

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0112950

Owner: Specialty Granules LLC
Address: 13424 Pennsylvania Avenue, Hagerstown, MD 21742

Continuing Authority: Same as above
Address: Same as above

Facility Name: Specialty Granules LLC – Annapolis Facility
Facility Address: #1 Hillcrest Drive, Annapolis, MO 63620

Legal Description: See following page(s)
UTM Coordinates: See following page(s)

Receiving Stream: See following page(s)
First Classified Stream and ID: See following page(s)
USGS Basin & Sub-watershed No.: See following page(s)

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

FACILITY DESCRIPTION

This facility is a surface quarry operation in which rhyolite rock is extracted, crushed and screened for producing colored roofing granules. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Domestic wastewater is managed by sending to the city of Annapolis' wastewater treatment facility.

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

May 1, 2022
Effective Date

April 30, 2027
Expiration Date

Chris Wieberg, Director, Water Protection Program

FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater runoff and process wastewater discharge point from a quarry area and other plant areas. The process wastewater consists of leachate (identified as seep water in the application) from slurry waste disposal in an inactive quarry. The slurry is generated from dust suppression efforts for air emission control requirements. The slurry consists of rock fines and water. There are no additives. Stormwater falling in the quarry area increases leachate and runoff from the slurry pile. The leachate and runoff enter a sedimentation basin prior to discharge.

Legal Description:	SW ¼, NE ¼, Sec 22, T31N, R 3E, Iron County
UTM Coordinates:	X = 703658, Y = 4136847
Receiving Stream:	Tributary to Big Creek
First Classified Stream and ID:	Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.:	08020202 – 0302
Maximum Flow:	6.8 MGD (based on 10 year 24 hour storm event)

OUTFALL #002 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

This outfall is the Rock Dike emergency overflow located below the settling pond and quarry. Discharges consist of stormwater from main plant and quarry areas and process wastewater consisting of seeps through the berms of the sedimentation basins. The berms are made of shot rock, likely from overburden from the quarry operations. Increased stormwater flows can increase the seep rate.

Legal Description:	SE ¼, NW ¼, Sec 23, T31N, R3E, Iron County
UTM Coordinates:	X = 704714, Y = 4137075
Receiving Stream:	Tributary to Big Creek
First Classified Stream and ID:	Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.:	08020202 – 0302
Maximum Flow:	7.2 MGD (based on 10 year 24 hour storm event)

OUTFALL #003 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

This outfall is the west catchment pond overflow located to the west of the West Peak Quarry. Stormwater runoff and process wastewater discharge point from a quarry area. The process wastewater consists of leachate (called seep water by the permittee) from slurry waste disposal in an inactive quarry. The slurry is generated from dust suppression efforts for air emission control requirements. The slurry consists of rock fines and water. There are no additives. Stormwater falling in the quarry area increases leachate and runoff from the slurry pile. The leachate and runoff enter a sedimentation basin prior to discharge.

Legal Description:	NW ¼, SW ¼, Sec 22, T31N, R3E, Iron County
UTM Coordinates:	X = 702730, Y = 4136274
Receiving Stream:	Tributary to Big Creek
First Classified Stream and ID:	100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.:	08020202 – 0302
Maximum Flow:	4.8 MGD (based on 10 year 24 hour storm event)

OUTFALL #004 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description:	SW ¼, SW ¼, Sec 22, T31N, R3E, Iron County
UTM Coordinates:	X = 702752, Y = 4135895
Receiving Stream:	Tributary to Big Creek (C)
First Classified Stream and ID:	100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.:	08020202 – 0302
Maximum Flow:	3.4 MGD (based on 10 year 24 hour storm event)

OUTFALL #005 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description:	NE ¼, NE ¼, Sec 27, T31N, R3E, Iron County
UTM Coordinates:	X = 703982, Y = 4135749
Receiving Stream:	Tributary to Sutton Hollow
First Classified Stream and ID:	100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.:	08020202 – 0302
Maximum Flow:	1.3 MGD (based on 10 year 24 hour storm event)

FACILITY DESCRIPTION (CONTINUED)

OUTFALL #006 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: SE ¼, NE ¼, Sec 22, T31N, R3E, Iron County
UTM Coordinates: X = 704025, Y = 4136970
Receiving Stream: Tributary to Big Creek
First Classified Stream and ID: Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 2.1 MGD (based on 10 year 24 hour storm event)

OUTFALL #007 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: NW ¼, SW ¼, Sec 23, T31N, R 3E, Iron County
UTM Coordinates: X = 704307, Y = 4136374
Receiving Stream: Tributary to Big Creek
First Classified Stream and ID: Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 7.2 MGD (based on 10 year 24 hour storm event)

OUTFALL #008 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: SE ¼, SW ¼, Sec 23, T31N, R 3E, Iron County
UTM Coordinates: X = 704565, Y = 4135969
Receiving Stream: Tributary to Big Creek
First Classified Stream and ID: 100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 3.0 MGD (based on 10 year 24 hour storm event)

OUTFALL #009 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: NW ¼, NE ¼, Sec 27, T31N, R 3E, Iron County
UTM Coordinates: X = 703470, Y = 4135588
Receiving Stream: Tributary to Sutton Hollow
First Classified Stream and ID: 100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 4.3 MGD (based on 10 year 24 hour storm event)

OUTFALL #010 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: SW ¼, NW ¼, Sec 26, T31N, R 3E, Iron County
UTM Coordinates: X = 704108, Y = 4135473
Receiving Stream: Tributary to Sutton Hollow
First Classified Stream and ID: 100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 12.6 MGD (based on 10 year 24 hour storm event)

OUTFALL #011 – Stone Crushing-Washing; SIC # 3299, 1423, 1429, 1499

Stormwater from quarry operations flows into a retention pond prior to discharge.

Legal Description: SE ¼, SW ¼, Sec 22, T31N, R 3E, Iron County
UTM Coordinates: X = 702740, Y = 4135837
Receiving Stream: Tributary to Big Creek
First Classified Stream and ID: 100K Extent-Remaining Stream (C) (3960)
USGS Basin & Sub-watershed No.: 08020202 – 0302
Maximum Flow: 8.0 MGD (based on 10 year 24 hour storm event)

FACILITY DESCRIPTION (CONTINUED)

In-stream monitoring point BC-1

This in-stream monitoring point is located along Big Creek and is monitored for total suspended solids before the facility's confluence on Big Creek (BC-1).

Legal Description:	SW ¼, NE ¼, Sec 22, T31N, R3E, Iron County
UTM Coordinates:	X = 703311, Y = 4136933
Receiving Stream:	Big Creek
First Classified Stream and ID:	Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.:	08020202 – 0302

In-stream monitoring point BC-2

This in-stream monitoring point is located along Big Creek and is monitored for total suspended solids after the confluence of the sewage lagoon owned by the City of Annapolis. (BC-2).

Legal Description:	SW ¼, NW ¼, Sec 23, T31N, R3E, Iron County
UTM Coordinates:	X = 704137, Y = 4136961
Receiving Stream:	Big Creek
First Classified Stream and ID:	Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.:	08020202 – 0302

In-stream monitoring point BC-3

This in-stream monitoring point is located along Big Creek and is monitored for total suspended solids after the percolation of Specialty Granules' settling basin (BC-3).

Legal Description:	SW ¼, NE ¼, Sec 23, T31N, R3E, Iron County
UTM Coordinates:	X = 705108, Y = 4136942
Receiving Stream:	Big Creek
First Classified Stream and ID:	Big Creek (P) (2916) (303d)
USGS Basin & Sub-watershed No.:	08020202 – 0302

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001 & #002 <i>Process water</i>	TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				
The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on May 1, 2022 and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:					
EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS	
		DAILY MAXIMUM	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: Q					
PHYSICAL					
Flow	MGD	*	*	once/quarter ◇	24 hr. total
CONVENTIONAL					
Chemical Oxygen Demand	mg/L	*	*	once/quarter ◇	grab
Oil & Grease	mg/L	*	*	once/quarter ◇	grab
pH †	SU	6.0 to 9.0	6.0 to 9.0	once/quarter ◇	grab
Total Suspended Solids	mg/L	80	60	once/quarter ◇	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2022</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.					

OUTFALL #003 <i>Process water</i>	TABLE A-2 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				
The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on May 1, 2022 and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:					
EFFLUENT PARAMETERS	UNITS	FINAL EFFLUENT LIMITATIONS		MONITORING REQUIREMENTS	
		DAILY MAXIMUM	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: Q					
PHYSICAL					
Flow	MGD	*	*	once/quarter ◇	24 hr. total
CONVENTIONAL					
Chemical Oxygen Demand	mg/L	*	*	once/quarter ◇	grab
Oil & Grease	mg/L	*	*	once/quarter ◇	grab
pH †	SU	6.5 to 9.0	6.5 to 9.0	once/quarter ◇	grab
Total Suspended Solids	mg/L	*	*	once/quarter ◇	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2022</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.					

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #004, #005, #006, #007, #008, #009, #010, #011 <i>Stormwater Only</i>		TABLE A-3 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				
The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on May 1, 2022 and remain in effect until expiration of the permit. Discharges shall be controlled, limited and monitored by the facility as specified below:						
EFFLUENT PARAMETERS	UNITS	FINAL LIMITATIONS		BENCH- MARKS	MONITORING REQUIREMENTS	
		DAILY MAXIMUM	MONTHLY AVERAGE		MEASUREMENT FREQUENCY	SAMPLE TYPE
LIMIT SET: Q						
PHYSICAL						
Flow	MGD	*		-	once/quarter ◇	24 Hr Est.
CONVENTIONAL						
Oil & Grease	mg/L	*		-	once/quarter ◇	grab
pH †	SU	6.5 to 9.0		-	once/quarter ◇	grab
Total Suspended Solids	mg/L	**		100	once/quarter ◇	grab
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE JULY 28, 2022 THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

<u>INSTREAM MONITORING</u>		<u>TABLE A-4</u> 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>May 1, 2022</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETERS	UNITS	FINAL LIMITATIONS		BENCH- MARKS	MONITORING REQUIREMENTS	
		DAILY MAXIMUM	MONTHLY AVERAGE		MEASUREMENT FREQUENCY	SAMPLE TYPE
Total Suspended Solids	mg/L	*		-	once/quarter ◇	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>JULY 28, 2022</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.

◇ Quarterly sampling

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

B. STANDARD CONDITIONS

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

C. SPECIAL CONDITIONS

1. Spills, Overflows, and Other Unauthorized Discharges.
 - (a) Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
 - (b) Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
2. Any discharge not meeting permitted limits may be pumped and hauled to an accepting wastewater treatment facility, or otherwise properly disposed.
3. Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".
4. Stormwater Pollution Prevention Plan (SWPPP).

The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and hence shall implement a Stormwater Pollution Prevention Plan (SWPPP) which must be prepared and implemented upon permit effective date. The SWPPP must be kept on-site and not sent to the Department unless specifically requested. The SWPPP must be reviewed and updated annually or if site conditions affecting stormwater change. The facility shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002 March 2021) https://www.epa.gov/sites/production/files/2021-03/documents/swppp_guide_industrial_2021_030121.pdf The purpose of the SWPPP and the Best Management Practices (BMPs) listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was ineffective at providing the necessary protections for which it was designed. Corrective action describes the steps the facility took to eliminate the deficiency.

The SWPPP must include:

 - (a) A listing of specific contaminants and their control measures (BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.
 - (b) A map with all outfalls and structural BMPs marked.
 - (c) A schedule for at least once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. A BMP is considered to be disrupted if it is rendered ineffective as a result of damage or improper maintenance. Categorization of a deficiency is reliant on the length of time required to correct each disrupted BMP. Corrective action after discovering a disrupted BMP must be taken as soon as possible. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - (1) Operational deficiencies are disrupted BMPs which the facility is able to and must correct within 7 calendar days.
 - (2) Minor structural deficiencies are disrupted BMPs which the facility is able to and must correct within 14 calendar days.
 - (3) Major structural deficiencies (deficiencies projected to take longer than 14 days to correct) are disrupted BMPs which must be reported as an uploaded attachment through the eDMR system with the DMRs. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including proposed timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. If required by the Department, the facility shall work with the regional office to determine the best course of action. The facility should consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
 - (4) All actions taken to correct the deficiencies shall be included with the written report, including photographs, and kept with the SWPPP. Additionally, corrective action of major structural deficiencies shall be reported as an uploaded attachment through the eDMR system with the DMRs.
 - (5) BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.

C. SPECIAL CONDITIONS (CONTINUED)

- (6) Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department personnel upon request. Electronic versions of the documents and photographs are acceptable.
 - (d) A provision for designating a responsible individual for environmental matters and a provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.
5. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
- (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters should remain closed when not in use.
 - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
 - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (d) Store all paint, solvents, petroleum products, petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records should be retained on-site.
 - (e) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (f) Wash water for vehicles, building(s), or pavement must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, soap use, effluent destination, BMPs, etc.) in the application for renewal. If wash water is not produced, note this instead.
 - (g) Fire protection test water must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, source water, effluent destination, BMPs, etc.) in the application for renewal. If fire protection test water is not produced, note this instead.
 - (h) After snow or ice, if the facility applies sand/salt to the pavement of parking lots, sidewalks, or stairs, the facility shall sweep the lots to remove sand/salt as soon as possible after snow or ice melt, collect excess solids, and minimize and control the discharge of solids into stormwater inlets. Salt and sand shall be stored in a manner minimizing mobilization in stormwater (for example: under roof, in covered container, in secondary containment, under tarp, etc.).
6. Stormwater Benchmarks. This permit stipulates numeric pollutant benchmarks applicable to the facility's stormwater discharges.
- (a) Benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Stormwater monitoring, numeric benchmark compliance, and visual inspections shall be used to determine the overall effectiveness of the BMPs identified in the SWPPP.
 - (b) If a sample exceeds a benchmark concentration, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce pollutant concentrations in future stormwater discharges.
 - (c) Every time a numeric benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. This permit may require CARs be submitted to the Department upon permit renewal; see Renewal Requirements section below.
 - (d) Failure to take corrective action to address numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark(s), is a permit violation.
 - (e) Stormwater benchmarks and required minimum BMPs as described in this permit are enforceable permit conditions. Any requested change(s) to numeric benchmark values or deviation from minimum BMP requirements must be established through the permitting process. Assessment, evaluation, and implementation of specific BMPs to meet numeric benchmarks or minimum BMP requirements, must be addressed through the SWPPPs and CARs.
7. Proper and continued operation and maintenance pursuant to 40 CFR 122.41(e). At all times the facility shall properly operate, maintain, and control all 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.

