Minnesota Pollution Control Agency

ATTACHMENT FOR CONSTRUCTION SAND & GRAVEL, ROCK QUARRYING AND HOT MIX ASPHALT PRODUCTION FACILITIES

MPCA USE ONLY Application Number		
MN		
Date Received		
Year	Month	Day

National Pollutant Discharge Elimination System (NPDES)/ State Disposal System (SDS) Permit

Please type or print in black ink pen to complete this form. If the answer will not fit in the space, attach additional sheets as needed. To expedite the permitting process, please ensure that the application form is filled out completely and accurately. Preparation of this application form does not necessarily require the assistance of an engineer, environmental consultant, attorney or certified public accountant. Please copy all completed forms for your records before providing them to the MPCA.

PERMITTEE: _____

This "Aggregate/Hot Mix" form must be completed along with a completed "MPCA Water Quality Transmittal Form," and submitted together with the Transmittal Form to the MPCA. Complete the Attachment, as well as the "Basic Information" for each site, if you are completing this application for multiple sites.

BASIC INFORMATION

1. Answer the following questions for each site(s) for which you are completing this permit application:
   a. Site Name: _____
   b. Public Land Survey (PLS) Coordinates:

i	Do you **excavate sand or gravel for use as aggregate material** at this site? If "yes," what is the average annual production range: >1,000,000 tons/year? ☐ Between 100,000 and 10,000 tons/year? ☐ Between 1,000,000 and 100,000 tons/year? ☐ <10,000 tons/year? ☐	☐Yes	☐No
ii	Do you **quarry stone for use as crushed or aggregate material**? If "yes," what is the average annual production range: >1,000,000 tons/year? ☐ Between 100,000 and 10,000 tons/year? ☐ Between 1,000,000 and 100,000 tons/year? ☐ <10,000 tons/year? ☐	☐Yes	☐No
iii	Do you **wash or otherwise wet-process sand, gravel or stone**? If "yes," what is the average annual production range: >1,000,000 tons/year? ☐ Between 100,000 and 10,000 tons/year? ☐ Between 1,000,000 and 100,000 tons/year? ☐ <10,000 tons/year? ☐	☐Yes	☐No
iv	Do you **quarry dimension stone**? If "yes," what is the average annual production range: >1,000,000 tons/year? ☐ Between 100,000 and 10,000 tons/year? ☐ Between 1,000,000 and 100,000 tons/year? ☐ <10,000 tons/year? ☐	☐Yes	☐No
v	Do you **produce hot mix asphalt** (asphalt concrete)? If "yes," what is the average annual production range: >1,000,000 tons/year? ☐ Between 100,000 and 10,000 tons/year? ☐ Between 1,000,000 and 100,000 tons/year? ☐ <10,000 tons/year? ☐	☐Yes	☐No
If the answer to all of questions i-v is "no," you will need to use a different NPDES/SDS permit application form. Please contact the MPCA at (651) 297-8305 to request a copy of the appropriate permit application form.			

