Minor Modification (Effective 2/1/07)
Mining and Quarrying General Permit
Permit No. NJ0141950

Summary of Changes

Additions are indicated by underlining and bolding **thus**; deletions indicated in brackets [thus].

PART I

GENERAL CONDITIONS FOR ALL NJPDES PERMITS
A. – E. (No Change)

PART II

GENERAL REQUIREMENTS:
DISCHARGE CATEGORIES
A. (No Change)
B. General Conditions
1. Permit Area
a. (No change)
2. Eligibility
a. This permit authorizes only those stormwater and process wastewater discharges to surface waters and ground water specified in Part III [Tables A-III-1 to X-III-2] and the activities outlined in Part IV of this permit from facilities engaged in mining and quarrying operations. The Department may authorize, under this general permit, other facilities that it deems are performing similar operations.

b. - c. (No change)
d. Renewal Eligibility
i. For [direct] **process wastewater, mine dewatering** and stormwater discharges to surface waters, a permittee shall have analytical data for a minimum of six (6) valid sampling events over the initial phase (EDPA + 24 months), and a minimum of six (6) more sampling events over the remainder of the permit cycle. The sampling events shall be from each permitted outfall for the parameters in Part III.
[ii. For mine dewatering, a permittee shall have analytical data for a minimum of six (6) valid sampling events over the initial phase (EDPA +24 months), and a minimum of six (6) more sampling events over the remainder of the permit cycle. The sampling events shall be from each permitted outfall for the parameters in Part III.iii-viii.]
ii. [iii.] For **process wastewater, mine dewatering and stormwater discharges to surface waters** [mine dewatering] of less than six (6) samples, the permittee must show that the number of samples taken + number of months of NODI = 12 for the initial phase and = 18 for the final thirty-six (36) months
iii. [iv.] Permittees with hydraulic control (Part IV Definitions) are not required to sample.
iv. [v.] For facilities with operating concrete products manufacturing plants sharing common drainage area(s) and outfall(s), the permittee shall also have monitoring results as required in Part IV.C.
3. - 15. (No Change)
16. For mine dewatering and process **waste**water discharges to surface waters designated as trout maintenance or trout production waters in the Water Quality Standards (N.J.A.C. 7:9B), the permittee shall implement and maintain BMPs designed to meet an effluent limit of 75 degrees F effective ninety (90) days after the EDPA and a target of 68 degrees F effective twenty-four (24) months after the EDPA.
17. 20. (No Change)
C. - H. (No Change)

PART III (No change)

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Foot Notes

1. Stormwater Notes

a. The following notes refer to the monitoring required by the Part III of this permit:

i. [pH shall be field determined for sampling for Part III Tables when effluent limits are applied. The Department's sampling protocol in Attachment E may be used for sampling of pH in Part III Tables when there are no limits listed for pH. pH values shall be reported on a WCR when the protocol in Attachment E is used.]

i.[ii.]-**vi**.[vii.] No change

viii. The benchmark concentrations for [Part III Tables for] stormwater discharges **only** are as follows: TSS <= 100mg/L, TDS <= 500 mg/L, COD <= 120 mg/L.

ix - x. (No change)

[xi. TSS discharge limit for facilities that are involved with the production of industrial sand is 45mg/L (SIC 1446/NAICS 212322) unless otherwise noted in this permit and Part III Tables.

xii. The effluent limit for TSS in mine dewatering operations for SIC 1499 shall be 20 mg/L unless otherwise noted in this permit.]

xi. [xiii.] Initial Phase is EDPA + twenty-four (24) months

xii. [xiii.] A "discernible, confined and discrete conveyance" includes, but is not limited to, a pipe, ditch or channel. Examples of such conveyances include storm sewer pipes, drainage ditches, spillways, gullies, swales, gutters, curbs and streets.

xiii. [xiv.] % Effect means an NOAEC (No Observed Adverse Effect Concentration) of 100% effluent and requires no statistically significant difference in survival from the control at a minimum of 100% effluent, as determined using hypothesis testing methods.

xiv. [xv.] SQAR DMR submittals shall be in accordance with the Sludge Quality Assurance Regulations (SQAR N.J.A.C. 7: 14C), the frequency of monitoring is based upon the amount of sludge generated. Consequently, the frequency of monitoring may be reduced for individual authorizations. Also in accordance with the SQAR, the parameters to be monitored may change in individual authorizations.