C. SPECIAL CONDITIONS (CONTINUED)

8. Petroleum Secondary Containment.

Before releasing water accumulated in petroleum secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen to protect the general criteria found at 10 CSR 20-7.031(4).

- (a) If odor or sheen is found, the water shall not be discharged without treatment and shall be disposed of in accordance with legally approved methods, such as being sent to an accepting wastewater treatment facility.
- (b) If the facility wishes to discharge the accumulated stormwater with hydrocarbon odor or presence of sheen, the water shall be treated using an appropriate removal method. Following treatment and before release, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream, found in 10 CSR 20-7.031 Table A before discharge is authorized. Records of all testing and treatment of water accumulated in secondary containment shall be available on demand to the Department. Electronic records retention is acceptable.

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 for permit shield, and the CWA §402(k) for toxic substances. 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 CWA §§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 already limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause, including determination new pollutants found in the discharge not identified in the application for the new or revised permit. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.

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. Reporting of Non-Detects.

- (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, §A, No. 4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory-established reporting limit (RL) are used interchangeably in this permit. The reporting limits established by the laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML.
- (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.
- (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
- (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).

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

14. This permit does not apply to fertilizer products receiving a current exemption under the Missouri Clean Water Law and regulations in 10 CSR 20-6.015(3)(B)8, and are land applied in accordance with the exemption.

15. This permit does not allow stream channel or wetland alterations unless approved by Clean Water Act §404 permitting authorities.

16. This permit does not authorize in-stream treatment, the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course.

17. All records required by this permit may be maintained electronically per 432.255 RSMo. These records should be maintained in a searchable format.

C. SPECIAL CONDITIONS (CONTINUED)

18. Changes in Discharges of Toxic Pollutant.

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

- (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
 - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
 - (4) One milligram per liter (1 mg/L) for antimony;
 - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
- (b) Any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (c) Authorization of new or expanded pollutant discharges may be required under a permit modification or renewal, and may require an antidegradation review.

19. This permit does not authorize the facility to accept, treat, or discharge wastewater from other sources unless explicitly authorized herein. If the facility would like to accept, treat, or discharge wastewater from another activity or facility, the permit must be modified to include external wastewater pollutant sources in the permit.

20. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, as well as an antidegradation determination if appropriate, to request authorization of new or expanded discharges.

21. Renewal Application Requirements.

- (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
- (b) Application materials shall include complete Form A, and Form C. If the form names have changed, the facility should ensure they are submitting the correct forms as required by regulation.
- (c) The facility must sample the stormwater outfalls and provide analysis for every parameter contained in the permit at any outfall for at the site in accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II)
- (d) The facility may use the electronic submission system to submit the application to the Program, if available.
- (e) This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

F. NOTICE OF RIGHT TO APPEAL

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

Administrative Hearing Commission
U.S. Post Office Building, Third Floor
131 West High Street, P.O. Box 1557
Jefferson City, MO 65102-1557
Phone: 573-751-2422
Fax: 573-751-5018
Website: <https://ahc.mo.gov>

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL OF
MO-0112950
SPECIALTY GRANULES

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

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

PART I. FACILITY INFORMATION

Facility Type: Industrial: Major, Categorical; >1 MGD
 SIC Code(s): 3299, 1423, 1429, 1499
 Application Date: 05/28/2021
 Modification Date: 05/01/2019
 Expiration Date: 12/31/2021
 Last Inspection: 03/24/2021

FACILITY DESCRIPTION:

This facility is a surface mining operation that mines and mills granite to be used as granules on roofing shingles. The facility's waste product is a slurry that is generated from the milling process and is composed of rock fines, dust, and water. Approximately 80% of the slurry is water. The facility utilizes an abandoned quarry on site to pump the slurry into as a part of their land reclamation process. The slurry is being pumped into the quarry at a rate of 1100 GPM and the water is reclaimed and pumped back to the plant at about 800-900 GPM.

PERMITTED FEATURES TABLE:

OUTFALL	AVERAGE FLOW	MAX. FLOW*	TREATMENT LEVEL	EFFLUENT TYPE
#001	Dependent upon precipitation	6.8 MGD	Sedimentation Pond	Stormwater & Process Water
#002		7.2 MGD		Stormwater & Process Water
#003		4.8 MGD		Stormwater & Process Water
#004		3.4 MGD		Stomwater
#005		1.3 MGD		Stomwater
#006		2.1 MGD		Stomwater
#007		7.2 MGD		Stomwater
#008		3.0 MGD		Stomwater
#009		4.3 MGD		Stomwater
#010		12.6 MGD		Stomwater
#011		8.0 MGD		Stomwater

* Based on a 10 year 24 hour storm event

FACILITY MAP:



FACILITY PERFORMANCE HISTORY & COMMENTS:

The electronic discharge monitoring reports were reviewed for the last permit term. Total suspended solids benchmark of 100 mg/L was exceeded approximately six times with the highest exceedance being 257 mg/L at outfall 007 in September of 2018. pH limits were exceeded with a minimum of 5.7 (1st Q 2020), 5.4 (3rd Q 2019), 5.0 (2nd Q 2019), 3.1 (3rd Q 2018), and 2 (2nd Q 2018) SU. The violations of pH that occurred each of the reporting period was addressed by the facility. The eDMR records report that the potential cause was malfunctioning pumps. Regular maintenance of the pumps remediated the issue and DMRs submitted since have reported compliance.

CONTINUING AUTHORITY:

The Missouri Secretary of State continuing authority charter number for this facility is GL001415606; this number was verified by the permit writer to be associated with the facility and precisely matches the continuing authority reported by the facility. The charter number expires

Pursuant to 10 CSR 20-6.010(2)(B)4, this facility is a Level 4 Authority.

- ✓ Pursuant to 10 CSR 20-6.010(2)(D), the facility provided a written statement from the higher level authority declining management of the facility under 10 CSR 20-6.010(2)(C)1.
 - ✓ This provision does not supersede or prohibit any domestic wastewater already routed, or proposed to be routed to the accepting wastewater treatment service. The acceptance of domestic wastewater does not meet the definition of becoming managed by a preferential higher authority.
 - ✓ This provision does not prohibit pretreatment or industrial user negotiation this facility may have with the local accepting wastewater treatment service. An industrial user status is not a change of continuing authority. This facility may be subject to local limits applied by the accepting wastewater treatment facility.

OTHER ENVIRONMENTAL PERMITS:

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other permits currently held by this facility. This facility has the following permits: Land Reclamation Program: Permit #520

PART II. RECEIVING WATERBODY INFORMATION**RECEIVING WATERBODY TABLE:**

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-DIGIT HUC
#001	Big Cr.	P	2916	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.1 mi	Upper St. Francois 08020202-0302
#002	Big Cr.	P	2916	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.05 mi	
#003	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.02 mi	
#004	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.0 mi	
#005	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.27 mi	
#006	Big Cr.	P	2916	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.02 mi	
#007	Big Cr.	P	2916	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.69 mi	
#008	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.29 mi	
#009	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.06 mi	
#010	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.05 mi	
#011	100K Extent-Remaining Stream	C	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.05 mi	

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

WBID: Waterbody Identification Number: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at http://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip; New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3 as 100K Extent Remaining Streams.

HUC: Hydrologic Unit Code <https://water.usgs.gov/GIS/huc.html>

Designated Uses:

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

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

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

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

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

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

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

HHP (formerly HHF) – Human Health Protection as it relates to the consumption of fish and drinking of water;

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

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

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

IND – industrial water supply

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

10 CSR 20-7.015(7) and 10 CSR 20-7.031(6): **GRW** = Groundwater

Other Applicable Criteria:

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

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

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

WATERS OF THE STATE DESIGNATIONS:

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

✓ All other waters; identified at 10 CSR 20-7.015(B)7 and 10 CSR 20-7.015(8)

EXISTING WATER QUALITY & IMPAIRMENTS:

The receiving waterbody(s) segment(s), upstream, and downstream confluence water quality was reviewed. No relevant water quality data was available. The USGS <https://waterdata.usgs.gov/nwis/sw> or the Department's quality data database was reviewed.

https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and <https://apps5.mo.gov/wqa/> The Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and <https://apps5.mo.gov/wqa/> Impaired waterbodies which may be impacted by discharges from this facility were determined. Impairments include waterbodies on the 305(b) or 303(d) list and those waterbodies or watersheds under a TMDL. <https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/tmdls> 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.

<https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/impaired-waters> Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock, and wildlife. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the §303(d) list, then a watershed management plan or TMDL for that watershed may be developed. The TMDL shall include the WLA calculation.

✓ Big Creek is associated with the 2006 EPA approved TMDL for zinc in sediment. This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment.

WATERBODY MONITORING REQUIREMENTS:

✓ No waterbody monitoring requirements are recommended at this time.

WATERBODY MIXING CONSIDERATIONS:

For outfall(s) identified below, mixing is afforded, see low flow values [calculated for the receiving stream below. For information how this regulation is used in determining effluent limits with or without mixing, see WASTELOAD ALLOCATION in Part III. If the base stream flow is above 0.1 cfs, mixing may be applied if 1) zones of passage are present, 2) mixing velocities are sufficient and stream bank configuration allows, 3) the aquatic life support system is maintained, 4) mixing zones do not overlap, 5) there are no drinking water intakes in the vicinity downstream, 6) the stream or lake has available pollutant loading to be allocated, and 7) downstream uses are protected. If mixing was not allowed in this permit, the facility may submit information, such as modeling, as to why mixing should be afforded to the outfall.

RECEIVING STREAM LOW-FLOW VALUES:

OUTFALL	RECEIVING STREAM	LOW-FLOW VALUES (CFS)				
		GAGING STATION	1Q10	7Q10	30Q10	60Q10
#001, #002, #006 & #007	Big Creek (P)	Des Arc, MO #07037000	3.77	4.61	5.71	6.95

Data were obtained using the USGS tool StreamStats at <https://streamstats.usgs.gov/ss/>

MIXING CONSIDERATIONS TABLE: PERMANENT STREAMS BETWEEN 0.1 AND 20 CFS

OUTFALL	MIXING ZONE (CFS) (CHRONIC) [10 CSR 20-7.031(5)(A)5.A.4.B.(II)(a)]				ZONE OF INITIAL DILUTION (CFS) (ACUTE) [10 CSR 20-7.031(5)(A)4.B.(II)(b)]			
	1Q10	7Q10	30Q10	60Q10	1Q10	7Q10	30Q10	60Q10
#001, #002, #006 & #007	0.94 cfs	1.15 cfs	1.43 cfs	1.74 cfs	9.4 cfs	11.5 cfs	14.3 cfs	17.4 cfs

ZID cannot be more than 10x the DF. ZID was adjusted to 10x the design flow instead of 1/10th of ¼ of the stream flow.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS**ANTIBACKSLIDING:**

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

- ✓ Limitations in this operating permit reissuance conform to the anti-backsliding provisions of CWA §402(o), and 40 CFR 122.44.
 - ✓ 40 CFR 122.44(l)(i)(B)(2); the Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under CWA §402(a)(1)(b).
 - The previous permit'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.
 - The previous permit special condition stated: "Any pesticide discharge from any point source shall comply with the requirements of Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label."

The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
 - The previous permit special condition indicated spills from hazardous waste substances must be reported to the department. However, this condition is covered under standard conditions therefore was removed from special conditions.
 - ✓ 40 CFR 122.44(l)(i)(B)(2); the Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under CWA §402(a)(1)(b).
 - This permit does not require submitting precipitation data to the Department. This data should still be reviewed by the facility daily to determine best management practices. This data no longer needs to be submitted to the Department as permitting decisions are generally not based on the submitted precipitation data, and these data are available online.
 - Settleable solids was removed from outfalls 001 and 003. The permittee has shown that this is not a pollutant of concern at the site as all discharge monitoring reports showed non-detect values.

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 <https://dnr.mo.gov/document-search/antidegradation-implementation-procedure>. Per [10 CSR 20-7.015(4)(A)], new discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream, or connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

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

BEST MANAGEMENT PRACTICES:

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

COST ANALYSIS FOR COMPLIANCE (CAFCom):

Pursuant to 644.145 RSMo, when incorporating a new requirement for discharges from publicly owned facilities, or when enforcing provisions of this chapter or the CWA, pertaining to any portion of a publicly owned facility, the Department shall make a finding of affordability on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the CWA. This process is completed through a CAFCom. Permits not including new requirements may be deemed affordable.

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

CHANGES IN DISCHARGES OF TOXIC POLLUTANT:

This special condition reiterates the federal rules found in 40 CFR 122.44(f) for technology treatments and 122.42(a)(1) for all other toxic substances. In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "...any pollutant listed as toxic under section 307(a)(1)" or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for reporting under these rules in the permit. The facility should also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the permittee or other resource determined to be representative of the discharge, such as sampling by Department personnel.

COMPLIANCE AND ENFORCEMENT:

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

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

DISCHARGE MONITORING REPORTING – ELECTRONIC (eDMR) SUBMISSION SYSTEM:

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historic data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis_public/dmrDisclaimer.do

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

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a facility must first submit an eDMR Waiver Request form available on the Department's web page. A request must be made for each operating permit. An approved waiver is not transferable. The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so, and electronically submit the data to the EPA on behalf of the facility.

✓ This facility has not been granted a waiver, nor would this facility qualify for a waiver.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS:

Domestic wastewater is defined as wastewater originating primarily from the sanitary conveyances of bathrooms and kitchens.

