



NONMETALLIC MINING SUPPLEMENTAL INFORMATION SHEET

File #: _____
Office Use Only
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WHAT TO INCLUDE WITH YOUR NONMETALLIC MINING PERMIT APPLICATION

General Application Requirements

(Refer to Section 14.4 of the St. Croix County Nonmetallic Mining Ordinance)

- The permit application must be completed and signed by the landowner and the operator.
- To avoid duplication, the application may reference information already on file with the Zoning Administrator.
- In addition to the information requested on the permit application form, you must also provide the following information:
 - The name, address, telephone number and e-mail address of all persons or entities who are owners or lessors of the property on which the nonmetallic mining site is located.
 - The name, address, telephone number and e-mail address of any operator of the nonmetallic mining operation.
 - The legal description and parcel identification number of the property on which the nonmetallic mining site is located.
 - A copy of a fully executed lease between the operator and the owner of the property on which the nonmetallic mining site is located and/or an agreement between the operator and owner to conduct a nonmetallic mining operation on the owner's property.
 - An aerial photo at a scale of 1 inch = 660 feet, showing the name of the operator and boundaries of the nonmetallic mining site.
 - A map drawn to a scale of not less than 1 inch = 200 feet showing (all horizontal measurements shall be referenced to a permanent reference point of the St. Croix County coordinate system):
 - The name of the operator.
 - The town within which the nonmetallic mining site is located.
 - The boundaries of the nonmetallic mining site.
 - The total acres of the nonmetallic mining site.
 - The location and name of all roads in and within one mile of the nonmetallic mining site boundaries including temporary roads.
 - The location and name of all lakes, ponds and flowages, rivers, streams, wetlands, drainage patterns and other water features in and within 1200 feet of the nonmetallic mining site boundaries.
 - The location of all private and municipal wells within 1200 feet of the nonmetallic mining site boundaries.

- The components of the operation, including buildings, other structures, equipment, stockpiles, storage areas and parking areas. For existing nonmetallic mining sites, show the boundaries of previous excavations, stockpiles, sediment basins, wash plants and areas previously mined.
 - The location and identity of all man-made features on or adjacent to the site.
- A topographic map of the nonmetallic mining site and 200 feet beyond the site boundaries at contour intervals no wider than 10 feet.
 - The length, width and depth of the excavation, and the elevation of observed or estimated groundwater within and adjacent to the site determined by existing hydrogeologic information. In specific instances where the existing hydrogeologic information is insufficient for purposes of the reclamation plan, the applicant may supplement the information with the opinion of a licensed professional geologist or hydrologist. All horizontal and vertical measurements shall be referenced to a permanent reference point of the St. Croix County coordinate system.
 - The distribution, thickness and type of topsoil on the site.
 - The geological composition and depth of the nonmetallic deposit.
 - Information about the biological resources, plant communities and wildlife use on and adjacent to the nonmetallic mining site.
 - An operation plan. See §14.5 for operation plan requirements.
 - A reclamation plan. See §14.6 for reclamation plan requirements.
 - All required fees. Fees are listed in a fee schedule maintained by the Zoning Administrator.
 - Additional relevant information deemed necessary by the Zoning Administrator to apply all applicable ordinance requirements and standards.
 - An application fee shall be paid at the time an application for a nonmetallic mining permit is submitted. The fee's purpose is to contribute to or cover the cost of processing and reviewing the application, publishing public notices, conducting public hearings and inspecting nonmetallic mining sites prior to permitting.
 - The amount of the application fee shall be established by the Zoning Administrator with the approval of the St. Croix County Planning and Zoning Committee. The amount of the fee shall be modified from time to time to reflect current costs. The fee shall be published by the Zoning Administrator in a current fee schedule.
 - An additional fee shall be paid when a request to modify an existing permit is made by the operator. The fee shall be for the same purposes and in the same manner as stated in par. a.

