

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
GENERAL WASTEWATER PERMIT FOR ROCK, SAND AND GRAVEL QUARRIES (EXCLUDING
DREDGING OPERATIONS) AND STONE CUTTING FACILITIES; TO CONSTRUCT OR OPERATE
INDUSTRIAL WASTEWATER IMPOUNDMENTS; AND/OR TO LAND APPLY INDUSTRIAL
WASTEWATER FOR DUST SUPPRESSION; AND/OR TO RECYCLE WASTEWATER AS WASH WATER
OR COOLING WATER
GENERAL PERMIT No OKG950000**

GENERAL PROVISIONS

As provided by Title 27A O.S. §2-6-201 *et seq.* as amended, and the Rules of the Department of Environmental Quality (DEQ), operators of rock, sand, and gravel quarries (excluding dredging operations) and stone cutting facilities will be authorized to discharge wastewater, to construct and operate surface impoundments, recycle wastewater for wash water or cooling water, and/or land apply wastewater within the boundaries of the State of Oklahoma in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and/or IV hereof. This General Wastewater Disposal permit (permit) does not specify the disposal/treatment method(s) that the permittee must use. This permit will regulate any combination of the above-listed wastewater disposal/treatment options, and will cover both discharging and non-discharging (total retention) facilities.

Each facility will require an Authorization to Discharge and/or Dispose of Wastewater (Authorization) obtained from the Executive Director of the DEQ. Owners or operators of facilities located within the boundaries of the State of Oklahoma must submit an application (DEQ form 606-OKG95) to the DEQ to discharge and/or dispose of wastewater under this permit and receive an Authorization prior to commencing such discharge and/or disposal. Owners or operators within the scope of this permit who fail to submit an application to the DEQ are not authorized to discharge and/or dispose of wastewater under this permit.

This permit does not authorize discharge of wastewater to the following waters: Outstanding Resource Waters; High Quality Waters; Sensitive Public and Private Water Supplies; Appendix 'B' Waters [OAC 785:45-5-25(c)(2)]; and receiving streams included in Oklahoma's '303(d) List' of impaired water bodies listed for "Turbidity" (Impairment ID 413) or "pH" (Impairment ID 441) for which a Total Maximum Daily Load (TMDL) has not been performed or the result of the TMDL indicates that discharge limits more stringent than 45 mg/l for Total Suspended Solids (TSS) or pH limits more stringent than 6.5-9.0 standard units are required.

For facilities requesting coverage under this permit that discharge wastewater from vehicle/equipment washing and maintenance areas or discharge wastewater containing oil-based products, the permit will contain a limit for Oil and Grease of 15 mg/l. This permit does not authorize discharge of wastewater from vehicle/equipment washing and maintenance areas or wastewater containing oil-based products to waters included in Oklahoma's '303(d) List' of impaired water bodies listed for "Oil and Grease" (Impairment ID 317) for which a Total Maximum Daily Load (TMDL) has not been performed or the result of the TMDL indicates that discharge limits more stringent than 15 mg/l for Oil and Grease.

For all facilities applying for coverage under this permit, the DEQ will determine whether the point of discharge is located in surface waters designated sensitive by the U.S. Fish and Wildlife Service. If the facility is a new facility and the discharge is to a sensitive water, the facility will not be eligible for an Authorization under this permit. If the facility is an existing facility and the point of discharge is located in surface waters designated sensitive by the U.S. Fish and Wildlife Service, the facility will not be eligible for coverage under this permit if there has been a change in the location of the discharge point or an increase in the volume of the discharge.

Quarries or stone cutting facilities that are currently permitted by the Oklahoma Department of Environmental Quality (DEQ) through individual wastewater disposal permits may apply for coverage under this permit no later than 180 days prior to the expiration of their current individual permits, or they may elect to continue coverage under their individual permits. New quarries or stone cutting facilities shall obtain authorization under this permit or an individual permit prior to commencing any of the activities regulated by this permit.