vi	If the answer to any of questions i-v is "yes," would there be **storm water** (precipitation runoff, surface runoff and drainage, street runoff, or snow melt) runoff from any of the site(s) associated with these activities?	☐Yes	☐No
vii	If the answer to question vi is "yes," are any of these site(s) presently covered by an MPCA **storm water NPDES permit**? If "yes," indicate the permit numbers for each site:	☐Yes	☐No
viii	If the answer to question vi is "yes," will you implement a **site-specific** Pollution Prevention Plan **for each of these sites with storm water** before beginning the activities checked in questions i-v at that site? If "no," complete the **Supplement** to this application form.	☐Yes	☐No
ix	If the answer to questions ii and/or iv (quarries) is "yes," would there be **quarry or mine pit dewatering** from any of the site(s) associated with these activities? If "yes," complete the **Supplement** to this application form.	☐Yes	☐No
x	If the answer to question i (sand and gravel mining) is "yes," would there be mine pit dewatering from any of the site(s) associated with these activities?	☐Yes	☐No
	If "yes," would the pit dewatering be discharged to: Lake Superior?	☐Yes	☐No
	the Kettle River?	☐Yes	☐No
	the Rum River?	☐Yes	☐No
	the watershed of DNR-designated trout waters? [trout waters locations may be obtained from the DNR at 651/296-3325]	☐Yes	☐No
	DNR-designated Scientific & Natural Areas (SNAs)? [SNA locations may be obtained from the DNR at 651/297-2357]	☐Yes	☐No
	DNR-posted fish-spawning areas?	☐Yes	☐No
	If any of the previous 6 answers is "yes," complete the **Supplement** to this application form.		
xi	If the answer to question iii (washing) is "yes," would there be a **discharge to surface waters**, such as to ditches, wetlands, creeks, etc., that includes this wash or wet-process water? If "yes," complete the **Supplement** to this application form.	☐Yes	☐No
xii	If the answer to question v (hot mix) is "yes," would a **wet scrubber** or other wet wash or spray process be used for air emissions control?	☐Yes	☐No
xiii	If the answer to question xii is "yes," would there be **chemicals added** to this water? If "yes," identify these additives:	☐Yes	☐No
xiv	If the answer to question v (hot mix) is "yes," do you either recycle all **used asphalt pavement**, and/or dispose of it in a sanitary or a demolition debris landfill?	☐Yes	☐No
xv	Do you conduct any **equipment or vehicle maintenance, fueling, washing, or cleaning**?	☐Yes	☐No
xvi	Do you **discharge cooling water** (for example, from boilers, power generators, refrigeration)? If "yes," complete the **Supplement** to this application form.	☐Yes	☐No

2. Number of employees at those site(s) for which you are completing this permit application (optional): _____

3. If the site(s) for which this application is completed are approvable for coverage under NPDES/SDS general permit MN G490000 (a multiple-site coverage permit), the MPCA will notify you of coverage under this permit, unless you show your preference here for coverage: under an individual NPDES/SDS permit (☐); general industrial storm water NPDES/SDS permit MN G611000 (☐); or another general NPDES/SDS permit (☐ for permit MN _____).

4. If a site for which this application is completed is a new or expanded facility, has an Environmental Impact Statement (EIS) or an Environmental Assessment Worksheet (EAW) been prepared? ☐ Yes ☐ No
   If yes, note the title and date: _____
   If the EIS or EAW has not yet been completed, check here ☐

CERTIFICATION AND SIGNATURE

Federal regulations (Section 309(c)(2) of the Clean Water Act and State regulations (Minn. R. 7001.0070) require the authorized signer to be one of the following:

- **A. For corporation, a principal executive officer of at least the level of vice president;**
- **B. For a partnership or sole proprietorship, a general partner or the proprietor, respectively; or**
- **C. For a municipality, State, Federal, or other public facility, either a principal executive officer or ranking executive official.**
- **D. If the operator of the facility is different than the owner, both the operator and the owner according to items A to C.**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

PRINTED NAME _____ TITLE _____

AUTHORIZED SIGNATURE_____DATE_____

STATE TAX I.D. # _____ FEDERAL TAX I.D. # _____

<u>Reminder</u>:

Did you sign this attachment?
Did you enclose the Transmittal Form?
Attach your application fee?
Enclose completed attachments?

Applications submitted without an authorized signature, the required application fee and attachments, <u>will be returned</u>. Please make your check payable to the Minnesota Pollution Control Agency.

Thank you for your time in filling out this water quality permit application form. If you have any questions, please contact the MPCA at (651) 296-7162.

SUPPLEMENT

Complete this permit application **Supplement** only if indicated by answers to the permit application form questions. The **Supplement** gathers more site-specific information for certain facilities that may pose greater water quality concerns. If you need to complete this **Supplement**, you must complete **a separate permit application** form and **Supplement**, with separate application fees, **for each site** that requires NPDES/SDS permit coverage. **You need to provide a complete permit application and Supplement at least 180 days before the planned date of starting new discharges such as gravel pit dewatering in trout stream watersheds, quarry pit dewatering, and gravel washing discharges.**

S1. Name of Facility Site: _____
Name of Contact Person for the Site: _____ Title: _____
Facility Site Street/Road Address (not P.O. Box): _____
City: _____ State: MN Zip: _____ Telephone No.: ( ) _____
County: _____ Section __, Township T___N, Range R___

