#### 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 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92<sup>nd</sup> Congress) as amended,

Permit No. MO-0135127

Owner: Branson Airport, LLC

Address: 4000 Branson Airport Blvd., Hollister, MO 65672

Continuing Authority: same as above Address: same as above

Facility Name: Branson Airport, LLC

Facility Address: 4000 Branson Airport Blvd., Hollister, MO 65672

Legal Description: see page two UTM Coordinates: see page two

Receiving Stream: see page two First Classified Stream and ID: see page two

USGS Basin & Sub-watershed No.: Turkey Creek 11010003-0102 (Lake Taneycomo L2)

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

#### **FACILITY DESCRIPTION**

Airport; SIC # 4581; NAICS # 481219; airport with deicing (#003, #006, #007); domestic wastewater (#001); oil water separator (#002); >1000 non-propeller takeoffs per year – subject to 40 CFR 439; urea may be used at this site. Runway is graded such that all stormwater flows to retention basins on NW side of airport.

This permit authorizes only domestic 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. This permit may be appealed in accordance with Sections 640.013, 621.250, and 644.051.6 of the Law.

January 1, 2020 Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

December 31, 2024

Expiration Date Chris Wieberg, Director, Water Projection Program

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#### FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001 - domestic wastewater treatment facility; flow equalization basin / sludge storage tank / aeration basin / clarifier/ filters

/ chemical addition to facilitate phosphorus removal / ultraviolet disinfection / effluent pump station. Legal Description: NW<sup>1</sup>/<sub>4</sub>, SW<sup>1</sup>/<sub>4</sub>, NE<sup>1</sup>/<sub>4</sub>, Sec. 10, T21N, R21W, Taney County

UTM  $X = 482501 \ Y = 4043481$ 

Receiving Stream: Tributary to Thorp Creek (Losing)

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design organic population equivalent: 106

Design Flow: 0.01065 MGD Average flow: < 5000 gallons per day

Design sludge production: 2 dry tons per year. Sludge disposal by contract hauler. Storage: 561 ft<sup>3</sup>

<u>OUTFALL #002</u> – Oil/Water separator and stormwater discharge only. Sludge is removed by hauler.

Legal Description: NE ¼, SE ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM  $X = 482378 \ Y = 4043400$ 

Receiving Stream: Tributary to Thorp Creek (Losing)

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow: 0.25 MGD Actual flow: 0.004 MGD

OUTFALL #003 - De-icing pad area; stormwater discharge only; not for discharge during de-icing activities (must collect deicing

wastewater).

Legal Description: SE ¼, NW ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM X = 482011 Y = 4043609 Receiving Stream: Tributary to Turkey Creek

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow: 0.044 MGD Actual flow: 0.003 MGD

OUTFALL #004 – East-side taxiway runoff; stormwater discharge only.

Legal Description: SE ¼, NW ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM X = 481922 Y = 4043536 Receiving Stream: Tributary to Turkey Creek

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow: 0.25 MGD

Actual flow is dependent upon rainfall; has not discharged during last permit term.

OUTFALL #005 - Runway runoff and west-side of taxiway runoff; stormwater discharge only.

Legal Description: NE ¼, SE ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM X = 481721 Y = 4043824 Receiving Stream: Tributary to Turkey Creek

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow: 0.5 MGD

Actual flow is dependent upon rainfall; has not discharged during last permit term.

OUTFALL #006 – Stormwater retention basin below de-icing pad, stormwater discharge.

Legal Description: NW ¼, NW ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM X = 481891 Y = 4043847 Receiving Stream: Tributary to Turkey Creek

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow: 0.25 MGD

Actual flow is dependent upon rainfall; has not discharged during last permit term.

OUTFALL #007 - De-Icing Storage Tanks; Discharge from this outfall is not authorized, and shall be subject to 40 CFR 122.41(m) and

reported according to 40 CFR 122.41(m)(3)(i) & (ii).

Legal Description: SE ¼, NW ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM X = 482011 Y = 4043609 Receiving Stream: Tributary to Turkey Creek

First Classified Stream and ID: 8-20-13 MUDD V 1.0 (C), WBID # 3960 to Turkey Creek (C) WBID #2443

Design flow 0

Actual flow: 0; has never discharged

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#### A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

## OUTFALL #001 main outfall TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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

		Final Ei	FFLUENT LIM	ITATIONS	MONITORING REQUIREMENTS	
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: M						
PHYSICAL						
Flow	MGD	*		*	once/month	24 hr. total
CONVENTIONAL						
Biochemical Oxygen Demand -5 day	mg/L	15		10	once/month	grab
E. coli <sup>‡</sup>	#/100 ml	206		206	once/month	grab
Oxygen, Dissolved – Minimum :	mg/L	5.0 MIN		-	once/month	grab
pH <sup>†</sup>	SU	6.5 to 9.0		6.5 to 9.0	once/month	grab
Total Suspended Solids	mg/L	20		15	once/month	grab
METALS						
Aluminum, Total Recoverable	μg/L	750		251	once/month	grab
Iron, Total Recoverable	μg/L	493		246	once/month	grab
NUTRIENTS						
Ammonia as N (April 1 – Sept 30)	mg/L	3.7		1.4	once/month	grab
Ammonia as N (Oct 1 – March 31)	mg/L	7.5		2.8	once/month	grab
OTHER						
Phosphorus	mg/L	*		0.5	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE FEBRUARY 28, 2020. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- † pH: the facility will report the minimum and maximum values; pH is not to be averaged.
- Oxygen, Dissolved: is a minimum value. The facility will report the minimum value for the daily report.

<sup>\*</sup> Monitoring and reporting requirement only

<sup>\*\*</sup> Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.

<sup>&</sup>lt;sup>‡</sup> The Monthly Average Limit for *E. coli* is expressed as a geometric mean; final effluent limits are applicable year round due to losing stream designation.

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

OUTFALLS #002, #003, #004, #005, #006 Stormwater Only

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

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

Every viewer D. D. A. Greener C.	X Y	FINAL LI	MITATIONS	BENCH-	MONITORING REQUIREMENTS		
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	MONTHLY AVERAGE	MARKS	MEASUREMENT FREQUENCY	SAMPLE Type	
LIMIT SET: Q							
PHYSICAL							
Flow	MGD	*		-	once/quarter ◊	24 Hr Est.	
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	40		-	once/quarter ◊	grab	
Oil & Grease	mg/L	10		-	once/quarter ◊	grab	
pH <sup>†</sup>	SU	6.5 to 9.0			once/quarter ◊	grab	
Settleable Solids	mL/L/hr	**		1.0	once/quarter ◊	grab	
Total Suspended Solids	mg/L	**		50	once/quarter ◊	grab	
NUTRIENTS							
Ammonia as N ▼	mg/L	7.5		-	once/quarter ◊	grab	
Kjeldahl Nitrogen, Total (TKN) ▼	mg/L	*		-	once/quarter ◊	grab	
Nitrate plus Nitrite Nitrogen ▼	mg/L	*		-	once/quarter ◊	grab	
Nitrogen, Total (TN) ▼	mg/L	*		-	once/quarter ◊	grab	
OTHER							
Benzene	μg/L	**		5	once/quarter ◊	grab	
Ethylbenzene	μg/L	**		320	once/quarter ◊	grab	
Toluene	μg/L	**		1000	once/quarter ◊	grab	
Xylene	μg/L	**		10,000	once/quarter ◊	grab	

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>APRIL 28, 2020</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

- \* Monitoring and reporting requirement only
- \*\* Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.
- † pH: the facility will report the minimum and maximum values; pH is not to be averaged.
- ▼ Nutrient testing is not required during quarters where no urea was used. If urea was not used, report "no discharge".

Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS								
QUARTER	ER MONTHS QUARTERLY EFFLUENT PARAMETERS							
First	January, February, March	Sample at least once during any month of the quarter	April 28 <sup>th</sup>					
Second	April, May, June	Sample at least once during any month of the quarter	July 28th					
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 <sup>th</sup>					

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#### **B. STANDARD CONDITIONS**

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

#### C. SPECIAL CONDITIONS

- 1. The facility will "close" the gate valve discharging to outfall #003 prior to any deicing activities occurring. The facility will allow all liquid associated with de-icing activities (including concomitant snow/ice/precipitation) to drain into the holding tanks before diverting flow back to outfall #003.
- 2. Spills, Overflows, and Other Unauthorized Discharges.
  - (a) Any spill, overflow, or other discharge(s) not specifically authorized above are unauthorized discharges.
  - (b) Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
  - (c) The facility will maintain a minimum margin of safety of five percent total tank capacity in the de-icing holding tanks.
- 3. Electronic Discharge Monitoring Report (eDMR) Submission System.
  - (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. Standard Conditions Part I, Section B, #7 indicates the eDMR system is currently the only Department approved reporting method for this permit.
  - (b) Programmatic Reporting Requirements. All reports must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data. After such a system has been made available by the Department, required data shall be directly input into the system by the next report due date
    - (1) Schedule of Compliance Progress Reports;
    - (2) Collection System Maintenance Annual Reports;
    - (3) Wastewater Irrigation Annual Reports;
    - (4) Sludge/Biosolids Annual Reports;
    - (5) Any additional report required by the permit excluding bypass reporting.
  - (c) The following shall be submitted electronically after such a system has been made available by the Department:
    - (1) General Permit Applications/Notices of Intent to discharge (NOIs);
    - (2) Notices of Termination (NOTs);
    - (3) No Exposure Certifications (NOEs);
    - (4) Low Erosivity Waivers, and Other Waivers from Stormwater Controls (LEWs); and
    - (5) Bypass reporting, See Special Condition below for 24-hr. bypass reporting requirements.
  - (d) Electronic Submission: access the eDMR system via: https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx
  - (e) Electronic Reporting Waivers. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the Department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <a href="http://dnr.mo.gov/forms/780-2692-f.pdf">http://dnr.mo.gov/forms/780-2692-f.pdf</a>. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period the approved electronic reporting waiver is effective.
- 4. Stormwater Pollution Prevention Plan (SWPPP).
  - The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and hence shall implement a Stormwater Pollution Prevention Plan (SWPPP) which must be prepared and implemented upon permit effective date. The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested. The SWPPP must be reviewed and updated annually or if site conditions affecting stormwater change. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (EPA 833-B-09-002) published by the EPA in 2015 <a href="https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf">https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf</a> 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 not effective at preventing pollution [10 CSR 20-2.010(56)] to waters of the state. 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.

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#### C. SPECIAL CONDITIONS (CONTINUED)

- (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.
  - i. Operational deficiencies must be corrected within seven (7) calendar days.
  - ii. Minor structural deficiencies must be corrected within fourteen (14) calendar days.
  - iii. 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 permittee shall work with the regional office to determine the best course of action. The permittee should consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
  - iv. 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.
  - v. BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.
  - vi. Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department personnel upon request. Electronic versions of the documents and photographs are acceptable.
- (d) A provision for designating an individual to be responsible for environmental matters and a provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.
- 5. Site-wide minimum Best Management Practices (BMPs). At a minimum, the permittee shall adhere to the following:
  - (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, and thereby prevent the contamination of stormwater from these substances.
  - (b) Ensure adequate provisions are provided to prevent and to protect embankments from erosion.
  - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
  - (d) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records should be retained on-site.
  - (e) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
  - (f) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.
- 6. Stormwater Benchmarks. This permit stipulates pollutant benchmarks applicable to your stormwater discharges.
  - (a) The benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Benchmark monitoring and visual inspections shall be used to determine the overall effectiveness of the SWPPP and to assist you in knowing when additional corrective action may be necessary to protect water quality. If a sample exceeds a benchmark concentration you must review your SWPPP and your BMPs to determine what improvements or additional controls are needed to reduce the pollutant in your stormwater discharge(s).
  - (b) Any time a benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. If the efforts taken by the facility are not sufficient and subsequent exceedances of a benchmark occur, the facility must contact the Department if a benchmark value cannot be achieved. Failure to take corrective action to address a benchmark exceedance and failure to make measureable progress towards achieving the benchmarks is a permit violation.

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#### C. SPECIAL CONDITIONS (CONTINUED)

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 stored in the SWPPP and be available on demand to the Department.
- 8. Oil/Water Separators. This site operates oil water separator tanks for the treatment of stormwater and falls under 10 CSR 26-2.010(2)(B). OWS, as disclosed by the permittee, serving outfall #002 are hereby authorized and shall be operated per manufacturer's specifications. The specifications and operating records must be made accessible to Department staff upon request. Oil water separator sludge is considered used oil; sludge must be disposed of in accordance with 10 CSR 25-11.279. If the oil water separator is not functioning, discharge from outfall #002 is not permitted.
- 9. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with §644.051.16, RSMo, and the CWA section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Clean Water Act Sections 301(b)(2)(C) and (D), §304(b)(2), and §307(a) (2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
- 10. All outfalls and permitted features must be clearly marked in the field.
- 11. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report no-discharge when a discharge has occurred.
- 12. Changes in Discharges of Toxic Pollutant.
  - In addition to the reporting requirements under §122.41(1), all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
  - (a) That an activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
    - (1) One hundred micrograms per liter (100  $\mu$ g/L);
    - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
    - (3) Five hundred micrograms per liter (500 μg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
    - (4) One milligram per liter (1 mg/L) for antimony;
    - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
    - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
  - (b) That 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 that pollutant in the permit application in accordance with §122.21(g)(7).
    - (4) The level established by the Director in accordance with §122.44(f).

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#### C. SPECIAL CONDITIONS (CONTINUED)

- 13. Reporting of Non-Detects.
  - (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated.
  - (b) The permittee shall not report a sample result as "non-detect" without also reporting the detection limit of the test or the reporting limit of the laboratory. Reporting as "non-detect" without also including the detection/reporting limit will be considered failure to report, which is a violation of this permit.
  - (c) The permittee shall report the non-detect result using the less than "<" symbol and the laboratory's detection/reporting limit (e.g. <6).
  - (d) See sufficiently sensitive method requirements in Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
  - (e) When calculating monthly averages, one-half of the minimum detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (C).
- 14. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 15. This permit does not cover land disturbance activities.
- 16. This permit does not authorize the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course. The facility must contact the U.S. Army Corps of Engineers (Corps) to determine if a CWA §404 Department of Army permit is required.
- 17. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3), and with Standard Condition Part I. Bypasses are to be reported to the Southwest Regional Office during normal business hours or by using the online Sanitary Sewer Overflow/Facility Bypass Application located at: <a href="https://dnr.mo.gov/mogem/">https://dnr.mo.gov/mogem/</a> or the Environmental Emergency Response spill-line at 573-634-2436 outside of normal business hours. Once an electronic reporting system compliant with 40 CFR Part 127, the National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, is available all bypasses must be reported electronically via the new system. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
- 18. The domestic system must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 19. An Operation and Maintenance (O & M) manual for the domestic system shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
- 20. An all-weather access road to the domestic wastewater treatment facility shall be maintained.
- 21. The domestic wastewater outfall sewer shall be protected and maintained against the effects of floodwater, ice, or other hazards as to reasonably insure its structural stability, freedom from stoppage, and that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
- 22. Sludge/biosolids treatment, storage and disposal practices shall be conducted in accordance with Standard Conditions Part III.
- 23. Renewal Application Requirements.
  - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days from the expiration date listed on page 1 of the permit.
  - (b) Application materials shall include complete Form A, Form B (for outfall #001), and Form C (for all other outfalls). If the form names have changed, then the facility should assure 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 (if available) to submit the application to the Program.
  - (e) This facility must submit any corrective action reports completed for the last permit term if a benchmark exceedance occurred.

# MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0135127 BRANSON AIRPORT

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

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)(A)2.] a factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or operating permit) listed below. A factsheet is not an enforceable part of an operating permit.

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

Facility Type: Industrial – Categorical; >1 MGD

 SIC Code(s):
 4581

 NAICS Code(s):
 481219

 Application Date:
 07/01/2019

 Modification Date:
 07/01/2017

 Expiration Date:
 12/31/2019

#### **FACILITY DESCRIPTION:**

Airport with greater than 1000 non-propeller flights per year, subject to 40 CFR 449, will be using urea; therefore, ammonia limitations are included in this renewal. Previous permit separated out outfall #002 from the rest of the stormwater outfalls (#003 through #006); however, after review of the data, outfall #002 is not substantially different than the rest of the stormwater outfalls therefore can be grouped together. Stormwater at the site is managed through five outfalls, all located at the northern portion of the facility. The grading at the facility has been verified by the permit writer to flow towards these outfalls, even the most extreme portion of the runway on the southeast side of the airport flows towards a permitted outfall. Historical hypsography data has been reviewed and shown to be inaccurate since the installation of the airport began in 2008.

The charter number for the continuing authority for this facility is FL0067110; this number was verified by the permit writer to be associated with the facility.

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

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

The electronic discharge monitoring reports were reviewed for the last permit term. Many exceedances at outfall #001 of the aluminum limits were shown, but only for the monthly average; only once was the daily maximum limit exceeded. The facility has been effectively treating phosphorus at outfall #001 but needs to better determine how much aluminum to use to treat the phosphorus in the system. The permit writer believes, that with better operation and maintenance of the aluminum feed, the facility will reduce the occurrences of aluminum exceedances at the outfall.

#### PERMITTED FEATURES TABLE:

OUTFALL	DESIGN FLOW	AVERAGE FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	0.01065 MGD	0.005 MGD	equalization basin; sludge storage tank; aeration basin; clarifier; filters; UV disinfection	domestic wastewater
#002	0.25 MGD	0.004 MGD	oil-water separator	stormwater
#003	0.044 MGD	0.003 MGD	best management practices	stormwater
#004	0.25 MGD	0	retention basin	stormwater
#005	0.5 MGD	0	retention basin	stormwater
#006	0.25 MGD	0	retention basin	stormwater
#007	0	0	no-discharge	de-icing wastewater



#### PART II. RECEIVING WATERBODY INFORMATION

#### RECEIVING WATERBODY'S WATER QUALITY:

The receiving waterbody has no relevant water quality data available. The facility discharges to a losing segment of a newly classified stream at outfalls #001 and #002, all other streams are gaining; this facility is in the Lake Taneycomo watershed.

#### 303(D) LIST:

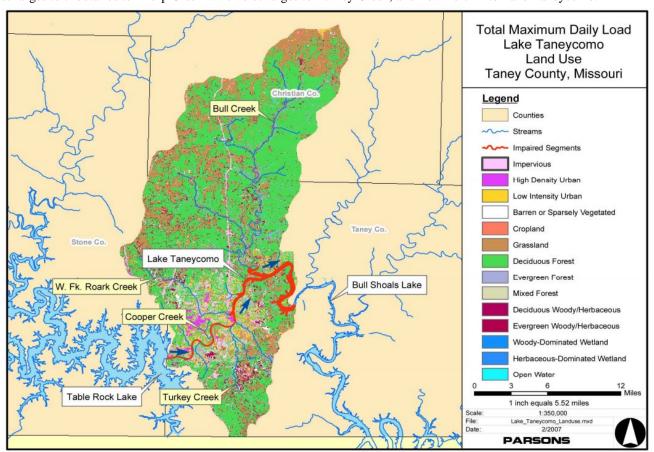
Section 303(d) of the federal Clean Water Act requires each state identify waters not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock, and wildlife. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. <a href="http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm">http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm</a>

✓ Not applicable; this facility does not discharge to an impaired segment of a 303(d) listed stream. However, the watershed is associated with a TMDL for low dissolved oxygen.

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

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

✓ Applicable. This facility falls within the boundaries of a watershed which is associated with a TMDL. Lake Taneycomo has an EPA approved TMDL dated 12/30/2010 for low dissolved oxygen. The source is listed as hypo-limnetic water released from Table Rock Lake Dam which feeds Lake Taneycomo. The TMDL also included eutrophication as a possible contributor, but was also coming from Table Rock Lake. The TMDL stated in section 3.2.1 they do not believe wastewater point sources to be a contributor to the dissolved oxygen depression as long as each of the point sources adheres to their operating permit limits for BOD₅. The below map shows the affected HUC-8 watershed (Lake Taneycomo-White River; 11010003-01); this airport discharges to tributaries to Thorp Creek which discharges to Turkey Creek, and flow north into Lake Taneycomo.



#### **UPSTREAM OR DOWNSTREAM IMPAIRMENTS:**

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

- ✓ This facility is located at the top of the watershed therefore no upstream is present at this location/outfalls.
- ✓ The permit writer has noted downstream of the facility has a TMDL (see above). Per 10 CSR 20-7.031(4)(E), the permit writer has included limits for either dissolved oxygen, BOD<sub>5</sub>, or COD.

#### APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

Per Missouri's Effluent Regulations [10 CSR 20-7.015(1)(B)], waters of the state are divided into seven categories. This facility is subject to effluent limitations derived on a site specific basis which are presented in each outfall's effluent limitation table and further discussed in Part IV: Effluents Limits Determinations.

- ✓ Lake or Reservoir
- ✓ Losing
- ✓ All Other Waters

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

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-digit HUC
#001	Tributary to Thorp Creek (losing)	n/a	n/a	GEN	0.0 mi	
#001 #002	8-20-13 MUDD V1.0 (losing)	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.1 mi 0.1 mi	Turkey Creek
#003	Tributary to Turkey Creek	n/a	n/a	GEN	0.0 mi	Lake Taneycomo (L2)
#004 #005 #006 #007	8-20-13 MUDD V1.0	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.5 mi 0.5 mi 0.4 mi 0.4 mi 0.5 mi	11010003-0102

n/a not applicable

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

WBID = Waterbody Identification: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at <a href="ftp://msdis.missouri.edu/pub/Inland\_Water\_Resources/MO\_2014\_WQS\_Stream\_Classifications\_and\_Use\_shp.zip">ftp://msdis.missouri.edu/pub/Inland\_Water\_Resources/MO\_2014\_WQS\_Stream\_Classifications\_and\_Use\_shp.zip</a>; New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3. as 100K Extent Remaining Streams.

Per 10 CSR 20-7.031, the Department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses are to be maintained in the receiving streams in accordance with [10 CSR 20-7.031(1)(C)]. Uses which may be found in the receiving streams table, above:

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-A2 for all habitat designations unless otherwise specified.

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

**WBC-A** = whole body contact recreation supporting swimming uses and has public access;

**WBC-B** = whole body contact recreation not supported 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

LWW = Livestock and Wildlife Watering (current narrative use is defined as LWP = Livestock and Wildlife Protection);

**DWS** = Drinking Water Supply

**IND** = industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Tables A1-B3 currently does not have corresponding habitat use criteria for these defined uses): WSA = storm- and flood-water storage and attenuation; WHP = habitat for resident and migratory wildlife species; WRC = recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC = hydrologic cycle maintenance.

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

#### **RECEIVING WATERBODY MONITORING REQUIREMENTS:**

No receiving water monitoring requirements are recommended at this time.

#### MIXING CONSIDERATIONS:

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

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

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

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

✓ Not applicable; the facility is an existing facility.

#### **ANTIBACKSLIDING:**

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

- Limitations in this operating permit for the reissuance conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.
  - ✓ Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) which would have justified the application of a less stringent effluent limitation.
    - Precipitation reporting requirement removed (outfalls #002 through #006). This facility may need to still keep this information with the SWPPP, but it does not have to be included with the DMRs. The permit writer has determined reporting local precipitation to the department to be irrelevant for this facility at this time. Past data from monitoring has shown the facility has adequate stormwater controls in place.
    - The effluent limit for chemical oxygen demand was changed at outfall #002 from 30 mg/L to 40 mg/L. The permit writer determined no adverse effects will occur by changing the limit; the facility has shown through sampling, they maintain the oil water separator effectively and appropriately. Raising the COD limit by 10 mg/L will not adversely affect Lake Taneycomo. Data from outfall #002 range from 4.9 to 26 mg/L; this data is expected to be maintained and will not likely increase simply because the limit has increased.
    - Historic DMR data was used to remove the sampling requirement for gasoline range organics (GRO) at outfall #002. There are no water quality standards for GRO but the permit writer used data for benzene, ethylbenzene, toluene, and xylene to determine there is no reasonable potential GRO would cause of contribute to any narrative or numeric WQ exceedance therefore was removed.
    - Benzene, ethylbenzene, toluene, and xylene limits on outfall #002 have been removed. These limits were place at the oil-water separator outfall to assure compliance with Missouri's Water Quality Standards. However, these parameters were not found in amounts expected to cause or contribute to exceedances of these parameters from outfall #002. These parameters will however maintain monitoring with benchmarks which were previously established on outfalls #003 through #006.
    - Nitrogen monitoring was removed at outfall #001. The rules have been revised to no longer include this requirement for monitoring as the flows are below 0.1 MGD for this outfall. Nutrient monitoring will not provide any additional relevant information for this site as all domestic wastewater contains nitrogen.
    - Oil and grease monitoring was removed. The last permit held there was no reasonable potential therefore limits were removed, this permit continues the assessment and therefore all monitoring is removed. Removal of a parameter does not authorize the facility to discharge oil and grease which would cause or contribute to exceedances in-stream standards in accordance with RSMo 644.051.
  - ✓ The Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).
    - The previous permit special conditions contained a specific set of prohibitions related to general criteria (GC) found in 10 CSR 20-7.031(4); however, there was no determination as to whether the discharges have reasonable potential to cause or contribute to excursion of those general water quality criteria in the previous permit. This permit assesses each general criteria as listed in the previous permit's special conditions. Federal regulations 40 CFR 122.44(d)(1)(iii) requires instances where reasonable potential (RP) to cause or contribute to an exceedance of a water quality standard exists, a numeric limitation must be included in the permit. Rather than conducting the appropriate RP determination, the previous permit simply placed the prohibitions in the permit. These conditions were removed from the permit. Appropriate reasonable potential determinations were conducted for each general criterion listed in 10 CSR 20-7.031(4)(A) through (I) and effluent limitations were placed in the permit for those general criteria where it was determined the discharge had reasonable potential to cause or contribute to excursions of the general criteria. Specific effluent limitations were not included for those general criteria where it was determined the discharges will not cause or contribute to excursions of general criteria. Removal of the prohibitions does not reduce the protections of the permit or allow for impairment of the receiving stream. The permit maintains sufficient effluent limitations, monitoring requirements and best management practices to protect water quality while maintaining permit conditions applicable to permittee 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 outfall #001, there is RP for putrescent bottom deposits; this is a domestic wastewater outfall; conditions included in this permit require proper operation of the domestic wastewater system to prevent putrescent bottom deposits.
- For all stormwater outfalls, there is no RP for putrescent bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the permittee indicates putrescent wastewater would be discharged from the these outfalls.
- For outfall #001, there is RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial
  uses; this permit contains limitations for TSS and aluminum which will prevent the general criteria from being
  violated.
- For all stormwater outfalls, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the permittee 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 outfall #001, there is no RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses; data shows this is not occurring at this outfall.
  - For all stormwater outfalls, there is RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because this is an airport and the nature of the business indicates oil has the potential to be present in sufficient amounts to impair beneficial uses.
  - For outfall #001, there is RP for scum and floating debris in sufficient amounts to be unsightly preventing full maintenance of beneficial uses; TSS and *E. coli* limitations are placed in this permit to prevent this general criteria from being violated.
  - For all stormwater 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 permittee 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 outfall #001, there is RP for unsightly color or turbidity in sufficient amounts preventing full maintenance of beneficial uses; TSS limitations will prevent this general criteria from being violated.
  - For all stormwater outfalls, there is no RP for unsightly color or turbidity in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the permittee indicates unsightly color or turbidity will be present in sufficient amounts to impair beneficial uses.
  - For outfall #001, there is RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses; BOD<sub>5</sub> and *E. coli* limitations will be maintained to prevent this general criteria from being violated.
  - For all stormwater outfalls, there is no RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the permittee 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. Numeric effluent limitations are included for those pollutants could be discharged in toxic amounts. These effluent limitations are protective of human health, animals, and aquatic life.
- (E) Waters shall maintain a level of water quality at their confluences to downstream waters that provides for the attainment and maintenance of the water quality standards of those downstream waters, including waters of another state.
  - This criteria was not assessed for antibacksliding as this is a new rule 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.
  - 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 permittee indicates this is occurring.
- (I) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

- There are no solid waste disposal activities or any operation which has reasonable potential to cause or contribute to the materials listed above being discharged through any outfall.
- The previous permit's special conditions required sampling of total petroleum hydrocarbons (TPH) under the decision model to discharge stormwater having a sheen in secondary containment. The special condition has been revised in all permits beginning in 2015 to remove TPH as 40 CFR 136 does not contain any approved methods for the TPH parameter nor are there water quality standards for TPH. This permit requires oil and grease and BTEX (benzene, toluene, ethylbenzene, and xylene) sampling of the potentially contaminated stormwater in secondary containment. The facility need only sample for these constituents prior to release when a sheen or petroleum odor is present.