Domestic wastewater excludes stormwater, wash water, animal waste, process and ancillary wastewater.

✓ Not applicable; this facility discharges domestic wastewater to an off-site permitted wastewater treatment facility (POTW).

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; the facility does not manage domestic wastewater on-site.

EFFLUENT LIMITATIONS:

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

FEDERAL EFFLUENT LIMITATION GUIDELINES:

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. Effluent guidelines are not always established for every pollutant present in a point source discharge. In many instances, EPA promulgates effluent guidelines for an indicator pollutant. Industrial facilities complying with the effluent guidelines for the indicator pollutant will also control other pollutants (e.g. pollutants with a similar chemical structure). For example, EPA may choose to regulate only one of several metals present in the effluent from an industrial category, and compliance with the effluent guidelines will ensure similar metals present in the discharge are adequately controlled. All are technology based limitations which must be met by the applicable facility at all times. Should Reasonable Potential be established for any particular parameter, and water-quality derived effluent limits are more protective of the receiving water's quality, the WQS will be used as the limiting factor in accordance with 40 CFR 122.44(d) and 10 CSR 20-7.015(9)(A).

✓ The facility has an associated Effluent Limit Guideline (ELG) at 40 CFR 436.22(a)(1) applicable to the wastewater discharge at this site, and is applied under 40 CFR 125.3(a). See Part IV: EFFLUENT LIMITS DETERMINATION.

GENERAL CRITERIA CONSIDERATIONS:

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

GROUNDWATER MONITORING:

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

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

LAND APPLICATION:

Land application, or surficial dispersion of wastewater and/or sludge, is performed by facilities as an alternative to discharging. Requirements for these types of operations are found in 10 CSR 20-6.015; authority to regulate these activities is from 644.026 RSMo.

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

LAND DISTURBANCE:

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

- ✓ Applicable; this permit provides coverage for land disturbance activities. These activities have SWPPP requirements and may be combined with the standard site SWPPP. Land disturbance BMPs should be designed to control the expected peak discharges, the University of Missouri has design storm events for the 25 year 24 hour storm; these can be found at: http://ag3.agebb.missouri.edu/design_storm/comparison_reports/20191117_25yr_24hr_comparison_table.htm; to calculate peak discharges, the website <https://www.lmnoeng.com/Hydrology/rational.php> has the rational equation to calculate expected discharge volume from the peak storm events.

MAJOR WATER USER:

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

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

MODIFICATION REQUESTS:

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

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

NUTRIENT MONITORING:

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

- ✓ This facility has not disclosed nutrients are present in the discharge, therefore no nutrient monitoring is required at this time.

Water quality standards per 10 CSR 20-7.031(5)(N) describe nutrient criteria requirements assigned to lakes (which include reservoirs) in Missouri, equal to or greater than 10 acres during normal pool conditions. The Department's Nutrient Criteria Implementation Plan (NCIP) may be reviewed at: <https://dnr.mo.gov/document-search/nutrient-criteria-implementation-plan-july-27-2018> Discharges of wastewater in to lakes or lake watersheds designated as L1 (drinking water use) are prohibited per 10 CSR 20-7.015(3)(C).

- ✓ Not applicable; this facility does not discharge nutrients.

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. Sludge generated by OWS is a waste pursuant to 10 CSR 25-11.279 requiring specific management standards pursuant to self-implementing regulations of 40 CFR Part 279.

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

OPERATOR CERTIFICATION REQUIREMENTS:

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

- ✓ Not applicable; this facility is not required to have a certified operator. This permit does not cover domestic wastewater or the domestic wastewater population equivalent (PE) is less than two hundred (200) individuals. Additionally, this facility is not owned or operated by a municipality, public sewer district, county, public water supply district, or private sewer company regulated by the Public Service Commission, or operated by a state or federal agency. Private entities are exempted from the population equivalent requirement unless the Department has reason to believe a certified operator is necessary.

PERMIT SHIELD:

The permit shield provision of the Clean Water Act (Section 402(k)) and Missouri Clean Water Law (644.051.16 RSMo) provides that when a permit holder is in compliance with its NPDES permit or MSOP, it is effectively in compliance with certain sections of the Clean Water Act, and equivalent sections of the Missouri Clean Water Law. In general, the permit shield is a legal defense against certain enforcement actions, but is only available when the permittee is in compliance with its permit and satisfies other specific conditions, including having completely disclosed all discharges and all facility processes and activities to the Department at time of application. It is the permittee's responsibility to ensure that all potential pollutants, waste streams, discharges, and activities, as well as wastewater land application, storage, and treatment areas, are all fully disclosed to the Department at the time of application or during the draft permit review process. Subsequent requests for authorization to discharge additional pollutants, expanded or newly disclosed flows, or for authorization for previously unpermitted and undisclosed activities or discharges, will likely require an official permit modification, including another public participation process.

PRETREATMENT:

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

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

REASONABLE POTENTIAL (RP):

Regulations per 10 CSR 20-7.015(9)(A)2 and 40 CFR 122.44(d)(1)(i) requires effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit allowance in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit allowance in mixing zones. If the permit writer determines any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A).

Permit writers use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD. An RPD consists of evaluating visual observations, non-numeric information, or small amounts of numerical data (such as 1 data point supplied in the application). A stormwater RPD consists of reviewing application data and/or discharge monitoring data and comparing those data to narrative or numeric water quality criteria. RPD decisions are based on minimal numeric samples, the type of effluent proposed for discharge, or the unavailability of numerical RPA for a parameter, such as pH, or oil and grease. Absent effluent data, effluent limits are derived without consideration of effluent variability and is assumed to be present unless found to be absent to meet the requirements of antidegradation review found in 10 CSR 20-7.031(3) and reporting of toxic substances pursuant to 40 CFR 122.44(f).

Permit writers use the Department's permit writer's manual (<https://dnr.mo.gov/water/business-industry-other-entities/technical-assistance-guidance/wastewater-permit-writers-manual>), the EPA's permit writer's manual (<https://www.epa.gov/npdes/npdes-permit-writers-manual>), program policies, and best professional judgment.

For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, inspection reports, stream water quality information, stream flows, uses assigned to each waterbody, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling. Best professional judgment is based on the experience of the permit writer, cohorts in the Department and resources at the EPA, research, and maintaining continuity of permits if necessary. For stormwater permits, the permit writer is required per 10 CSR 6.200(6)(B)2 to consider: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment of the permit writer; D. water quality; and E. BMPs. Part IV provides specific decisions related to this permit.

Secondly, permit writers use mathematical reasonable potential analysis (RPA) using the *Technical Support Document for Water Quality Based Toxics Control (TSD)* methods (EPA/505/2-90-001) for continuous discharges. The TSD RPA method cannot be performed on stormwater as the flow is intermittent. See additional considerations under Part II WATERBODY MIXING CONSIDERATIONS and Part III WASTELOAD ALLOCATIONS. Wasteload allocations are determined utilizing the same equations and statistical methodology.

- ✓ No statistical RPAs were performed for this permit, as the conditions for stormwater were based on standardized benchmarks, the effluent limits are not based on effluent variability, or where variability is not used for certain water quality limits such as pH or oil and grease.

RENEWAL REQUIREMENTS:

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

<https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater>

SAMPLING FREQUENCY JUSTIFICATION:

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

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

SAMPLING TYPE JUSTIFICATION:

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

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. SOC's are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met. An SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed in accordance with 40 CFR 125.3.
- For a newly constructed facility in most cases per 644.029 RSMo. Newly constructed facilities must meet all applicable effluent limitations (technology and water quality) when discharge begins. New facilities are required to install the appropriate control technologies as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be specifically granted for conducting these activities.

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

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

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING:

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

<https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl=>

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.

Certain industrial facilities are subject to the self-implementing regulations for Oil Pollution Prevention in 40 CFR 112, and are required to initiate and follow Spill Prevention, Control, and Countermeasure (SPCC) Plans. This permit, as issued, is not intended to be a replacement for any SPCC plan, nor can this permit's conditions be automatically relaxed based on the SPCC plan if the permit is more stringent than the plan.

SLUDGE – INDUSTRIAL:

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge. Industrial sludge could also be derived from lagoon dredging or other similar maintenance activities. Certain oil sludges, like those from oil water separators, are subject to self-implementing federal regulations under 40 CFR 279 for used oils.

✓ Applicable; sludge is stored in the sedimentation basins. The permitted management strategy must be followed, see permit under FACILITY DESCRIPTION. If the permitted management strategy cannot be followed, the facility must obtain a permit modification.

STANDARD CONDITIONS:

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

STORMWATER PERMITTING: LIMITATIONS AND BENCHMARKS:

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

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

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

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

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

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

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

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

A SWPPP must be prepared by the facility if the SIC code is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2). A SWPPP may be required of other facilities where stormwater has been identified as necessitating better management. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff.

Pursuant to 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when: 1) Authorized under §304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under §402(p) of the CWA for the control of stormwater discharges; 3) Numeric effluent limitations are infeasible; or 4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA. A BMP may take the form of a numeric benchmark. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 and again in 2021 https://www.epa.gov/sites/default/files/2021-03/documents/swppp_guide_industrial_2021_030121.pdf BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to 1) identify sources of pollution or contamination, and 2) select and carry out actions which prevent or control the pollution of storm water discharges. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the facility should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once

a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

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

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

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

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

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:

Please review Standard Conditions Part 1, §A, No. 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 unless alternates are approved by the Department and incorporated within this permit. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in any 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. The reporting limits established by the chosen laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter’s future limit after an SOC) in the permit unless the permit provides for an ML or if the facility provides a written rationale to the Department. It is the permittee’s responsibility to ensure the laboratory has adequate equipment and controls in place to quantify the pollutant. Inflated reporting limits will not be accepted by the Department if the reporting limit is above the parameter value stipulated in the permit. A method is “sufficiently sensitive” when; 1) the method quantifies the pollutant below the level of the applicable water quality criterion or; 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A facility is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive.

UNDERGROUND INJECTION CONTROL (UIC):

The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to §§1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by 577.155 RSMo; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in 577.155 RSMo; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well.

In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the facility shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: <https://dnr.mo.gov/document-search/class-v-well-inventory-form-mo-780-1774> 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 facility has not submitted materials indicating the facility will be performing UIC at this site.

VARIANCE:

Per the Missouri Clean Water Law §644.061.4, variances shall be granted for such period of time and under such terms and conditions as specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141. Thermal variances are regulated separately and are found under 644.

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

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010; definitions], the WLA is the maximum amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Only streams with available load allocations can be granted discharge allowances. Outfalls afforded mixing allocations provide higher limits as the receiving stream is able to accept more pollutant loading without causing adverse impacts to the environment or aquatic life.

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

WASTELOAD ALLOCATION (WLA) MODELING:

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

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

WATER QUALITY STANDARD REVISION:

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

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

PART IV. EFFLUENT LIMIT DETERMINATIONS**OUTFALL #001 & #002– PROCESS WATER****EFFLUENT LIMITATIONS TABLE:**

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	24 Hr. Tot
PRECIPITATION	REMOVED						
CONVENTIONAL							
CHEMICAL OXYGEN DEMAND	mg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL & GREASE	mg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
pH [†]	SU	6.0-9.0	6.0-9.0	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SETTLABLE SOLIDS	REMOVED						
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	80	60	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

* monitoring and reporting requirement only

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

TR total recoverable

DERIVATION AND DISCUSSION OF LIMITS:**PHYSICAL:****Flow**

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

Precipitation

Parameter removed. Refer to Antibacksliding in Part III.

CONVENTIONAL:**Chemical Oxygen Demand (COD)**

Monitoring only is included using the permit writer's best professional judgment. 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 facility to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs.

Oil & Grease

Monitoring only included using the permit writer's best professional judgment. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities. The monitoring requirement this permit applies does not allow the facility to violate general criteria 10 CSR 20-7.015(4) even if data provided are below the water quality standard.

pH

6.0 to 9.0 SU. The federal ELG 40 CFR 436.22(a)(1) establishes a TBEL of 6.0-9.0 SU. The Water Quality Standard at 10 CSR 20-7.031(5)(E) states water contaminants shall not cause pH to be outside the range of 6.5 to 9.0 standard pH units. The wastewater discharges to Big Creek, which has considerable mixing allowances. The permit writer feels that the mixing allowances provide sufficient buffering capacity for the discharge to reach water quality standards at the edge of the mixing zone. Additionally, the DMR data show a range of 7.18-8.4 SU, which is within the water quality standard range. There is no reasonable potential for the discharge to cause or contribute to excursions of the water quality standards at this time.

Total Suspended Solids (TSS)

Daily maximum limit of 80 mg/L and monthly average limit of 60 mg/L. The effluent limitations were established as water quality-based limit to protect general criteria. The permit writer used best professional judgment to continue this limit at this time. The wastewater and stormwater flow into sedimentation basins prior to discharge. The technology employed is capable of meeting water-quality based effluent limitations at this time.

OUTFALL #003– PROCESS WATER**EFFLUENT LIMITATIONS TABLE:**

PARAMETERS	UNIT	DAILY MAX	MONTHLY AVG.	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	24 Hr. Tot
CONVENTIONAL							
CHEMICAL OXYGEN DEMAND	mg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL & GREASE	mg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
pH [†]	SU	6.5-9.0	6.5-9.0	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SETTLABLE SOLIDS	REMOVED						
TOTAL SUSPENDED SOLIDS (TSS)	mg/L	*	*	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

DERIVATION AND DISCUSSION OF LIMITS:**PHYSICAL:****Flow**

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

Precipitation

Parameter removed. Refer to Antibacksliding in Part III.

CONVENTIONAL:**Chemical Oxygen Demand (COD)**

Monitoring only is included using the permit writer's best professional judgment. 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 facility to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs.

