

NONMETALLIC MINING RECLAMATION PERMIT

This permit is issued under the Chippewa County Nonmetallic Mining Reclamation Ordinance and Wisconsin Administrative Code NR135.

Operator: Chippewa Sand Company, LLC

Owner: J&L Mining LLC; Robinson Panosian Mining LLC; Thomas Short and Anthony Pecha; and 27K Sand, LLC

Permit Number: 2010-01

Date: August 24, 2018

Permit Conditions

1. Standards & Implementation

- a. All mining and reclamation shall be conducted in compliance with the Reclamation Plan that is comprised of the following documents:
 - i. "Non Metallic Mining Reclamation Plan; Chippewa Sand Company LLC; Chippewa County, Wisconsin"; dated May 17, 2018, including all tables, figures and appendices.
- b. This permit incorporates and superceeds the previous permit issued May 5, 2011.
- c. All mining and reclamation shall be conducted in compliance with all provisions and standards of the Chippewa County Nonmetallic Mining Reclamation Ordinance, Wisconsin Administrative Code NR135 and the most current WPDES General Discharge Permit (WI-B046515-6).
- d. All mining and reclamation shall be conducted to meet or exceed provisions of Reclamation Standards for Non-Metallic Mines in Chippewa County (July 2007) and Plan Content Specifications and Engineering Requirements for Non-Metallic Mine Construction in Bedrock (9/17/2009).
- e. To monitor the extent of contemporaneous reclamation, a Reclamation Report & Activities Plan shall be filed with the Department of Land Conservation & Forest Management (LCFM) for each calendar year. The report shall be submitted no later than 30 days from the end of the permit year. The plan shall contain the items listed in Appendix G of the reclamation plan including: a) the extent of current mine development, b) the groundwater elevations as recorded in the groundwater monitoring wells, c) the dates and results of reclamation and stormwater facility inspections, d) activities implemented to provide groundwater protection, e) dates and results of stormwater discharge monitoring, f) reclamation and stormwater management activities planned, g) a daily record of the type, volume, and use of material brought to the mine; and h) any other items as required by this permit.

2. Financial Assurance

- a. Financial Assurance in the form of a Surety Bond or Irrevocable Letter of Credit meeting the requirements of the Chippewa County Nonmetallic Mining Reclamation Ordinance and NR135.40 shall be submitted by the operator for approval prior to any mining activity at the site. Financial Assurance is required throughout the life for the mine.

- b. The amount of financial assurance shall equal as closely as possible the cost to Chippewa County of hiring a contractor to perform reclamation activities according to the approved reclamation plan. The amount of financial assurance shall be reviewed periodically by the Department of Land Conservation & Forest Management to assure it equals the current estimated reclamation costs.

3. Size & Scope

- a. The total permitted area of the mine site is 1084 acres as shown in the reclamation plan on the "Site Operation Plan" figures 3A and 3B, dated May 2018. The mine site includes all areas of nonmetallic mineral extraction, haul roads, stormwater ponds, soil berms, and other areas meeting the definition of "nonmetallic mining site" or "site" in the Chippewa County Nonmetallic Mining Reclamation Ordinance.
- b. The floor elevation and excavation limit of the mine shall be no lower than 1090 MSL as shown in the reclamation plan on the "Final Site Plan Cross Sections" map dated April 2018.
- c. Changes to the areal extent, depth of the mine, post mining land use, or changes to the operation that may affect the capacity to meet reclamation standards of NR 135 and Chippewa County Nonmetallic Mining Reclamation Ordinance as documented in the Reclamation Plan shall require a revised Reclamation Plan and permit modification under NR 135.24.

4. Stream & Wetland Protection

- a. The location of areas of concentrated flow, waterways, and areas that convey direct runoff to Trout Creek, South Fork Trout Creek, and Como Creek, and the corresponding jurisdictional authority to regulate those areas under state and federal law, shall be determined by the LCFM and the Wisconsin Department of Natural Resources (DNR) following the criteria established in the Chippewa County Shoreland Zoning Ordinance and WI Stats. Chapters 23, 30, 31, and 281.
- b. The location and boundary of all wetlands as defined by Wisconsin State Statute Chapter 23, including mapped wetlands shown on the "Site Operation Plan" dated May 2018, shall be delineated by a recognized wetland delineator following procedures in the 1987 edition of the Army Corps of Engineers Wetlands Delineation Manual.
- c. Wetland delineations shall be completed for the entire permitted mine and submitted to the LCFM for review and approval before January 31, 2019.
- d. A continuous vegetative buffer shall be established along all streams and wetlands to prevent environmental pollution from nonmetallic mining and to meet standards for surface water and wetland protection, as established in NR 135.07.
 - i. No mining or mine-related site disturbing activities are permitted within this buffer, unless authorized under Condition 4.f. and 4.g..
 - ii. The buffer shall be 100 feet from the top of channel of streams with bed and bank, as determined by the LCFM, or 100 feet from the boundary of wetlands, whichever is greater, and shall be monumented with permanent markers for the life of the mine.
 - iii. Pre existing agricultural uses including cultivated cropland fields and agricultural pastures shall be allowed within the buffer.