#### **ANTIDEGRADATION REVIEW:**

Process water discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See <a href="http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm">http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm</a>

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

This permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPP) 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 SWPPs and BMPs need not conduct an additional alternatives analysis unless new BMPs are established to address BMP failures or benchmark exceedances. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.015(9)(A)5 and 7.031(3). For stormwater discharges with new, altered, or expanding discharges, the stormwater BMP chosen for the facility, through the AA performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

✓ Applicable; the facility must review and maintain stormwater BMPs as appropriate.

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

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

#### CHANGES IN DISCHARGES OF TOXIC POLLUTANT:

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

#### **COMPLIANCE AND ENFORCEMENT:**

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

✓ Not applicable; the permittee/facility is not currently under Water Protection Program enforcement action. However, the facility must attempt to make strides to achieve compliance with aluminum limits in this permit while maintaining appropriate treatment for phosphorus.

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

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

✓ Applicable; this permit covers domestic wastewater at outfall #001.

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

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

- ✓ Not applicable; domestic sludge is managed by sending off site using a contract hauler to a permitted facility; at this time the facility uses the City of Branson.
- ✓ Standard conditions Part III is incorporated into this permit.

#### **EFFLUENT LIMITATIONS:**

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

#### **EFFLUENT LIMITATION GUIDELINE:**

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

The facility has an associated Effluent Limit Guideline (ELG) at 40 CFR 449 applicable to the stormwater discharge at this site, and is applied under 40 CFR 125.3(a). 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). See Part IV: EFFLUENT LIMITS DETERMINATION.

#### ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. The final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a permittee must first submit an eDMR Waiver Request Form: <a href="http://dnr.mo.gov/forms/780-2692-f.pdf">http://dnr.mo.gov/forms/780-2692-f.pdf</a>. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is not transferable.

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

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

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

#### GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). In instances where reasonable potential exists, the permit includes limitations within the permit to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to

impact the narrative criteria. Additionally, §644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission.

✓ Applicable; this permit contains effluent limitations for oil and grease; the permit writer has determined the stormwater outfalls have reasonable potential to discharge a sheen or oil per 10 CSR 20-7.031(4)(B) therefore limits were applied. See Part IV. This permit contains effluent limitations to protect for toxicity in accordance with 10 CSR 20-7.031(4)(D) and (G); see Part IV for specific pollutant discussion. Additionally, this permit contains limits for dissolved oxygen, BOD₅ and COD to protect downstream uses per 10 CSR 20-7.031(4)(E); and E. coli limits at outfall #)01 to protect for health hazards to humans per 10 CSR 20-7.031(4)(F).

#### **GROUNDWATER MONITORING:**

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

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

#### LAND APPLICATION:

Land application of wastewater or sludge is performed by facilities to maintain a basin as no-discharge.

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

#### MAJOR WATER USER:

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

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

#### **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.

✓ Applicable; the OWS, as disclosed by the permittee, discharge to outfalls #002, and these outfalls contain appropriate parameters as determined by the permit writer. Sludge generated by OWS is subject to Special Conditions. See SLUDGE – INDUSTRIAL below.

#### REASONABLE POTENTIAL (RP):

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

✓ Applicable; an RPA was conducted on appropriate parameters and was conducted as per (TSD Section 3.3.2). A more detailed version including calculations of this RPA is available upon request. See Wasteload Allocations (WLA) for Limits in this section.

Parameter: Outfall #001	Units	CMC Acute	CCC Chronic	Listing	Daily Max	Monthly Average	n#	CV	n Max	MF	RWC Acute	RWC Chronic	RP
Aluminum, TR	μg/L	750	n/a	AQL	750.00	250.86	47	1.736	5470	3.271497	17895.088	17895.088	Yes

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

n/a Not Applicable

number of samples; if the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent.

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

CCC continuous chronic concentration

CMC continuous maximum concentration

RWC Receiving Water Concentration: concentration of a toxicant or the parameter in the receiving water after mixing (if applicable)

MF Multiplying Factor; 99% confidence level and 99% probability basis

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

- ✓ Applicable; the permit writer conducted an RPD on applicable parameters within the permit. See Part IV: Effluent Limits Determinations below.
- ✓ Not applicable for stormwater outfalls; a mathematical RPA was not conducted for the stormwater outfalls. This permit establishes permit limits and benchmarks for stormwater. The Department has determined stormwater is not a continuous discharge and is therefore not necessarily dependent on mathematical RPAs. However, the permit writer completed an RPD, a reasonable potential determination, using best professional judgment for all of the appropriate parameters in this permit. An RPD consists of reviewing application data and/or discharge monitoring data for the last five years and comparing those data to narrative or numeric water quality criteria.
- Permit writers use the Department's permit writer's manual (<a href="https://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm">https://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm</a>), the EPA's permit writer's manual (<a href="https://www.epa.gov/npdes/npdes-permit-writers-manual">https://www.epa.gov/npdes/npdes-permit-writers-manual</a>), program policies, and best professional judgment. For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, stream flows and uses, and all applicable site specific information and data gathered by the permittee 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 permittee; 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.
- ✓ The permit writer reviewed application materials, DMR data, past inspections, and other site specific factors to evaluate general and narrative water quality reasonable potential for this facility. Per the permit writer's best professional judgment, based on available data and full and accurate disclosure on application materials, this facility demonstrates reasonable potential for excursions from the general or narrative water quality criteria. See Part IV: Effluent Limit Determinations for specific parameter RP.

#### **SAMPLING FREQUENCY JUSTIFICATION:**

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

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

#### SAMPLING TYPE JUSTIFICATION:

Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent should have composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others.

#### 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.

A SOC is not allowed:

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

In order to provide guidance in developing SOCs, and to attain a greater level of consistency, the Department issued a policy on development of SOCs on October 25, 2012. The policy provides guidance to permit writers on standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

✓ Not applicable; this permit does not contain a SOC. Limits have not become more restrictive. No SOC is allowed because the permittee is already capable of meeting the new effluent limits.

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

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

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

#### **SLUDGE - INDUSTRIAL:**

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

✓ Applicable; oil water separator sludge is removed by contract hauler. The permitted management strategy must be followed, see permit under FACILITY DESCRIPTION. If the permitted management strategy cannot be followed, the permittee must obtain a permit modification.

#### **STANDARD CONDITIONS:**

The standard conditions Part I attached to this permit incorporate all sections of 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 permittee 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, sludge, and land application.

#### 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 discharges. The *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001; 1991) Section 3.1 indicates most procedures within the document apply only to water quality based approaches, not end-of-pipe technology-based controls. Hence, stormwater-only outfalls will generally only contain a maximum daily limit (MDL), benchmark, or monitoring requirement as dictated by site specific conditions, the BMPs in place, 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. 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 permittee 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 permittee in knowing when additional corrective actions may be necessary to comply with the conditions of the permit.

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

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

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

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

In accordance with 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when: 1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under section 402(p) of the CWA for the control of stormwater discharges; 3) Numeric effluent limitations are infeasible; or 4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 <a href="https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf">https://www.epa.gov/sites/production/files/2015-11/documents/swppp\_guide\_industrial\_2015.pdf</a>, BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to 1) identify sources of pollution or contamination, and 2) select and carry out actions which prevent or control the pollution of storm water discharges. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

A SWPPP must be prepared by the permittee if the SIC code is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the permittee should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and 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 (<a href="http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf">http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf</a>).

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

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

✓ Applicable; a SWPPP shall be developed and implemented for this facility.

#### SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:

Please review Standard Conditions Part 1, section A, number 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 unless alternates are approved by the Department. 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 permittee is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive. 40 CFR 136 lists the approved methods accepted by the Department. Tables A1-B3 at 10 CSR 20-7.031 shows water quality standards.

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

The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to section 1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by RSMo 577.155; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in RSMo 577.155; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the permittee 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 non-residential 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 permittee 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 shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

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

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

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

✓ Applicable; wasteload allocations for toxic parameters were calculated using water quality criteria or water quality model results and by applying the dilution equation below; WLAs are calculated using the *Technical Support Document For Water Quality-Based Toxics Control* or TSD EPA/505/2-90-001; 3/1991.

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

Where C = downstream concentration

Cs = upstream concentration

 $Qs = upstream \; flow \;$ 

Ce = effluent concentration

Qe = effluent flow

- ✓ Acute wasteload allocations designated as daily maximum limits (MDL) were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).
- ✓ Chronic wasteload allocations designated as monthly average limits (AML) were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ).
- ✓ Number of Samples "n": effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying assumption which should be, at a minimum, targeted to comply with the values dictated by the WLA. Therefore, it is recommended the actual planned frequency of monitoring be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4". For total ammonia as nitrogen, "n = 30" is used.

#### WASTELOAD ALLOCATION (WLA) MODELING:

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

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

#### WATER QUALITY STANDARD REVISION:

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

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

#### **PART IV. EFFLUENT LIMITS DETERMINATIONS**

#### OUTFALL #001 - DOMESTIC 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	MONTHLY	MEASURED
CONVENTIONAL							
BOD <sub>5</sub>	mg/L	15	10	SAME	ONCE/MONTH	MONTHLY	GRAB
E. COLI	#/100 mL	206	206	SAME	ONCE/MONTH	MONTHLY	GRAB
OXYGEN, DISSOLVED (MIN)	mg/L	5.0 min	-	SAME	ONCE/MONTH	MONTHLY	GRAB
PH <sup>†</sup>	SU	6.5 то 9.0	6.5 to 9.0	SAME	ONCE/MONTH	MONTHLY	GRAB
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	20	15	SAME	ONCE/MONTH	MONTHLY	GRAB
METALS							
ALUMINUM, TR	μg/L	750	251	750, 227	ONCE/MONTH	MONTHLY	GRAB
Iron, TR	μg/L	493	246	SAME	ONCE/MONTH	MONTHLY	GRAB
Nutrients							
Ammonia as N (Apr 1 – Sept 30)	mg/L	3.7	1.4	3.6, 1.4	ONCE/MONTH	MONTHLY	GRAB
Ammonia as N (Oct 1 – March 31)	mg/L	7.5	2.8	7.5, 2.9	ONCE/MONTH	MONTHLY	GRAB
PHOSPHORUS, TOTAL P (TP)	mg/L	*	0.5	SAME	ONCE/MONTH	MONTHLY	GRAB

\* monitoring and reporting requirement only

† report the minimum and maximum pH values; pH is not to be averaged

new parameter not established in previous state operating permit

interim parameter requirements prior to end of SOC final parameter requirements at end of SOC

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 assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), monthly monitoring continued from previous permit.

#### **CONVENTIONAL:**

#### Biochemical Oxygen Demand - 5 Day (BOD<sub>5</sub>)

15 mg/L daily maximum and 10 mg/L monthly average effluent limitations per 10 CSR 20-7.015(4)(B)2 for losing stream settings. The previous permit set limits erroneously for a facility discharging to a gaining stream (20 mg/L for a daily maximum).

#### Escherichia coli (E. coli)

Discharges to losing streams [10 CSR 20-7.031(1)(O)] shall not exceed 126 colony forming units per 100 mL [10 CSR 20-7.015(9)(B)1.E.] as a daily maximum (all year). No more than 10% of samples over the course of the calendar year shall exceed 126 colony forming units per 100 mL [10 CSR 20-7.015(9)(B)1.G.]. Same limit for a monthly average; limits continued from the previous permit.

#### Oxygen, Dissolved

Warm water aquatic habitat water quality limits for dissolved oxygen are minimum 5 mg/L [10 CSR 20-7.031 Table A1]; continued from previous permit.

#### pН

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall; continued from previous permit.

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

20 mg/L daily maximum and 15 mg/L monthly average effluent limitations, as per [10 CSR 20-7.015(4)(B)1] for losing streams. Continued from previous permit.

#### **METALS:**

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the *Technical Support Document For Water Quality-based Toxic Controls* (EPA/505/2-90-001) and *The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007). "Aquatic Life Protection" in 10 CSR 20-7.031 Tables A1 and A2, as well as general criteria protections in 10 CSR 20-7.031(4) apply to this discharge.

#### Aluminum, Total Recoverable

Limits continued. Previous permit limits were 750  $\mu$ g/L daily maximum, 227  $\mu$ g/L monthly average; the facility reported between 6 and 5470  $\mu$ g/L for this parameter; this parameter has RP; see fact sheet Part III, REASONABLE POTENTIAL. The facility is not able to meet the new limits however, limitations carried over from a previous permit are not eligible for SOC considerations. Outfall #001 limitations have been recalculated based on site specific data. This provides some elevation of the monthly average limit. The facility shall work to reduce the aluminum feed while still providing for effective phosphorus treatment for the domestic wastewater.

Acute AQL: 750 µg/L

LTAa: WLAa \* LTAa multiplier = 750 \* 0.129 = 96.836 [CV: 1.736, 99th %ile]
Daily Maximum: MDL = LTA \* MDL multiplier = 96.836 \* 7.745 = 750 µg/L [CV: 1.736, 99th %ile]
Monthly Average: AML = LTA \* AML multiplier = 96.836 \* 2.591 = 250.9 µg/L [CV: 1.736, 95th %ile, n=4]

#### Iron, Total Recoverable

Iron was not used during the last permit term as a removal procedure for phosphorus, however, the facility may still use iron. Limitations from the previous permit maintained. The facility must continue to monitor for iron even if the chemical is not used in the system. The previous permit set limits based on the groundwater standards for iron; this is appropriate as the groundwater standard (300  $\mu$ g/L) is more conservative than the protection of aquatic life (1000  $\mu$ g/L) standard.

WLA:  $C_e = ((0.006705 + 0.0)300 - (0.0 * 0.0))/0.006705$   $C_e = 300 \mu g/L$ 

 $\begin{array}{ll} LTA_c = 300 \ (0.527) = 158.1 \ \mu g/L & [CV = 0.6, 99^{th} \ Percentile] \\ LTA_a = 300 \ (0.321) = 96.3 \ \mu g/L & [CV = 0.6, 99^{th} \ Percentile] \\ Use most protective number of LTA_c or LTA_a = 96.3 \\ MDL = 96.3 \ (3.11) \approx 493 \ \mu g/L & [CV = 0.6, 99^{th} \ Percentile] \\ AML = 96.3 \ (1.55) \approx 246 \ \mu g/L & [CV = 0.6, 95^{th} \ Percentile, n = 4] \end{array}$ 

#### **NUTRIENTS:**

#### Ammonia, Total as Nitrogen

Previous permit limits continued. The facility reported from 0.01 to 34.4 mg/L for this parameter. There is RP for ammonia.