Effluent limitations contained in Part I hereof will apply to discharges of process wastewater and stormwater runoff associated with the following common activities: mining of stone, sand, or gravel; crushing stone to size; washing and stockpiling of processed stone; cutting or shaping stone. The wastewater generated at these quarries consists of wastewater from the rock washing process and stormwater runoff from the active quarry. The wastewater generated at these stone cutting facilities consists of equipment cooling water. At no time shall the effluent cause a violation of Oklahoma's Water Quality Standards (OWQS) in the receiving water.

Surface impoundments used for treatment and/or disposal of wastewater are authorized by this permit in accordance with requirements for surface impoundments contained in Part I hereof. Wastewater contained in surface impoundments may be recycled to wash crushed stone, or may be recycled for cooling water, or may be land applied for dust suppression on facility roadways and/or on stockpiles only in accordance with requirements for land application contained in Part I hereof.

The permittee shall comply with all provisions of this permit and any Authorization issued pursuant to it.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under 27A O.S. §2-6-201 *et seq.* and DEQ Rules to obtain an Authorization under this permit.

This permit replaces and/or supersedes OPDES Permit OKG950000 issued on February 4, 2008.

This permit shall become effective on June 1, 2013.

This permit and any Authorizations issued under it shall expire at midnight, on May 31, 2018.

This is to certify that the wastewater discharges set forth in this permit comply with the requirements of Oklahoma's Water Quality Standards, as amended, provided the permittee does not exceed the effluent limitations set forth in this permit.

Issued this 17th day of May, 2013.

For Oklahoma Department of Environmental Quality

Carol Paden, P.E., Manager
Industrial Permits Section
Water Quality Division

Shellie Chard-McClary, Director
Water Quality Division

PART I
EFFLUENT LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from all outfalls as described in the Authorization. Wastewater discharges regulated by this permit are process wastewater and associated stormwater runoff from the following common activities: (1) mining of stone, gravel, and sand, (2) rock and sand washing, (3) stormwater runoff from active quarry areas, (4) process wastewater from stone cutting. Where wastewaters associated with these activities are not discharged to waters of the state, this section shall not be applicable.

Such discharges shall be limited and monitored by the permittee as specified in Tables 1 and 2 below. Monitoring requirements contained in Table 2 shall become effective in conjunction with the effluent limitations listed in Table 1.

TABLE 1
EFFLUENT LIMITATIONS FOR ALL OUTFALLS

Parameters	Discharge Limitations			
	Mass Loadings Limits (lbs/day unless otherwise specified)		Concentration Limits (mg/l unless otherwise specified)	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum
Flow STORET: 50050	Report MGD	Report MGD	N/A	N/A
Oil and Grease ^a STORET: 00556	N/A	N/A	Report	15
Total Suspended Solids STORET: 00530	N/A	N/A	Report	45
Temperature ^b STORET: 00011	N/A	N/A	Report	Report
pH STORET: 00400	N/A	N/A	Between 6.5 - 9.0 standard units	

^a Oil and Grease limits apply only if wash water from the cleaning of equipment or if a facility uses an oil-based product that enters any impoundment that is discharged from the permitted facility.

^b Temperature requirements only apply to stone cutting facilities.

TABLE 2
MONITORING REQUIREMENTS FOR ALL OUTFALLS

Parameters	Monitoring Requirements	
	Measurement Frequency ^a	Sample Type
Flow	1/Month	Estimate
Oil and Grease	1/Month	Grab
Total Suspended Solids	1/Month	Grab
Temperature	1/Month	Grab
pH	1/Month	Grab

^a When discharging

NOTE: See Parts II and III for Additional Requirements.

There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses. Surface waters of the State shall be maintained free from oil and grease and taste and odors.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the outfall locations as described in the Authorization.

B. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III.E.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on the Discharge Monitoring Report (DMR) forms due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section postmarked or received no later than the 15th day of the following month. If no discharge occurs during the reporting period, DMR forms stating "No Discharge" shall be submitted according to the above schedule.

1. Inactivity Status

During months in which there is no activity at the facility, DMR forms stating "Inactive – No Process Wastewater Discharge" shall be submitted for that month. Stormwater runoff shall still be monitored and records maintained in accordance with the Storm Water Multi-Sector General Permit.

C. SCHEDULE OF COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None.

D. SURFACE IMPOUNDMENTS

The use of surface impoundments for treatment and/or disposal of wastewater are not required by this permit for rock, sand, and gravel facilities. However, where surface impoundments are used, they are authorized in this permit, subject to additional State requirements as specified below and in the Authorization, in accordance with OAC 252:616.

