

**AUTHORIZATION TO DISCHARGE UNDER
THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**PERMIT NUMBER: OK0000388
ID NUMBER: I-72000120**

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A Oklahoma Statutes (O.S) § 2-6-201 *et seq.*, as amended, Oklahoma Uniform Environmental Permitting Act, 27A O.S. § 2-14-101 *et seq.*, as amended, and the rules of the Oklahoma Department of Environmental Quality (DEQ) promulgated thereunder, (see the Oklahoma Administrative Code (OAC) 252:606 and OAC 252:616); the Federal Clean Water Act, Public Law 95-217 (33 U.S.C. 1251, *et seq.*), Section 402; and the National Pollutant Discharge Elimination System regulations at Title 40 of the Code of Federal Regulations (C.F.R.) Parts 122 and 124), and in reliance on the certified statements and representations heretofore made in its application,

Sterling Specialty Chemicals, LLC
9100 West 21st Street
Sand Springs, OK 74063

is authorized to discharge wastewater from their facility, located at:

NW¼, SW¼, NW¼, Section 13, Township 19 North,
Range 11 East, Indian Meridian, Tulsa County, Oklahoma
or at 9100 W 21st St., Sand Springs, OK 74063

to receiving waters: Arkansas River in Stream Segment 120420 (Waterbody Identification 120420010130_00)

from Outfall 001 located at: Latitude 36.130010° N, Longitude 96.099032° W (GPS: NAD83)
NW¼, SW¼, NW¼, Section 13, Township 19 North, Range 11 East,
Indian Meridian, Tulsa County, Oklahoma

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III, hereof.

The above-referenced facility is authorized to retain wastewater in three flow-through surface impoundments (F01, F02, and F04) as described in the Appendix. Surface impoundments shall be maintained in accordance with Parts I, II, and IV hereof.

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 the OPDES Act and DEQ Rules.

This permit replaces and supersedes the previous permit issued on November 5, 2021.

The issuance date of this permit is Month Date Year.

This permit shall become effective Month Date Year.

This permit and authorization to discharge shall expire at midnight Month Date Year.

For DEQ:

Jason Ma, P.E., Manager
Industrial Permits Section
Water Quality Division

George Russell IV, Director
Water Quality Division

PART I
EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Effluent Limitations and Monitoring Requirements for Outfall 001

During the period beginning on the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall 001.

The discharge from Outfall 001 consists of stormwater from the tank storage pads, boiler make-up water, cooling tower blowdown, steam condensate, non-contact cooling water, and contaminated stormwater. Such discharge shall be limited and monitored by the permittee as specified below:

Mass and Concentration Limitations

PARAMETERS		DISCHARGE LIMITATIONS			
		MASS LOADING 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
Total Organic Carbon (TOC) STORET: 00680		N/A	N/A	Report	50
Total Suspended Solids (TSS) STORET: 00530		N/A	N/A	Report	Report
Oil and Grease STORET: 00556		N/A	N/A	Report	15
<i>E. Coli</i> ⁽¹⁾ STORET: 51040	May-Sept.	N/A	N/A	126 ⁽²⁾	406
	Oct.-Apr.	N/A	N/A	630 ⁽³⁾	2030
pH STORET: 00400		N/A	N/A	between 6.5 s.u. - 9.0 s.u.	

⁽¹⁾ *E. Coli* shall be reported in CFU/100 ml.

⁽²⁾ Computed as geometric mean of all samples collected during monthly reporting period (May-September).

⁽³⁾ Computed as geometric mean of all samples collected during monthly reporting period (October-April).

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.

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 following location:

Outfall 001: At the sampling point inside the treatment building after the PAA/UV/filtration system and prior to entering the Arkansas River, in the NW¼, SW¼, NW¼, Section 13, Township 19 North, Range 11 East, Indian Meridian, Tulsa County, Oklahoma, or at Latitude 36.130278° N, Longitude 96.099375° W (GPS: NAD83).

Monitoring Requirements and Sample Types

PARAMETERS	MEASUREMENT FREQUENCY ⁽¹⁾	SAMPLE TYPE
Flow	1/Daily	Record
TOC	2/Month	Grab
TSS	2/Month	Grab
Oil and Grease	2/Month	Grab
<i>E. Coli</i>	2/Week	Grab
pH	1/Week	Grab

⁽¹⁾ When discharging.

2. Effluent Limitations and Monitoring Requirements for Internal Monitoring Point (IMP) 101

During the period beginning the commencement of discharge and lasting through the expiration date, the permittee is authorized to discharge from IMP 101.

The discharge from IMP 101 consists of stormwater from the tank storage pads, boiler make-up water, cooling tower blowdown, steam condensate, non-contact cooling water, and contaminated stormwater. Such discharge shall be limited and monitored by the permittee as specified below:

Effluent Limitations

PARAMETERS	DISCHARGE LIMITATIONS			
	MASS LOADING LIMITS (lbs/day unless otherwise specified)		CONCENTRATION LIMITS (mg/L unless otherwise specified)	
	MONTHLY AVERAGE	DAILY MAXIMUM	MONTHLY AVERAGE	DAILY MAXIMUM
Total Residual Oxidant (TRO) STORET: 34044	N/A	N/A	N/A	ND ⁽¹⁾

⁽¹⁾ "Non-detect" (ND) is defined as <0.1 mg/L instantaneous maximum.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:

IMP 101: At the sampling point where the effluent leaves surface impoundment F04 and prior to entering the on-site PAA/UV treatment system, in the SW¼, NW¼, NW¼, Section 13, Township 19 North, Range 11 East, Indian Meridian, Tulsa County, Oklahoma, or at Latitude 36.130166° N, Longitude 96.099349° W (GPS: NAD83).