Acute: Salmonids Absent CMC: [(0.411/1+10<sup>7.8-pH</sup>)]+[58.4/1+10<sup>pH-7.204</sup>)] Chronic: Early Stages Present CCC: [0.0577/1+10<sup>7.688-pH</sup>)]+[2.487/1+10<sup>pH-7.688</sup>)]\*MIN(2.85,1.45\*10<sup>0.028\*(25-T)</sup>)

Summer: April 1 – September 30 Acute WLA:  $C_e = 12.1 \text{ mg/L}$  Chronic WLA:  $C_e = 1.5 \text{ mg/L}$ 

LTA<sub>a</sub>: 12.1 mg/L (0.321) = 3.9 mg/L [CV = 0.6, 99<sup>th</sup> Percentile]

LTA<sub>c</sub>: 1.5 mg/L (0.780) = 1.2 mg/L [CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]

Use most protective number of LTA<sub>a</sub> or LTA<sub>c</sub>.

MDL: 1.2 mg/L (3.11) = 3.7 mg/L [CV = 0.6, 99<sup>th</sup> Percentile] AML: 1.2 mg/L (1.19) = 1.4 mg/L [CV = 0.6, 95<sup>th</sup> Percentile, n = 30]

Winter: October 1 – March 31 Acute WLA:  $C_e = 12.1 \text{ mg/L}$ Chronic WLA:  $C_e = 3.1 \text{ mg/L}$ 

LTA<sub>a</sub>: 12.1 mg/L (0.321) = 3.9 mg/L [CV = 0.6, 99<sup>th</sup> Percentile]

LTA<sub>c</sub>: 3.1 mg/L (0.780) = 2.4 mg/L [CV = 0.6, 99<sup>th</sup> Percentile, 30 day avg.]

Use most protective number of LTA<sub>a</sub> or LTA<sub>c</sub>.

 $\begin{array}{lll} \text{MDL:} & 2.4 \text{ mg/L } (3.11) = 7.5 \text{ mg/L} \\ \text{AML:} & 2.4 \text{ mg/L } (1.19) = 2.8 \text{ mg/L} \\ \end{array}$ 

The flows established at this outfall do not warrant additional nitrogen monitoring.

#### Phosphorus, Total P (TP)

Phosphorus is expected to be present in this outfall's discharge therefore monitoring is required per 10 CSR 20-7.015(9)(D)8. However, this facility is located in the Lake Taneycomo watershed therefore 0.5 mg/L monthly average applies. Continued from previous permit.

#### OUTFALLS #002, #003, #004, #005, #006 - STORMWATER

#### **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	QUARTERLY	24 HR. ESTIMATE
CONVENTIONAL							
COD	mg/L	40	1	30/40	ONCE/QUARTER	QUARTERLY	GRAB
OIL & GREASE	mg/L	10	-	SAME	ONCE/QUARTER	QUARTERLY	GRAB
PH <sup>†</sup>	SU	6.5 то 9.0		SAME	ONCE/QUARTER	QUARTERLY	GRAB
SETTLEABLE SOLIDS	mL/L/hr	**	1.0	SAME	ONCE/QUARTER	QUARTERLY	GRAB
TSS	mg/L	**	50	SAME	ONCE/QUARTER	QUARTERLY	GRAB
NUTRIENTS:							
Ammonia ▼	mg/L	7.5	-	NEW	ONCE/QUARTER	QUARTERLY	GRAB
Kjeldahl N, total $ abla$	mg/L	*	-	NEW	ONCE/QUARTER	QUARTERLY	GRAB
NITRATE PLUS NITRITE ▼	mg/L	*	-	NEW	ONCE/QUARTER	QUARTERLY	GRAB
NITROGEN, TOTAL (TN)▼	mg/L	*	-	NEW	ONCE/QUARTER	QUARTERLY	GRAB
VOLATILES							
BENZENE	μg/L	**	5	SAME▲	ONCE/QUARTER	QUARTERLY	GRAB
ETHYLBENZENE	μg/L	**	320	SAME▲	ONCE/QUARTER	QUARTERLY	GRAB
TOLUENE	μg/L	**	1000	SAME▲	ONCE/QUARTER	QUARTERLY	GRAB
XYLENE	μg/L	**	10,000	SAME▲	ONCE/QUARTER	QUARTERLY	GRAB

- \* monitoring and reporting requirement only
- \*\* monitoring with associated benchmark
- † report the minimum and maximum pH values; pH is not to be averaged
- new parameter not established in previous state operating permit
- ▲ these were limitations at outfall #002
- ▼ Nutrient testing is not required during quarters where no urea was used.

#### **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 assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), quarterly monitoring continued from previous permit.

#### **CONVENTIONAL:**

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

Daily maximum limit of 40 mg/L continued from the previous permit to protect sensitive waterways downstream (30 mg/L at outfall #002 modified to 40 mg/L). This facility is located in the Lake Taneycomo watershed. Outfall #002 had limits of 30 mg/L but outfall #002 and the rest of the stormwater outfalls are sufficiently managed and adequately similar to be grouped together; see Part III, ANTIBACKSLIDING for more information. COD limitations were placed in the last renewal for protection of the lake's dissolved oxygen, therefore must remain. COD is a known parameter of concern and is implemented for airports conducting deicing activities in the effluent limitation guideline. However, the ELG limit is above what the permit writer believes to be essential to protect the Lake Taneycomo, and additionally, this airport is not considered a new source therefore the ELG limits are not necessarily applicable. The facility has had success in meeting the limit except for once in the fourth quarter 2018. The cause of COD at 100 mg/L was not explained in the application for renewal. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD may indicate materials/chemicals coming into contact with

stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. The limit is achievable through proper BMP controls.

#### Oil & Grease

10 mg/L daily maximum (10 CSR 20-7.031 Table A1); no monthly average; continued from previous permit. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or toluene, but these constituents are often lost during testing due to their boiling points. The facility reported from 5 to 5.5 mg/L. The permit writer completed an RPD on this parameter and found RP. RP was determined to be a parameter likely to be present due to the nature of the business. The facility must take action to assure oils and greases are not discharged to protect the sensitive nature of the lake watershed. 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 permittee to visually observe the discharge and receiving waters for sheen or bottom deposits.

#### Settleable Solids (SS)

Monitoring with a daily maximum benchmark of 1.0 mL/L/hour continued from the previous permit. 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 permittee 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 50 mg/L; continued from previous permit; developed by using site specific data. The facility reported 45 mg/L in the application for renewal therefore the benchmark is achievable. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. SS and TSS are varied forms of solids which may be discharged from a site. TSS is also a valuable indicator parameter. TSS monitoring allows the permittee 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.

#### **NUTRIENTS:**

#### Ammonia, Total as Nitrogen

7.5 mg/L daily maximum. New parameter. The facility has disclosed they would like to use urea as a deicing chemical. Technology limits from 40 CFR 449.10(a) use 14.7 mg/L daily maximum. However, Missouri's water quality standards are more stringent therefore will be used. Because urea is only necessary during the winter, the facility only needs to test when they use urea; if urea is not used during the entire reporting period, a test is not required. A schedule of compliance is not afforded as it is the facility's choice to use urea as a deicing chemical; other chemicals do not contain ammonia therefore can be used to assure compliance with the limit.

```
Acute: Salmonids Absent CMC: [(0.411/1+10<sup>7.8-pH</sup>)]+[58.4/1+10<sup>pH-7.204</sup>)]
Chronic: Early Stages Present CCC: [0.0577/1+10^{7.688-pH})]+[2.487/1+10^{pH-7.688})]*MIN(2.85.1.45*10^{0.028*(25-T)})
Acute WLA: C_e = 12.1 \text{ mg/L}
Chronic WLA:C_e = C_e = 3.1 \text{ mg/L}
LTA<sub>a</sub>:
                12.1 \text{ mg/L} (0.321) = 3.9 \text{ mg/L}
                                                                                                        [CV = 0.6, 99^{th} Percentile]
LTA<sub>c</sub>:
                3.1 \text{ mg/L} (0.780) = 2.4 \text{ mg/L}
                                                                                                       [CV = 0.6, 99^{th} Percentile, 30 day avg.]
                           Use most protective number of LTA<sub>a</sub> or LTA<sub>c</sub>.
MDL:
                2.4 \text{ mg/L} (3.11) = 7.5 \text{ mg/L}
                                                                                                        [CV = 0.6, 99^{th} Percentile]
                2.4 \text{ mg/L} (1.19) = 2.8 \text{ mg/L}
                                                                                                       [CV = 0.6, 95^{th} Percentile, n = 30]
AML:
Only the daily maximum will be applied for this parameter as this is a stormwater-only discharge.
```

The facility is not required to test for this and the following nutrients when no urea is used during the entire quarter. See note ▼ in the permit. Additionally, for the eDMR system, the facility will choose "Conditional Monitoring - Not Required This Period" in the system. Choosing this option will not flag a violation in the system.

#### Nitrogen, Total Kjeldahl (TKN)

Nitrogen is expected to be present in this outfall's discharge therefore quarterly monitoring is included using the permit writer's best professional judgment based on 10 CSR 20-7.015(9)(D)8. See note ▼ in the permit.

#### Nitrate plus Nitrite

Nitrogen is expected to be present in this outfall's discharge therefore quarterly monitoring is included using the permit writer's best professional judgment based on 10 CSR 20-7.015(9)(D)8. See note ▼ in the permit.

#### Nitrogen, Total N (TN)

Nitrogen is expected to be present in this outfall's discharge therefore the permit writer is requesting the facility also supply the total nitrogen in the discharge at the same frequency as the other nutrient parameters. See note  $\nabla$  in the permit.

#### **VOLATILES:**

#### Benzene

Benchmark of  $5 \mu g/L$  designed to assure treatment technologies are installed; a numerical benchmark is being used to assure correct maintenance of the oil water separator and vegetative buffers at the site. Benchmark continued from the previous permit; this facility can meet the benchmark at all times.

#### Ethylbenzene

Benchmark of  $320 \mu g/L$  designed to assure treatment technologies are installed; a numerical benchmark is being used to assure correct maintenance of the oil water separator and vegetative buffers at the site. Benchmark continued from the previous permit; this facility can meet the benchmark at all times.

#### **Toluene**

Benchmark of  $1000 \,\mu\text{g/L}$  designed to assure treatment technologies are installed; a numerical benchmarks is being used to assure correct maintenance of the oil water separator and vegetative buffers at the site. Benchmark continued from the previous permit; this facility can meet the benchmark at all times.

#### **Xylene**

Benchmark of  $10,000 \mu g/L$  designed to assure treatment technologies are installed; a numerical benchmark is being used to assure correct maintenance of the oil water separator and vegetative buffers at the site. Benchmark continued from the previous permit; this facility can meet the benchmark at all times.

#### PART V. ADMINISTRATIVE REQUIREMENTS

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

#### PERMIT SYNCHRONIZATION:

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

✓ This permit has attained synchronization.

#### **PUBLIC NOTICE:**

The Department shall give public notice a draft permit has been prepared and its issuance is pending. <a href="http://dnr.mo.gov/env/wpp/permits/pn/index.html">http://dnr.mo.gov/env/wpp/permits/pn/index.html</a>. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

✓ The Public Notice period for this operating permit was from 10/18/2019 to 11/18/2019. No comments were received.

**DATE OF FACT SHEET:** NOVEMBER 20, 2019 **COMPLETED BY:** 

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



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

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

#### Part I – General Conditions Section A – Sampling, Monitoring, and Recording

#### 1. Sampling Requirements.

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

#### 2. Monitoring Requirements.

- a. Records of monitoring information shall include:
  - i. The date, exact place, and time of sampling or measurements;
  - ii. The individual(s) who performed the sampling or measurements;
  - iii. The date(s) analyses were performed;
  - iv. The individual(s) who performed the analyses;
  - v. The analytical techniques or methods used; and
  - vi. The results of such analyses.
- b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
- Sample and Monitoring Calculations. Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- Test Procedures. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
- 5. Record Retention. Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

#### Illegal Activities.

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

#### Section B – Reporting Requirements

#### 1. Planned Changes.

- a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
  - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
  - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
  - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
- iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

#### 2. Non-compliance Reporting.

a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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

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

#### 7. Discharge Monitoring Reports.

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

#### Section C – Bypass/Upset Requirements

#### 1. **Definitions.**

- a. Bypass: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
- 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



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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.



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- 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.

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#### PART III - BIOSOLIDS AND SLUDGE FROM DOMESTIC TREATMENT FACILITIES

#### SECTION A – GENERAL REQUIREMENTS

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

#### SECTION B - DEFINITIONS

- 1. Best Management Practices are practices to prevent or reduce the pollution of waters of the state and include agronomic loading rates (nitrogen based), soil conservation practices, spill prevention and maintenance procedures and other site restrictions.
- 2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
- 3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food, feed or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
- 4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR Part 503.
- 5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PSRP) in accordance with 40 CFR Part 503.
- 6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
- 7. Feed crops are crops produced primarily for consumption by animals.
- 8. Fiber crops are crops such as flax and cotton.
- 9. Food crops are crops consumed by humans which include, but is not limted to, fruits, vegetables and tobacco.
- 10. Industrial wastewater means any wastewater, also known as process wastewater, not defined as domestic wastewater. Per 40 CFR Part 122.2, process wastewater means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product. Land application of industrial wastewater, residuals or sludge is not authorized by Standard Conditions PART III.
- 11. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological contact systems, and other similar facilities. It does not include wastewater treatment lagoons or constructed wetlands for wastewater treatment.
- 12. Plant Available Nitrogen (PAN) is nitrogen that will be available to plants during the growing seasons after biosolids application.
- 13. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
- 14. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs), sewage sludge incinerator ash, or grit/screenings generated during preliminary treatment of domestic sewage.
- 15. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen or concrete lined basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
- 16. Septage is the sludge pumped from residential septic tanks, cesspools, portable toilets, Type III marine sanitation devices, or similar treatment works such as sludge holding structures from residential wastewater treatment facilities with design populations of less than 150 people. Septage does not include grease removed from grease traps at a restaurant or material removed from septic tanks and other similar treatment works that have received industrial wastewater. The standard for biosolids from septage is different from other sludges. See Section H for more information.

#### SECTION C - MECHANICAL WASTEWATER TREATMENT FACILITIES

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

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

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

#### SECTION E - INCINERATION OF SLUDGE

- Please be aware that sludge incineration facilities may be subject to the requirements of 40 CFR Part 503 Subpart E, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or, if the ash is determined to be hazardous, with 10 CSR 25.
- 3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, mass of sludge incinerated and mass of ash generated. Permittee shall also provide the name of the ash disposal facility and permit number if applicable.