1. Construction Requirements

Impoundments shall be constructed and maintained in accordance with OAC 252:616-7-1.

2. Wastewater Classification

The wastewater generated from routine operations of rock, sand, and gravel quarries and stone cutting facilities is classified as Class III wastewater in accordance with OAC 252:616-1-2.

3. Liner Requirements

Liner materials and construction shall be in compliance with requirements of OAC 252:616-7-1(9) and OAC 252:616-7-2 through OAC 252:616-7-7.

4. Other Specific Requirements

- a. Wastewater contained in surface impoundments may be recycled for use in dust suppression, stockpile watering wash water, or cooling water.
- b. At such time as surface impoundments are to be permanently taken out of service or at such time as the contents of surface impoundments pose a risk to the environment or waters of the State, the owner or operator of the facility shall follow all closure requirements contained in OAC 252:616-13.
- c. In all other respects, surface impoundments shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring and closure.
- d. The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; additional monitoring and reporting (including but not necessarily limited to soil sampling); reclassification of wastes; sludge management plans; best management practices; closure plans; remediation and/or remediation plans; monitoring wells and/or subsurface monitoring plans; and/or other appropriate actions.

5. Freeboard Requirements (OAC 252:616-7-1(7))

A minimum freeboard of two (2) foot shall be maintained on all flow-through surface impoundments and all surface impoundments that are equipped to transfer process wastewater to a permitted outfall or other permitted surface impoundments. A minimum freeboard of one (1) foot shall be maintained on all flow-through surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7.

A minimum freeboard of three (3) feet shall be maintained on all total retention surface impoundments that are not equipped to transfer process wastewater to a permitted outfall or other permitted surface impoundments. A minimum freeboard of two (2) feet shall be maintained on all total retention surface impoundments constructed with a concrete liner in accordance with OAC 252:616-7

6. Depth to Groundwater (OAC 252:616-7-1(4))

Surface impoundments as required by OAC 252:616-7-1(4) are required to be located such that the base of the liner is at least (15) feet above historic maximum groundwater table. Since the wastewater from the activities covered by this permit is classified as Class III, this requirement may be waived in accordance with OAC 252:616-7-1(4)(B).

E. TANK SYSTEMS

The use of underground tank systems to manage process wastewater for treatment and/or disposal of process wastewater is authorized by this permit, subject to additional State requirements as specified below and in the Authorization, in accordance with OAC 252:616-9.

1. Authorized Use of Tank Systems (OAC 252:616-9-1)

The use of tank systems for all wastewater classifications is authorized as follows:

- a. Tank systems without lateral lines can be used for the treatment of Class I, II, III, and V wastewater.
- b. Tank systems with lateral lines are subject to the Underground Injection Control permitting process.

2. Tank System Materials (OAC 252:616-9-2)

Tank systems may be constructed of concrete, metal, plastic, or fiberglass in accordance with OAC 252:616-9-2.

3. Tank System Requirements (OAC 252:616-9-3)

Tank systems must be constructed in accordance with OAC 252:616-9-3.

F. LAND APPLICATION AND BENEFICIAL REUSE OF WASTEWATER

Land application of process wastewater for dust suppression or stockpile watering and/or reuse of process wastewater for rock washing or cooling water is authorized by this permit, and is subject to the requirements as specified below and in the Authorization, in accordance with OAC 252:616-11.

1. Process wastewater that is reused or land applied for dust suppression must be classified as Class III wastewater in accordance with OAC 252:616-1-2.
2. Process wastewater to be land applied for dust suppression shall be free of visible sheen of oil or globules of oil or grease.
3. The process wastewater to be land applied for dust suppression shall be visually inspected prior to land application.
4. Process wastewater that is recycled is exempt from monitoring requirements.
5. There shall be no land application of process wastewater for dust suppression in areas where the depth to the maximum seasonal groundwater level is less than two (2) feet in accordance with OAC 252:616-5-1(b)(5).
6. There shall be no land application of process wastewater for dust suppression during periods of precipitation or when soil is saturated or frozen.
7. There shall be no runoff of process wastewater used for dust suppression.

