



Technical Bulletin

NPDES General Permit NCG510000

NORTH CAROLINA DIVISION OF WATER RESOURCES

August 22, 2025

Coverage Under This Permit

This general permit covers point source discharges of remediated petroleum contamination (i.e., gasoline, diesel fuel, aviation fuel, kerosene, or fuel oil) and/or chlorinated solvents to surface waters that discharge equal to or less than (\leq) 0.25 MGD. Such wastewater discharges include:

- **Groundwater remediation**
- **Well construction and similar wastewaters**
- **Other construction activities (e.g., dewatering)**

Wastewater contaminated with pollutants other than petroleum compounds or chlorinated solvents (e.g., pesticides) are excluded from this general permit, and will require an individual NPDES permit to discharge to surface waters. Proposed discharges to receiving waters classified as ORW or HQW are excluded from general permit coverage. NOTE: Discharge of groundwater generated by well construction or other construction activities that are not contaminated are deemed to be automatically permitted per 15A NCAC 2H.0106 (f) (7).

Significant Changes in Renewed General Permit

- This General Permit now covers discharges of remediated groundwater contaminated with chlorinated solvents. [Part I, Sections B. (7) and B. (8)]
- Section A. – Applicability has been added to Part I to specify the activities, geographic areas, and receiving waters covered by this General Permit and the limitations on coverage.
- Effluent Limitations and Monitoring Requirements are now in Part I, Section B.
- Flow sampling type has been changed to *Recording* for all discharges.
- Monitoring for Total Purgeable Organics (VOCs) and Base Neutrals & Acids (Semi-VOCs) is now required for all discharges as an annual effluent pollutant scan using EPA Methods 624.1 and 625.1. See Part I, Section C for the requirements.

- Discharge Monitoring Reports are now required to be submitted electronically using the NC DWR's eDMR system beginning on January 1, 2026. See Part I, Section D. for the requirements.

Key Permit Requirements

- Activities, geographic areas, and receiving waters covered by this General Permit are now specified in Part I, Section A. – Applicability. This section also outlines limitations on coverage. Flows greater than ($>$) 0.25 MGD are excluded from coverage under this General Permit.
- Effluent Limitations and Monitoring Requirements are specified in Part I, Section B. Eight separate monitoring pages are included in Part I, Section B:
 - B. (1)** – gasoline remediation with flows \leq 0.05 MGD
 - B. (2)** – other petroleum fuels remediation (diesel fuel, aviation fuel, kerosene, fuel oil) with flows \leq 0.05 MGD
 - B. (3)** – combined petroleum remediation (gasoline, diesel fuel, aviation fuel, kerosene, fuel oil) with flows \leq 0.05 MGD
 - B. (4)** – gasoline remediation with flows $>$ 0.05 MGD and \leq 0.25 MGD
 - B. (5)** – other petroleum fuels remediation (diesel fuel, aviation fuel, kerosene, fuel oil) with flows $>$ 0.05 MGD and \leq 0.25 MGD
 - B. (6)** – combined petroleum remediation (gasoline, diesel fuel, aviation fuel, kerosene, fuel oil) with flows $>$ 0.05 MGD and \leq 0.25 MGD.
 - B. (7)** – chlorinated solvents remediation \leq 0.25 MGD
 - B. (8)** – petroleum and chlorinated solvents remediation \leq 0.25 MGD

- Additional Monitoring Requirements for Total Purgeable Organics (VOCs) and Base Neutrals & Acids (Semi-VOCs) are specified in Part I, Section C. The permittee shall conduct annual effluent pollutant scans using EPA Methods 624.1 and 625.1.
- Electronic Reporting of Discharge Monitoring Reports is specified in Part I, Section D. All permittees covered under this general permit shall report discharge monitoring data electronically using the NC DWR's Electronic Discharge Monitoring Report (eDMR) internet application beginning on January 1, 2026.
- All samples should be collected before the effluent joins or is diluted by any other wastestream, water or substance. [Part II, Section D. (1)]
- Proper operation and maintenance of the system to achieve compliance with the conditions of the permit. [Part II, Section C. (2.)]
- Solids, sludges, filter backwash or other pollutants removed in the course of treatment shall be disposed properly to prevent materials from entering waters of the State. [Part II, Section C. (6.)]
- The permittee shall give notice to the Division of any planned physical alterations or additions to the system that could significantly increase the quantity of pollutants discharged or introduce new pollutants to the discharge. [Part II, Section E. (2.)]
- Any exceedances of the permit limits must be reported to the Division within 24 hours from the time the permittee becomes aware of the circumstances. [Part II, Section E. (6.)]
- Minimum Treatment System Requirements include: air stripper and/or activated carbon; and oil water separator (if free product available). The permittee should consider the need for surge tanks and filters. It is the permittee's responsibility to design a treatment system that will comply with permit limits.