Oil & Grease

Monitoring only included using the permit writer's best professional judgment. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits. The requirement this permit applies does not allow the facility to violate general criteria 10 CSR 20-7.015(4) even if data provided are below the water quality standard.

pH

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater is dependent on pH. Limitations in this permit will protect against aquatic organism toxicity, downstream water quality issues, human health hazard contact, and negative physical changes in accordance with the general criteria at 10 CSR 20-7.031(4) and the Clean Water Act's (CWA) goal of 100% fishable and swimmable rivers and streams.

Total Suspended Solids (TSS)

Monitoring only. This parameter is maintained to evaluate whether the discharge is resulting in significant suspended material in the streams. Although the other process wastewater discharging from Outfall #001 has been issued a limit for the protection of general criteria, there has not been any impairments or general criteria concerns on the waterbodies the receive wastewater from these outfalls. Thus, no limits will be applied at this time.

ALL OTHER OUTFALLS– STORMWATER ONLY**EFFLUENT LIMITATIONS TABLE:**

PARAMETERS	UNIT	DAILY MAXIMUM LIMIT	BENCH- MARK	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	24 HR. ESTIMATE
PRECIPITATION	REMOVED						
CONVENTIONAL							
OIL & GREASE	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
pH †	SU	6.5-9.0	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
TSS	mg/L	**	100	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

* monitoring and reporting requirement only

** monitoring with associated benchmark

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

DERIVATION AND DISCUSSION OF LIMITS:**PHYSICAL:****Flow**

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

Precipitation

Parameter removed. Refer to Antibacksliding in Part III.

CONVENTIONAL:**Oil & Grease**

Monitoring only included using the permit writer's best professional judgment. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits.

pH

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater is dependent on pH. Limitations in this permit will protect against aquatic organism toxicity, downstream water quality issues, human health hazard contact, and negative physical changes in accordance with the general criteria at 10 CSR 20-7.031(4) and the Clean Water Act's (CWA) goal of 100% fishable and swimmable rivers and streams.

Total Suspended Solids (TSS)

Monitoring only. This parameter is maintained to evaluate whether the discharge is resulting in significant suspended material in the streams. The benchmark for Outfall #003, #004 and #005 will be applied to all discharges.

INSTREAM MONITORING REQUIREMENTS

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	UNIT	DAILY MAXIMUM LIMIT	BENCH- MARK	PREVIOUS PERMIT LIMITS	MINIMUM SAMPLING FREQUENCY	MINIMUM REPORTING FREQUENCY	SAMPLE TYPE
CONVENTIONAL							
TSS	MG/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

* monitoring and reporting requirement only

DERIVATION AND DISCUSSION OF LIMITS:

CONVENTIONAL:

Total Suspended Solids (TSS)

Monitoring only. This parameter is maintained to evaluate whether the discharge is resulting in significant suspended material in the streams.

PART V. ADMINISTRATIVE REQUIREMENTS

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

PERMIT SYNCHRONIZATION:

Permits are normally issued on a five-year term, but to achieve watershed synchronization some permits will need to be issued for less than the full five years as allowed by regulation. The intent is all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than two years old, such data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

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

PUBLIC NOTICE:

The Department shall give public notice a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and facility must be notified of the denial in writing. <https://dnr.mo.gov/water/what-were-doing/public-notices> The Department must issue public notice of a pending operating permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wishing to submit comments regarding this proposed operating permit, please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments. All comments must be in written form.

- ✓ The Public Notice period for this operating permit started March 11, 2022 and ended April 11, 2022. No comments were received.

DATE OF FACT SHEET: FEBRUARY 10, 2022

COMPLETED BY:

KYLE O'ROURKE, ENVIRONMENTAL SCIENTIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - INDUSTRIAL UNIT
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STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

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

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

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

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

Section B – Reporting Requirements

1. **Planned Changes.**
 - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); 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.



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- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
 - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
 4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
 6. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
 7. **Discharge Monitoring Reports.**
 - a. Monitoring results shall be reported at the intervals specified in the permit.
 - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
 - c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.
- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
 - c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
 - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
 - c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section C – Bypass/Upset Requirements

1. **Definitions.**
 - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
 - b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
 - a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

- imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, 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 permittee with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
- i. Violations of any terms or conditions of this permit or the law;
- ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
- iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- iv. Any reason set forth in the Law or Regulations.
- b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. **Permit Transfer.**
- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



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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:
 - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
 - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
 - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
 - a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
 - b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
 - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.



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

36979

FOR AGENCY USE ONLY	
CHECK NUMBER	
DATE RECEIVED 5-28-21	FEE SUBMITTED 49
JET PAY CONFIRMATION NUMBER	

CB

PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.
SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RESULT IN THE APPLICATION BEING RETURNED.
IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEMPTION:
Fill out the No Exposure Certification Form (Mo 780-2828): <https://dnr.mo.gov/forms/780-2828-f.pdf>

1. REASON FOR APPLICATION:

☐ a. This facility is now in operation under Missouri State Operating Permit (permit) MO – _____, is submitting an application for renewal, and there is no proposed increase in design wastewater flow. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.

☒ b. This facility is now in operation under permit MO – 0112950, is submitting an application for renewal, and there is a proposed increase in design wastewater flow. Antidegradation Review may be required. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.

☐ c. This is a facility submitting an application for a new permit (for a new facility). Antidegradation Review may be required. New permit fee is required.

☒ d. This facility is now in operation under Missouri State Operating Permit (permit) MO – 0112950 and is requesting a modification to the permit. Antidegradation Review may be required. Modification fee is required.

2. FACILITY

NAME Specialty Granules LLC - Annapolis Facility		TELEPHONE NUMBER WITH AREA CODE 573-598-4235	
ADDRESS (PHYSICAL) #1 Hillcrest Drive	CITY Annapolis	STATE MO	ZIP CODE 63620

3. OWNER

NAME Specialty Granules LLC		TELEPHONE NUMBER WITH AREA CODE 3017334000	
EMAIL ADDRESS matthew.mcclure@specialtygranules.com			
ADDRESS (MAILING) 13424 Pennsylvania Avenue	CITY Hagerstown	STATE MD	ZIP CODE 21742

4. CONTINUING AUTHORITY

NAME Same as above		TELEPHONE NUMBER WITH AREA CODE	
EMAIL ADDRESS			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE

5. OPERATOR CERTIFICATION

NAME N/A	CERTIFICATE NUMBER N/A	TELEPHONE NUMBER WITH AREA CODE N/A	
ADDRESS (MAILING) N/A	CITY N/A	STATE N/A	ZIP CODE N/A

6. FACILITY CONTACT

NAME Travis Abernathy	TITLE Senior Environmental Specialist	TELEPHONE NUMBER WITH AREA CODE 573-598-4934
E-MAIL ADDRESS travis.abernathy@specialtygranules.com		

7. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary.

NAME Timothy L & Alice L Adams			
ADDRESS 52860 HWY 49	CITY Annapolis	STATE MO	ZIP CODE 63620

RECEIVED

MAY 28 2021

7. Additional Downstream Landowner(s)

NAME Delmar L. & Marsha Lynn Middleton			
ADDRESS 54887 HWY 49	CITY Vulcan	STATE MO	ZIP CODE 63675

NAME Terry M & Lorinda S. Dement			
ADDRESS 54204 HWY 49	CITY Vulcan	STATE MO	ZIP CODE 63675

NAME Kenneth R. Sherrill			
ADDRESS PO BOX 110	CITY Annapolis	STATE MO	ZIP CODE 63620

NAME Hilbert J. Middleton ETAL			
ADDRESS 54884 HWY 49	CITY Vulcan	STATE MO	ZIP CODE 63675

8. ADDITIONAL FACILITY INFORMATION

8.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)
For Universal Transverse Mercator (UTM), use Zone 15 North referenced to North American Datum 1983 (NAD83)

001

1/4

NE

1/4

Sec 22

T 31N

R 3E

Iron

County

UTM Coordinates Easting (X): 703658

Northing (Y): 4136847

002

SE

1/4

NW

1/4

Sec 23

T 31N

R 3E

Iron

County

UTM Coordinates Easting (X): 704714

Northing (Y): 4137075

003

1/4

SW

1/4

Sec 22

T 31N

R 3E

Iron

County

UTM Coordinates Easting (X): 702701

Northing (Y): 4136431

004

1/4

SW

1/4

Sec 22

T 31N

R 3E

Iron

County

UTM Coordinates Easting (X): 702752

Northing (Y): 4135895

Include all subsurface discharges and underground injection systems for permit consideration.

8.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

Primary SIC 3299

and NAICS

SIC 1423

and NAICS

SIC 1429

and NAICS

SIC 1499

and NAICS

9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION

A.

Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculture facility? YES ☒ NO ☐

If yes, complete Form C.

B.

Is the facility considered a "Primary Industry" under EPA guidelines (40 CFR Part 122, Appendix A) : YES ☒ NO ☐

If yes, complete Forms C and D.

C.

Is wastewater land applied? YES ☐ NO ☒

If yes, complete Form I.

D.

Are sludge, biosolids, ash, or residuals generated, treated, stored, or land applied? YES ☐ NO ☒

If yes, complete Form R.

E.

Have you received or applied for any permit or construction approval under the CWA or any other environmental regulatory authority? YES ☒ NO ☐

If yes, please include a list of all permits or approvals for this facility:
Environmental Permits for this facility: 404 Permit # P-2969 USACE

F.

Do you use cooling water in your operations at this facility? YES ☐ NO ☒

If yes, please indicate the source of the water:

G.

Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.

10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM

Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. **One of the following must be checked in order for this application to be considered complete.** Please visit <https://dnr.mo.gov/env/wpp/edmr.htm> for information on the Department's eDMR system and how to register.

☐ - I will register an account online to participate in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before any reporting is due, in compliance with the Electronic Reporting Rule.

☒ - I have already registered an account online to participate in the Department's eDMR system through MoGEM.

☐ - I have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.

☐ - The permit I am applying for does not require the submission of discharge monitoring reports.

Section 8.1 Additional Legal Description of Outfalls

005	<u>NE</u> ¼	<u>NE</u> ¼	Sec <u>27</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>703982</u>			Northing (Y): <u>4135749</u>		
006	_____ ¼	<u>NE</u> ¼	Sec <u>22</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>704025</u>			Northing (Y): <u>4136970</u>		
007	<u>NW</u> ¼	<u>SW</u> ¼	Sec <u>23</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>704307</u>			Northing (Y): <u>4136374</u>		
008	<u>SE</u> ¼	<u>SW</u> ¼	Sec <u>23</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>704565</u>			Northing (Y): <u>4135969</u>		
009	<u>NW</u> ¼	<u>NE</u> ¼	Sec <u>27</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>703470</u>			Northing (Y): <u>4135588</u>		
010	<u>NW</u> ¼	<u>NW</u> ¼	Sec <u>26</u>	T <u>31N</u>	R <u>3E</u>	<u>Iron</u> County
	UTM Coordinates Easting (X): <u>704108</u>			Northing (Y): <u>4135473</u>		

(SIC Codes for all outfalls are as follows: 3299, 1423, 1429, 1499)

11. FEES	
Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment: For new permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591 For modifications: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596	
12. CERTIFICATION	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
NAME AND OFFICIAL TITLE (TYPE OR PRINT) Justin P. Dunlap, President-SGI	TELEPHONE NUMBER WITH AREA CODE 573-598-4934
SIGNATURE MO 780-1479 (04-21) D315B28FD0AC4C7...	DATE SIGNED 5/25/2021

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

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT

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

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

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

2. Facility - Provide the name by which this facility is known locally. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Also include the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, county road, etc.
3. Owner - Provide the legal name and address of owner or company.
4. Continuing Authority – A continuing authority is a company, business, entity, or person(s) operating the facility and/or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit <https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf>. A continuing authority's name must be listed **exactly** as it appears on the Missouri Secretary of State's (SoS's) webpage: <https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0>, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.
5. Operator - Provide the name, certificate number, mailing address and telephone number of the person operating the facility, if required by regulation (10 CSR 20-9.020(2)). Most industrial facilities will not be required to have a certified wastewater operator.
6. Provide the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility, with the facts reported in this application, and who can be contacted by the department, if necessary. This person will need to be available to respond to emails which will include pre-public notice drafts of permits.
7. Please provide the name and address of the first downstream landowner, different from that of the permitted facility, through whose property the discharge will flow. Also, please indicate the location on the map. For discharges that leave the permitted facility and flow under a road or highway, or along the right-of-way, the downstream property owner is the landowner that the discharge flows to after leaving the right-of-way. For no discharge facilities, provide this information for the location where discharge would flow if there was one. For land application sites, include the owners of the land application sites and all adjacent landowners.
- 8.1 An outfall is the point at which wastewater or stormwater is discharged. Outfalls should be given in terms of the legal description of the facility. Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, please use a mapping system to approximate the coordinates. This section also needs to include any subsurface discharges, discharges to groundwater, sinkholes or subsurface seepage from storage basins. This section also needs to include underground injection into wells, conduits to groundwater and shallow subsurface dispersal fields (leach fields).
- 8.2 List only your primary Standard Industrial Classification (SIC), and North American Industry Classification System (NAICS) code for each outfall. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. To find the correct SIC code, an applicant may check his or her unemployment insurance forms or contact the Missouri Division of Employment Security, 573-751-3215. The primary SIC code is that of the operation that generates the most revenue. If this information is not available, the number of employees or, secondly, production rate may be used to determine your SIC code. Additional information for Standard Industrial Codes can be found at www.osha.gov/pls/imis/sicsearch.html and for the North American Industry Classification System at www.census.gov/naics or contact the appropriate Department of Natural Resources regional office.

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

9. If you answer yes to A, B, C, D, or E, then you must complete and file the supplementary form(s) indicated. 40 CFR 122.21(f) and (g) requires the facility to submit the information requested herein. For 9.E., please include all permits or approvals, including construction, issued under the Hazardous Waste Management Program (RCRA), the Safe Drinking Water Act, Clean Air Act, or any other permits issued under the Clean Water Act.

