

MQGP FACT SHEET

MINING AND QUARRYING STORMWATER

MAJOR MODIFICATION OF THE GENERAL PERMIT

Permit No. NJ0141950

PI ID # 50577

MQGP FACT SHEET

This permit regulates discharges of stormwater, ground water from mine dewatering, and certain process wastewaters at facilities that engage in mining and quarrying, and/or processing of aggregate materials.

The original Fact Sheet shall serve as basis for permit conditions except as otherwise noted in this Fact Sheet. In accordance with N.J.A.C. 7:14A-16.3(e) the following permit sections, changes and/or additions to the permit are reopened for notice and/or comment except as otherwise noted:

Major modifications:

- Changed submittal and compliance schedules from Effective Date of Permit (EDP) to Effective Date of Permit Authorization (EDPA). Set compliance schedule for continuous temperature recording of mine dewatering effective 90 days from EDPA. Set compliance schedule for metering mine dewatering flow effective 90 days from EDPA.
- Removed eligibility of Hot Mix Asphalt Producers (HMAP) and Concrete Product Manufacturing (CPM) plants with NJPDES permits who have not established drainage control.
- Removed requirements for a stream temperature study.

Administrative corrections and clarifications:

- Changed permit to prohibit process water and stormwater discharges to Coastal Saline (SC) waters in accordance with water quality standards. Federal Regulations codified in 40 CFR Subpart M prevents the Department from permitting discharges to SC waters in a general permit. Facilities may apply for an individual permit for discharges to SC waters.
- Changed temperature limit for Estuarine Saline (SE) waters to 85°F in accordance with water quality standards. This was a typographical error that is being corrected as part of this permit action.
- Changed pH limits for Pinelands waters to ≥ 3.5 and ≤ 5.5 . This was a typographical error that is being corrected as part of this permit action.
- Clarified that the monitoring period for direct process water discharges, stormwater discharges, and mine dewatering discharges, are from June 1 through November 1 of each year of the permit.

BASIS FOR THE MAJOR CHANGES TO THE PERMIT

Change Submittals and Compliance Schedules from EDP to EDPA

The Department concluded that additional time was required to coordinate mailings, review RFAs, and issue authorizations in time to meet compliance submittals and schedules set at EDP in the permit. As this requires significant lead time, the Department has switched to EDPA which provides the flexibility required to meet the compliance and submittal schedules in the permit.

Removed Eligibility for HMAP and CPM Plants Without Drainage Control

Changing EDP to EDPA created an inconsistency between certain existing permittees who have either the Hot Mix Asphalt Producers (HMAP) General Permit or the Concrete Products Manufacturing (CPM) General Permit. Changing to EDPA would have extended the compliance date for establishing drainage control for HMAP and CPM plants for another twenty-four (24) months. At this time, these facilities should be making progress towards implementing drainage control as a requirement under either the HMAP or CPM General Permits. By allowing these facilities to obtain the Mining and Quarrying General Permit prior to achieving this requirement, the Department is concerned they would receive a disproportionate amount of time to achieve drainage control. Since drainage control is a critical aspect of all industry-specific general permits, the Department believes that these facilities should achieve this requirement prior to obtaining this permit. Permittees with drainage control are still eligible for this permit.

Removal of Stream Study for Thermal Impact of Quarries

The Department has determined that the requirement for a stream study to assess the potential thermal impacts to trout production and trout maintenance waters would not be appropriate at this time due to questions regarding the feasibility of such a study, as well as the need to determine the beneficial impacts of the new discharge requirements. The Department believes that the mitigation provided by the interim imposition of effluent limitations on the discharges should be sufficient over the short term. Once the impact of this requirement is evaluated and the best management practices are in place, the Department can determine whether a stream study would be of further value. Therefore, this requirement has been removed from the permit at this time. The Department reserves the right to require this study in the future.

Permit Summary Tables

Table I and Table II contain the monitoring requirements for the first 24 months of the permit.

Discharge Type: Direct process wastewater and mine dewatering discharges to surface water of commingled (including stormwater and groundwater), process and wastewater

Table I: Direct and mine dewatering discharges to surface water

PARAMETER all values are mg/l unless otherwise stated	FW2(C1), FW2 (NT)¹	FW1, SC	Pinelands	FW2(C1), FW2 (TP, TM)¹	SE
Flow (MGD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Benzene ^{7,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Flow (MGD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Chromium, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Copper, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Lead, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Zinc, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Iron, Total Recoverable ⁴	1	No Discharge	1	1	1
Oil & Grease	REPORT	No Discharge	REPORT	REPORT	REPORT
Oxygen Demand, Chem. (High Level) (COD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Oxygen, Dissolved (DO)	REPORT	No Discharge	REPORT	REPORT	REPORT
pH range (S.U.)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Dissolved (TDS)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended (SIC 1459)	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Solids, Total Suspended (SIC 1499)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended (SIC 1446)	REPORT	No Discharge	REPORT	REPORT	REPORT
Temperature (SE) ⁹		No Discharge			85°F
Temperature ⁹	86°F	No Discharge	86°F	75°F	

Discharge Type: Stormwater only – Direct discharge to surface water

Table II: Stormwater only discharge

PARAMETER all values are mg/l unless otherwise stated	FW2(C1), FW2 (NT)¹	FW1, SC	Pinelands	FW2(C1), FW2 (TP, TM)¹	SE
Flow (MGD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Iron, Total Recoverable ⁴	REPORT	No Discharge	REPORT	REPORT	REPORT
Oil & Grease	REPORT	No Discharge	REPORT	REPORT	REPORT
Oxygen Demand, Chem. (High Level) (COD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Oxygen, Dissolved (DO)	REPORT	No Discharge	REPORT	REPORT	
pH range (S.U.)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Dissolved (TDS)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended (SIC 1459)	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Solids, Total Suspended (SIC 1499)	20	No Discharge	20	20	20
Solids, Total Suspended (SIC 1446)	45	No Discharge	45	45	45
Temperature ⁹	REPORT	No Discharge	REPORT	REPORT	REPORT

Permit Summary Tables

Table III and Table IV contain the monitoring requirements that apply 24 months after the EDP.