#### SECTION F – SURFACE DISPOSAL SITES AND BIOSOLIDS AND SLUDGE LAGOONS

- 1. Please be aware that surface disposal sites of biosolids or sludge from wastewater treatment facilities may be subject to other laws including the requirements in 40 CFR Part 503 Subpart C, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 2. Biosolids or sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain biosolids or sludge storage lagoons as storage facilities, accumulated biosolids or sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of biosolids or sludge removed will be dependent on biosolids or sludge generation and accumulation in the facility. Enough biosolids or sludge must be removed to maintain adequate storage capacity in the facility.
  - a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of biosolids or sludge on the bottom of the lagoon, upon prior approval of the Department; or
  - b. Permittee shall close the lagoon in accordance with Section I.

#### SECTION G - LAND APPLICATION OF BIOSOLIDS

- 1. The permittee shall not land apply biosolids unless land application is authorized in the facility description, the special conditions of the issued NPDES permit, or in accordance with Section A.3.c., above.
- 2. This permit only authorizes "Class A" or "Class B" biosolids derived from domestic wastewater to be land applied onto grass land, crop land, timber, or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
- 3. Class A Biosolids Requirements: Biosolids shall meet Class A requirements for application to public contact sites, residential lawns, home gardens or sold and/or given away in a bag or other container.
- 4. Class B biosolids that are land applied to agricultural and public contact sites shall comply with the following restrictions:
  - a. Food crops that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
  - b. Food crops below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for four months or longer prior to incorporation into the soil.
  - c. Food crops below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than four months prior to incorporation into the soil.
  - d. Animal grazing shall not be allowed for 30 days after application of biosolids.
  - e. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
  - f. Turf shall not be harvested for one year after application of biosolids if used for lawns or high public contact sites in close proximity to populated areas such as city parks or golf courses.
  - g. After Class B biosolids have been land applied to public contact sites with high potential for public exposure, as defined in 40 CFR § 503.31, such as city parks or golf courses, access must be restricted for 12 months.
  - h. After Class B biosolids have been land applied public contact sites with low potential for public exposure as defined in 40 CFR § 503.31, such as a rural land application or reclamation sites, access must be restricted for 30 days.

#### 5. Pollutant limits

- a. Biosolids shall be monitored to determine the quality for regulated pollutants listed in Table 1, below. Limits for any pollutants not listed below may be established in the permit.
- b. The number of samples taken is directly related to the amount of biosolids or sludge produced by the facility (See Section J, below). Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to achieve pollutant concentration below those identified in Table 1, below.
- c. Table 1 gives the ceiling concentration for biosolids. Biosolids which exceed the concentrations in Table 1 may not be land applied.

TABLE 1

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

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

TABLE 2

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

e. Annual pollutant loading rate.

Table 3

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

f. Cumulative pollutant loading rates.

Table 4

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

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

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

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

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

#### SECTION H - SEPTAGE

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

### SECTION I— CLOSURE REQUIREMENTS

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

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

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

#### SECTION J – MONITORING FREQUENCY

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

#### TABLE 5

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

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

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

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

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

## SECTION K - RECORD KEEPING AND REPORTING REQUIREMENTS

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

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

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

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

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

#### f. Contract Hauler Activities:

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

# g. Land Application Sites:

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

# RECEIVED



MISSOURI DEPARTMENT OF NATURAL RESOURCES

WATER PROTECTION PROGRAM

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

FOR AGENCY	USE ONLY
CHECK NUMBER	

HECK	NUMB	ER

DATE RECEIVED G FEE SUBMITTED

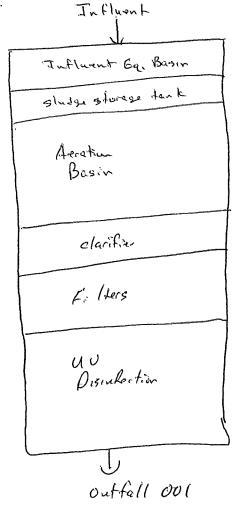
READ THE ACCOMPAN	YING	INST	RUCT	IONS	BEFORE	COMP	LETING	THIS	FORM

	S APPLICATION IS FOR:										
	n operating permit for a new or	unpermitted facility.	Construc	ction Permit #							
(In	nclude completed antidegradation	on review or request	for antideo	gradation review, see instructi	ons)						
□ A	new site-specific operating perr	mit formerly general ¡	permit #M0	OG							
✓ As	site-specific operating permit re	newal: Permit	#MO- <u>013</u>	5127 Expiration Date	12-31-2019						
☐ As	site-specific operating permit mo	_									
☐ Ge	neral permit (MOGD – Non PO	TWs discharging < 5	0,000 GPI	D <i>or</i> MOG823 – Land Applica	tion of Dome	estic Wastewater):					
	ermit #MO Expirati										
1.1	Is the appropriate fee included		(see instru	uctions for appropriate fee)?	☐ YE	s 🔽 NO					
2. FAC	LITY										
NAME	n Airport LLC				417-334	E NUMBER WITH AREA CODE -8136					
ADDRESS	S (PHYSICAL)	A. W.	CITY	And the second s	STATE	ZIP CODE					
	ranson Airport Blvd.		Hollister		MO	65672					
2.1	Legal description: NW			0 , T 21N, R 21W	County Tar	ney					
2.2	UTM Coordinates Easting (X versal Transverse Mercator (UTM),		thing (Y): 4 aced to Nort		}						
2.3	Name of receiving stream: T			n American Datum 1900 (IVADO)	/						
2.4	Number of outfalls: 007	Wastewater outfa		Stormwater outfalls: 6	Instream	monitoring sites:					
3. OW	NER										
NAME	n Airport LLC			EMAIL ADDRESS	TELEPHON 417-334	NE NUMBER WITH AREA CODE -8136					
ADDRESS			CITY		STATE ZIP CODE						
	ranson Airport Blvd.		Hollister		МО	65672					
3.1	Request review of draft perm		ce?	☑ YES ☐ NO							
3.2	Are you a publicly owned tre	eatment works?		☐YES ☑NO							
	If yes, is the Financial Quest	ionnaire attached?		☐ YES ☐ NO							
3.3	Are you a privately owned tr			☑ YES ☐ NO							
3.4	Are you a privately owned tr	eatment facility regul	lated by th	e Public Service Commission	? YES						
	NTINUING AUTHORITY: Permenance and modernization of		that Will s	serve as the continuing auti	iority for th	e operation,					
NAME		<u> </u>		EMAIL ADDRESS	1	NE NUMBER WITH AREA CODE					
Branso	n Airport LLC		CITY		417-334 STATE	-8136   ZIP CODE					
4000 B	ranson Airport Blvd.		Hollister		МО	65672					
If the c	continuing authority is different t	han the owner, inclu	de a copy	of the contract agreement be	tween the tw	o parties and a					
	otion of the responsibilities of be	oth parties within the	agreemer	<b>it.</b> Takka katora katora							
NAME	<u> </u>	TITLE		CERTIFICATE NUMBER							
Ethen F		Operator		C-14259	NDE .						
EMAIL AD	odress y@ozarksenvironmentalservice	es.ora		TELEPHONE NUMBER WITH AREA CO 417-294-2438	שטב						
	CILITY CONTACT			,							
NAME		<u> </u>		Operations Manager							
Terry B				TELEPHONE NUMBER WITH AREA CO	ODE						
	Dozarksenvironmentalservices.	org		(417) 294-1963							
ADDRES:			CIT Kin	nberling City	MO	ZIP CODE 65686					
P.O. Bo	DX DUD 512 (03-15)		INII	nooning on		1					

# 7. DESCRIPTION OF FACILITY

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

Attach sheets as necessary.





AHachment A

# FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001

Wastewater treatment facility; SIC # 4581& 4952 — Bar Screens / flow equalization / anoxic basin / oxic basin / post-anoxic basin /

tertiary filters / chemical addition to facilitate phosphorus removal / ultraviolet disinfection / effluent pump station

Legal Description:

NW14, SW14, NE14, Sec. 10, T21N, R21W, Taney County

UTM

X = 482501 Y = 4043481

Receiving Stream:

Tributary to Thorp Creek (Losing)

First Classified Stream and ID:

Turkey Creek (C) (2443)

Design organic population equivalent is 106.

Design average daily flow is 10,650 gallons per day.

Average flow < 5000 gallons per day.

Design sludge production is 2 dry tons per year. Sludge disposal by contract hauler.

Airport; SIC # 4581—Oil/water separator and stormwater discharge only.

Legal Description:

NE 1/4, SE 1/4, NW 1/4, Sec. 10, T21N, R21W, Taney County

UTM

X = 482378 Y = 4043400

Receiving Stream:

Tributary to Thorp Creek (Losing)

First Classified Stream and ID:

Turkey Creek (C) (2443)

Design flow is 250,000 gallons per day. Actual flow is dependent upon rainfall.

Airport; SIC # 4581— De-icing pad area; stormwater discharge only; not for use during de-icing activities

Legal Description:

SE 14, NW 14, NW 14, Sec. 10, T21N, R21W, Taney County

UTM

 $X = 482011 \quad Y = 4043609$ 

Receiving Stream:

Tributary to Turkey Creek Turkey Creek (C) (2443)

First Classified Stream and ID:

Design flow is 44,000 gallons per day. Actual flow is dependent upon rainfall.

Airport; SIC # 4581 — East-side taxiway runoff; stormwater discharge only

Legal Description:

SE 1/4, NW 1/4, NW 1/4, Sec. 10, T21N, R21W, Taney County

UTM

 $X = 481922 \quad Y = 4043536$ Tributary to Turkey Creek

Receiving Stream:

Turkey Creek (C) (2443)

First Classified Stream and ID:

Design flow is 250,000 gallons per day. Actual flow is dependent upon rainfall.

OUTFALL #005

Airport; SIC # 4581 — Runway runoff and west-side of taxiway runoff; stormwater discharge only

Legal Description:

NE ¼, SE ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

UTM

X = 481721 Y = 4043824

Receiving Stream:

Tributary to Turkey Creek

First Classified Stream and ID:

Turkey Creek (C) (2443)

Design flow is 500,000 gallons per day. Actual flow is dependent upon rainfall.

OUTFALL #006

Airport; SIC # 4581— Stormwater retention basin below de-icing pad, stormwater discharge

Legal Description:

NW 14, NW 14, NW 14, Sec. 10, T21N, R21W, Taney County

UTM

 $X = 481891 \quad Y = 4043847$ Tributary to Turkey Creek

Receiving Stream:

First Classified Stream and ID:

Turkey Creek (C) (2443)

Design flow is 250,000 gallons per day. Actual flow is dependent upon rainfall.

OUTFALL #007

Airport; SIC # 4581 — De-Icing Storage Tanks

Discharge from this outfall is not authorized, and shall be subject to 40 CFR 122.41(m) and reported according to 40 CFR

122.41(m)(3)(i) & (ii).

Legal Description:

SE ¼, NW ¼, NW ¼, Sec. 10, T21N, R21W, Taney County

**UTM** 

X = 482011 Y = 4043609

Receiving Stream:

Tributary to Turkey Creek

First Classified Stream and ID:

Turkey Creek (C) (2443)

Design flow is 0. Actual flow is 0.

8. ADDITIONAL FACILITY INFORMATION	
8.1 Facility SIC code: 4581 Discharge SIC code: 4952	
8.2 Number of people presently connected or population equivalent (P.E.) 59	Design P.E. <sup>106</sup>
8.3 Connections to the facility:	
Number of units presently connected:	
Homes Trailers Apartments Other (including industrial)	·
Number of commercial establishments: 4	
8.4 Design flow: 10650 gpd Actual flow: 4700 gpd	1
8.5 Will discharge be continuous through the year?	
Discharge will occur during the following months: all	
How many days of the week will discharge occur? all	
8.6 Is industrial wastewater discharged to the facility? ☐Yes ☑ No	
If yes, attach a list of the industries that discharge to your facility	
8.7 Does the facility accept or process leachate from landfills? ☐ Yes ☑ No	
8.8 Is wastewater land applied?	
If yes, is Form I attached?	
8.9 Does the facility discharge to a losing stream or sinkhole?	
8.10 Has a wasteload allocation study been completed for this facility? ☐Yes ☑ No	)
9. LABORATORY CONTROL INFORMATION	
LABORATORY WORK CONDUCTED BY PLANT PERSONNEL	
Lab work conducted outside of plant.	☑Yes ☐ No
Push-button or visual methods for simple test such as pH, settlable solids.	☑Yes □ No
Additional procedures such as dissolved oxygen, chemical	
oxygen demand, biological oxygen demand, titrations, solids, volatile content.	☑Yes ☐ No
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	☑Yes ☐ No
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph.	☐Yes <b>☑</b> No
10. COLLECTION SYSTEM  10.1 Length of pipe in the sewer collection system?  800 Feet, or	Miles (either unit is appropriate)
Total Congress of pipe in the control	whice (cities and to appropriate)
10.2 Does significant infiltration occur in the collection system? ☐Yes ☑ No	
If yes, briefly explain any steps underway or planned to minimize inflow and infiltra	tion:
11. BYPASSING	
Does any bypassing occur in the collection system or at the treatment facility? Yes	] No
If yes, explain:	

12. SLU	JDGE HANDLING, USE AND DI	SPOSAL			- 1000 - 1000 - 1000							
12.1	Is the sludge a hazardous was		CSR 25?	☐ Yes 🗸	] No							
12.2	Sludge production, including sl	udge received from	Design	dry tons/year <sup>0</sup> _	Actu	al dry tons/year						
<b>12.3</b> Sludge ☐ No s	Capacity of sludge holding stru storage provided: 561 cubic fo sludge storage is provided.	eet; days of Sludge is stored in l		percent solids	of sludge;							
12.4	Type of Storage:	✓ Holding tank ☐ Basin ☐ Concrete Pad		☐ Building☐ Lagoon☐ Other (Describe)								
12.5	Sludge Treatment: Anaerobic Digester Storage Tank Lime Stabilization	☐ Lagoon ☐ Aerobic Diges ☐ Air or Heat Dr		Compo	on)							
☐ Inci	Land Application  Contract Hauler  Incineration  Solid waste landfill  Person responsible for hauling sludge to disposal facility:  Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years)  Hauled to Another treatment facility  Sludge Retained in Wastewater treatment lagoon											
NAME	applicant	npiete below)			EMAIL ADDRESS							
Ozarks	Environmental Services		CITY			STATE	ZIP CODE					
P.O. Bo	x 606		Kimberling	-		МО	65686					
CONTACT Terry Ba			417-294-19	JMBER WITH AR 63	EA CODE	PERMIT N MO-	NU.					
12.8	Sludge use or disposal facility	By others (Comple	ete below.)		EMAIL ADDRESS							
NAME City of E	Branson				LWAIL ADDITION							
ADDRESS	601 Compton Drive		CITY	Branso	n	MO STATE	ZIP CODE 65616					
CONTACT Mike Ra	PERSON		TELEPHONE N 417-243-27	UMBER WITH AR 40	EA CODE	PERMIT NO. MO- 0025241						
12.9	Does the sludge or biosolids d ☑Yes ☐ No (Explain)											
Loorlif	that I am familiar with the infor	nation contained in	the applicati	on, that to th	ne best of my kn	nowledge a	and belief such					
l-fama	ation is true, complete and accur tions, orders and decisions, subj	ate and if granted	this permit. I	agree to ab	ide by the iviisso	oun Glean	Water Law and an rules,					
	YPE OR PRINT)	OFFICIAL TIT	LE	arte.	TE	LEPHONE NU	MBER WITH AREA CODE					
	esse Foshaugh	Deputy	Vired	or Oper		V -	43-3218					
SIGNATU	esu Jam				Ŋ.	T/Q	/19					
MO 780-	1512 (03-1 <b>5</b> )				,	-						



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

	IEF													

1.0 NAME OF FACILITY

Branson Airport WWTF

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

MO-0135127

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

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. Airport

# 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.

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
002	Storm water runoff	2,880 gpd avg.	Oil/Water Separator	
003	Storm water runoff	2,880 gpd avg.	None	Surface Runoff
004	Storm water runoff	0 gpd	None	Surface Runoff
005	Storm water runoff	0 gpd	None	Surface Runoff
006	Storm water runoff	0 gpd	None	Surface Runoff
007	De Icing Storage Tanks	0 gpd	None	Storage Tank
	Attach add	ditional pages if necess	ary.	