- e. The approximate location and boundaries of the stream and wetland vegetative buffer areas are shown in the reclamation plan on the “Existing Site Plan” and “Site Operations Plan” maps dated May 2018. This map shall be updated by the operator to reflect actual conditions based upon field determinations of the watercourse and wetlands and the jurisdictional determinations of the responsible regulatory authority. The updated map shall be submitted to the LCFM before January 31, 2019.
 - f. In the event that unique conditions exist where mining activities cannot be conducted to avoid or minimize the impacts to streams or wetlands, the operator will seek the appropriate permits for any impacts that could occur as a result of mining and processing activities. Such permits could include wetland mitigation measures as dictated by the applicable state or federal laws.
 - g. In circumstances where wetland mitigation is required, the LCFM will encourage and support the concept of on-site, in-kind wetland mitigation pursued through the nonmetallic mine site reclamation process.
 - h. Final reclamation of each of the mine phases as identified in the reclamation plan shall establish grades that restore the watershed boundaries, to the extent practicable, that existed prior to mining.
5. Stormwater Management
- a. The operator shall fully comply with the terms of the WI DNR WPDES General Permit to Discharge, WI-B046515-6 (Nonmetallic Mining Operations for Industrial Sand Mining and Processing) and any subsequent permit revisions.
 - b. On or before January 31, 2019, the operator shall submit to the LCFM the Stormwater Pollution Prevention Plan (SWPPP). The operator shall submit the most current version of the SWPPP as part of the Annual Report and Activities Plan.
 - c. A stormwater management system shall be designed, installed, and maintained to meet the nonmetallic mine standards established for surface water and groundwater protection in NR135.07 & 135.08, and shall provide sufficient capacity to store runoff for all rainfall events smaller than the 100 year, 24 hour event (6.38 inches).
 - d. Stormwater ponds shall be constructed with a stable rock lined outlet that will safely accommodate runoff events up to the 100 year, 24 hour event (6.38 inches).
 - e. Site specific design documentation for stormwater ponds and conveyances including construction drawings and hydraulic computations shall be submitted to the LCFM for review and approval prior to development of each mine phase.
 - f. Whenever changes to the stormwater management system are proposed or required the operator shall retain a Professional Engineer to re-design the storm water management system. The re-design documentation shall include computations to show that the changes to the stormwater management system will meet the design requirements. This information shall be submitted to the LCFM for review and approval prior to construction of the changes.
 - g. The stormwater management system shall be routinely inspected and maintained by the operator to assure the system continues to function as designed.
 - i. Sediment that accumulates in stormwater ponds shall be removed from the stormwater pond bottom after major storm events or as needed to maintain the design storage capacity.

ii. Sediment removed from stormwater ponds shall be stockpiled, seeded, stabilized, and used in mine site reclamation.

h. In the event that stormwater runoff exceeds the capacity of the stormwater management system and stormwater runoff leaves the mine site, the operator shall immediately contact the LCFM.

6. Site Clearing

a. The LCFM shall be contacted at least 72 hours prior to commencement of any new land clearing or stripping activities in undisturbed areas of the mine site.

b. All topsoil, subsoil and overburden in areas of mining shall be systematically and individually stripped and stockpiled for future use in reclamation. The location of these stockpiles shall be identified with permanent signage and shall be identified on a map that shows the location of all stockpiles of topsoil, subsoil, and overburden. This map shall be submitted to the LCFM on an annual basis as part of the Annual Report and Activities Plan.

c. No topsoil, subsoil, or overburden material shall leave the site during the entirety of the site operations.

d. Burning of stumps or any other material in the mine is prohibited. All residual woody biomass that is the byproduct of timber harvesting, excluding stumps, shall be retained and when practical, composted on site, and used as a soil amendment during final reclamation.