xv. [xvi.] Drainage Control shall be required in all areas of industrial activity where exposure of stormwater to "source materials" cannot be eliminated. Drainage Control can be established by using diversionary structures, grading, embankments, collection systems and other similar methods to divert stormwater from the industrial area of the site to a permitted outfall. The site may require several outfalls to establish drainage control. In areas of industrial activity that cannot be diverted to a permitted outfall, the permittee shall do the following: convert the area(s) so there is no direct discharge of stormwater to surface water, or; cease all industrial activity and eliminate exposure of "source material", including "source material" remaining from past industrial activity.

xvi. [xviii.] "MRFs" are Monitoring Report Forms including but not limited to Discharge Monitoring Report (DMR), Waste Characterization Report (WCR) and Residual Transfer Report (RTR)

xvii. [xix.] The toxicity test species may be substituted for facilities with saline conditions.

xviii. [xx.] Metered **Flow** means a device engineered to measure the amount of water discharged during mine dewatering **operations**. The device shall be equipped with a totalizer that records the cumulative amount of water discharged. The totalizer shall be protected from being reset. The device shall be calibrated at least once annually.

b. (No change).
B. Definitions
1. Stormwater Definitions
a. (No change).

i. – x. (No change)

xi. "Hydraulic Control" means the ability to contain hydraulically a 10-year 24-hr storm event (6" of rain) and have no discharges to surface water. [The areas to be contained are areas including the mining pit or basin, and any other mine dewatering structures.]

xii. – xvii. (No change)

xviii. "Process wastewater" means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product. For purposes of this permit stormwater which comes in contact with aggregate stockpiles (stockpiles used on-site for daily operations), is not considered to be process wastewater. Process wastewater includes, but is not limited to, mine dewatering , contact cooling water, **non-contact cooling water,** vehicle washwater, sand washing water, and boiler blowdown.

xix. –xxiv. (No Change)

xxv. Untreated quarry dredge materials" means material from a basin or impoundment that has only stormwater or ground water that has not come in contact with process **waste**water, or with stormwater and/or process **waste**water that has been treated with any chemical settling aid.

Stormwater

A. Requirements For All Facilities
1. Drainage Control Plan
a. (No change)
b The Drainage Control Plan **(DCP)** shall be incorporated into the facility's SPPP.
c. . Design and Submit a Drainage Control Plan **with the option of gaining hydraulic control** within 6 months from the effective date of permit authorization (EDPA). This plan shall be submitted with the Certification Form provided by the Department for the Department's review
d. The Permittee shall fully implement the Drainage Control Plan within twenty-four (24) months of the EDPA. Should **the permittee choose the option of gaining hydraulic control, the permittee is still responsible for monitoring the discharge(s) while the design is being implemented.** This plan shall be developed and updated whenever necessary to reflect the current conditions at the facility.
e. (No change)

2. Mine Dewatering

a.-c. (No change)

d. Pumping shall only be conducted during periods of no precipitation, and at no time create [turbid conditions into surface water body] flooding, exacerbate erosion, **stream bank scouring, and/or sedimentation within the surface water body.**

3. Hydraulic Control [Mine Dewatering]

a.-b. (No change)

c. Design and Construction:

i-iii. (No change)

iv. [The] Hydraulic Control **shall be reflected within the contents of the DCP, which** [Plan] shall be signed, dated and certified by a Professional Engineer.

d. (No change)

4. (No Change)

5. Records of the use of all settling aids and gel logs shall be maintained on a monthly usage log [(Attachment F or equivalent)] including date, time, name of product used, amount of product used, gallons of water treated and calculated dose. The monthly log shall be verified and signed by an authorized employee.

6.-7. (No Change)

8. Summary Report – Temperature Monitoring

a. The permittee shall prepare a Summary Report - Temperature Monitoring for **process wastewater** [direct process water], **and** mine dewatering [and stormwater discharges], summarizing the results for all temperature monitoring data collected during the first twenty-four (24) months of the EDPA. The summary shall include copies of DMRs for temperature monitoring, copies of [the quarterly] **temperature** [Attachment G] logs, and summary of the BMPs implemented that facilitated compliance of the numeric effluent limitations. Any additional BMPs that resulted from incidence of noncompliance shall be noted in this report. The permittee shall list the date that the samples were taken and list the months that the facility was not in operation (if applicable).

b. (No change)

9. – 11. (No Change)

a-d. (No change)

B. Discharges to C1, Trout Production and Trout Maintenance Streams

1. Discharge Requirements

a. Existing facilities are permitted to discharge to C1, Trout Production and Trout Maintenance waters subject to the sampling requirements of Part III Tables of this permit.