A U.S. Geological Survey 1" = 2,000' scale map must be submitted with the permit application showing all outfalls, the receiving stream and the location of the downstream property owners. This type of map can be obtained from the Missouri Department of Natural Resources' Geological Survey in Rolla at 573-368-2100 or various online mapping applications.

10. Electronic Discharge Monitoring Report (eDMR) Submission System – Visit the eDMR site at <http://dnr.mo.gov/env/wpp/edmr.htm> and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package.

Waivers from electronic reporting may be granted by the Department per 40 CFR 127.15 under certain, special circumstances. A written request must be submitted to the Department for approval. Waivers may be granted to facilities owned or operated by:

- A. Members of religious communities that choose not to use certain technologies.
- B. Permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: <http://www.broadbandmap.gov/>. Please contact the department if you need assistance.

11. Please visit <https://dnr.mo.gov/pubs/pub2564.htm> for permit fees. This form must be submitted with the application fee if requesting a new permit, permit modification or permit transfer.

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

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

12. Certification/Signature - All applications must be signed as follows and the signature must be **original**:
- A. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
 - B. For a partnership or sole proprietorship, by a general partner or the proprietor.
 - C. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

Send completed form and fees (if not submitted electronically) to: :
cleanwaterpermits@dnr.mo.gov
or
Missouri Department Of Natural Resources
Water Protection Program
Water Pollution Control Branch
ATTN: Operating Permits Section
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

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



May 26, 2021

Missouri Department of Natural Resources
Water Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102

RE: Specialty Granules LLC Iron County, NPDES Permit No. M0-0112950

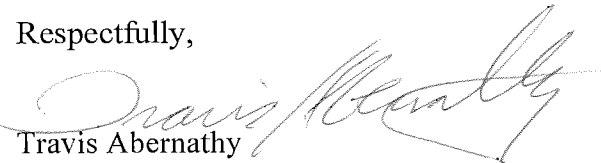
Dear Sir or Madam:

Please find enclosed an application for renewal of our NPDES permit number M0 -0112950. This application includes all of SGI's Annapolis facility's outfalls with minor changes to the location of outfall 003. The outfall has been extended north of its current position by approximately 300 feet.

Please note, there has been no change in our processes or waste streams that would alter the storm water discharge from our facility.

Should you have any questions please contact me at (573)598-4934 or email me at travis.abernathy@specialtygranules.com.

Respectfully,



Travis Abernathy
Senior Environmental Specialist
SGI Annapolis, MO

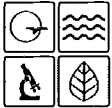
Office: (573)598-4934 Cell: (573)482-6909

Enclosure: Form A and C - Application for Nondomestic Permit

RECEIVED

MAY 28 2021

Water Protection Program



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**

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)				
1.0 NAME OF FACILITY Specialty Granules LLC				
1.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER: MO-0112950				
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. Own and operate a hard rock quarry in which rhyolite is extracted, crushed, and screened for producing colored roofing granules. Surface quarry operation and manufacturer of roofing granules.				
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 be 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.	2. OPERATION(S) CONTRIBUTING FLOW; INCLUDE ALL PROCESSES AND SUB PROCESSES AT EACH OUTFALL	3. AVERAGE FLOW AND (MAXIMUM FLOW), INCLUDE UNITS.	4. TREATMENT DESCRIPTION	5. TREATMENT CODES FROM TABLE A
001	Stormwater & process water		Settling ponds.	
	and other plant areas. Flow dependent on storm-			
	water and flow from quarry.			
002	Rock Dike emergency overflow below the		Settling ponds.	
	main settling ponds. Stormwater & process water			
	runoff from quarry. Flow dependent on storm-			
	water and flow from the quarry.		Settling pond.	
003	West Peak collection pond emergency overflow.			
	Stormwater & process water from the quarry.			
Attach additional pages if necessary.				

RECEIVED

MAY 28 2021

Section 2.1 Continued:

1. OUTFALL NO.	2. 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
004	Stormwater runoff from South Area Stockpile	40,488 GPM MAX	Settling ponds.	
	area. Flow dependent on precipitation.			
005	Stormwater runoff from North East Stockpile	189 CFS MAX	Settling ponds.	
	and quarry dewatering. Flow dependent on			
	precipitation.			
006	Stormwater runoff from plant located on the	58 MGD	Settling pond.	
	North end of the facility. Flow dependent on			
	precipitation.			
007	Stormwater runoff from North East Stockpile #2	39 MGD	Settling pond.	
	Flow dependent on precipitation.			
008	Stormwater runoff from quarry operations.	61 MGD	Settling pond.	
	Flow dependent on precipitation. Outfall to be			
	constructed in the future.			
009	Stormwater runoff from South Area stockpile.	89 MGD	Settling pond.	
010	Stormwater runoff from quarry operations located	27 MGD	Settling pond.	
	Southeast from future Mid Peak Quarry. Outfall			
	to be constructed in the future. Flow dependent			
	on precipitation.			
011	Stormwater runoff from South Area Phase 2	81 MGD	Settling pond.	
	Stockpile north of the stockpile. Outfall to be			
	Constructed in the future.			

2.2 INTERMITTENT DISCHARGES

Except for stormwater runoff, leaks, or spills, are any of the discharges described in items 2.0 or 2.1 intermittent or seasonal?

☐ Yes (complete the following table)

☒ No (go to section 2.3)

1. OUTFALL NUMBER	2. OPERATION(S) CONTRIBUTING FLOW	3. FREQUENCY		4. FLOW				C. DURATION (in days)
				A. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
		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	

2.3 PRODUCTION

A. Does an effluent limitation guideline (ELG) promulgated by EPA under section 304 of the Clean Water Act apply to your facility? Indicate the part and subparts applicable.

☐ Yes 40 CFR_____ Subpart(s) _____

☒ No (go to section 2.5)

B. Are the limitations in the effluent guideline(s) expressed in terms of production (or other measure of operation)? Describe in C below.

☐ Yes (complete C.)

☒ No (go to section 2.5)

C. If you answered "yes" to B, list the quantity representing an actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline and indicate the affected outfalls.

A. OUTFALL(S)	B. QUANTITY PER DAY	C. UNITS OF MEASURE	D. OPERATION, PRODUCT, MATERIAL, ETC. (specify)

2.4 IMPROVEMENTS

A. Are you required by any federal, state, or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ Yes (complete the following table)

☒ No (go to 2.6)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
			A. REQUIRED	B. PROJECTED

B. Optional: provide below or attach additional sheets describing water pollution control programs or other environmental projects which may affect discharges. Indicate whether each program is underway or planned, and indicate actual or planned schedules for construction. This may include proposed bmp projects for stormwater.

2.5 SLUDGE MANAGEMENT
Describe the removal of any industrial or domestic biosolids or sludges generated at your facility. Include names and contact information for any haulers used. Note the frequency, volume, and methods (incineration, landfilling, composting, etc) used. See Form A for additional forms which may need to be completed.
N/A

DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS

3.0 EFFLUENT (AND INTAKE) CHARACTERISTICS (SEE INSTRUCTIONS)

A. & B. See instructions before continuing – complete one Table 1 for **each outfall** (and intake) – annotate the outfall (intake) number or designation in the space provided. The facility is not required to complete intake data unless required by the department or rule.

C. Use the space below to list any pollutants listed in the instructions section 3.0 C. Table B which you know or have reason to believe is discharged or may be discharged from any outfall not listed in parts 3.0 A or B on Table 1. For every pollutant listed, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	3. OUTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)
Pollutants in table "b" are			
believed to be absent for all			
outfalls.			

3.1 Whole Effluent Toxicity Testing
A. To your knowledge, have any Whole Effluent Toxicity (WET) tests been performed on the facility discharges (or on receiving waters in relation to your discharge) within the last three years?
☐ Yes (go to 3.1 B) ☒ No (go to 3.2)

3.1 B
Disclose wet testing conditions, including test duration (chronic or acute), the organisms tested, and the testing results. Provide any results of toxicity identification evaluations (TIE) or toxicity reduction evaluations (TRE) if applicable. Please indicate the conclusions of the test(s) including any pollutants identified as causing toxicity and steps the facility is taking to remedy the toxicity.

3.2 CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported herein, above, or on Table 1 performed by a contract laboratory or consulting firm?
☒ Yes (list the name, address, telephone number, and pollutants analyzed by each laboratory or firm.) ☐ No (go to 4.0)

A. LAB NAME	B. ADDRESS	C. TELEPHONE <i>(area code and number)</i>	D. POLLUTANTS ANALYZED <i>(list or group)</i>
Environmental Analysis South	400 East Jackson BLVD Jackson, MO 63755	(573)204-8817	TSS,COD,Oil&Grease, Settable Solids. All parameters in permit number MO-0112950.

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
001	98 Acres	Paved, Vegetated	Settling ponds
002	102 Acres	Rock lined ditches	Settling ponds
003	68 Acres	Rock lined ditches	Settling pond
004	48 Acres	Vegetated	Settling pond
005	19 Acres	Vegetated, rock lined ditches	Settling pond
006	30 Acres	Vegetated, rock lined ditches	Settling pond
007	46Acres	Rock lined ditches	Settling pond
008	43 Acres	Vegetated, rock lined ditches	Settling pond
009	62 Acres	Vegetated, rock lined ditches	Settling pond
010	180 Acres	Vegetated, rock lined ditches	Settling pond
011	114 Acres	Vegetated, rock lined ditches	Settling pond
4.2 STORMWATER FLOWS Provide the date of sampling with the flows, and how the flows were estimated. 1st QTR DMR data of 2021. Sample dates 3/2/2021, 3/11/2021, 3/24/2021, & 3/31/2021.			
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) Justin P. Dunlap - President SGI		TELEPHONE NUMBER WITH AREA CODE 573-598-4934	
SIGNATURE (SEE INSTRUCTIONS) <div><div>DocuSigned by:</div><div></div><div>D315B28FD0AC4C7...</div></div>		DATE SIGNED 5/25/2021	

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 INTAKE) CHARACTERISTICS				THIS OUTFALL IS: Process & stormwater runoff from quarry and plant areas.				OUTFALL NO. 001	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.									
1. POLLUTANT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	3. UNITS (specify if blank)	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCEN-TRATION	B. MASS
	A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A							
B. Chemical Oxygen Demand (COD)	<5.0		<5.0			<5.0	1	mg/L	
C. Total Organic Carbon (TOC)	N/A								
D. Total Suspended Solids (TSS)									
E. Ammonia as N	N/A								
F. Flow	VALUE	0.432	VALUE	0.432		VALUE	0.432	1	MILLIONS OF GALLONS PER DAY (MGD)
G. Temperature (winter)	VALUE	N/A	VALUE			VALUE			°F
H. Temperature (summer)	VALUE	N/A	VALUE			VALUE			°F
I. pH	MINIMUM	7.5	MAXIMUM	7.5		AVERAGE	7.5	1	STANDARD UNITS (SU)
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.									
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES				4. UNITS		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUES	C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants									
A. Alkalinity (CaCO ₃)		X	MINIMUM		MINIMUM				
B. Bromide (24959-67-9)		X							
C. Chloride (16887-00-6)		X							
D. Chlorine, Total Residual		X							
E. Color		X							
F. Conductivity		X							
F. Cyanide, Amenable to Chlorination		X							

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	CONCENTRATION	MASS		
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)									
G. <i>E. coli</i>		X							
H. Fluoride (16984-48-8)		X							
I. Nitrate plus Nitrate (as N)		X							
J. Kjeldahl, Total (as N)		X							
K. Nitrogen, Total Organic (as N)		X							
L. Oil and Grease		X							
M. Phenols, Total		X							
N. Phosphorus (as P), Total (7723-14-0)		X							
O. Sulfate (as SO ₄) (14808-79-8)		X							
P. Sulfide (as S)		X							
Q. Sulfite (as SO ₃) (14255-45-3)		X							
R. Surfactants		X							
S. Trihalomethanes, Total		X							
Subpart 2 – Metals									
1M. Aluminum, Total Recoverable (7429-90-5)		X							
2M. Antimony, Total Recoverable (7440-36-9)		X							
3M. Arsenic, Total Recoverable (7440-38-2)		X							
4M. Barium, Total Recoverable (7440-39-3)		X							
5M. Beryllium, Total Recoverable (7440-41-7)		X							
6M. Boron, Total Recoverable (7440-42-8)		X							
7M. Cadmium, Total Recoverable (7440-43-9)		X							
8M. Chromium III Total Recoverable (16065-83-1)		X							
9M. Chromium VI, Dissolved (18540-29-9)		X							
10M. Cobalt, Total Recoverable (7440-48-4)		X							

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

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 INTAKE) CHARACTERISTICS				THIS OUTFALL IS: Process and stormwater runoff from quarry and plant areas.				OUTFALL NO. 002			
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.											
1. POLLUTANT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	3. UNITS (specify if blank)			
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCENTRATION	B. MASS		
	A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A									
B. Chemical Oxygen Demand (COD)	N/A										
C. Total Organic Carbon (TOC)	N/A										
D. Total Suspended Solids (TSS)	35		35			35	1	mg/L			
E. Ammonia as N	N/A										
F. Flow	VALUE 0.029		VALUE 0.029			VALUE 0.029	1	MILLIONS OF GALLONS PER DAY (MGD)			
G. Temperature (winter)	VALUE N/A		VALUE N/A			VALUE N/A		°F			
H. Temperature (summer)	VALUE N/A		VALUE N/A			VALUE N/A		°F			
I. pH	MINIMUM 7.5		MAXIMUM 7.5			AVERAGE 7.5	1	STANDARD UNITS (SU)			
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.											
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES				4. UNITS				
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE CONCENTRATION	MASS	B. MAXIMUM 30 DAY VALUES CONCENTRATION	MASS	C. LONG TERM AVERAGE VALUES CONCENTRATION	MASS	D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS
Subpart 1 – Conventional and Non-Conventional Pollutants											
A. Alkalinity (CaCO ₃)		X	MINIMUM					MINIMUM			
B. Bromide (24959-67-9)		X									
C. Chloride (16887-00-6)		X									
D. Chlorine, Total Residual		X									
E. Color		X									
F. Conductivity		X									
F. Cyanide, Amenable to Chlorination		X									