G. DISPOSAL OF OTHER SOLIDS

Solids, sludges, or other pollutants other than recyclable material, removed in the course of treatment or control of wastewater shall be disposed of in a State-approved industrial waste disposal site or to a company for recycling. If any such industrial wastes are removed from the facility, the permittee shall keep accurate records that include the following information:

1. Name and address of company hauling waste.
2. The type and amount of waste hauled.
3. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the DEQ's staff for review. These records shall be kept for a minimum of three (3) years.

PART II
OTHER PERMIT REQUIREMENTS

A. Regulatory Notice

The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the state of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit or the permittee. By the Director's approval, grant and issuance of this permit, permittee acknowledges receipt of true, correct and current copies of Oklahoma's Water Quality Standards, and the rules of the Oklahoma Department of Environmental Quality, provided, however, that permittee further acknowledges that any and all amendments thereto shall become part of this permit.

B. Reopener Clause

This permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined, or when required as technology. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR 124.5.

C. Certified Laboratory

All laboratory analyses of the parameters specified in this permit must be performed by a laboratory certified, by the Oklahoma Department of Environmental Quality, for those parameters.

D. Analytical Requirements

Unless otherwise specified in this permit, monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed at 40 CFR Part 136 in effect on the effective date of this permit. Appendices A, B, and C to 40 CFR Part 136 are specifically referenced as part of this requirement. Amendments to 40 CFR Part 136 promulgated after the effective date of this permit shall supersede these requirements as applicable.

E. Specific Requirements for Stone Cutting Facilities

Stone cutting facilities that discharge will be required to install a surface impoundment or tank system prior to the discharge to meet the temperature requirements.

F. Individual Permits

1. Any permittee authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The permittee shall submit the appropriate OPDES application forms together with the reasons supporting the request to the Water Quality Division.
2. When an individual OPDES permit is issued to a permittee otherwise subject to this permit, the applicability of this permit to that owner or permittee is automatically terminated on the effective date of the individual permit.
3. As described in the General Provisions of this permit, a rock, sand, or gravel quarry or stone cutting facility excluded from coverage under this permit solely because it already has an individual permit may request that the

individual permit be revoked, and that the facility covered by this permit. Upon revocation of the individual permit, this permit shall apply to the facility.

G. Minimum Quantification Level (MQL)

If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

<u>POLLUTANT</u>	<u>MQL (mg/l)</u>
Oil and Grease	5

The permittee may develop an effluent and/or upstream specific method detection limit (MDL) in accordance with Appendix B to 40 CFR Part 136. For any pollutant for which the permittee determines an effluent and/or upstream specific MDL, the permittee shall send to DEQ, Water Quality Division, Industrial Permits Section, a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that the effluent and/or upstream specific MDL was correctly calculated. An effluent and/or upstream specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$\text{MQL} = 3.3 \times \text{MDL}$$

Upon written approval by the Industrial Permits Section, the effluent and/or upstream specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) calculations and reporting requirements.

H. Laws and Rules Applicable

The DEQ Rules, as amended, are applicable to and are incorporated by reference into this permit and any Authorizations issued under it. The permittee is hereby given notice that this permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and all amendments of the laws of the State of Oklahoma, the Department of Environmental Quality Rules, and Oklahoma's Water Quality Standards. The absence of any express reference within this permit to any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this permit of the permittee. By DEQ approval, grant and issuance of this permit, permittee acknowledges responsibility to obtain correct and current copies of applicable DEQ Rules (as amended), provided, however, that permittee further acknowledges that any and all amendments thereto shall become a part of this permit.

I. Definitions

1. The term "active quarry area" means the area, on or beneath land, used or disturbed in activity related to the extraction, removal or recovery of rock, sand or gravel from its natural deposit(s).
2. The term "stormwater runoff from the active quarry" as described in 40 CFR 122.26(b)(14) means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing, or raw material storage areas at an industrial plant. This paragraph of the rule also states "...For the categories of industries identified in paragraph (b)(14)(xi) of this section, the term includes only stormwater discharges from all the areas that are listed previously where material handling equipment, or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product."