

RECLAMATION PLAN

NAME: _____

ADDRESS: _____

PHONE NUMBER: _____

SITE LOCATION: _____

TOTAL AREA OF MINE: _____

PLAN REQUIREMENTS as specified in Subsection 3.02 of the Polk County Nonmetallic Mining Reclamation Ordinance (NMMRO).

1. Maps of the nonmetallic mining site including the general location, property boundaries, the aerial extent, geologic composition and depth of the nonmetallic mineral deposit, the distribution, thickness and type of topsoil, the approximate elevation of ground water, the location of surface waters and the existing drainage patterns. (NMMRO Subsection 3.02.b.1.)

Map of site: See attached sheet labeled _____.

Map of geologic composition and depth: See attached sheet labeled _____.

Distribution of topsoil: _____

Thickness and type of topsoil: _____

Approximate elevation of groundwater: _____

Location of surface waters and existing drainage patterns: See attached sheet labeled _____.

2. Information available to the mine operator on biological resources, plant communities, and wildlife use at and adjacent to the proposed or operating mine site. (NMMRO Subsection 3.02.b.3.)

Do a site analysis of plant communities and wildlife in and around the mine site.

Make sure to determine whether or not threatened or endangered species inhabit the site.

3. Existing topography as shown on contour maps of the site at a five feet or less contour interval. Polk County Land and Water Resources Department may request greater detail based on site conditions or as required by a Conditional Use Permit. (NMMRO Subsection 3.02.b.4.)

Map of site: See attached sheet labeled _____.

4. Location of manmade features on or near the site. (NMMRO Subsection 3.02.b.5.)

Show the location of buildings, towers, manmade berms, etc. on a plan view drawing.

Map of site: See attached sheet labeled _____.

5. For existing mines, or sites previously affected by mining, a plan view drawing showing the location and extent of land previously affected by nonmetallic mining, including the location of stockpiles, wash ponds and sediment basins. (NMMRO Subsection 3.02.b.6.)

Show all erosion control practices on site map.

Map of site: See attached sheet labeled _____.

6. The reclamation plan shall specify a proposed post-mining land use for the nonmetallic mine site. The proposed post-mining land use shall be consistent with local land use plans and local zoning at the time the plan is submitted, unless a change to the land use plan or zoning is proposed. The proposed post-mining land use shall also be consistent with all applicable local, state, or federal laws in effect at the time the plan is submitted. (NMMRO Subsection 3.02.c.1.)

Proposed post-mining land use for the nonmetallic mine site must take into account current land use and land use needs at the time mining is completed.

Survey the surrounding area to determine what the foreseeable land use for the area is.

7. Land used for nonmetallic mineral extraction in areas zoned under an exclusive agricultural use ordinance pursuant to subch. III of ch. 91, Stats., shall be restored to agricultural use. (NMMRO Subsection 3.02.c.2.)

Check the deed and with the governing township to determine if the property is zoned under exclusive agriculture or in the Farmland Preservation Program.

Zoned Exclusive Agriculture (circle one): YES NO

Farmland Preservation Program (circle one): YES NO

8. A description of the proposed earthwork and reclamation, including final slope angles, high wall reduction, benching, terracing and other structural slope stabilization measures. (NMMRO Subsection 3.02.d.1.)

Include a description of any offsite material brought in and used as fill to obtain desired slopes.

Final reclaimed slopes covered by topsoil or topsoil substitute material may not be steeper than a 3:1 horizontal to vertical incline unless alternative requirements are approved under NMMRO Subsection 3.07. and stable slopes can be demonstrated based on site-specific engineering analysis. (NMMRO Subsection 2.01.e., par. 1 or par. 2)

9. The methods of topsoil or topsoil substitute material removal, storage, stabilization and conservation that will be used during reclamation. (NMMRO Subsection 3.02.d.2.)

Describe where topsoil and subsoil will be stripped, placed, and stabilized.

Identify all onsite and offsite sources of topsoil or topsoil substitute material needed to support revegetation.

Describe erosion control practices that will be used while soils are not stable.

The Wisconsin Construction Site Handbook is recommended for determining adequate erosion control practices for the site.

10. A plan or map which shows anticipated topography of the reclaimed site and any water impoundments or artificial lakes needed to support the anticipated future land use of the site. (NMMRO Subsection 3.02.d.3.)

Map of site: See attached sheet labeled _____.

11. A plan or map which shows surface structures, roads and related facilities after the cessation of mining. (NMMRO Subsection 3.02.d.4.)

Map of site: See attached sheet labeled _____.

12. The estimated cost of reclamation for each stage of the project or the entire site if reclamation staging is not planned. (NMMRO Subsection 3.02.d.5.)

YEAR	Number of Acres	Per Acre Cost of Reclamation	Total Cost per year

Total:

13. A revegetation plan specifying the timing and methods of seed bed preparation, rates and kinds of soil amendments, seed application timing, methods and rates, mulching, netting and any other techniques needed to accomplish soil and slope stabilization. (NMMRO Subsection 3.02.d.6.)

Revegetation using a variety of plants indigenous (native) to the area is favored. (NMMRO Subsection 2.01.h.5.).

The Natural Resource Conservation Service has Conservation Practice Standards that are recommended as guidance for nonmetallic mining reclamation. Critical Area Planting (Standard 342) is recommended for depth of topsoil, seedbed preparation, methods and rates. Mulching (Standard 484) is recommended for mulching.

14. Quantifiable standards for revegetation adequate to show that a sustainable stand of vegetation has been established which will support the approved post-mining land use. Standards for revegetation may be based on the percent vegetative cover, productivity, plant density, diversity, or other applicable measures. (NMMRO Subsection 3.02.d.7.)

Percent vegetative cover, productivity, plant density, diversity, or other applicable measures should be based on preventing erosion.

15. A plan and, if necessary, a narrative showing erosion control measures to be employed during reclamation activities. These shall address how reclamation activities will be conducted to minimize erosion and pollution of surface and groundwater. (NMMRO Subsection 3.02.d.8.)

The Wisconsin Construction Site Handbook is recommended for determining adequate erosion control practices for the site.

Map of site: See attached sheet labeled _____.

16. A description of any areas which will be reclaimed on an interim basis sufficient to qualify for the waiver of fees, as authorized by ch. NR 135.41, Wisc. Admin. Code, and release of financial assurance and which will be subsequently disturbed prior to final reclamation. Descriptions shall include an identification of the proposed areas involved, methods of reclamation to comply with the standards in Section II (NMMRO) and timing of interim and final reclamation. (NMMRO Subsection 3.02.d.9.)

A map can be used to show location.

17. The reclamation plan shall contain criteria for assuring successful reclamation in accordance with NMMRO Subsection 2.01.h. (NMMRO Subsection 3.02.e.)

Performance standards are based on protecting against erosion, protecting groundwater and surface water.

18. A description of how the long-term safety of the reclaimed mining site will be addressed. The description shall include site-specific safety measures to be implemented at the site and include measures that address public safety with regard to adjacent land uses.

19. The operator shall provide a signed certification that reclamation will be carried out in accordance with the reclamation plan. The operator does not own the land, the landowner or lessor, if different from the operator, shall also provide signed certification that they concur with the reclamation plan and will allow its implementation.

I, _____, (operator) certify that reclamation will be carried out in accordance with this reclamation plan.

Operator's Signature

Date

I, _____, (landowner) certify that I have received a copy of the reclamation plan, read it and understand it. I further certify that I concur with the reclamation plan and will allow its implementation.

Landowner Signature

Date

Landowner Signature

Date