Monitoring Requirements and Sample Types - IMP 101

PARAMETERS	MEASUREMENT FREQUENCY ⁽¹⁾	SAMPLE TYPE
TRO	2/month	Grab

⁽¹⁾ When discharging.

NOTE: See Parts II and III for Additional Requirements.

SECTION B. SCHEDULE OF COMPLIANCE

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

SECTION C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III, Section E(4) of the permit. Monitoring results obtained during the previous month shall be summarized and electronically reported on an electronic Discharge Monitoring Report (DMR) form due to DEQ, Water Quality Division, Wastewater Compliance Tracking Section no later than the 15th day of the month following the completed monthly test. If no discharge occurs during the reporting period, a DMR form stating "No Discharge" shall be electronically submitted according to the above schedule. Instructions on how to register as a "Preparer" or "Signatory" for DMRs, as well as how to prepare and submit DMRs, can be found on DEQ's website at <https://oklahoma.gov/deq/divisions/water-quality/wastewater-stormwater/electronic-reporting.html>. Assistance is also available by contacting DEQ at (405) 702-8100 or deqreporting@deq.ok.gov.

The first report is due on _____.

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 and the rules of DEQ. 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 to 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.

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 to be the result of the permittee's discharge to the receiving water(s), or a Total Maximum Daily Load is established for the receiving stream(s), or when required as technology advances. Modification or revocation and reissuance of the Permit shall follow regulations listed at 40 C.F.R. § 124.5.

C. LABORATORY ACCREDITATION

All laboratory analyses for the parameters specified in this permit must be performed by a laboratory accredited by DEQ for those parameters.

D. ANALYTICAL REQUIREMENTS

Unless otherwise specified in this permit, effluent and/or upstream monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed in 40 C.F.R. Part 136. Appendices A, B, and C to 40 C.F.R. Part 136 are specifically referenced as part of this requirement. Amendments to 40 C.F.R. Part 136 promulgated and incorporated by reference in OAC 252:606-1-3(b)(7) after the effective date of this Permit shall supersede these requirements as applicable.

E. MINIMUM QUANTIFICATION LEVEL

If any individual analytical test result taken for compliance with this permit is a non-detect, then the detection limit shall be used for DMR calculations. Any time a non-detect value is used for DMR calculations and/or reporting, the value reported on the DMR shall use the less than sign (<).

F. PRIORITY POLLUTANTS IN COOLING TOWER BLOWDOWN

The permittee shall provide written notification to DEQ at least 30 days prior to commencing the use of new cooling water treatment chemical(s). Safety Data Sheets (SDS's) for all such newly proposed cooling tower maintenance/treatment chemicals shall be furnished with the notification. If proposed new cooling water treatment chemicals contain any of the priority pollutants listed in 40 C.F.R. Part 423, the Appendix, the permittee shall also provide engineering calculations for the expected level of the pollutant in the cooling tower blowdown from each affected outfall or internal monitoring point, as appropriate.

G. SURFACE IMPOUNDMENT REQUIREMENTS

1. A minimum freeboard of one foot shall be maintained for surface impoundment F01. A minimum freeboard of two feet shall be maintained for surface impoundments F02 and F04.
2. The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.
3. At such time as surface impoundments F01, F02, and/or F04 are to be permanently taken out of service or at such time as the contents of surface impoundments F01, F02 and/or F04 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.
4. In all other respects, surface impoundments F01, F02, and/or F04 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.

H. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed of at 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 which include the following information:

- a. Name and address of company hauling waste;
- b. The type and amount of waste hauled; and
- c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the staff of DEQ for inspection, review, and copying.

APPENDIX A

DESCRIPTION OF WASTEWATER TREATMENT/DISPOSAL SURFACE IMPOUNDMENT(S)

Classification ⁽¹⁾ ⁽²⁾ OAC 252:616-1-2		Liner Type ⁽¹⁾	Holding Capacity ⁽¹⁾ or Dimensions OAC 252:616-7-1(6)	WASTEWATER Destination
S.I.	Wastewater			
F01	Contaminated stormwater runoff from tank storage pads, boiler make-up water, and direct interception of rainfall. -Class III	Concrete	45' x 45' x 7.5' 52,000 gallons	F02
F02	Cooling tower blowdown, non-contact cooling water, boiler blowdown, steam condensate, and stormwater runoff. -Class III	Native Soil	(Irregular shape) Depth ~ 10' 235,000 gallons	F04
F04	Cooling tower blowdown, non-contact cooling water, boiler blowdown, steam condensate, contaminated stormwater runoff from tank storage pads, boiler make-up water, and direct interception of rainfall. -Class III	Synthetic	240' x 260' x 20' 3,960,000 gallons	Outfall 001

⁽¹⁾ Based on information contained in the application

⁽²⁾ Wastewater Classification according to OAC 252:616-1-2.

LOCATION OF SURFACE IMPOUNDMENT(S)

S.I.	Legal Location	Relative Location of Impoundments
F01	NW¼, NE¼, NW¼, Section 13, Township 19 North, Range 11 East, Indian Meridian, Tulsa County, Oklahoma	Northeast corner of the facility.
F02	SE¼, NW¼, NW¼, Section 13, Township 19 North, Range 11 East, Indian Meridian, Tulsa County, Oklahoma	South edge of the facility.
F04	SE¼, NW¼, NW¼, Section 13, Township 19 North, Range 11 East, Indian Meridian, Tulsa County, Oklahoma	North of F02 in the Southwest corner of facility