7. Groundwater & Surface Water

a. The operator shall install groundwater monitoring wells to augment the existing monitoring well network for the purpose of establishing the actual groundwater elevation at the mine site, monitoring changes to the groundwater elevation over time, and for monitoring groundwater quality.

b. The expanded network shall be planned and designed by a Professional Hydrologist or Professional Engineer, in cooperation with the LCFM, to triangulate the elevation of the water table surface and to establish the direction of groundwater flow at the site.

c. The expanded network shall consist of a minimum of 10 monitoring wells, as shown in the "Existing Site Plan", figures 2A and 2B, dated May 28. The first two additional wells of this network located in Phases 4 & 5 (within parcels 23010-0811-00000000 & 23010-0921-00210000) shall be installed prior to the onset of mining of Phase 3, 4, or 5. The 4 remaining wells shall be installed prior to the onset of mining of either Phase 6 or 13.

d. The operator shall provide the LCFM with boring logs or well constructors reports from the construction of each monitoring well that document the subsurface geology, the construction methods, and well depth. This information shall be provided within one month of the wells construction.

e. The elevations of the water table surface in each of the monitoring wells shall be recorded no less than monthly the first year of operations and quarterly thereafter for the life of the mine. This information shall be submitted to the LCFM as part of the Reclamation Report and Activities Plan defined in Section 1.e.

f. Using the information gathered from the monitoring well network the operator shall prepare a site specific groundwater elevation map. The operator shall provide this map to the LCFM as part of the Reclamation Report and Activities Plan defined in Section 1.e.

- g. The groundwater elevation map shall be refined as mine development progresses, and additional information becomes available from additional monitoring wells, or from other sources.
- h. The operator shall provide a copy of any application and permit for a high capacity well that is subject to state permit requirements. The application and permit shall be provided to the LCFM within 30 days of permit issuance.
- i. Production wells installed at the mine site shall be constructed to limit the potential for groundwater movement between aquifers and to limit impacts on surface waters near the mine. Wells shall be cased from the surface through the lowest extent of the Eau Claire sandstone formation to an elevation no higher than 960 feet MSL.
- j. The operator shall keep records of pumping rates and volumes for all high capacity wells at the mine site on a monthly basis following procedures established in NR 820.13. The operator shall provide a copy of those records to the LCFM as part of the Reclamation Report and Activities Plan defined in Section 1.e.
- k. In the event that offsite monitoring shows that mining or reclamation activities at this site have caused a lowering of the water table that results in adverse effects on surface waters or a significant reduction in the quantity of groundwater reasonably available for future users of groundwater, the operator will implement water conservation practices to restore groundwater elevations.

8. Water Quality

- a. In the event that groundwater monitoring shows that mining or reclamation activities at this site have caused groundwater quality standards of Wisconsin Administrative Code NR140 to be exceeded, the operator will seek to mitigate these effects by altering site operations.

This permit does not relieve the owner or operator of the responsibility for compliance with all provisions of Wisconsin State Statute 281, Wisconsin Administrative Code NR 820, or Wisconsin Administrative Code NR 812, as they may pertain to waters of the state and the operation of any private wells on neighboring properties, and any associated liability under state law.

- b. Each well in the groundwater monitoring well network shall be tested for the following parameters:

pH, total dissolved solids, total suspended solids, nitrate-nitrogen, acrylamide, phosphorus, sulfate, residual materials associated with the type of chemicals used, and the following metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Tl, Ti, V, & Zn.

Testing should be performed annually or at any time when there are changes to the type of chemicals used. These test results will be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.

The sampling methods shall comply with the DNR Groundwater Sampling Field Manual.

The analytical test methods and procedures shall comply with Wisconsin Administrative Code NR 219 or alternative test methods proposed by the Operator and agreed to by the LCFM. Groundwater samples should be filtered prior to testing, unless otherwise agreed to by the LCFM in consultation with DNR.

- c. The Operator shall conduct groundwater sampling and testing for the constituents listed in condition 8.c. of this permit annually for the life of the mine until final reclamation for the entire mine is certified by the Department.