b. The temperature limit over the initial phase of the permit is 75 degrees F for process waste water and mine dewatering discharges to surface waters designated as trout maintenance and trout production waters in Water Quality Standards (N.J.A.C. 7:9B)

C. Monitoring

1. Monitoring Requirements

a. – c. (NoChange)

d. Initial Phase

i. Monitoring shall be required for stormwater, process water and mine dewatering discharges to surface water on a quarterly reporting schedule with no more than one (1) sample taken per quarter.

ii [i.] For [direct] process **waste**water and stormwater discharges, permittee shall have analytical data for a minimum of six (6) samples for each outfall as outlined in Part III of permit. The six (6) samples shall be taken within twenty-four (24) months of the EDPA. [The samples shall be taken between May and October during a valid storm event.] If the permittee controls the discharge, the samples shall be taken at the time of the discharge.]

[ii. For mine dewatering of less than six (6) samples, the permittee must show that the number of samples taken + number of months of NODI = 12 for the initial phase. The samples shall be taken at the time of the discharge and shall be taken between May and October. Discharges shall be during periods of no precipitation.]

e. Final Phase (beginning 24 months after the EDPA)

i. Monitoring shall be required for stormwater, process wastewater and mine dewatering discharges to surface water on a quarterly reporting schedule with no more than one (1) sample taken per quarter.

ii. [i.] For [direct] process **waste**water and stormwater discharges, permittee shall have analytical data for a minimum of six (6) samples for each outfall as outlined in Part III of permit. The six (6) samples shall be taken beginning twenty-four (24) months after the EDPA. [The samples shall be taken between May and October during a valid storm event.] If the permittee controls the discharge, the samples shall be taken at the time of the discharge.

[ii. For mine dewatering of less than six (6) samples, the permittee must show that the number of samples taken + number of months of NODI = 18 for the final phase. [The samples shall be taken at the time of the discharge and shall be taken between May and October. Discharges shall be during periods of no precipitation.].

f. – g. (No change)

2. Additional Monitoring Requirements for Quarries with Hot Mix Asphalt Plants

a. (No change)

b. Six (6) samples shall be taken in the first twenty-four (24) months after the EDPA **on a quarterly reporting schedule with no more than one (1) sample taken per quarter**. The remaining six (6) samples shall be taken during the balance of the permit cycle **on a quarterly reporting schedule with no more than one (1) sample taken per quarter**.

[c. Eight (8) of the samples shall be taken from April through October, three (3) of the samples shall be taken from November through March and one (1) sample can be taken at anytime during the permit cycle.

d. A minimum of one (1) annual sample shall be taken from April through October.

e. One (1) annual sample shall be taken from November through March for three (3) of the five (5) years in the permit cycle.

f. For facilities using settling aids and/or gel logs, the permittee shall also have analytical data for six (6) acute toxicity tests.]

c. [g.] Permittee shall enter CODE = N for all parameters for any month that sampling is not done as part of the requirements.

3. Additional Monitoring Requirements for Quarries with Concrete Products Manufacturing Plants

a. (No change)

i. [Quarterly] **S**[s]ampling shall be required for stormwater-only discharges to surface water**; on a quarterly reporting schedule with no more than one (1) sample taken per quarter**.

ii. Stormwater-only discharges shall meet benchmark concentration limits [(Part III Table titled SCPM Concrete Plant Stormwater, Phase Benchmark)]. If a parameter excursion occurs twice consecutively or six (6) times within the five (5)-year term, the effluent limits [(Part III Table titled SCPM Concrete Plant Stormwater, Phase Mandatory Limits)] shall go into effect until otherwise directed by the Department;

iii. (No change)

iv. Facilities that discharge concrete washout wastewater or concrete washout wastewater commingled with stormwater shall meet the effluent limitations in Part III [Table titled PCPM Concrete Plant Wastewater].

4. Toxicity Testing Requirements

a. The permittee shall conduct **six (6)** toxicity tests **for facilities who use settling aids and/or gel logs** on its discharge of treated waters at the outfall to determine the whole effluent toxicity of the discharge.

b-f. (No change)

5. Temperature Monitoring [Mine Dewatering].

a-c. (No change)

d. The permittee shall keep a daily log and record the total gallons discharged and the highest discharge temperature for that day [(Attachment G)]. Records of the daily log shall be kept on file for a minimum of five (5) years.

e. (No change)

f. Stormwater only discharges are not required to monitor for temperature.

D. – H. (No Change)