Additional Requirements for Mining into Groundwater

(Refer to Section 14.2 A.8 of the St. Croix County Nonmetallic Mining Ordinance)

- For sites with planned excavation lower than the groundwater table, the operator shall submit a detailed hydrogeologic report. The operator shall be required to reimburse the county for the expense of professional work or opinions in review of a hydrogeologic report if recommended by staff or the Board of Adjustment. The hydrogeologic report shall provide the following information, as well as a description and justification of all hydrologic methods used:
 - ❑ Existing conditions to establish baseline data, including but not limited to:
 - Analysis of groundwater quality on the mining site consistent with Wisconsin Administrative Code Chapter NR 140.20.
 - Identification of all known contaminated groundwater resources within one-half mile of the mining site.
 - Identification of all karst features such as sink holes, stream sinks, springs, caves, joints, or fractures within one-half mile of the mining site.
 - Identification and elevation of all surface waters and headwaters within a minimum of one-half mile of the mining site. Elevations must include the existing water level, as well as the ordinary high water mark where applicable.
 - Identification of all existing groundwater users (neighboring private water-supply wells, well head protection areas, municipal wells, irrigation wells, and etc.) within 1200 feet of the mining site consistent with Wisconsin Administrative Code Chapter NR 812. Well construction reports including well location, well depth, depth of casing, depth to water, and aquifers penetrated should be identified.
 - Elevation of the groundwater table, groundwater flow directions, and groundwater velocities.
 - All information in b) – e) above shall be presented in the form of contour maps and multiple geologic cross-sections passing through the proposed excavation and all areas of concern. All horizontal and vertical measurements shall be referenced to a permanent reference point of the St. Croix County Coordinate System.
 - ❑ Proposed operational data, including but not limited to:
 - Elevation of the lowest point of mining and dewatering activities below groundwater.
 - Description of the means planned to prevent surface water running into the excavation.
 - Where dewatering is proposed, provide pumping rates and times; elevation of the groundwater draw down level; and identification of groundwater discharge locations and quantities.
 - A groundwater monitoring program to ensure compliance with a. and b. above. Such program should include the installation of monitoring wells near the site perimeter of the proposed area of excavation to measure groundwater elevations, quality, flow directions, and velocities.

Operation Plan Requirements

(Refer to Section 14.5 of the St. Croix County Nonmetallic Mining Ordinance)

- Nonmetallic mining shall be conducted in accordance with a written operation plan. An operation plan shall be submitted with the application for a nonmetallic mining permit.
- Intermittent mining may be conducted provided that intermittent cessation of the operation is addressed in the nonmetallic mining permit, no environmental pollution or erosion will occur, and financial assurance is maintained for areas of intermittent mining not reclaimed.
- The operation plan shall contain the following information:
 - The name of the operator and location of the nonmetallic mining site.
 - The dates of commencement and cessation of the operation.
 - A description of the mining methods that will be used to extract and process the material.
 - A description of the machinery and equipment to be used.
 - The estimated volume of material to be removed on an annual basis.
 - The estimated total volume to be removed throughout the duration of the mine.
 - Proposed travel routes.
 - Days and hours of operation.
 - Measures to be taken to screen the operation from view of adjacent land, temporary erosion control measures, and measures to be taken to minimize noise and dust during operation.
 - Method of topsoil stripping and storage. The estimated daily quantity of water required, water source, and method of disposing of water.
 - Where mining into groundwater is proposed, additional operational data as required in § 14.2 A.8.d.2.
 - Any other information deemed necessary owing to the uniqueness or other special circumstances of a site, site owner, operator or application.

Reclamation Plan Requirements

(Refer to Section 14.6 of the St. Croix County Nonmetallic Mining Ordinance)

- Nonmetallic mining sites shall be reclaimed in accordance with a written reclamation plan. A reclamation plan shall be submitted with the application for a nonmetallic mining permit.
- The reclamation plan shall specify a post-mining land use for the nonmetallic mining site. The post-mining land use shall comply with the county zoning ordinance, and all applicable federal, state and other local plans, ordinances, rules and regulations.
- Nonmetallic mining conducted on land zoned for exclusive agricultural use pursuant to Wisconsin Statutes § 91.71 – 91.79 shall be restored to an agricultural use.
- After the operator has stated that reclamation is complete but prior to the release of the financial assurance, the operator shall maintain the reclaimed site as may be necessary to prevent erosion, sedimentation or environmental pollution, or meet the requirements of the reclamation plan.
- The reclamation plan shall contain the following information:
 - The name of the operator and the location of the nonmetallic mining site.
 - An overview of the reclamation plan, including the post-mining land use and the methods and sequence for completion.
 - A drawing or map which shows roads, buildings and other structures remaining after reclamation.