9. Settling & Process Water Ponds

- a. In the event that the operator uses flocculants, coagulants, or other chemicals as part of mining or wash plant operations the operator shall perform all of the requirements contained under permit condition 9.a.
 - i. Select chemical products that limit the potential for groundwater pollution, as may be identified on recognized product lists available from Wisconsin DNR, EPA, or other agencies.
 - ii. The type and volume of flocculent, coagulant, or other chemicals used shall be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.
 - iii. Use chemical products in accordance with the product label requirements to limit the potential for water pollution.
 - iv. Line settling and process water ponds and associated conveyances to limit the infiltration and leaching of chemical constituents that may be used in mining processes. Liners shall be designed by a Professional Engineer and constructed under their supervision to meet standards and specifications of Wisconsin Administrative Code NR 213.

- v. The process water accumulated in the mine process water ponds shall be tested for the following parameters:

pH, total dissolved solids, total suspended solids, nitrate-nitrogen, acrylamide, phosphorus, sulfate, residual materials associated with the type of chemicals used, and the following metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Tl, Ti, V, & Zn.

Testing should be performed annually or at any time when there are changes to the type of chemicals used. These test results will be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.

The analytical test methods and procedures shall comply with Wisconsin Administrative Code NR 219 or alternative test methods proposed by the Operator and agreed to by the Department.

Process water samples should not be filtered prior to testing, unless otherwise agreed to by the LCFM in consultation with DNR.

- vi. The byproducts from the wet plant and the reject material from the dry plant, that are returned to the mine, shall be tested for the following parameters:

pH, nitrate-nitrogen, acrylamide, phosphorus, sulfate, residual materials associated with the type of chemicals used, and the following metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Tl, Ti, V, & Zn.

Testing will be performed annually or at any time when there are changes to the type of chemicals used. These test results will be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.

- vii. Implement best management practices that limit the potential for damaging settling and process water pond liners during dredging or excavation of accumulated sediment. The settling and process water pond liners shall be maintained defect free and repairs shall be made as necessary to maintain the integrity of the liner.
 - viii. A visual inspection shall be conducted on each process water pond liner after dredging or excavation of accumulated sediment. The results of this inspection detailing the condition of the liner, including any deficiencies or repairs, shall be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.
 - ix. Apply appropriate best management practices when managing liquids and sediment removed from the settling and process water ponds. In selecting the best management practices for materials management, storage, and disposal, the operator shall consider the results of material testing and material characterization, and shall apply these practices to minimize the potential for groundwater leaching of soluble materials during or after mine reclamation.
 - x. Settling and process water ponds liners shall be removed at the time of final reclamation. Liners shall be disposed of in accordance with all federal, state, and local laws. Earthen liner material shall be land applied or used as a soil amendment.
- b. The operator shall establish a Maximum Operating Level (MOL) for each network of connected process water ponds. The MOL shall be established to account for the additional depth required to hold the rainfall and runoff volume from a 100 year, 24 hour storm event.
 - i. The operator shall install MOL markers on each network of process water ponds at a minimum of two separate locations. One marker shall be located at the inlet and one shall be located at the outlet of the lowest elevation pond in the network.
 - ii. For each network of process water ponds the operator shall provide a written description of the MOL markers, their elevations, and the top of embankment elevations to the LCFM prior to using the pond.

10. Controlled Wastewater Discharge

- a. In the event that the operator chooses to discharge wastewater from the mine, all wastewater discharges shall meet the requirements of the General Discharge Permit WPDES Permit No. WI-B046515-6 Section 5, and all other applicable DNR requirements and state standards.

11. Controlled Contaminated Stormwater Discharge

- a. All contaminated stormwater discharges shall meet the requirements of the General Discharge Permit WPDES Permit No. WI-B046515-6 Section 3 and requirements of this nonmetallic mine reclamation permit.
- b. The operator shall install and maintain a recording rain gage at the site for the purpose of recording rainfall and managing contaminated stormwater discharges. The continuous record of daily rainfall for the previous year shall be submitted to the LCFM as part of the Reclamation Report and Activities Plan defined in Section 1.e.
- c. The operator shall notify the LCFM 24 hours prior to commencing an offsite discharge.

- d. Prior to commencing any discharge from the mine, on an annual basis, the mine operator shall take one representative sample of contaminated stormwater from each stormwater pond that discharges to surface water. Samples shall be tested for the following parameters:

pH, total dissolved solids, total suspended solids, nitrate-nitrogen, acrylamide, phosphorus, sulfate, residual materials associated with the type of chemicals used, and the following metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Se, Ag, Na, Sr, Tl, Ti, V, & Zn.