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 INTAKE) CHARACTERISTICS										THIS OUTFALL IS: West Peak catchment process and stormwater.				OUTFALL NO. 003	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
2. VALUES															
1. POLLUTANT		A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES			D. NO. OF ANALYSES	3. UNITS (specify if blank)					
		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	A. CONCEN-TRATION		B. MASS					
A. Biochemical Oxygen Demand, 5-day (BOD ₅)		N/A							2						
B. Chemical Oxygen Demand (COD)		6		6		<5				mg/L					
C. Total Organic Carbon (TOC)		N/A							2						
D. Total Suspended Solids (TSS)		28		28		18.5				mg/L					
E. Ammonia as N		N/A							2						
F. Flow		VALUE .086		VALUE 0.086		VALUE 0.065				MILLIONS OF GALLONS PER DAY (MGD)					
G. Temperature (winter)		VALUE N/A		VALUE N/A		VALUE N/A			°F						
H. Temperature (summer)		VALUE N/A		VALUE N/A		VALUE N/A			°F						
I. pH		MINIMUM 6.5		MAXIMUM 7.1		AVERAGE 6.85			2 STANDARD UNITS (SU)						
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"		3. VALUES						4. UNITS					
		A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS			
				CONCENTRATION		MASS		CONCENTRATION		MASS					
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)			X	MINIMUM				MINIMUM							
B. Bromide (24959-67-9)			X												
C. Chloride (16887-00-6)			X												
D. Chlorine, Total Residual			X												
E. Color			X												
F. Conductivity			X												
F. Cyanide, Amenable to Chlorination			X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "x"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	CONCENTRATION	MASS	D. NO. OF ANALYSES	
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)									
G. <i>E. coli</i>		X							
H. Fluoride (16984-48-8)		X							
I. Nitrate plus Nitrate (as N)		X							
J. Kjeldahl, Total (as N)		X							
K. Nitrogen, Total Organic (as N)		X							
L. Oil and Grease		X							
M. Phenols, Total		X							
N. Phosphorus (as P), Total (7723-14-0)		X							
O. Sulfate (as SO ₄) (14808-79-8)		X							
P. Sulfide (as S)		X							
Q. Sulfite (as SO ₃) (14285-45-3)		X							
R. Surfactants		X							
S. Trihalomethanes, Total		X							
Subpart 2 – Metals									
1M. Aluminum, Total Recoverable (7429-90-5)		X							
2M. Antimony, Total Recoverable (7440-36-9)		X							
3M. Arsenic, Total Recoverable (7440-38-2)		X							
4M. Barium, Total Recoverable (7440-39-3)		X							
5M. Beryllium, Total Recoverable (7440-41-7)		X							
6M. Boron, Total Recoverable (7440-42-8)		X							
7M. Cadmium, Total Recoverable (7440-43-9)		X							
8M. Chromium III Total Recoverable (15065-83-1)		X							
9M. Chromium VI, Dissolved (18540-29-9)		X							
10M. Cobalt, Total Recoverable (7440-48-4)		X							

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

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 INTAKE) CHARACTERISTICS										THIS OUTFALL IS: Stormwater runoff from stockpile.				OUTFALL NO. 004	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
2. VALUES															
1. POLLUTANT	A. MAXIMUM DAILY VALUE			B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES			D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS				
	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS								
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A														
B. Chemical Oxygen Demand (COD)	N/A														
C. Total Organic Carbon (TOC)	N/A														
D. Total Suspended Solids (TSS)	90			90		49.5			2	mg/L					
E. Ammonia as N	N/A														
F. Flow	VALUE	0.18		VALUE	0.18	VALUE			0.18	MILLIONS OF GALLONS PER DAY (MGD)					
G. Temperature (winter)	VALUE	N/A		VALUE	N/A	VALUE			N/A	°F					
H. Temperature (summer)	VALUE	N/A		VALUE	N/A	VALUE			N/A	°F					
I. pH	MINIMUM	6.8		MAXIMUM	7.4	AVERAGE			7.1	STANDARD UNITS (SU)					
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES								4. UNITS				
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS				
		CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS								
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)		X	MINIMUM			MINIMUM									
B. Bromide (24959-67-9)		X													
C. Chloride (16887-00-6)		X													
D. Chlorine, Total Residual		X													
E. Color		X													
F. Conductivity		X													
F. Cyanide, Amenable to Chlorination		X													

1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. VALUES						4. UNITS			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)												
G. <i>E. coli</i>		X										
H. Fluoride (16984-48-8)		X										
I. Nitrate plus Nitrate <i>(as N)</i>		X										
J. Kjeldahl, Total <i>(as N)</i>		X										
K. Nitrogen, Total Organic <i>(as N)</i>		X										
L. Oil and Grease		X										
M. Phenols, Total		X										
N. Phosphorus <i>(as P)</i> , Total (7723-14-0)		X										
O. Sulfate <i>(as SO₄⁻²)</i> (14808-79-8)		X										
P. Sulfide <i>(as S)</i>		X										
Q. Sulfite <i>(as SO₃⁻²)</i> (14265-45-3)		X										
R. Surfactants		X										
S. Trihalomethanes, Total		X										
Subpart 2 – Metals												
1M. Aluminum, Total Recoverable (7429-90-5)		X										
2M. Antimony, Total Recoverable (7440-36-9)		X										
3M. Arsenic, Total Recoverable (7440-38-2)		X										
4M. Barium, Total Recoverable (7440-39-3)		X										
5M. Beryllium, Total Recoverable (7440-41-7)		X										
6M. Boron, Total Recoverable (7440-42-8)		X										
7M. Cadmium, Total Recoverable (7440-43-9)		X										
8M. Chromium III Total Recoverable (16065-83-1)		X										
9M. Chromium VI, Dissolved (18540-29-9)		X										
10M. Cobalt, Total Recoverable (7440-48-4)		X										

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

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

EFFLUENT (AND INTAKE) CHARACTERISTICS										THIS OUTFALL IS: Stormwater runoff from stockpile.				OUTFALL NO. 005	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
1. POLLUTANT	A. MAXIMUM DAILY VALUE				B. MAXIMUM 30 DAY VALUES				C. LONG TERM AVERAGE VALUES				D. NO. OF ANALYSES	3. UNITS (specify, if blank)	
	(1) CONCENTRATION		(2) MASS		(1) CONCENTRATION		(2) MASS		(1) CONCENTRATION		(2) MASS			A. CONCEN-TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A														
B. Chemical Oxygen Demand (COD)	N/A														
C. Total Organic Carbon (TOC)	N/A														
D. Total Suspended Solids (TSS)	95				95				95				1	mg/L	
E. Ammonia as N	N/A														
F. Flow	VALUE	0.0.028			VALUE	0.028			VALUE	0.028			1	MILLIONS OF GALLONS PER DAY (MGD)	
G. Temperature (winter)	VALUE	N/A			VALUE	N/A			VALUE	N/A				°F	
H. Temperature (summer)	VALUE	N/A			VALUE	N/A			VALUE	N/A				°F	
I. pH	MINIMUM	6.9			MAXIMUM	6.9			AVERAGE	6.9			1	STANDARD UNITS (SU)	
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES										4. UNITS		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS				
		CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS								
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)		X	MINIMUM						MINIMUM						
B. Bromide (24959-67-9)		X													
C. Chloride (16887-00-6)		X													
D. Chlorine, Total Residual		X													
E. Color		X													
F. Conductivity		X													
F. Cyanide, Amenable to Chlorination		X													

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "x"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)									
G. <i>E. coli</i>		X							
H. Fluoride (16984-48-8)		X							
I. Nitrate plus Nitrate (as N)		X							
J. Kjeldahl, Total (as N)		X							
K. Nitrogen, Total Organic (as N)		X							
L. Oil and Grease		X							
M. Phenols, Total		X							
N. Phosphorus (as P), Total (7723-14-0)		X							
O. Sulfate (as SO ₄ ⁻) (14808-79-8)		X							
P. Sulfide (as S)		X							
Q. Sulfite (as SO ₃ ⁻) (14265-45-3)		X							
R. Surfactants		X							
S. Trihalomethanes, Total		X							
Subpart 2 – Metals									
1M. Aluminum, Total Recoverable (7429-90-5)		X							
2M. Antimony, Total Recoverable (7440-36-9)		X							
3M. Arsenic, Total Recoverable (7440-38-2)		X							
4M. Barium, Total Recoverable (7440-39-3)		X							
5M. Beryllium, Total Recoverable (7440-41-7)		X							
6M. Boron, Total Recoverable (7440-42-8)		X							
7M. Cadmium, Total Recoverable (7440-43-9)		X							
8M. Chromium III Total Recoverable (16065-83-1)		X							
9M. Chromium VI, Dissolved (18540-29-9)		X							
10M. Cobalt, Total Recoverable (7440-48-4)		X							

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

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 INTAKE) CHARACTERISTICS										THIS OUTFALL IS: Stormwater runoff from plant.				OUTFALL NO. 006	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
2. VALUES															
1. POLLUTANT		A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES			D. NO. OF ANALYSES	3. UNITS (specify if blank)					
		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	A. CONCEN-TRATION		B. MASS					
A. Biochemical Oxygen Demand, 5-day (BOD ₅)		N/A													
B. Chemical Oxygen Demand (COD)		N/A													
C. Total Organic Carbon (TOC)		N/A													
D. Total Suspended Solids (TSS)		73		73		73			1	mg/L					
E. Ammonia as N		N/A													
F. Flow		VALUE 0.007		VALUE 0.007		VALUE 0.007			1	MILLIONS OF GALLONS PER DAY (MGD)					
G. Temperature (winter)		VALUE N/A		VALUE N/A		VALUE N/A				°F					
H. Temperature (summer)		VALUE N/A		VALUE N/A		VALUE N/A				°F					
I. pH		MINIMUM 7.3		MAXIMUM 7.3		AVERAGE 7.3			1	STANDARD UNITS (SU)					
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"		3. VALUES						4. UNITS					
		A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS			
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS						
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)			X	MINIMUM				MINIMUM							
B. Bromide (24959-67-9)			X												
C. Chloride (16887-00-6)			X												
D. Chlorine, Total Residual			X												
E. Color			X												
F. Conductivity			X												
F. Cyanide, Amenable to Chlorination			X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)											
G. <i>E. coli</i>		X									
H. Fluoride (16984-48-8)		X									
I. Nitrate plus Nitrate (<i>as N</i>)		X									
J. Kjeldahl, Total (<i>as N</i>)		X									
K. Nitrogen, Total Organic (<i>as N</i>)		X									
L. Oil and Grease		X									
M. Phenols, Total		X									
N. Phosphorus (<i>as P</i>), Total (7723-14-0)		X									
O. Sulfate (<i>as SO₄</i>) (14808-79-8)		X									
P. Sulfide (<i>as S</i>)		X									
Q. Sulfite (<i>as SO₃</i>) (14265-45-3)		X									
R. Surfactants		X									
S. Trihalomethanes, Total		X									
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		X									
2M. Antimony, Total Recoverable (7440-36-9)		X									
3M. Arsenic, Total Recoverable (7440-38-2)		X									
4M. Barium, Total Recoverable (7440-39-3)		X									
5M. Beryllium, Total Recoverable (7440-41-7)		X									
6M. Boron, Total Recoverable (7440-42-8)		X									
7M. Cadmium, Total Recoverable (7440-43-9)		X									
8M. Chromium III Total Recoverable (16065-83-1)		X									
9M. Chromium VI, Dissolved (18540-29-9)		X									
10M. Cobalt, Total Recoverable (7440-48-4)		X									

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

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 INTAKE) CHARACTERISTICS										THIS OUTFALL IS: Stormwater runoff from stockpile.				OUTFALL NO. 007	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
2. VALUES															
1. POLLUTANT		A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES			D. NO. OF ANALYSES	3. UNITS (specify if blank)					
		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	A. CONCENTRATION		B. MASS					
A. Biochemical Oxygen Demand, 5-day (BOD ₅)		N/A													
B. Chemical Oxygen Demand (COD)		N/A													
C. Total Organic Carbon (TOC)		N/A													
D. Total Suspended Solids (TSS)		141		mg/L		141		mg/L		3					
E. Ammonia as N		N/A							61		mg/L				
F. Flow		VALUE 0.144		VALUE 0.144		VALUE 0.144			1		MILLIONS OF GALLONS PER DAY (MGD)				
G. Temperature (winter)		VALUE N/A		VALUE N/A		VALUE N/A					°F				
H. Temperature (summer)		VALUE N/A		VALUE N/A		VALUE N/A					°F				
I. pH		MINIMUM 7.6		MAXIMUM 7.6		AVERAGE 7.6			1		STANDARD UNITS (SU)				
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"		3. VALUES								4. UNITS			
		A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS			
				CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS						
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)			X	MINIMUM				MINIMUM							
B. Bromide (24959-67-9)			X												
C. Chloride (16887-00-6)			X												
D. Chlorine, Total Residual			X												
E. Color			X												
F. Conductivity			X												
F. Cyanide, Amenable to Chlorination			X												

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS
			CONCENTRATION	MASS		CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)										
G. <i>E. coli</i>		X								
H. Fluoride (16984-48-8)		X								
I. Nitrate plus Nitrate (as N)		X								
J. Kjeldahl, Total (as N)		X								
K. Nitrogen, Total Organic (as N)		X								
L. Oil and Grease		X								
M. Phenols, Total		X								
N. Phosphorus (as P), Total (7723-14-0)		X								
O. Sulfate (as SO ₄ ⁻²) (14808-79-8)		X								
P. Sulfide (as S)		X								
Q. Sulfite (as SO ₃ ⁻²) (14265-45-3)		X								
R. Surfactants		X								
S. Trihalomethanes, Total		X								
Subpart 2 – Metals										
1M. Aluminum, Total Recoverable (7429-90-5)		X								
2M. Antimony, Total Recoverable (7440-36-9)		X								
3M. Arsenic, Total Recoverable (7440-38-2)		X								
4M. Barium, Total Recoverable (7440-39-3)		X								
5M. Beryllium, Total Recoverable (7440-41-7)		X								
6M. Boron, Total Recoverable (7440-42-8)		X								
7M. Cadmium, Total Recoverable (7440-43-9)		X								
8M. Chromium III Total Recoverable (16065-83-1)		X								
9M. Chromium VI, Dissolved (18540-29-9)		X								
10M. Cobalt, Total Recoverable (7440-48-4)		X								