	□ Ye	es (complete the f	ollowing table)	abla	No (go to s	ection 2.3)				
				2 EDE	QUENCY		4.	FLOW B. TOTAL	VOLUME	
1.				3. FRE	QUENCI	A. FLOW RA	TE (in mgd)	(specify w		C. DURATION
OUTFALL NUMBER		2. OPERATION(S) CONT	RIBUTING 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)
		CTION								
. Doe:	s an e	effluent limitation of ate the part and s	juideline (ELG) p ubparts applicab	oromulgate le.	ed by EPA u	ınder sectior	1 304 of the	e Clean Wateı	· Act apply to	your
	_	•			[7]	No (ao to sa	oction 2.51			
	] Yes		Subpart(							
. Are elow.	the lir	mitations in the eff	luent guideline(s	) expresse	ed in terms	of productior	n (or other	measure of o	peration)? De	escribe in C
Г	l Yes	imitations in the effluent guideline(s) expressed in terms of production (or other s (complete C.)  No (go to section 2.5)  Inswered "yes" to B, list the quantity representing an actual measurement of your in the terms and units used in the applicable effluent guideline and indicate the a b. QUANTITY PER DAY C. UNITS OF MEASURE  D. OPERATION, PRODUCT, I								
		s (complete C.)			ont of volu	r mavimum lav	el of produc	tion		
C. If yo express	ou ans sed in				licate the a	affected outfall	ls.			
	D 0) //	- MENTO								
	Are y	you required by any federal, state, or local authority to meet any implementation ading, or operation of wastewater treatment equipment or practices or any other				n schedule for	the construc	tion, which may		
۸						to, permit con	aitions, admi	nistrative		
Α.	offoot	ading, or operation of wastewater treatment equipment or practices or any other at the discharges described in this application? This includes, but is not limited to a forcement orders, enforcement compliance schedule letters, stipulations, court of the following table)  Who (go to 2.6)  TION OF CONDITION,  2. AFFECTED  3. BRIEF DESCRIPTION OF PROJECT					t orders, and g	ers, and grant or loan condition		
Α.	offoot									
Α.	affect or en	ou required by any federal, state, or local authority to meet any implementation so ding, or operation of wastewater treatment equipment or practices or any other entire discharges described in this application? This includes, but is not limited to, forcement orders, enforcement compliance schedule letters, stipulations, court or complete the following table)    V   No (go to 2.6)								
A	affector en							4. FINAL CO	MPLIANCE DATE	
A. Y	affector en	pograding, or operation of wastewater treatment equipment or practices or any other environ fect the discharges described in this application? This includes, but is not limited to, permit renforcement orders, enforcement compliance schedule letters, stipulations, court orders, as (complete the following table)  Solution of Condition, 2. Affected 3. BRIEF DESCRIPTION OF PROJECT							4. FINAL CO	MPLIANCE DATI
A. Y	affector en	forcement orders, omplete the follow rion of condition,	enforcement conving table)  2. AFFECTED				OF PROJECT			
A. Y	affector en	forcement orders, omplete the follow rion of condition,	enforcement conving table)  2. AFFECTED				OF PROJECT			
A. Y	affector en	forcement orders, omplete the follow rion of condition, ement, etc.	enforcement conving table)  2. AFFECTED OUTFALLS	2	3. BRIE	F DESCRIPTION C			A. REQUIRED	B. PROJECTE
A. Y	affector en	forcement orders, omplete the follow rion of condition,	enforcement conving table)  2. AFFECTED OUTFALLS	onal sheet	3. BRIEI	DESCRIPTION C	ution contro	ol programs or	A. REQUIRED	в. PROJECTE

information for any haulers	v industrial or domestic bios	volume, and metl	generated at yo hods (incineration	our facility. Include names and contact on, landfilling, composting, etc) used. See
DATA COLLECTION AND	REPORTING REQUIREM	ENTS FOR APP	LICANTS	
3.0 EFFLUENT (AND INT	AKE) CHARACTERISTICS	(SEE INSTRUC	TIONS)	
A. & B. See instructior number or designation department or rule.	ns before continuing – comp in the space provided. The	lete one Table 1 facility is not requ	for <b>each outfal</b> uired to comple	I (and intake) – annotate the outfall (intake) e intake data unless required by the
helieve is discharged o	w to list any pollutants listed or may be discharged from a sons you believe it to be pro	any outfall not list	ed in parts 3.0 <i>l</i>	C. Table B which you know or have reason to A or B on Table 1. For every pollutant listed, ata in your possession.
1. POLLUTANT	2. SOUR	CE	3. OUTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)
Oil and Grease	Fuel Farm and the loa	ad/offload pad	002,003,004,0 05,006,007	<5.2 mg/l
Toulene	Airplane fuel		002,003,004,0 05,006,007	<1.0 ug/l
Ethylbenzene	Airplane fuel		002,003,004,0 05,006,007	<1.0 ug/l
Total Xylenes	Airplane fuel		002,003,004,0 05,006,007	<2.0 ug/l
Benzene	Airplane fuel		002,003,004,0 05,006,007	<1.0 ug/l
Gasoline Range Organics	Airplane fuel		002	<0.0005 ug/l
3.1 Whole Effluent Toxici  A. To your knowledge, h waters in relation to your  Yes (go to 3.1 B)	ty Testing ave any Whole Effluent Tox discharge) within the last th ☑ No (go to 3.2)	icity (WET) tests ree years?	been performe	d on the facility discharges (or on receiving
any regults of toxicity idea	ntification evaluations (TIE)	or toxicity reducti	ion evaluations	ms tested, and the testing results. Provide (TRE) if applicable. Please indicate the eps the facility is taking to remedy the
3.2 CONTRACT ANALYS			والمستوال المستوارين	ontract laboratory or consulting firm?
Were any of the analy	ses reported herein, above, address, telephone numbe	or on Table 1 pe r. and pollutants	analyzed by a co	ontract laboratory or consulting firm?  ch laboratory or firm.)
A. LAB NAME	B. ADDRESS	C. TELEPHO	NE	D. POLLUTANTS ANALYZED (list or group)
Consulting Analytical Services International	3378 S. Scenic Ave. Springfield, MO. 65807	417-882-1017	Oil & G Benzei	irease, COD, Gasoline Range Organics, ne, Ethhylbenzene, Toulene, Total Xylenes

#### 4.0 STORMWATER

4.1

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

OUTFALL NUMBER	TOTAL AREA DRAINED (PROVIDE UNITS)	TYPES OF SURFACES (VEGETATED, STONE , PAVED, ETC)	BEST MANAGEMENT PRACTICES EMPLOYED; INCLUDE STRUCTURAL BMPS AND TREATMENT DESIGN FLOW FOR BMPS DESCRIBE HOW FLOW IS MEASURED
002	2,600 sq ft	100% concrete	flow is estimated
003	22,500 sq ft	100% concrete	flow is esimated
004	7 acres	100% vegetated	flow is estimated
005	12 acres	100% vegetated	flow is estimated
006	5.7 acres	100% vegetated	flow is estimated
007	22,500 sq ft	100% concrete tank	flow is estimated

# 4.2 STORMWATER FLOWS

Provide the date of sampling with the flows, and how the flows were estimated. once per quarter and flow is estimated

# SIGNATORY REQUIREMENTS

#### 5.0 CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Jesse Fosnaugh	231-343-3218
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED
	7/12/2019

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.

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

EFFLUENT (AND INTAR	(E) CHAF	RACTERI	STICS	THIS OUTFAL	L IS:					OUTFALL NO. 002	2
3.0 PART A – You must	provide t	he results	of at least one ana	lysis for every p	pollutant in Part A	. Complete	one table for each	outfall or proposed	d outfall. See	instructions.	
					2. VALUES					3, UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	M DAILY VALUE	В. М.	AXIMUM 30 DAY VALUE	s	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	B. MASS
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENTR	ATION (2) M	ASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MA35
A. Biochemical Oxygen Demand, 5-day (BOD <sub>5</sub> )											
B. Chemical Oxygen Demand (COD)	26.0 mg/	/I									
C. Total Organic Carbon (TOC)											
D. Total Suspended Solids (TSS)	<0.05								_		
E. Ammonia as N											
F. Flow	VALUE (	).00432 N	/IGD	VALUE	ener		/ALUE			MILLIONS OF GA (MC	SD)
G. Temperature (winter)	VALUE			VALUE		ľ	/ALUE			٩١	=
H. Temperature (summer)	VALUE 1	19.4 C		VALUE			/ALUE			٩	•
i. pH	MINIMUM 6	3.53		MAXIMUM 6.95	5		AVERAGE			STANDARD	UNITS (SU)
3.0 PART B - Mark "X" i Column 2A for any pollu parameters not listed he	tant, you re in Part '	must pro	vide the results for a	at least one ans	alysis for the pollu	ant, Comp	lete one table for e	ach outfall (intake)	. Provide les	4. U	ilai
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM DA			MASS	CONCENTRATION		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
		ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATIO	JR IMAG		<u> </u>	<u> </u>
Subpart 1 – Conventions	al and No				MINIMUM	-	Manimum				Γ
A. Alkalinity (CaCO <sub>3</sub> )		Х	MINIMUM		MIRAMUM		MINIMUM				
B. Bromide (24959-67-9)		х									
C. Chloride (16887-00-6)		x									
D. Chlorine, Total Residual		Х									
E. Color		Х									
F. Conductivity		Х									
F. Cyanide, Amenable to Chlorination		Х									

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	2. MAI	RK "X"		***************************************		3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A DELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B, MAXIMUM 3	0 DAY VALUE	C, LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	B. MASS
(f sveileble)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B, IIIAGO
Subpart 1 – Conventions	al and No	n-Conve	ntional Pollutants	(Continued)							
G. E. coli		Х		33,000							
H. Fluoride (16984-48-8)		х									
. Nitrate plus Nitrate (as N)		Х									
J. Kjeldahl, Total (as N)		х									
K. Nitrogen, Total Organic (as N)		х									
L. Oil and Grease	x					****					
M. Phenois, Total		Х				1707					
N. Phosphorus <i>(as P),</i> Total (7723-14-0)		х									
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)		х									
P. Sulfide (as S)		Х									
Q. Suifite (as SO <sup>3</sup> ) (14265-45-3)		х									
R. Surfactants		Х									
S. Trihalomethanes, Total		х								<u></u>	
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		х									
2M. Antimony, Total Recoverable (7440-36-9)		х									
3M. Arsenic, Total Recoverable (7440-38-2)		х									<u> </u>
4M. Barium, Total Recoverable (7440-39-3)		х									
5M. Beryllium, Total Recoverable (7440-41-7)		х									
6M. Boron, Total Recoverable (7440-42-8)		х									
7M. Cadmium, Total Recoverable (7440-43-9)		х									
8M. Chromium III Total Recoverable (16065-83-1)		х									
9M. Chromium VI, Dissolved (18540-29-9)		х									
10M. Cobalt, Total Recoverable (7440-48-4)		х									

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

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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.