The analytical test methods and procedures shall comply with Wisconsin Administrative Code NR 219 or alternative test methods proposed by the Operator and agreed to by the Department. Contaminated stormwater samples should not be filtered prior to testing, unless otherwise agreed to by the LCFM in consultation with DNR. These test results should be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.

- e. In circumstances when the volume of contaminated stormwater in a stormwater pond exceeds the established maximum operating level (MOL) of the pond, the contaminated stormwater in the stormwater pond shall be monitored and tested for total suspended solids (TSS). Testing shall occur within 3 days of the end of the rain event that caused the stormwater pond to exceed the MOL.
 - i. If, within 3 days of the end of the rain event, the contaminated stormwater is at or below 40 mg/L TSS, the water shall be discharged from the mine site, or pumped to another location within the mine, to restore water level at or below the MOL. The rate and duration of discharge shall be monitored and recorded to ensure no channelized erosion occurs in areas of concentrated flow located downgradient. The controlled discharge shall be completed before the next anticipated or forecasted rain event.
 - ii. If, within 3 days of the end of the rain event, the contaminated stormwater stored above the MOL remains above 40 mg/L TSS, the water above the MOL shall be pumped from the pond and treated as wastewater.
 - iii. The operator may use approved flocculants to assist in the treatment of contaminated stormwater. A record of the type and amount of flocculants used for each pond through time shall be included as part of the Reclamation Report and Activities Plan defined in Section 1.e.
- f. A record of all discharges, including the pond name, start and stop time of discharge, estimated discharge rate, sampled TSS results, and all other sampling requirements in the SWPPP shall be recorded and submitted to the LCFM as part of the Reclamation Report and Activities Plan defined in Section 1.e..

12. Solid Waste & Spills

- a. The import, storage, or disposal of any solid waste, recyclable materials, or nonmetallic mine refuse generated outside the mine site is subject to the registration provisions of Chapter 30-77 of the Chippewa County Nonmetallic Mining Reclamation Ordinance.
- b. The Reclamation Report and Activities plan shall describe how the material will be processed and used within the permitted nonmetallic mine site as part of reclamation, or removed and disposed of in accordance with state law.

- c. The physical properties and chemistry of waste products from offsite processing facilities shall be characterized following the intent and procedures established under Wisconsin Administrative Code NR518.1.06(1).
 - i. In the event that groundwater monitoring shows that the preventive action limits referenced in NR 140 or the allowable concentration in drinking water referenced in NFS/ANSI Standard 60 have been exceeded due to waste material, the operator shall dispose of the the waste material at a different location in accordance with federal, state, and local laws and seek to remediate the associated groundwater pollution.
- d. Material tests for imported materials will be conducted: 1) prior to disposition of any off-site material; 2) on an on-going basis at least once per year; 3) at the time of any changes to the properties or chemistry of the waste products associated with new sources of waste materials or new processing additives, including flocculants.
- e. Fueling of equipment inside of the mine shall be discouraged and limited to vehicles such as tracked equipment that cannot readily access an off-site fueling station. Fueling of highly mobile equipment such as rubber tired loaders, scrapers, and trucks shall occur in areas that pose a reduced risk of groundwater pollution. In all cases spill containment practices such as drip pans, absorbent pads, or other recognized practices shall be used to contain drips and spills during fueling.
- f. In the event of fuel spills or other hazardous waste spills the operator shall immediately contact the LCFM.

13. Agricultural Operations

- a. Existing agricultural fields and pastures located within the mine boundary may, at the discretion of the operator, remain in agricultural production or may be taken out of production. No agricultural operations shall be conducted within the boundary of an active mine phase. For agricultural fields and pastures that remain in production, the operator shall assure that agricultural operations are conducted in accordance with all applicable local, state and federal laws, and administrative rules.
- b. For those agricultural fields and pastures that remain in production, the agricultural producer and mine operator shall, before March 15, 2019, develop and submit a nutrient management plan to the LCFM that meets the specifications of WI NRCS Technical Guide Standard 590.
- c. The nutrient management plan shall be implemented by the responsible agricultural producer(s) to assure that agricultural operations meet or exceed state agricultural nonpoint pollution control standards, as specified in WI Admin. Rule NR 151. The agricultural producer(s) and mine operator shall report and certify on an annual basis that the nutrient management plan is being followed and that the agricultural pollution control standards are being met.

14. Site Reclamation & Post-Mining Land Use

- a. The post mining land use for the mine, as documented in the “Final Site Operation Plan”, figures 4A & 4B, dated May 2018, shall be established as Conservation Lands; Grassland/Prairie/Forest Savannah.