Discharge Type: Direct process wastewater and mine dewatering discharges to surface water of commingled (including stormwater and groundwater), process and wastewater

Table III: Direct and mine dewatering discharges to surface water

PARAMETER all values are mg/l unless otherwise stated	FW2(C1), FW2 (NT)¹	FW1, SC	Pinelands	FW2(C1), FW2 (TP, TM)¹	SE
Benzene ^{7,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Flow (MGD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Chromium, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Copper, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Iron, Total Recoverable ⁴	1	No Discharge	1	1	1
Lead, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Zinc, Total Recoverable ^{5,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
Oil & Grease	15	No Discharge	15	15	15
Oxygen Demand, Chem. (High Level) (COD)	100	No Discharge	100	100	100
Oxygen, Dissolved (DO)	REPORT	No Discharge	REPORT	5 minimum	REPORT
pH range (S.U.)	6.0 – 9.0	No Discharge	3.5 – 5.5	6.0 – 9.0	6.0 – 9.0
Solids, Total Dissolved (TDS)	500	No Discharge	500	500	500
Solids, Total Suspended	40	No Discharge	40	25	50
Solids, Total Suspended (SIC 1459)	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Solids, Total Suspended (SIC 1499)	20	No Discharge	20	20	20
Solids, Total Suspended (SIC 1446)	40	No Discharge	40	25	45
Surfactants (mbas) ^{6,8}	REPORT	No Discharge	REPORT	REPORT	REPORT
%Effect Statre 48hr Acute Ceriodaphnia ³	NOAEC ≥ 100	No Discharge	NOAEC ≥ 100	NOAEC ≥ 100	NOAEC ≥ 100
Temperature (SE) ⁹		No Discharge			85°F
Temperature ¹⁰	86°F	No Discharge	86°F	75°F	
Industrial Activity	Develop, implement and maintain a site SPPP ² for all classifications				

Discharge Type: Stormwater only – Direct discharge to surface water

Table IV: Stormwater only discharge

PARAMETER all values are mg/l unless otherwise stated	FW2(C1), FW2 (NT)¹	FW1, SC	Pinelands	FW2(C1), FW2 (TP, TM)¹	SE
Benzene ⁷	REPORT	No Discharge	REPORT	REPORT	REPORT
Flow (MGD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Chromium, Total Recoverable ⁵	REPORT	No Discharge	REPORT	REPORT	REPORT
Copper, Total Recoverable ⁵	REPORT	No Discharge	REPORT	REPORT	REPORT
Iron, Total Recoverable ⁴	REPORT	No Discharge	REPORT	REPORT	REPORT
Lead, Total Recoverable ⁵	REPORT	No Discharge	REPORT	REPORT	REPORT
Zinc, Total Recoverable ⁵	REPORT	No Discharge	REPORT	REPORT	REPORT
Oil & Grease	15	No Discharge	15	15	15
Oxygen Demand, Chem. (High Level) (COD)	REPORT	No Discharge	REPORT	REPORT	REPORT
Oxygen, Dissolved (DO)	REPORT	No Discharge	REPORT	REPORT	
pH range (S.U.)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Dissolved (TDS)	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended	REPORT	No Discharge	REPORT	REPORT	REPORT
Solids, Total Suspended (SIC 1459)	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Solids, Total Suspended (SIC 1499)	20	No Discharge	20	20	20
Solids, Total Suspended (SIC 1446)	45	No Discharge	45	45	45
Surfactants (mbas) ⁶	REPORT	No Discharge	REPORT	REPORT	REPORT
Temperature ⁹	REPORT	No Discharge	REPORT	REPORT	
Industrial Activity	Develop, implement and maintain a site SPPP ² for all classifications				

NOTES

1. NT means non-trout, TP means trout production, TM means trout maintenance.
2. Stormwater Pollution Prevention Plan (SPPP) is derived from Federal (40 CFR 122.44) and State (N.J.A.C. 7:14A-11.2(a)3 rules and will be developed as a non-numeric effluent limit to replace the numeric limits of the prior permit, and to control parameters not listed above. The following outside areas must be addressed in the SPPP, if applicable: (1) vehicle fueling and maintenance areas; (2) waste management/handling areas; (3) ISRA clean-up areas; (4) loading docks; (5) storage areas; and (6) any other areas with "stormwater discharges associated with industrial activity" as defined by N.J.A.C. 7:14A-1.2.
3. Acute Toxicity Test shall be required when settling aids are used.
4. Iron shall be required for discharges from Concrete Products Manufacturing Plants.
5. Pollutant monitoring shall be required for discharges from Hot Mix Asphalt Plants.
6. Surfactant monitoring shall be required for Hot Mix Asphalt Plants using release agents.
7. Benzene monitoring shall be required for Hot Mix Asphalt Plants storing solvent based "cold-patch" at any time during the monitoring period.
8. Pollutant monitoring shall be required for discharges from Hot Mix Asphalt Plants that are commingled with process wastewater discharges from mine dewatering or direct process wastewater discharges.
9. All temperature samples are Grab-3 samples
10. Ongoing evaluation of temperature requirements may result in a lower limit for TP and TM waters

CONTENTS OF THE ADMINISTRATIVE RECORD

No changes were made from the contents in the original Fact Sheet.