FOR 3.0 - ITEMS A AND B TABLE 1 FORM C

EFFLUENT (AND INTAKE) CHARACTERISTICS	E) CHARACTERI	STICS	THIS OUTFALL IS	. <u>IS</u> :					OUTFALL NO. 003	
3.0 PARTA - 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.	provide the result	s of at least one and	alysis for every po	Mutant in Parl	A. Complete	one table for each c	utfall or proposed	outfall. See	e instructions.	
				2. VALUES	ES				3. UNITS (sp.	UNITS (specify if blank)
1. POLLUTANT	A. MAXIMU	A. MAXIMUM DAILY VALUE	B. MAX	MAXIMUM 30 DAY VALUES	UES	C. LONG TERM AVERAGE VALUES	RAGE VALUES	D. NO. OF	A. CONCEN-	000
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION		(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	O MAN
A. Biochemical Oxygen Demand, 5-day (BODs)							and the state of t			
B. Chemical Oxygen Demand (COD)	100 mg/l									
C. Total Organic Carbon (TOC)										
D. Total Suspended Solids (TSS)	45 mg/l						, manufacture and the second s			
E. Ammonia as N										
F. Flow	VALUE 0.00432 MGD	MGD	VALUE			VALUE			MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY D)
G. Temperature (winter)	VALUE		VALUE			VALUE			<u>.</u>	
H. Temperature (summer)	VALUE	The second secon	VALUE			VALUE			4	
Hd .1	MINIMUM 6.91		MAXIMUM 7.41	A character and the character		AVERAGE			STANDARD UNITS (SU)	UNITS (SU)
parameters not nated and a second of the sec	2. MARK "X"				3. VALUES			,	4. UNITS	IITS
1. POLLUTANT AND CAS NUMBER		A. MAXIMUM DAILY VALUE	AILY VALUE	B. MAXIMUN	MAXIMUM 30 DAY VALUES	C. LONG TERN	C. LONG TERM AVERAGE VALUES	D. NO. OF	A. CONCEN-	OVAN
(if available)	A. BELIEVED PRESENT ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	S C C C C C C C C C C C C C C C C C C C
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Non-Conve	intional Pollutants								
A. Alkalinity (CaCO <sub>3</sub> )	×	MINIMUM	2	MINIMUM		MINIMUM				
B. Bromide (24959-67-9)	×				1					
C. Chloride (16887-00-6)	×									
D. Chlorine, Total Residual	×					1				
E. Color	×									
F. Conductivity	×									
F. Cyanide, Amenable to Chlorination	×									
The state of the s										

100000000000000000000000000000000000000	2. MARK "X"	A CANALA	3. VALUES	The state of the s			4. UNITS	
1. POLLUTANT		A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	ERAGE VALUE	9	MEDIACO	
	A. BELIEVED PRESENT ABSENT	CONCE	CONCENTRATION MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventiona	I and Non-Conv	- Conventional and Non-Conventional Pollutants (Continued)						
G. E. coli	×							
H. Fluoride (16984-48-8)	×							
I. Nitrate plus Nitrate (as N)	×							
J. Kjeldahl, Total (as N)	×							
K. Nitrogen, Total Organic (as N)	×				***************************************			
L. Oil and Grease	×				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
M. Phenols, Total	×				Angel Statement of			
N. Phosphorus (as P), Total (7723-14-0)	×							
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)	×							
P. Sulfide (as S)	×							4
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)	×							
R. Surfactants	×							
S. Trihalomethanes, Total	×							
Subpart 2 - Metals					The second secon			
1M. Aluminum, Total Recoverable (7429-90-5)	×							
2M. Antimony, Total Recoverable (7440-36-9)	×				A Control of the Cont			
3M. Arsenic, Total Recoverable (7440-38-2)	×							***************************************
4M. Barium, Total Recoverable (7440-39-3)	×							
5M. Beryllium, Total Recoverable (7440-41-7)	×				California (California)			
6M. Boron, Total Recoverable (7440-42-8)	×							
7M. Cadmium, Total Recoverable (7440-43-9)	×							
8M. Chromium III Total Recoverable (16065-83-1)	×							
9M. Chromium VI, Dissolved (18540-29-9)	×							
10M. Cobalt, Total Recoverable (7440-48-4)	×				A the state of the			

	2. MARK "X"	Ę,				3. VALUES				4. UNITS	TS
1. POLLUTANT AND CAS NUMBER	3	ei ei	A. MAXIMUM DAILY VALUE	9	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	VERAGE VALUE	D. NO. OF	A. CONCEN-	O MACC
	A. BELIEVEU BEI	BELIEVED ABSENT	CONCENTRATION MASS	S	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	D. MASS
Subpart 2 - Metals (Continued)	inued)										
11M. Copper, Total Recoverable (7440-50-8)	×					and supported				111111111111111111111111111111111111111	
12M. Iron, Total Recoverable (7439-89-6)	×										
13M. Lead, Total Recoverable (7439-92-1)	×										
14M. Magnesium, Total Recoverable (7439-95-4)	×				- Additional and the second and the						
15M. Manganese, Total Recoverable (7439-96-5)	×				The second secon	1111					
16M. Mercury, Total Recoverable (7439-97-6)	×							d to the second			
17M. Methylmercury (22967926)	×				A Property of the Control of the Con		The second secon				
18M. Molybdenum, Total Recoverable (7439-98-7)	×										
19M. Nickel, Total Recoverable (7440-02-0)	×				***************************************			· www.			
20M. Selenium, Total Recoverable (7782-49-2)	×								77		
21M. Silver, Total Recoverable (7440-22-4)	×										
22M. Thallium, Total Recoverable (7440-28-0)	×				no de la companya de						
23M. Tin, Total Recoverable (7440-31-5)	×										
24M. Titanium, Total Recoverable (7440-32-6)	×										
25M. Zinc, Total Recoverable (7440-66-6)	×										
Subpart 3 - Radioactivity	,							- Hormonities			
1R. Alpha Total	×										
2R. Beta Total	×										
3R. Radium Total	×										
4R. Radium 226 plus 228 Total	×										

FOR 3.0 - ITEMS A AND B FORM C TABLE 1

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	TERIS	TICS	THIS OUTFAL	L IS: NO TE	STING DONE	S OUTFALL IS: NO TESTING DONE AT THIS TIME			OUTFALL NO. 004	4
3.0 PART A - You must provide the results of at least one analysis	provide the r	results	of at least one ana	lysis for every p	ollutant in Pa	art A. Complet	for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.	outfall or proposed	outfall. See	instructions.	
					2. VALUES	LUES				3. UNITS (specify if blank)	ecify if blank)
1. POLLUTANT	A.h	MAXIMUM	A. MAXIMUM DAILY VALUE	B. MA	MAXIMUM 30 DAY VALUES	ALUES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES	D. NO. OF	A. CONCEN-	
	(1) CONCENTRATION	RATION	(Z) MASS	(1) CONCENTRATION	ATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	G. MASS
A. Biochemical Oxygen Demand, 5-day (BODs)											
B. Chemical Oxygen Demand (COD)											
C. Total Organic Carbon (TOC)	and the state of t										
D. Total Suspended Solids (TSS)		-									
E. Ammonia as N											
F. Flow	VALUE 0	**	- Programmy Company	VALUE			VALUE			MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY
G. Temperature (winter)	VALUE		The state of the s	VALUE			VALUE			<b>ታ</b>	
H. Temperature (summer)	VALUE			VALUE			VALUE			Ⅎ。	
T. pH	MINIMUM			MAXIMUM	The state of the s		AVERAGE			STANDARD UNITS (SU)	UNITS (SU)
parameters not instead mene in a record.	2. MARK "X"	\$ .				3. VALUES				4. UNITS	ATTS.
F∺		ю́	A. MAXIMUM DAILY VALUE	ILY VALUE	B. MAXIMI	B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVED BE PRESENT A	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	ON MASS	CONCENTRATION	N MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	and Non-C	Sonven	tional Pollutants						***************************************		
A. Alkalinity (CaCO <sub>3</sub> )	×		MINIMUM	-	MINIMUM		MINIMUM				
B. Bromide (24959-67-9)	×									1	-
C. Chloride (16887-00-6)	×										
D. Chlorine, Total Residual	×										
E. Color	×					1,11					
F. Conductivity	×		,								
F. Cyanide, Amenable to Chlorination	×	ì									

	2. MARK "X"			and the state of t	3. VALUES	A CALLEGRALING TO THE			4. UNITS	TS
1. POLLUTANT AND CAS NUMBER			A. MAXIMUM DAILY VALUE	B. MAXIMUM 3	MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	VERAGE VALUE	D. NO. OF	A. CONCEN-	
	PRESENT ABSENT	NT CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants (Continued)	I and Non-Cor	ventional Pollutants	(Continued)							
G. E. coli	×									***************************************
H. Fluoride (16984-48-8)	×	er hand								
I. Nitrate plus Nitrate (as N)	×							***		
J. Kjeldahl, Total (as N)	×									
K. Nitrogen, Total Organic (as N)	×						- Andread Anna Ang			
L. Oil and Grease	×									
M. Phenols, Total	×									
N. Phosphorus (as P), Total (7723-14-0)	×									
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)	×					To Add the Line of				
P. Sulfide (as S)	×				***************************************				and the second s	
Q. Sulfite (as SO³) (14265-45-3)	×									
R. Surfactants	×						, property and the second			
S. Trihalomethanes, Total	×									
Subpart 2 - Metals									the state of the s	
1M. Aluminum, Total Recoverable (7429-90-5)	×									
2M. Antimony, Total Recoverable (7440-36-9)	×			a de la companya de l	A A ST. A A A A A A A A A A A A A A A A A A A					
3M. Arsenic, Total Recoverable (7440-38-2)	×						100			
4M. Barium, Total Recoverable (7440-39-3)	×									
5M. Beryllium, Total Recoverable (7440-41-7)	×			THE PARTY OF THE P						
6M. Boron, Total Recoverable (7440-42-8)	×									
7M. Cadmium, Total Recoverable (7440-43-9)	×			41			The state of the s	11111111111111111111111111111111111111		
8M. Chromium III Total Recoverable (16065-83-1)	×									
9M. Chromium VI, Dissolved (18540-29-9)	×	200			and the state of t					
10M. Cobalt, Total Recoverable (7440-48-4)	×									

	2. MARK "X"					3. VALUES				4. UNITS	TS
ZER			A. MAXIMUM DAILY VAL	'Y VALUE	B. MAXIMUM 3	B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	FRAGE VALUE	D. NO. OF	A. CONCEN-	
	A. BELIEVED BELIE PRESENT ABS	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	inued)	-									
11M. Copper, Total Recoverable (7440-50-8)	×							with a second control of the second control			
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)	×							a series de la constante de la			
16M. Mercury, Total Recoverable (7439-97-6)	×							- Parties and Asia			- Consequence of the Consequence
17M. Methylmercury (22967926)	×							***************************************		Table 1	
18M. Molybdenum, Total Recoverable (7439-98-7)	×				THE THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF TAXABLE					postporture processing	
19M. Nickel, Total Recoverable (7440-02-0)	×										
20M. Selenium, Total Recoverable (7782-49-2)	×				, in the second						
21M. Silver, Total Recoverable (7440-22-4)	×		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100					
22M. Thallium, Total Recoverable (7440-28-0)	×		With the state of					- Annual Control of the Control of t			Annual Control of the
23M. Tin, Total Recoverable (7440-31-5)	×			***************************************					1		
24M. Titanium, Total Recoverable (7440-32-6)	×										A Comments of the Comments of
25M. Zinc, Total Recoverable (7440-66-6)	×										
Subpart 3 - Radioactivity	/					The production of			The second secon		
1R. Alpha Total	×										
2R. Beta Total	×										
3R. Radium Total	×										7,741
4R. Radium 226 plus 228 Total	×					***************************************					

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.

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 OUTFALL NO. 005 Ļ See instructions. A. CONCEN-TRATION A. CONCENTRATION D. NO. OF ANALYSES D. NO. OF ANALYSES 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. C. LONG TERM AVERAGE VALUES MASS (2) MASS C. LONG TERM AVERAGE VALUES CONCENTRATION (1) CONCENTRATION THIS OUTFALL IS: NO TESTING DONE AT THIS TIME MINIMUM AVERAGE VALUE VALUE VALUE B. MAXIMUM 30 DAY VALUES MASS 3. VALUES (2) MASS B. MAXIMUM 30 DAY VALUES CONCENTRATION MINIMUM (1) CONCENTRATION 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 (1) CONCENTRATION B. BELIEVED ABSENT 2. MARK "X" × × × × A. BELIEVED PRESENT 0 MINIMOM VALUE VALUE VALUE B. Chemical Oxygen Demand H. Temperature (summer) D. Chlorine, Total Residual Total Suspended Solids G. Temperature (winter) F. Cyanide, Amenable to Chlorination 1. POLLUTANT
AND CAS NUMBER
(if available) Total Organic Carbon A. Biochemical Oxygen Demand, 5-day (BODs) 1. POLLUTANT A. Alkalinity (CaCO<sub>3</sub>) E. Ammonia as N F. Conductivity B. Bromide (24959-67-9) (16887-00-6) Chloride E. Color F. Flow (TSS) H. (20C)

	"ANDALLA	5	The second secon	3 VALUES				4. UNITS	2
1. POLLUTANT	7 MAIN								
AND CAS NUMBER	A. BELIEVED	BEI EVEN	A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	T	D. NO. OF	A. CONCEN-	B. MASS
		SENT	CONCENTRATION MASS	CONCENTRATION MASS	CONCENTRATION	MASS	ANALYSES	KAIION	
Subpart 1 - Conventiona	l and Non-Co	onvent	Subpart 1 - Conventional and Non-Conventional Pollutants (Continued)						
G. E. coli	×								
H. Fluoride (16984-48-8)	×								
I. Nitrate plus Nitrate (as N)	×								
J. Kjeldahl, Total (as N)	×								
K. Nitrogen, Total Organic (as N)	×								
L. Oil and Grease	×							1000	
M. Phenols, Total	×								
N. Phosphorus (as P), Total (7723-14-0)	×								
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)	×								
P. Sulfide (as S)	×								
Q. Sulfite (as SO <sup>3</sup> ) (14265-45-3)	×								
R. Surfactants	×					1			
S. Trihalomethanes, Total	×								
Subpart 2 - Metals									
1M. Aluminum, Total Recoverable (7429-90-5)	×								
2M. Antimony, Total Recoverable (7440-36-9)	×								
3M. Arsenic, Total Recoverable (7440-38-2)	×								
4M. Barium, Total Recoverable (7440-39-3)	×								
5M. Beryllium, Total Recoverable (7440-41-7)	×								
6M. Boron, Total Recoverable (7440-42-8)	×							THE PARTY OF THE P	
7M. Cadmium, Total Recoverable (7440-43-9)	×						, and the state of		
8M. Chromium III Total Recoverable (16065-83-1)	×								
9M. Chromium VI, Dissolved (18540-29-9)	×							e de la companya de l	
10M. Cobalt, Total Recoverable (7440-48-4)	×				and the second s				

	2. MARK "X"	.x.			Address - I market to	3. VALUES				4. UNITS	TS
- X		шi	A. MAXIMUM DAILY VAL	AILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A BELIEVED	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	tinued)		A constitution of the fact of		A Control of the Cont						
11M. Copper, Total Recoverable (7440-50-8)	×										
12M. Iron, Total Recoverable (7439-89-6)	×										
13M. Lead, Total Recoverable (7439-92-1)	×	,									
14M. Magnesium, Total Recoverable (7439-95-4)	×						- Indiana				
15M. Manganese, Total Recoverable (7439-96-5)	×	,						Transfer and a programme of the state of the			Market Annual Property and Annual
16M. Mercury, Total Recoverable (7439-97-6)	×	,									
17M. Methylmercury (22967926)	×	<b>,</b>					112217				70.4
18M. Molybdenum, Total Recoverable (7439-98-7)	^	×						The state of the s			
19M. Nickel, Total Recoverable (7440-02-0)	^	×									
20M. Selenium, Total Recoverable (7782-49-2)	^	×						The state of the s			
21M. Silver, Total Recoverable (7440-22-4)		×		i e de la companya de							
22M. Thallium, Total Recoverable (7440-28-0)		×		***************************************							
23M. Tin, Total Recoverable (7440-31-5)		×									
24M. Titanium, Total Recoverable (7440-32-6)	`	×									
25M. Zinc, Total Recoverable (7440-66-6)		×									
Subpart 3 - Radioactivity	ý						Access to the second se				
1R. Alpha Total	7	X				The state of the s					
2R. Beta Total		×								The second secon	
3R. Radium Total		×								To be the second of the second	
4R. Radium 226 plus 228 Total		×									