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

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					THIS OUTFALL IS: Stormwater runoff from quarry operations. Not Constructed.			OUTFALL NO. 008	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.									
2. VALUES									
1. POLLUTANT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	3. UNITS (specify if blank)	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCENTRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A								
B. Chemical Oxygen Demand (COD)	N/A								
C. Total Organic Carbon (TOC)	N/A								
D. Total Suspended Solids (TSS)	No Discharge		No Discharge		No Discharge		0	0	
E. Ammonia as N	N/A								
F. Flow	VALUE	No Discharge	VALUE	No Discharge	VALUE	No Discharge	0	MILLIONS OF GALLONS PER DAY (MGD)	
G. Temperature (winter)	VALUE	N/A	VALUE	N/A	VALUE	N/A		°F	
H. Temperature (summer)	VALUE	N/A	VALUE	N/A	VALUE	N/A		°F	
I. pH	MINIMUM	No Discharge	MAXIMUM	No Discharge	AVERAGE	No Discharge	0	STANDARD UNITS (SU)	
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.									
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES				4. UNITS		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	
Subpart 1 – Conventional and Non-Conventional Pollutants									
A. Alkalinity (CaCO ₃)		X	MINIMUM				MINIMUM		
B. Bromide (24959-67-9)		X							
C. Chloride (16887-00-6)		X							
D. Chlorine, Total Residual		X							
E. Color		X							
F. Conductivity		X							
F. Cyanide, Amenable to Chlorination		X							

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS		CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)										
G. <i>E. coli</i>		X								
H. Fluoride (16984-48-8)		X								
I. Nitrate plus Nitrate (as N)		X								
J. Kjeldahl, Total (as N)		X								
K. Nitrogen, Total Organic (as N)		X								
L. Oil and Grease		X								
M. Phenols, Total		X								
N. Phosphorus (as P), Total (7723-14-0)		X								
O. Sulfate (as SO ₄) (14808-79-8)		X								
P. Sulfide (as S)		X								
Q. Sulfite (as SO ₃) (14265-45-3)		X								
R. Surfactants		X								
S. Trihalomethanes, Total		X								
Subpart 2 – Metals										
1M. Aluminum, Total Recoverable (7429-90-5)		X								
2M. Antimony, Total Recoverable (7440-36-9)		X								
3M. Arsenic, Total Recoverable (7440-38-2)		X								
4M. Barium, Total Recoverable (7440-39-3)		X								
5M. Beryllium, Total Recoverable (7440-41-7)		X								
6M. Boron, Total Recoverable (7440-42-8)		X								
7M. Cadmium, Total Recoverable (7440-43-9)		X								
8M. Chromium III Total Recoverable (16065-83-1)		X								
9M. Chromium VI, Dissolved (18540-29-9)		X								
10M. Cobalt, Total Recoverable (7440-48-4)		X								

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	CONCENTRATION	MASS		
Subpart 2 – Metals (Continued)									
11M. Copper, Total Recoverable (7440-50-8)		X							
12M. Iron, Total Recoverable (7439-89-6)		X							
13M. Lead, Total Recoverable (7439-92-1)		X							
14M. Magnesium, Total Recoverable (7439-95-4)		X							
15M. Manganese, Total Recoverable (7439-96-5)		X							
16M. Mercury, Total Recoverable (7439-97-6)		X							
17M. Methylmercury (22967926)		X							
18M. Molybdenum, Total Recoverable (7439-98-7)		X							
19M. Nickel, Total Recoverable (7440-02-0)		X							
20M. Selenium, Total Recoverable (7782-49-2)		X							
21M. Silver, Total Recoverable (7440-22-4)		X							
22M. Thallium, Total Recoverable (7440-28-0)		X							
23M. Tin, Total Recoverable (7440-31-6)		X							
24M. Titanium, Total Recoverable (7440-32-6)		X							
25M. Zinc, Total Recoverable (7440-66-6)		X							
Subpart 3 – Radioactivity									
1R. Alpha Total		X							
2R. Beta Total		X							
3R. Radium Total		X							
4R. Radium 226 plus 228 Total		X							

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										THIS OUTFALL IS: Stormwater runoff from stockpile.				OUTFALL NO. 009	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.															
2. VALUES															
1. POLLUTANT	A. MAXIMUM DAILY VALUE			B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES			D. NO. OF ANALYSES	3. UNITS (specify if blank)		A. CONCEN-TRATION	B. MASS		
	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS								
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A														
B. Chemical Oxygen Demand (COD)	N/A														
C. Total Organic Carbon (TOC)	N/A														
D. Total Suspended Solids (TSS)	141			141		61			3	mg/L					
E. Ammonia as N	N/A														
F. Flow	VALUE	0.072		VALUE	0.072		VALUE	0.072	1	MILLIONS OF GALLONS PER DAY (MGD)					
G. Temperature (winter)	VALUE	N/A		VALUE	N/A		VALUE	N/A		°F					
H. Temperature (summer)	VALUE	N/A		VALUE	N/A		VALUE	N/A		°F					
I. pH	MINIMUM	7.6		MAXIMUM	7.6		AVERAGE	7.6	1	STANDARD UNITS (SU)					
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.															
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS						
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS				
		CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS								
Subpart 1 – Conventional and Non-Conventional Pollutants															
A. Alkalinity (CaCO ₃)		X	MINIMUM				MINIMUM								
B. Bromide (24959-67-9)		X													
C. Chloride (16887-00-6)		X													
D. Chlorine, Total Residual		X													
E. Color		X													
F. Conductivity		X													
F. Cyanide, Amenable to Chlorination		X													

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	CONCENTRATION	MASS	D. NO. OF ANALYSES	
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)									
G. <i>E. coli</i>		X							
H. Fluoride (16984-48-8)		X							
I. Nitrate plus Nitrate (as N)		X							
J. Kjeldahl, Total (as N)		X							
K. Nitrogen, Total Organic (as N)		X							
L. Oil and Grease		X							
M. Phenols, Total		X							
N. Phosphorus (as P), Total (7723-14-0)		X							
O. Sulfate (as SO ₄) (14808-79-8)		X							
P. Sulfide (as S)		X							
Q. Sulfite (as SO ₃) (14265-45-3)		X							
R. Surfactants		X							
S. Trihalomethanes, Total		X							
Subpart 2 – Metals									
1M. Aluminum, Total Recoverable (7429-90-5)		X							
2M. Antimony, Total Recoverable (7440-36-9)		X							
3M. Arsenic, Total Recoverable (7440-38-2)		X							
4M. Barium, Total Recoverable (7440-39-3)		X							
5M. Beryllium, Total Recoverable (7440-41-7)		X							
6M. Boron, Total Recoverable (7440-42-8)		X							
7M. Cadmium, Total Recoverable (7440-43-9)		X							
8M. Chromium III Total Recoverable (16065-83-1)		X							
9M. Chromium VI, Dissolved (18540-29-9)		X							
10M. Cobalt, Total Recoverable (7440-48-4)		X							

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

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

EFFLUENT (AND INTAKE) CHARACTERISTICS

THIS OUTFALL IS: Stormwater runoff from quarry operations. Not Constructed.

OUTFALL NO. 010

3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.

1. POLLUTANT	2. VALUES						3. UNITS (specify if blank)		
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A								
B. Chemical Oxygen Demand (COD)	N/A								
C. Total Organic Carbon (TOC)	N/A								
D. Total Suspended Solids (TSS)	No Discharge		No Discharge		No Discharge		0	0	
E. Ammonia as N	N/A								
F. Flow	VALUE No Discharge		VALUE No Discharge		VALUE No Discharge		0	MILLIONS OF GALLONS PER DAY (MGD)	
G. Temperature (winter/)	VALUE N/A		VALUE N/A		VALUE N/A			°F	
H. Temperature (summer/)	VALUE N/A		VALUE N/A		VALUE N/A			°F	
I. pH	MINIMUM No Discharge		MAXIMUM No Discharge		AVERAGE No Discharge		0	STANDARD UNITS (SU)	

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

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS			
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				
Subpart 1 – Conventional and Non-Conventional Pollutants												
A. Alkalinity (CaCO ₃)		X	MINIMUM		MINIMUM			MINIMUM				
B. Bromide (24959-67-9)		X										
C. Chloride (16887-00-6)		X										
D. Chlorine, Total Residual		X										
E. Color		X										
F. Conductivity		X										
F. Cyanide, Amenable to Chlorination		X										

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)											
G. <i>E. coli</i>		X									
H. Fluoride (16984-48-8)		X									
I. Nitrate plus Nitrate (as N)		X									
J. Kjeldahl, Total (as N)		X									
K. Nitrogen, Total Organic (as N)		X									
L. Oil and Grease		X									
M. Phenols, Total		X									
N. Phosphorus (as P), Total (7723-14-0)		X									
O. Sulfate (as SO ⁴) (14808-79-8)		X									
P. Sulfide (as S)		X									
Q. Sulfite (as SO ³) (14265-46-3)		X									
R. Surfactants		X									
S. Trihalomethanes, Total		X									
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		X									
2M. Antimony, Total Recoverable (7440-36-9)		X									
3M. Arsenic, Total Recoverable (7440-38-2)		X									
4M. Barium, Total Recoverable (7440-39-3)		X									
5M. Beryllium, Total Recoverable (7440-41-7)		X									
6M. Boron, Total Recoverable (7440-42-8)		X									
7M. Cadmium, Total Recoverable (7440-43-9)		X									
8M. Chromium III Total Recoverable (16065-83-1)		X									
9M. Chromium VI, Dissolved (18540-29-9)		X									
10M. Cobalt, Total Recoverable (7440-48-4)		X									

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

EFFLUENT (AND INTAKE) CHARACTERISTICS										THIS OUTFALL IS: Stormwater runoff from quarry operations. Not Constructed.		OUTFALL NO. 011	
3.0 PART A – You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.													
1. POLLUTANT	2. VALUES				3. UNITS (specify if blank)								
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS				
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS							
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	N/A												
B. Chemical Oxygen Demand (COD)	N/A												
C. Total Organic Carbon (TOC)	N/A												
D. Total Suspended Solids (TSS)	No Discharge		No Discharge		No Discharge		0	0					
E. Ammonia as N	N/A												
F. Flow	VALUE	No Discharge	VALUE	No Discharge	VALUE	No Discharge	0	MILLIONS OF GALLONS PER DAY (MGD)					
G. Temperature (winter)	VALUE	N/A	VALUE	N/A	VALUE	N/A		*F					
H. Temperature (summer)	VALUE	N/A	VALUE	N/A	VALUE	N/A		*F					
I. pH	MINIMUM	No Discharge	MAXIMUM	No Discharge	AVERAGE	No Discharge	0	STANDARD UNITS (SU)					
3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.													
1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES				4. UNITS						
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUES	C. LONG TERM AVERAGE VALUES	D. NO. OF ANALYSES	A. CONCEN-TRATION	B. MASS					
			CONCENTRATION	MASS	CONCENTRATION	MASS							
Subpart 1 – Conventional and Non-Conventional Pollutants													
A. Alkalinity (CaCO ₃)		X	MINIMUM		MINIMUM								
B. Bromide (24959-67-9)		X											
C. Chloride (16887-00-6)		X											
D. Chlorine, Total Residual		X											
E. Color		X											
F. Conductivity		X											
F. Cyanide, Amenable to Chlorination		X											

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "x"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCENTRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	CONCENTRATION	MASS		
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)									
G. <i>E. coli</i>		X							
H. Fluoride (16984-48-8)		X							
I. Nitrate plus Nitrate (as N)		X							
J. Kjeldahl, Total (as N)		X							
K. Nitrogen, Total Organic (as N)		X							
L. Oil and Grease		X							
M. Phenols, Total		X							
N. Phosphorus (as P), Total (7723-14-0)		X							
O. Sulfate (as SO ₄) (14808-79-8)		X							
P. Sulfide (as S)		X							
Q. Sulfite (as SO ₃) (14265-45-3)		X							
R. Surfactants		X							
S. Trihalomethanes, Total		X							
Subpart 2 – Metals									
1M. Aluminum, Total Recoverable (7429-90-5)		X							
2M. Antimony, Total Recoverable (7440-36-9)		X							
3M. Arsenic, Total Recoverable (7440-38-2)		X							
4M. Barium, Total Recoverable (7440-39-3)		X							
5M. Beryllium, Total Recoverable (7440-41-7)		X							
6M. Boron, Total Recoverable (7440-42-8)		X							
7M. Cadmium, Total Recoverable (7440-43-9)		X							
8M. Chromium III Total Recoverable (16065-83-1)		X							
9M. Chromium VI, Dissolved (18540-29-9)		X							
10M. Cobalt, Total Recoverable (7440-48-4)		X							

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES					4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION		
Subpart 2 – Metals (Continued)									
11M. Copper, Total Recoverable (7440-50-8)		X							
12M. Iron, Total Recoverable (7439-89-6)		X							
13M. Lead, Total Recoverable (7439-92-1)		X							
14M. Magnesium, Total Recoverable (7439-95-4)		X							
15M. Manganese, Total Recoverable (7439-96-5)		X							
16M. Mercury, Total Recoverable (7439-97-6)		X							
17M. Methylmercury (22967926)		X							
18M. Molybdenum, Total Recoverable (7439-98-7)		X							
19M. Nickel, Total Recoverable (7440-02-0)		X							
20M. Selenium, Total Recoverable (7782-49-2)		X							
21M. Silver, Total Recoverable (7440-22-4)		X							
22M. Thallium, Total Recoverable (7440-28-0)		X							
23M. Tin, Total Recoverable (7440-31-5)		X							
24M. Titanium, Total Recoverable (7440-32-6)		X							
25M. Zinc, Total Recoverable (7440-66-6)		X							
Subpart 3 – Radioactivity									
1R. Alpha Total		X							
2R. Beta Total		X							
3R. Radium Total		X							
4R. Radium 226 plus 228 Total		X							