S2. The wastewater (for example, storm water, pit dewatering, sand and gravel washing wastewater, scrubber wastewater, vehicle wash wastewater, contaminated ground water pumpout, boiler blowdown, non-contact cooling water or sewage) from the facility will be routed to (check all that apply):

☐ Surface water, name(s): _____
☐ Municipal storm sewer ☐ Municipal sanitary sewer
☐ Storm water retention basin or pond ☐ Septic tank/drainfield
☐ Other, please specify: _____

S3. What is the reuse potential of the water before discharge to surface waters? Have you considered, for example, water conservation measures, or use of the water for industrial process water supply, cropland or lawn irrigation?

S4. Intake water supply includes all make-up water supplied to the facility. The rate of water supply can be estimated from water supply meter readings, water utility billing statements, or pump capacity (in gallons per minute) times 60 times the average number of hours the pump operates per day.

What is the source of the intake water supply for the facility? Rate of supply (gallons/day)?
☐ Municipal water supply, city name: _____ _____
☐ Ground water, intake location: _____ _____
☐ Surface water, name(s): _____ _____

Is the intake water supply chlorinated or otherwise disinfected? ☐ Yes ☐ No

If this is a non-municipal water supply, have you already obtained a Minnesota Department of Natural Resources (DNR) water appropriations permit?
☐ Yes ☐ No Not Applicable ☐
If "yes," what is the DNR permit number? DNR permit expiration date?

If you have questions about water appropriation permitting, please contact the DNR at (651) 296-4800.

S5. Provide representative results from tests taken during the past year for each of the following in the projected

discharge. If more than one discharge point is involved, attach additional copies as needed.

Temperature minimum & maximum (degrees Fahrenheit) _____

pH minimum & maximum _____

Turbidity maximum (NTU) _____

Total suspended solids maximum (mg/L) _____

Total phosphorus maximum (mg/L) _____

Other potential pollutants (for example, metals, ammonia, nitrate, nitrite, salts, residual chlorine, fluoride, oil and grease, polychlorinated biphenyls, phenols, polynuclear aromatic hydrocarbons, and/or volatile organic compounds) _____

The time when you sample, including for a new proposed discharge, must be representative of the projected discharge wastewater quality. Please clearly indicate with the test results the specific dates, locations and methods of sampling.

If this is an application for reissuance of an existing permit, please review your existing NPDES/SDS permit to see if it has special testing requirements for permit reissuance. If so, be sure to comply with those requirements. The existing permit also may have special requirements for reports or other submittals for the application for permit reissuance. Failure to complete the application for reissuance of a permit as required by the permit is a violation of the permit itself and is subject to enforcement action.

S6. Are there ground water monitoring wells at your facility? ☐ Yes ☐ No

If yes, describe where they were installed (include map with wells identified). Include location, type, and depth of all wells: _____

S7. Indicate the name of the laboratory that will analyze your samples: _____

Indicate the Minn. Department of Health (MDH) Laboratory Certification No. for this laboratory:

MDH rules require that all laboratories conducting wastewater tests be certified. To help ensure the precision and accuracy of water quality test results, the MPCA accepts laboratory data only from MDH-certified laboratories. (Dissolved oxygen, pH, temperature and total residual chlorine analyses do not need to be done by a certified laboratory; these analyses shall be conducted as soon as practicable after sample collection, and no later than one hour after collection.)

S8. List below all chemical additives that are used or proposed to be used at the facility. This must include all process reagents, flocculants, biocides, wastewater treatment chemical additives, chlorine or other disinfectants, detergents, cleaning products, chemical dust suppressants, freeze conditioning agents, etc.

Product Name	How often added	Where used	Average rate of use (weight or volume/year)

Attach information on chemical composition, aquatic toxicity, human health, and environmental fate for each proposed chemical additive (**attach** Material Safety Data Sheets and complete product labels for each additive).

S9. Does the facility discharge non-contact cooling water (for example, power generation, refrigeration, boilers, etc.)? ☐ Yes ☐ No

If "yes," is this once-through (☐) or recirculating (☐)?