Frequently Asked Questions

1) How do I apply for new coverage, renew my coverage, or rescind my coverage under this General Permit?

This General Permit expires on September 30, 2030.

New Coverage: New applicants seeking coverage are required to submit a Notice of Intent (NOI) along with an application fee of \$119.

Renew Coverage: Permittees do not need to apply to renew their coverage under this General Permit. Coverage is automatically renewed if all permit annual fees have been paid.

Rescind Coverage: If an existing permittee plans to eliminate their discharge and no longer requires coverage under this General Permit, the permittee will need to request rescission of permit coverage from the Division's Compliance and Expedited Permitting Unit by letter.

2) Do I need to submit monitoring results to the Division?

Yes. Beginning on January 1, 2026, all permittees covered under this general permit shall report discharge monitoring data electronically using NC DWR's Electronic Discharge Monitoring Report (eDMR) internet application. Information on eDMR and the NPDES electronic reporting requirements are available at:

<https://deq.nc.gov/about/divisions/water-resources/edmr>

To register for eDMR, please visit the DEQ website at the following link and complete the eDMR Registration Form:

<https://www.deq.nc.gov/about/divisions/water-resources/edmr/user-registration>

All monitoring results shall be kept on site for three years. The Division may request these reports for review at any time. (Part II, Section D. 8). Note, per Part II, Section E. 6, violations

of any permit limitation must be reported within 24 hours from the time the permittee becomes aware of the circumstances.

3) Do I need to employ a Certified Wastewater Treatment Plant Operator?

Not at this time. The Division's Operator Training and Certification Unit does not currently require a certified operator for these facilities. However, the requirement remains in the permit with clarification, in the event that future re-classification is deemed necessary (Part II, Section C. 1).

4) Where do I find my stream classification?

The stream classifications (i.e. water supply WS-IV, C, Tr, etc.) can be found on the Supplement page of your Certificate of Coverage. If you are unsure of your stream classification, you can contact the Division's Compliance and Expedited Permitting Unit.

5) Do I need to use North Carolina-certified methods to analyze samples?

Yes, analytical monitoring must be performed by a laboratory certified by North Carolina to perform that specific method. However, pH values (and other field-certified tests) should be measured in the field because sample degradation is likely over time and during transport to the laboratory. A list of labs performing NC-certified methods is available from the Division.

6) What if I sell my business or the name of my business changes?

If your business name or ownership changes, you must complete and submit a Name/Ownership Change Form. This is considered a minor modification and has no fee. This form is available on the DEQ website at:
<https://www.deq.nc.gov/about/divisions/water-resources/permitting/npdes-wastewater/npdes-compliance-and-enforcement/compliance-forms>

Contact Information

For additional information on NPDES wastewater permitting and compliance, please contact us at:

NCDEQ / DWR / NPDES
Compliance and Expedited Permitting Unit
1617 Mail Service Center
Raleigh, NC 27699-1617

Phone: (919) 707-9130

You may also contact your local Division of Water Resources Regional Office at:

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| Asheville | 828-296-4500 |
| Fayetteville | 910-433-3300 |
| Mooresville | 704-235-2100 |
| Raleigh | 919-791-4200 |
| Washington | 252-946-6481 |
| Wilmington | 910-796-7215 |
| Winston-Salem | 336-776-9800 |

For assistance with registering for the Electronic Discharge Monitoring Report (eDMR) internet application, please contact the eDMR Admin, Michele Scott at:

eDMRadmin@ncdenr.gov or
michele.scott@deq.nc.gov

Phone: (919) 707-3681

The Division maintains a website at
<https://www.deq.nc.gov/about/divisions/water-resources>

Also try the DEQ Division of Environmental Assistance and Customer Service at
<https://www.deq.nc.gov/about/divisions/environmental-assistance-and-customer-service>

Other Information about North Carolina's NPDES General Permits Program

Copies of our General Wastewater Permits, technical bulletins, application forms, guidance documents, and other miscellaneous forms can be found at:

<https://www.deq.nc.gov/about/divisions/water-resources/permitting/npdes-wastewater/npdes-permitting-process/npdes-general-permits>

NCG500000 – Non-contact cooling water, boiler
blowdown, cooling tower
blowdown, condensate,
hydroelectric dams

NCG510000 – Groundwater remediation for
petroleum and/or chlorinated
solvent contamination

NCG520000 – Sand dredging

NCG530000 – **Replaced by NCG600000**

NCG550000 – Single-family residences and other
100% Domestic < 1,000 GPD

NCG560000 – Pesticides

NCG580000 – Re-use from conjunctive use reclaim
water systems

NCG590000 – Water treatment plant dischargers
[wastewater from conventional and
greensand systems]

NCG600000 – Aquaculture, fish/seafood packing
and rinsing