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. VALUES						4. UNITS	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)		B. MAXIMUM 30 DAY VALUE	C. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
			CONCENTRATION	MASS		CONCENTRATION	MASS			
Subpart 1 – Conventional and Non-Conventional Pollutants (Continued)										
G. <i>E. coli</i>		X								
H. Fluoride (16984-48-8)		X								
I. Nitrate plus Nitrate (as N)		X								
J. Kjeldahl, Total (as N)		X								
K. Nitrogen, Total Organic (as N)		X								
L. Oil and Grease		X								
M. Phenols, Total		X								
N. Phosphorus (as P), Total (7723-14-0)		X								
O. Sulfate (as SO ₄) (14808-79-8)		X								
P. Sulfide (as S)		X								
Q. Sulfite (as SO ₃) (14265-45-3)		X								
R. Surfactants		X								
S. Trihalomethanes, Total		X								
Subpart 2 – Metals										
1M. Aluminum, Total Recoverable (7429-90-5)		X								
2M. Antimony, Total Recoverable (7440-36-9)		X								
3M. Arsenic, Total Recoverable (7440-38-2)		X								
4M. Barium, Total Recoverable (7440-39-3)		X								
5M. Beryllium, Total Recoverable (7440-41-7)		X								
6M. Boron, Total Recoverable (7440-42-8)		X								
7M. Cadmium, Total Recoverable (7440-43-9)		X								
8M. Chromium III Total Recoverable (16065-83-1)		X								
9M. Chromium VI, Dissolved (18540-29-9)		X								
10M. Cobalt, Total Recoverable (7440-48-4)		X								

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

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

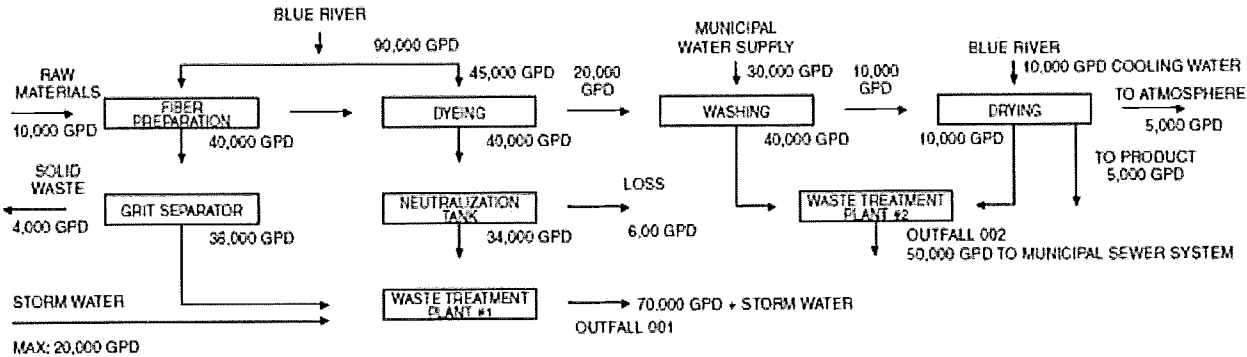
All applicable sections must be filled in when the application is submitted. The form must be signed as indicated. This application is to be completed only for facilities with a discharge. Non-discharging (land application facilities) should fill out the appropriate forms for the activity. Include any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

GENERAL INFORMATION

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

FLOWS, TYPE, AND FREQUENCY

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



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

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

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

PRODUCTION

2.3 A. All effluent limitation guidelines (ELGs) promulgated by EPA appear in the Federal Register and are published annually in 40 CPR Subchapter N (400-499). A guideline applies to you based on the applicability sections within each subpart. If you are unsure you are covered by an ELG, check with your Missouri Department of Natural Resources’ Regional Office. You must check yes if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check no. The ELG number and subpart(s) must be included.

2.3 B. An ELG is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter; for example, “pounds of BOD per cubic foot of logs from which bark is removed,” or “pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace.” An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants, or requires no discharge of the wastewater.

2.3 C. This item must be completed if you checked “yes” to item B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated. Report quantities and the units of measurement used in the applicable effluent guideline. The data provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation, but may not be based on design capacity or on predictions of future increases in operation. This data must be concurrent of facility operations.

2.4 IMPROVEMENTS If you check yes to this question, complete all parts of the table, or attach a copy of any previous submission you have made containing the same information. You are not required to submit a description of future pollution control projects if you do not wish to, or if none are planned.

2.5 SLUDGE MANAGEMENT If the facility generates any sludge or biosolids, please indicate where the sludge accumulates (lagoon, tank, etc.) and the methods of disposal. Please include the volume and frequency of sludge removal/disposal and any haulers used. Please indicate if the facility composts, incinerates, landfills, stores, sells, or other methods of eliminating the sludge from lagoons or holding tanks. Consider submitting a sludge or biosolids management plan electronically if additional description is needed.

DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS

3.0 This section requires collection and reporting of data on pollutants discharged from each outfall, including stormwater outfalls, non-process wastewater, and any intake data you wish to provide. Parts A, B, and C address different sets of pollutants and must be completed in accordance with the specific instructions for the part. All data must be reported as a concentration **and** as total mass. You may report some or all of the required data by attaching separate sheets of paper.

3.0 A. and B. These sections are found on Table 1. Complete a separate table for each outfall and intake.

3.0 A. Requires reporting at least one analysis for each pollutant. Part A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water, stormwater runoff, or other discharges; intake values are not required in this Part. Upon written request, (email is suitable) prior to submitting the application, the department may waive the requirements to test for one or more of these pollutants upon determining testing for the pollutant(s) is not applicable for your effluent.

3.0 B. Mark “X” in either “Believed Present”, Column 2A, or “Believed Absent”, Column 2B, for each pollutant, based on your best estimate, and test those you believe present. Base your determination a pollutant is present in, or absent from, your discharge on your knowledge of your raw materials, source water, maintenance chemicals, intermediate, byproduct, and final products, and any previous analyses known to you of the facility’s effluent, or of any similar effluent. If either chloride or sulfate is believed present, the department asks you to test for both chloride and sulfate. If you expect a pollutant is present as a result your intake water, you should mark “Believed Present” and analyze for the pollutant. Provide analysis of the intake or source water as well; this includes water withdrawn from wells or obtained from a potable water source. Presence of a pollutant in the discharge from sourced water does not eliminate disclosure requirements. If a

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

3.0 A and B Continued

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II), the facility must sample the stormwater for any pollutant listed in the permit for process wastewater discharges and/or the applicable Effluent Limitation Guideline. All industrial stormwater must be sampled for parameters listed in 10 CSR 20-6.200(2)(C)1.E.(III); these are: oil and grease, pH, biochemical oxygen demands (BOD₅), chemical oxygen demands (COD), total suspended solids (TSS), conductivity, total phosphorus, total Kjeldahl nitrogen, and nitrate plus nitrite nitrogen.

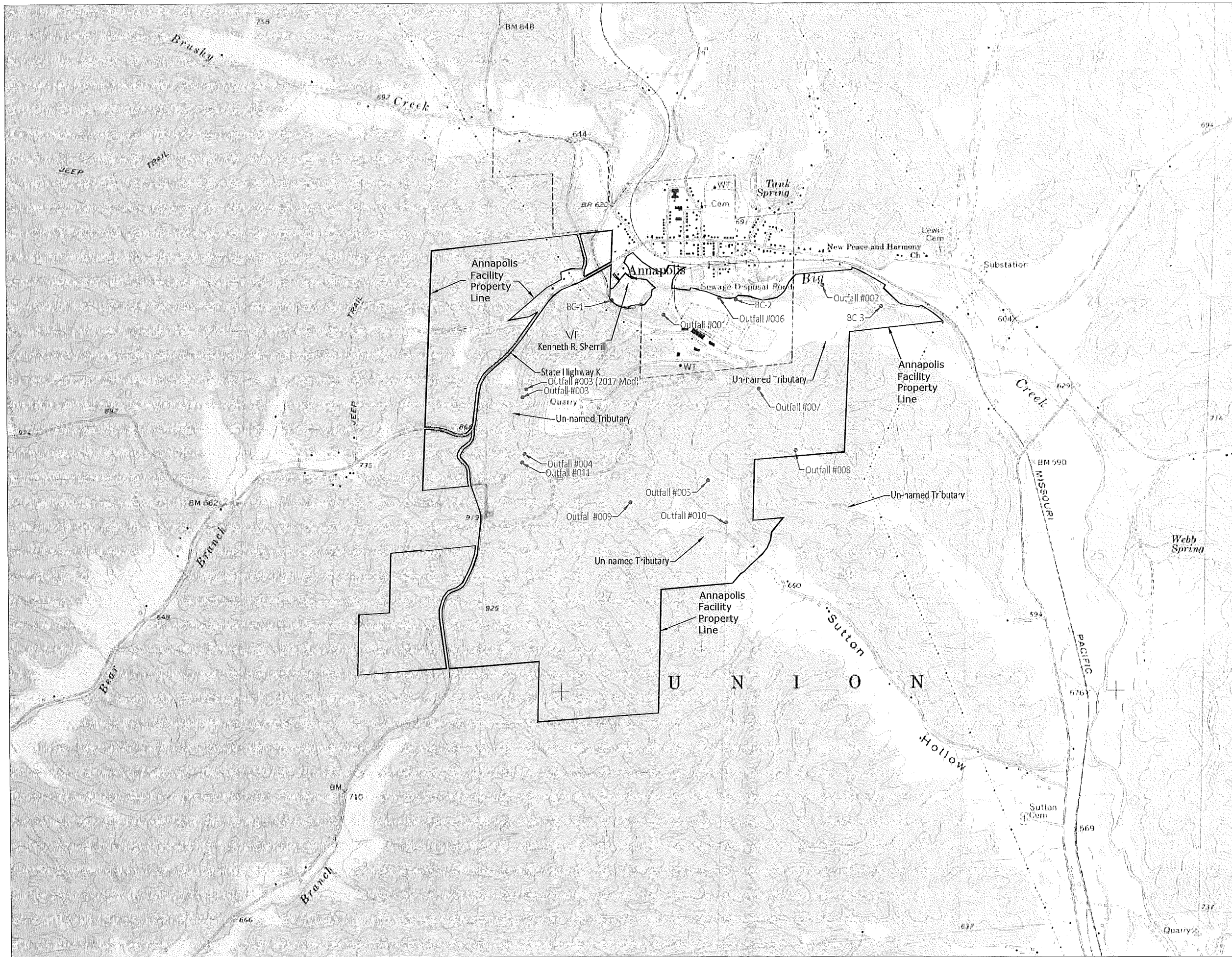
- 4.1 Indicate the outfall numbers for industrial stormwater discharges. Provide the area drained by each outfall. Indicate the type and percentages of surface(s), for example: 60% grass or vegetated areas, 10% non-vegetated soils, 30% pavement, etc., the outfall drains. The facility must indicate any structural best management practices, such as settling/retention, rain garden/infiltration, filter socks, etc, employed at each outfall.
- 4.2 Describe the method used to determine the flow rate in accordance with 10 CSR 20-6.200(2)(C)1., and the flow rate; submit the date and duration of the storm event from which the samples were taken.

5.0 SIGNATORY REQUIREMENTS The Clean Water Act provides for severe penalties for submitting false information on this application form. Section 309(c)(2) of the Clean Water Act provides “Any person who knowingly makes any false statement, representation, or certification in any application . . . shall upon conviction, be punished by a fine of no more \$10,000 or by imprisonment for not more than six months, or both.

All applications must be signed as follows and the signature must be original. For a corporation: by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters. For a partnership or sole proprietorship: by a general partner or the proprietor. For a municipal, state, federal or other public facility: by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.



Z:\Geology\Annapolis\Permit Files\NPDES\2018\Outfall #11 (SA-2)\2018-0611 ANP NPDES Outfall Point 11 (and previous) on USGS.dwg, Locator Map 11x17, 7/28/2018 3:58:07 PM



Annapolis Facility: Annapolis, MO

NPDES Outfall Locator Map

Outfall 001 Section: NE 1/4-22 Township: 31N Range: 3E County: Iron	Outfall 002 Section: SE 1/4 NW 1/4-23 Township: 31N Range: 3E County: Iron
Outfall 003 Section: SW 1/4-22 Township: 31N Range: 3E County: Iron	Outfall 004 Section: SW 1/4-22 Township: 31N Range: 3E County: Iron
Outfall 005 Section: NE 1/4 NE 1/4-27 Township: 31N Range: 3E County: Iron	Outfall 006 Section: NE 1/4-22 Township: 31N Range: 3E County: Iron
Outfall 007 Section: NW 1/4 SW 1/4-23 Township: 31N Range: 3E County: Iron	Outfall 008 Section: SE 1/4 SW 1/4-23 Township: 31N Range: 3E County: Iron
Outfall 009 Section: NW 1/4 NE 1/4-27 Township: 31N Range: 3E County: Iron	Outfall 010 Section: NW 1/4 NW 1/4-26 Township: 31N Range: 3E County: Iron
Outfall 011 Section: SW 1/4-22 Township: 31N Range: 3E County: Iron	BC-1 Section: NE 1/4-22 Township: 31N Range: 3E County: Iron
BC-2 Section: SW 1/4 NW 1/4-23 Township: 31N Range: 3E County: Iron	BC-3 Section: SW 1/4 NE 1/4-23 Township: 31N Range: 3E County: Iron

From: USGS 7.5 minute Des Arc, MO Quadrangle

Date: 06/11/18
Preparer: JMW



SCALE: 1 inch = 2,000 feet