Are there any chemical additives to this waste stream? ☐ Yes ☐ No

If "yes," list additives:

S10. What is the fate of the sewage generated by the facility (for example, septic tank and drainfield, routing to municipal sanitary sewer, portable containment systems)?

S11. Describe completely your wastewater treatment system and, for permit reissuance or modification, note any changes made since this permit was last issued (include additional sheets, if needed):

S12. Indicate the information requested for each discharge point. Discharge points include, for example, pipes and culverts. Type of wastewater refers to, for example, storm water, pit dewatering, sand and gravel washing wastewater, scrubber wastewater, vehicle wash wastewater, contaminated ground water pumpout, boiler blowdown, non-contact cooling water or sewage. Route to receiving waters is, for example, "to unnamed wetlands adjacent to Black Lake", "to an unnamed ditch to the Cottonwood River", "to Twin Lakes" or "to an unnamed pond adjacent to Lake Cornelia via storm sewer."

Discharge Point/ Outfall #	Discharge flow rate, million gallons per day		Type of wastewater	Flow duration and frequency			Where will discharge go? What route will it take to surface receiving waters?
	Average	Maximum		Months of flow	Days/ week	Hours /day	

S13. Describe how and where the sediments and sludges removed from the wastewater treatment systems at the facility are disposed of:

S14. **Attach** a schematic diagram (flow chart) showing the route(s) of wastewater flow through the plant, mine and quarry areas from the intake(s) to the point(s) of discharge. Indicate all supplies of intake water, as well as the wastewater collection and treatment units. Show all operations contributing wastewater, including: process and production areas, pit walls, crushing and screening areas, fuel and other materials storage areas, stockpiles, conveyors, loading and unloading sites, roads and parking areas, buildings, vehicle and equipment cleaning and maintenance areas, hot mix plants, truck box cleaning sites and sediment storage sites. Include the location of all discharge points, including the directions of storm water runoff, on the flow chart. The diagram should show average flows, using actual measurements whenever available; otherwise use best estimates.

S15. **Attach** a detailed map of the facility, wastewater treatment systems, discharge points, sampling points and receiving waters. The map should be based on a 7.5-minute U.S. Geological Survey quadrangle, County Soil Survey, or County Plat location map. On this map, identify nearby surface waters.

ATTACHMENT (for multiple sites per application)

Listing of Aggregate and Hot Mix Asphalt Sites by PLS Coordinates

List all aggregate and hot mix asphalt sites owned or operated by the same company along with the Public Land Survey (PLS) coordinates for the site, and the corresponding activities at that site. This information will be used to determine if multiple sites owner by the same company can be covered under a single general permit.

Example: JTs Excavation and Blasting owns and operates 4 pits and quarries throughout southern Minnesota. 3 of the pits are sand and gravel pits, and 1 is a limestone quarry with a portable hot mix asphalt plant. They wash sand at 1 of the sand and gravel pits (but only have storm water discharge at the other 2) and must pump out water from the pit at the limestone quarry, but do not have any wash water or any water from the hot mix plant. The chart below would be filled out as follows (putting numbers in for the x's in the PLS coordinates):

Site Name, County PLS Coordinate (Twp, Range,Section, Qtr-Section)	Sand/ Gravel Storm Water	Sand/ Gravel Pit Dewater-ing	Sand/ Gravel Washing	Limestone and other Quarry Storm water	Limestone and other Quarry Dewatering	Limestone Washing	Other, incl. Hot Mix Asphalt (explain below)
Sample S&G 1, Mower TxxxN, RxxW, secxx, SE ½	X						
Sample S&G 2, Fillmore TxxxN, RxxW, secxx, NE ¼,	X		X				
Sample S&G 3, Fillmore TxxxN, RxxW, secxx, NW ¼	X						
Sample Lime 1, Olmsted TxxxN, RxxW, secxx, SW ¼				X	X		X* (explain)
1.							
2.							
3.							
4.							

Description of "Other":

☐ More quarries sites listed on reverse side.

Site Name, County PLS Coordinate (Twp, Range,Section, Qtr-Section)	Sand/ Gravel Storm Water	Sand/ Gravel Pit Dewater-ing	Sand/ Gravel Washing	Limestone Storm water	Limestone Pit Dewatering	Limestone Washing	Other (explain below)
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							