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) CHARACTERIN	STICS	THIS OUTFALL IS:	IS: NO TESTING DONE AT THIS TIME	DONE AT TH	HIS TIME			OUTFALL NO. 006	
3.0 PART A - You must	provide the results	- 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.	omplete one	table for each ou	utfall or proposed	1000000	See instructions.	
				2. VALUES					3. UNITS (specify if blank)	cify if blank)
1. POLLUTANT	A. MAXIMUI	A. MAXIMUM DAILY VALUE	B. MAXII	MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES	AGE VALUES	D. NO. 0F	A. CONCEN-	0
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	ION (2) MASS		(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	o in the contract of
A. Biochemical Oxygen Demand, 5-day (BOD <sub>5</sub> )							A CONTRACTOR OF THE CONTRACTOR			
B. Chemical Oxygen Demand (COD)										
C. Total Organic Carbon (TOC)										
D. Total Suspended Solids (TSS)						-	The second secon			
E. Ammonia as N							1100 400 400 400 400 400 400 400 400 400			The state of the s
F. Flow	VALUE 0		VALUE	And the second s	VALUE				MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY D)
G. Temperature (winter)	VALUE		VALUE		VALUE				Ļ	
H. Temperature (summer)	VALUE		VALUE		VALUE				ļĻ.	
I. pH	MINIMUM		MAXIMUM		AVERAGE	GE			STANDARD UNITS (SU)	UNITS (SU)
parameters not listed here in Part 3.0 C.	Pre In Part 3.0 C.			3.7	3. VALUES			The second second	4. UNITS	IITS
1. POLLUTANT AND CAS NUMBER		A. MAXIMUM DAILY VALUE	LY VALUE	B. MAXIMUM 30 DAY VALUES	( VALUES	C. LONG TERM	C. LONG TERM AVERAGE VALUES	C CN	+-	
(if available)	A. BELIEVED PRESENT ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Non-Conve	ntional Pollutants								
A. Alkalinity (CaCO <sub>3</sub> )	×	Мімімим	Min	MINIMUM		MINIMUM	1937			
B. Bromide (24959-67-9)	×		1000							, in the second
C. Chloride (16887-00-6)	×									
D. Chlorine, Total Residual	×									
E. Color	×									
F. Conductivity	×									
F. Cyanide, Amenable to Chlorination	×				111111111111111111111111111111111111111					

Activities and the second seco	_		- Maria de Palacente de Santonio de Carta de Ca		<u> </u>	**************************************			STIMILY	T.C
1 POLITANT	2. MARK "X"	.x.,			3. VALUES				4	2
AND CAS NUMBER	A. BELIEVED		A. MAXIMUM DAILY VALUE	B. N	MAXIMUM 30 DAY VALUE	C. LONG TERM A	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	R MASS
(if available)	PRESENT	ABSENT	CONCENTRATION MASS	CONCENTRATION	RATION MASS	CONCENTRATION	MASS	ANALYSES	TRATION	
Subpart 1 – Convention	al and No	n-Conven	Subpart 1 - Conventional and Non-Conventional Pollutants (Continued)							
G. E. coli		×								
H. Fluoride (16984-48-8)		×								
I. Nitrate plus Nitrate (as N)		X								
J. Kjeldahl, Total (as N)		×								
K. Nitrogen, Total Organic (as N)		×								
L. Oil and Grease		×								
M. Phenois, Total		×								
N. Phosphorus (as P), Total (7723-14-0)		×								
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)		×								
P. Sulfide (as S)		×								
Q. Sulfite (as SO³) (14265-45-3)		×								
R. Surfactants		×								
S. Trihalomethanes, Total		×								
Subpart 2 - Metals										
1M. Aluminum, Total Recoverable (7429-90-5)		×								
2M. Antimony, Total Recoverable (7440-36-9)		×				3				
3M. Arsenic, Total Recoverable (7440-38-2)		×								, and a second second
4M. Barium, Total Recoverable (7440-39-3)	Ð	×								
5M. Beryllium, Total Recoverable (7440-41-7)		×								
6M. Boron, Total Recoverable (7440-42-8)		×								
7M. Cadmium, Total Recoverable (7440-43-9)		×								
8M. Chromium III Total Recoverable (16065-83-1)		×					And the second s			
9M. Chromium VI, Dissolved (18540-29-9)		×								
10M. Cobalt, Total Recoverable (7440-48-4)		×							Lange of the Control	

	2. MARK "X"	"X"	The state of the s		A A A A A A A A A A A A A A A A A A A	3. VALUES				4. UNITS	S.
= ₩		cci	A. MAXIMUM DAILY VAL	AILY VALUE	B. MAXIMUM 30 DAY VALUE	30 DAY VALUE	C. LONG TERM AVERAGE VALUE	ERAGE VALUE	D. NO. OF	A. CONCEN-	000
(if available)	PRESENT E	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	inued)		ATT TO THE PARTY OF THE PARTY O								
11M. Copper, Total Recoverable (7440-50-8)	×										
12M. Iron, Total Recoverable (7439-89-6)	×							A Principle of the Control of the Co			
13M. Lead, Total Recoverable (7439-92-1)	×										
14M. Magnesium, Total Recoverable (7439-95-4)	×										
15M. Manganese, Total Recoverable (7439-96-5)	×							100000000000000000000000000000000000000	i i i i		
16M. Mercury, Total Recoverable (7439-97-6)	X									Ave with a second	
17M. Methylmercury (22967926)	×			anni de la constanta de la con							
18M. Molybdenum, Total Recoverable (7439-98-7)	X					the state of the s				7,000	
19M. Nickel, Total Recoverable (7440-02-0)	×					The special state of the speci				111111111111111111111111111111111111111	
20M. Selenium, Total Recoverable (7782-49-2)	×			elen elektristische en eine elektristische elektris						To the second se	
21M. Silver, Total Recoverable (7440-22-4)	×	V		- the state of the							
22M. Thallium, Total Recoverable (7440-28-0)	×			- Communication of the Communi							
23M. Tin, Total Recoverable (7440-31-5)	×	(				100000000000000000000000000000000000000					
24M. Titanium, Total Recoverable (7440-32-6)	×				1	Committee	A CONTRACTOR OF THE CONTRACTOR				
25M. Zinc, Total Recoverable (7440-66-6)	×	<b>\</b>									
Subpart 3 - Radioactivity	>							THE PARTY OF THE P			The state of the s
1R. Alpha Total	×	>								,	
2R. Beta Total	×	<b>&gt;</b>									
3R. Radium Total	×										
4R. Radium 226 plus 228 Total	×	V									

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.

			F							OUTFALL NO. 007	
EFFLUENI (AND INTAKE) CHAKACI EKISTICS	(E) CHARACI	ERISTICS		IS OUTFALL IS: NO LESTING DONE AT THIS TIME	NO LESTIN	NG DONE A	I HIS IIME		State of the State		2000年1000年1000年1000日
3.0 PART A - You must	provide the rea	<ul> <li>You must provide the results of at least one analysis</li> </ul>	analysi	s for every pollu	tant in Part A.	. Complete c	for every pollutant in Part A. Complete one table for each outfall or proposed outfall.	utfall or proposed		See instructions.	
					2. VALUES			and the second s	- The second sec	3. UNITS (specify if blank)	cify if blank)
1. POLLUTANT	A. MA	A. MAXIMUM DAILY VALUE		B. MAXIMU	MAXIMUM 30 DAY VALUES	(C	C. LONG TERM AVERAGE VALUES	RAGE VALUES	D. NO. OF	A. CONCEN-	0
	(1) CONCENTRATION	TION (2) MASS		(1) CONCENTRATION	N (2) MASS		(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	b. MASS
A. Biochemical Oxygen Demand, 5-day (BODs)								excitor money and	7.1		
B. Chemical Oxygen Demand (COD)											1
C. Total Organic Carbon (TOC)											
D. Total Suspended Solids (TSS)											
E. Ammonia as N											
F. Flow	VALUE 0		>	VALUE		VA	VALUE	e produce de la company de		MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY D)
G. Temperature (winter)	VALUE		>	VALUE		۸۷	VALUE			Ľ,	
H. Temperature (summer)	VALUE		>	VALUE		۸۷	VALUE			ц.	
I. pH	MINIMUM		<u> </u>	MAXIMUM		AV	AVERAGE			STANDARD UNITS (SU)	JNITS (SU)
parameters not listed here in Part 3.0 C.	ire in Part 3.0 (		<u> </u>								J.
TWATILLIANT	2. MARK "X"					3. VALUES			, and a second	4. G	UNITS
AND CAS NUMBER			A. MAXIMUM DAILY VALUE	ALUE	B. MAXIMUM 30	MAXIMUM 30 DAY VALUES	C. LONG TERM	C. LONG TERM AVERAGE VALUES	D. NO. 0F	A. CONCEN-	B. MASS
(ff aVallable)	PRESENT BELIEVED	ENT CONCENTRATION		MASS CON	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Non-Co	nventional Pollutar	ıts								***************************************
A. Alkalinity (CaCO <sub>3</sub> )	×	Мімімим		MINIMUM	IUM		MINIMUM		and the second s		
B. Bromide (24959-67-9)	×						To the state of th				
C. Chloride (16887-00-6)	×										
D. Chlorine, Total Residual	×								-		
E. Color	×							Wall-			
F. Conductivity	×										
<ul><li>F. Cyanide, Amenable to Chlorination</li></ul>	×						- Control of the Cont	100			

	2. MARK "X"	  *			3. VALUES				4. UNITS	Z.
1. POLLUTANT	- I				MANUAL SO DAY VALUE	O LONG TEDM AVEDAGE VALUE	CDACEWALIE			
AND CAS NUMBER (if available)	A. BELIEVED BEI	BELIEVED ABSENT	CONCENTRATION MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
Subpart 1 - Conventiona	l and Non-C	onvent	Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)		# 1					
G. E. coli	×									
H. Fluonde (16984-48-8)	×					111111111111111111111111111111111111111				
I. Nitrate plus Nitrate (as N)	×						1144		To the second se	
J. Kjeldahl, Total (as N)	×									
K. Nitrogen, Total Organic (as N)	×					The state of the s				
L. Oil and Grease	×									
M. Phenols, Total	×					·				thefremis
N. Phosphorus (as P), Total (7723-14-0)	×									
O. Sulfate (as SO <sup>4</sup> ) (14808-79-8)	×									
P. Sulfide (as S)	×						and the second s			, company of the control of the cont
Q. Sulfite (as SO³) (14265-45-3)	×									
R. Surfactants	×									
S. Trihalomethanes, Total	×									
Subpart 2 - Metals										
1M. Aluminum, Total Recoverable (7429-90-5)	×									
2M. Antimony, Total Recoverable (7440-36-9)	×									
3M. Arsenic, Total Recoverable (7440-38-2)	×									
4M. Barium, Total Recoverable (7440-39-3)	×									
5M. Beryllium, Total Recoverable (7440-41-7)	×									
6M. Boron, Total Recoverable (7440-42-8)	×									
7M. Cadmium, Total Recoverable (7440-43-9)	×						, and the second			
8M. Chromium III Total Recoverable (16065-83-1)	×									
9M. Chromium VI, Dissolved (18540-29-9)	×									
10M. Cobalt, Total Recoverable (7440-48-4)	×	100							,	

Any Control Marketing         Any State (Linear Fine Augustus)         A STATE (Linear Fine Augustus)         A STATE (Linear Fine Augustus)         A Linear Augustus (Linear Fine Augustus)         A Linear Fine Augustus)         A Linear Fine Augustus (Linear Fine Augustus)         A Linear Fine Augustus)         A Linear Fine Augustus (Linear Fine Augustus)         A Linear Fine Augustus)         A Linear Fine Augustus (Linear Fine Augustus)         A Linear Fine Augustus)	A CONTRACTOR OF THE CONTRACTOR	2. MARK "X"	x				3. VALUES	And Annual States of the State			4. UNITS	2
			65	A. MAXIMUM DA	VILY VALUE	B. MAXIMUM 3	30 DAY VALUE	C. LONG TERM AN	/ERAGE VALUE	NO OF	A. CONCEN-	
ial (ify)			ABSENT ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
	Subpart 2 - Metals (Cont	tinued)		The state of the s	A state of the sta	Annual transportation of the second s						
	11M. Copper, Total Recoverable (7440-50-8)	×										
rable erable able ctivity	12M. Iron, Total Recoverable (7439-89-6)	×										
erable ble ctivity	13M. Lead, Total Recoverable (7439-92-1)	×	.,									
erable ) ) ) ) able ctivity	14M. Magnesium, Total Recoverable (7439-95-4)	×_							A CATALON AND AND AND AND AND AND AND AND AND AN			
rable ble ctivity	15M. Manganese, Total Recoverable (7439-96-5)	×						The state of the s			100	
arable ble ctivity	16M. Mercury, Total Recoverable (7439-97-6)	× _							- C			
arable ble ctivity	17M. Methylmercury (22967926)	×							and a few formation of the control o			
rable ble ctivity Total	18M. Molybdenum, Total Recoverable (7439-98-7)	×									, period of the second of the	
arable ble ctivity	19M. Nickel, Total Recoverable (7440-02-0)	<u>×</u>	,									
	20M. Selenium, Total Recoverable (7782-49-2)	_X	,				era della de					
verable 32-6) overable lioactivity	21M. Silver, Total Recoverable (7440-22-4)	_×_	<b>\</b>			and the state of t						
rity lal	22M. Thallium, Total Recoverable (7440-28-0)						110, (4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		111111111111111111111111111111111111111			1
overable ioactivity	23M. Tin, Total Recoverable (7440-31-5)		<b>~</b>									and the second s
th th	24M. Titanium, Total Recoverable (7440-32-6)	^_	>									
	25M. Zinc, Total Recoverable (7440-66-6)		<b>`</b>						A THE PARTY OF THE			
	Subpart 3 - Radioactivit	Α										
	1R. Alpha Total	<b>\</b>	<b>)</b>				namental de l'Annamental de l'					
	2R. Beta Total		~	A A A A A A A A A A A A A A A A A A A		The state of the s						
	3R. Radium Total		~			- manufacture production of the state of the						
	4R. Radium 226 plus 228 Total		V									