- A drawing or map which shows the topography of the site and any water impoundments or artificial lakes needed to support the land use after reclamation.
- A description of and the volume of topsoil and/or topsoil substitute material and other earth materials, to be used to complete reclamation, and the methods for stripping, storing, stabilizing, reapplying and conserving these materials during reclamation. If off-site material is used, a description of the source, type and volume of that material shall be included.
- A description of the earthwork and related activities, including final slope angles, high wall reduction, benching, terracing and other structural slope stabilization measures, and if necessary a site-specific engineering analysis performed by a professional engineer.
- An estimate of the total cost of reclamation and, if applicable, the cost of each stage of reclamation.
- A description of erosion control measures to be employed during reclamation activities.
- A description of the disposition of man-made features and related facilities after cessation of mining.
- An estimate of the total cost of reclamation and the cost for each phase of reclamation if it is to be done progressively.
- A description of revegetation, including: timing and methods of seedbed preparation; types and rates of soil amendments; timing, methods and rates of seeding; mulching, netting and/or other methods of soil and slope stabilization.
- A description of erosion control measures to be utilized during reclamation.
- A timetable for reclamation activities.
- A description of any area which will be temporarily reclaimed but subsequently mined again for which the operator will request a partial waiver of annual fees and financial assurance.
- Quantifiable standards for revegetation that show the vegetation will support the post-mining land use, including percent of vegetative cover, plant productivity, plant density and diversity.
- If the post-mining land use returns the nonmetallic mining site to a pre-mining condition, baseline data on the existing plant community for use in evaluating the success of the reclamation.
- A description of how the reclamation plan addresses the long-term safety of the reclaimed mining site. The description shall include a discussion of site-specific safety measures to be implemented at the site and include measures that address public safety with regard to adjacent land uses. Safety measures may include but are not limited to visual warnings, physical barriers, slope modifications such as reclamation blasting, scaling of the rock face, creation of benches. Other measures may be employed if found to be equivalent by a professional engineer.
- A description of the financial assurance. Details of the financial assurance are in §14.7.

- The operator shall provide a signed certification that reclamation will be carried out in accordance with the reclamation plan. In cases where the operator is not the landowner, then the operator shall either obtain a signed certification of the landowner that they concur with the reclamation plan and will allow its implementation or the operator shall provide written evidence that the landowner has been provided with a written copy of the reclamation plan.
- The operator shall keep a copy of the reclamation plan at the nonmetallic mine or, if not practicable, at the operators nearest office.

Financial Assurance Requirements

(Refer to Section 14.7 of the St. Croix County Nonmetallic Mining Ordinance)

- Prior to commencing any mining activities, the operator shall file a financial assurance with the Zoning Administrator which guarantees a specified amount of money available to St. Croix County for reclamation if the operator fails to reclaim, in whole or in part, the nonmetallic mining site.
- If the operator fails to complete reclamation as required, the Zoning Administrator shall arrange for completion of reclamation utilizing whatever amount of the financial assurance is necessary to pay for the reclamation.
- A financial assurance is not required for nonmetallic mining conducted by the state, a state agency, board, commission or department, municipality or other governmental unit.
- The financial assurance shall be in the form of a bond or an alternate form, including cash, certificate of deposit, irrevocable letter of credit, escrow account, and government securities. If the Zoning Administrator grants the nonmetallic mining permit he/she shall approve the form of the financial assurance. If the Board of Adjustment grants the nonmetallic mining permit it shall approve the form of the financial assurance. The financial assurance may be a combination of forms and is subject to the following criteria:
 - The financial assurance shall be available or payable exclusively to St. Croix County.
 - Interest earned on the financial assurance shall be payable to the operator without restriction.
 - The financial assurance shall allow the county to utilize it for progressive and final reclamation.
 - The Zoning Administrator shall periodically review the financial assurance to ensure it is sufficient to cover current reclamation costs.
 - The financial assurance shall be released upon successful completion of the reclamation plan. A portion of the financial assurance shall be released in an amount equal to the cost of a progressive reclamation stage successfully completed.
- The operator of two or more nonmetallic mining sites subject to this ordinance may elect to provide a single financial assurance for those sites in lieu of separate financial assurances for each site.
- If an operator elects to provide a single financial assurance for multiple nonmetallic mining sites, no financial assurance previously provided shall be released until a new financial assurance has been approved.

Notice and Hearing Requirements

All applications for nonmetallic mining operations require an opportunity for a public hearing. Please refer to Section 14.4 A.4 of the Ordinance for more information on notice and hearing requirements for each type of nonmetallic mining permit, and Section 14.4 A.5 of the Ordinance regarding the timeframe for decisions.

**QUESTIONS? Please contact:
St. Croix County Community Development Department, 715-386-4680**