

## MINING PROJECT INFORMATION MODULE

### Water Withdrawal, Consumptive Use, and Related Features for SRBC Determination

#### Purpose/Use

This module is provided as a guide for project sponsors and consultants for compiling and providing information regarding the water use associated with a proposed or current mining operation. The information will be used by the Susquehanna River Basin Commission (SRBC/Commission) staff to facilitate coordination with the state regulatory agency and appropriate mining department, and to complete a preliminary determination if the project will be required to prepare and submit application(s) for review and approval by the Commission for consumptive use and/or water withdrawal(s) or diversions. Additional information and definitions are provided at the end of this module in Sections E and F.

#### Section A. Project Information

1. Project Sponsor:

Project Sponsor Name:	
Authorized Representative:	
Title:	
Project Sponsor Address:	
E-mail:	
Telephone:	

2. Facility Information:

Facility Name:	
Authorized Facility Contact:	
Title:	
Facility Coordinates (Lat, Long):	
Facility Municipality(ies):	
Facility County(ies):	
State:	
E-mail:	
Telephone:	

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3. **General Facility Description:** Provide a summary that describes facility operations, including type of material being extracted, dewatering activities, material handling/processing, dust suppression, and other pertinent details. Maps can be attached as needed.

**Section B. Withdrawals**

1. In the table below, list all withdrawal sources with location coordinates (latitude and longitude in NAD83) that will be used for this project. These sources may include wells, surface water (streams, lakes, etc.), springs, quarry sumps/pit dewatering, and stormwater. Provide the estimated or actual maximum consecutive 30-day average water withdrawal quantity and maximum instantaneous withdrawal rate for each source listed.

Withdrawal Source	Latitude	Longitude	Maximum 30-Day Average (mgd)	Withdrawal Rate (gpm)	Purpose
mgd – million gallons per day gpm – gallons per minute					

	Peak Day (mgd)	30-Day Average (mgd)
<b>Total Combined Withdrawal(s)</b>		

2. Will or does the quarrying/mining activity include dewatering activities?  Yes  No

If “Yes,” complete table below to include the source name(s), coordinates, peak day withdrawal in million gallons per day, 30-day average withdrawal in million gallons per day, and if an NPDES/SPDES permit is required and existing permit number, if applicable:

Source	Latitude	Longitude	Peak Day (mgd)	30-Day Average (mgd)	NPDES/SPDES Permit Needed/Number

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- Provide an estimate of the surface area and capacity of existing or planned processing water impoundments (sumps, tanks, pits, ponds, etc.). If a flooded pit or pond is created with the removal of material and is not used for processing, it should not be included. A map may be attached as appropriate.

Source/Impoundment	Surface Area (acres)	Storage Capacity (gallons)

**Section C. Project Consumptive Use (see definition in Section F below)**

- Provide an estimate of the quantity of material that is, or will be, extracted per day:

Tons/day:

Material Type:

- Will or does materials processing occur on the site?  Yes  No

If “Yes,” complete the table below for the proposed and existing crushing, screening, incorporation into the product, cleaning, and stockpiling activities. Include an estimate of water use per ton of material processed and the number of tons per day processed.

Activity	Water Use (gallons)/Ton	Product Moisture Percentage*	Tons/Day Processed	30-Day Average (mgd)
* Measure weight of wet product after processing ( $W_{wet}$ ), measure weight of same volume of product dry ( $W_{dry}$ ), use following formula to calculate percent moisture: $[(W_{wet} - W_{dry})/W_{dry}] \times 100$ . Moisture percentage may also be derived from laboratory testing.				

- Is water used or planned for use to control dust at the site?  Yes  No
- If the answer to No. 3 above is “Yes,” provide an estimate of the acreage of access roads, haul roads, public roadways, and processing areas that require dust suppression by water application, including acreage for public roadways that may require street washing/sweeping.

Acreage of dust suppression by water application:

Provide an estimate of water use per acre (gallons/acre):

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5. If planned or current dust control or material handling activities use water, provide existing (or anticipated) peak day use and maximum consecutive 30-day average water use for each activity individually (i.e., materials processing, incorporation into the product [such as required moisture content], dust suppression, truck and equipment washing, etc.) and as a total combined for all activities in the tables below. In addition, provide a description (explanations or descriptions can be provided by attaching sheets, if needed) of how these quantities are measured or estimated for each separate use or activity. Provide the hours and days of operation, as well as any unit rates, used to determine the requested quantities.

Description of peak day and maximum consecutive 30-day average water use for each activity and measurement method (e.g. metered, number of trucks) (attach additional sheet[s], if necessary):

Activity	Maximum 30-Day Average (mgd)	Peak Day Use (mgd)	Measurement Type	Hours and Days Operated

	Peak Day (mgd)	30-Day Average (mgd)
<b>Total Consumptive Use</b>		

6. Provide a description of any additional water use not specifically requested or described above (attach additional sheet[s], if necessary):

**Section D. Signature**

I, the duly authorized representative of the corporation or entity identified in Section A of this module, certify that the information contained herein and all information accompanying this module is to the best of my knowledge, and that I am authorized to act on behalf of the project sponsor.

Signature:	
Printed Name:	
Date:	

**Section E. Additional Information**

The Commission’s regulatory consumptive use, withdrawal, and diversion thresholds as established by 18 CFR § 806.4(a) are provided below:

1. Consumptive use of an average of 20,000 gallons per day (gpd) or more in any consecutive 30-day period.
2. Withdrawal of groundwater or surface water, or a combination of such withdrawals, of an average of 100,000 gpd or more in any consecutive 30-day period.
3. Diversion of water out of the basin of an average of 20,000 gpd or more in any consecutive 30-day period.
4. Any diversion of water into the basin.

Operations that meet or exceed these thresholds would be required to prepare and submit appropriate applications to the Commission for review and approval, unless otherwise exempted or authorized in accordance with administrative agreements as entered into between the Commission and the appropriate state regulatory agency.

Administrative Agreements: The Commission has executed an administrative agreement through a Letter of Understanding (LOU) with the Pennsylvania Department of Environmental Protection (PADEP), effective April 27, 2022, that includes guidance on concurrent review and coordination for withdrawals and consumptive use for mining operations within the SRBC as provided in Appendix 5 of the LOU (<https://www.srbc.gov/regulatory/policies-guidance/docs/regulatory-coordination-srbc-padep-mou.pdf>). The purpose of the LOU is to avoid duplication of work and to facilitate cooperation between the Commission and other government agencies.

**Section F. Definitions**

Consumptive use: The loss of water transferred through a manmade conveyance system or any integral part thereof (including such water that is purveyed through a public water supply or wastewater system) due to transpiration by vegetation, incorporation into products during their manufacture, evaporation, injection of water or wastewater into a subsurface formation from which it would not be reasonably be available for future use in the basin, diversion from the basin, or any other process by which the water is not returned to the waters of the basin undiminished in quantity.

NPDES: National Pollutant Discharge Elimination System – permit required for discharges of wastewater or stormwater.

SPDES: State Pollutant Discharge Elimination System – permit in New York required for discharge of wastewater or stormwater into ground or surface waters.