- b. On or before January 31, 2019 the mine operator shall develop and submit to the LCFM for review and comment, a freestanding Soil Rehabilitation & Vegetative Management Plan. The plan shall be consistent with Section 3.b.4 of the Reclamation Plan. The plan shall be systematically implemented, evaluated, and periodically updated on a 5 year basis, based upon experiences gained through time as the plan is applied to achieve successful reclamation. Any updates to the plan shall be submitted as part of the Annual Report and Activities Plan.
- c. The operator shall develop a project design and implementation schedule that explains how any onsite reclamation test plots will be used to demonstrate the feasibility of achieving the planned nonmetallic mine reclamation and post-mining land uses.
- d. On or before January 31, 2019, the operator shall develop a project design and implementation schedule for a field test plot that will be applied to the unreclaimed highwall. The purpose of this test plot will be to demonstrate that the highwall is stable and safe, as required under NR135.10. The project design and results from this test plot shall be submitted as part of the Annual Report and Activities Plan. At a minimum, on an annual basis, the test plot shall:
 - i. Quantify the extent and progression of erosion through time and any issues associated with site stability.
 - ii. Document the accumulation of eroded material at the base of the highwall.
 - iii. Document and quantify the type & extent of vegetation growing on the highwall.

The LCFM will review the results of the test plot as part of the Annual Report and Activities Plan. In the event that the highwall is found to be unstable or unsafe, as determined by the LCFM, the operator shall submit an amendment to the reclamation plan proposing an alternative to the permitted highwall that meets the requirements of NR 135.

- e. The successful reclamation of restored areas shall be determined by the LCFM using the following criteria:
 - i. Site stability
 - ii. Plant density and species diversity
 - iii. Soil chemistry, fertility, and type & amount of soil organic matter
 - iv. Soil depth, plant rooting depth, and soil infiltration
 - v. Other alternative criteria, as agreed to by the permitted mine operator and the County
- f. The completion of successful reclamation shall be determined through physical site inspections. In making the determination of successful reclamation, the LCFM may take into account other supporting information including information generated from onsite test plots or from other areas of the mine site that have been previously reclaimed.
- g. When applying the criteria and evaluating the quality of the site reclamation, the LCFM shall recognize and consider the physical site conditions and limitations that existed at the restored site before mining.

15. Certification of Reclamation

- a. Parcels subject to permit requirements may be released from the reclamation permit upon satisfaction of mine lease obligations as determined by the operator, and upon certification that reclamation requirements and standards have been met, as determined by the LCFM.
- b. Upon certification of site reclamation and release from the reclamation permit, all future land use decisions shall be at the discretion of the landowner and shall comply with all applicable laws, ordinances, and administrative rules that may apply to the use of the land at the time of release.

- c. If a lease is cancelled on a parcel that has not been certified as reclaimed, and the lease cancellation occurs for any reason other than the purchase of the parcel by the operator or the transfer of the lease, the operator shall immediately reclaim the parcel in accordance with the reclamation plan. If the operator fails to reclaim the parcel in accordance with the nonmetallic mining reclamation plan, the operator's financial assurance will be forfeited for that parcel and will be used by the LCFM to reclaim the site.

16. Permit Evaluation and Amendments

- a. The LCFM shall periodically evaluate the extent of contemporaneous reclamation achieved through mining operations, and the extent of compliance with reclamation standards.
- b. The LCFM may allow for design variations and may amend or alter operational conditions that do not significantly alter the scope of the reclamation plan or the reclamation permit issued under the authority of Sec. 30-105 of the Chippewa County Non-Metallic Mining Reclamation Ordinance.
- c. All permit alterations or amendments shall be mutually acceptable and agreed to by the LCFM and by the operator. Reclamation of areas designated with an agricultural post mining land use shall comply with all Wisconsin Administrative Code NR 151 standards (and any subsequent revisions) standards as they apply to non-point source pollution control.

As the operator, or authorized representative of the operator, I hereby acknowledge and agree to the above permit conditions.

Matthew Heath
Signature

8-24-18
Date

Matthew Heath
Printed Name - Operator

HSE Manager
Title

Permit approval by Department of Land Conservation & Forest Management

Christien W Huppert
Signature

8/24/18
Date

CHRISTIEN HUPPERT
Printed Name – Authorized Staff

Project Engineer
Title