****	AAAAA			****					
Stage Type: End of Pipe	REQRMNT	****	****		Daily Maximum: 45	****	Monthly Average: 30	mg/L	Monthly	Grab	
Chemical oxygen demand (COD) (80103)	REPORTD	由诉讼收收	***			****		mg/L			
	REQRMNT	****	****		Daily Maximum: 120	****	Monthly Average: 90	mg/L	Monthly	Grab	
Escherichia coli (E. coli) (51040)	REPORTD	*****	NARAS.			ARRAR					
Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum : 1030	*****	Monthly Average: 206	#/100mL	Monthly	Grab	
Flow, in conduit or thru treatment	REPORTD				****	****	****				
plant (50050) Stage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	Mgal/d	****		****		Monthly	Total Measured	
Nitrogen, ammonia total (as N) (00610)	REPORTO	4644	我的为太长			****		mg/L			
Stage Type: End of Pipe	REQRMNT	****	****		Daily Maximum: 3,6	****	Monthly Average: 1-4		Monthly	Grab	
Oil and grease (soxhlet extr.) tot (00550)	REPORTD	****	****			****		/I			
Stage Type: End of Pipe	REQRMNT	****	****		Daily Maximum: 10	*****	Monthly Average: 10	nig/L	Monthly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS

Excisive under penalty of law that this document and all attachments were prepared under my direction or supervisors in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information rabinitied. Dased on my impriry of the person or persons who meaning the system, or those persons streetly responsible for gathering the information, the information, including the possibility of finise and imprissionness for knowing violations.

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Parameter		M	ASS	Unit	CON	CENTRA	TION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
ЭН (00400)	REPORTD	AAAAA	AAAAA			****		mı			
Stage Type: End of Pipe	REQRMNT	*****	****		Minimum: 6,5	*****	Maximum: 90	SU	Monthly	Grab	
Settleable Solids (SS) (00545)	REPORTD	****	****			****					
Stage Type End of Pipe	REQRMNT	*****	*****		Daily Maximum: 1,5	*****	Monthly Average: I 0	mL/L	Monthly	Grab	
l'emperature, water deg. fahrenheit	REPORTD	****	AAAAA			RABBA					
(00011) Stage Type: End of Pipe	REQRMNT	****	****		Daily Maximum : Monitoring Required	****	Monthly Average : Monitoring Required	deg F	Monthly	Measured	
Fotal Suspended Solids (TSS)	REPORTD	****	****			****					
Stage Type: End of Pipe	REQRMNT	****	****	1	Daily Maximum: 45	****	Monthly Average: 30	mg/L	Monthly	Grab	
	REPORTD	****	****			****					
Stage Type: End of Pipe	REQRMNT	****	****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	ug/L	Monthly	Grab	

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