PERMIT

PERMIT MUST BE POSTED AT PROJECT SITE, VISIBLE FROM ROAD

Permit Number 18-66  Permit Date: 11/12/18

Permit Granted To: Michael & Julie Anderson
Laker Island Storage Condos

Project Address 25174 County Hwy 6

City, State, ZIP: Detroit Lakes, MN 56501

Project Type Construction of new storage condo facility; construction of new access road over Judicial Ditch 14; Installation of new culvert at the Judicial Ditch 14 crossing

Permit Granted with the Following Conditions to be Satisfied by the Permit Holder:

1) Approved per Weneck Associates review recommendation, Review #18-22, dated 11/12/18
2) Project will be constructed as shown on approved Construction Plans, prepared by APEX Engineering Group, sheets 1-5 & 8 dated 10/12/18, sheets 6 & 7 dated 11/07/18
3) Owner is responsible for long-term maintenance of the project as described on Sheet 2 of the approved Construction Plans, prepared by APEX Engineering Group, dated 10/12/18.
4) PRWD strongly recommends that the permanently stabilized pond overflow design be re-evaluated. Current overflow erosion control does not provide sufficient protection against proposed shear stresses. PRWD recommends utilization of a TRM product that is capable of protecting against proposed shear stresses. If no changes are made to the erosion control for the pond overflows and erosion occurs, the applicant shall submit a proposal for correction to the PRWD for approval and implement proposed changes.

**All measures must conform to other applicable Zoning and Shoreland Ordinance regulations (Becker County, City of Detroit Lakes, Minnesota Pollution Control Agency, MN Department of Natural Resources)**

This permit is valid for 18 months.

Permit may be revoked at any time upon violation of Pelican River Water Management Rules. Any changes to this site permit results in nullification of this permit and a new permit will have to be obtained.

Signature of Tera Geeter, District Administrator
PERMIT APPLICATION FORM

Property Owner(s): Michael D & Julie A Anderson

Mailing Address: 18060 75th Place, McAlpin, FL 32062
Detroit Lakes, MN 56501

Phone: ___________ Cell: 218-841-1278

Email: anderson.sawmillinc@gmail.com

Project Address: 25174 County Hwy 6

Parcel ID Number(s): 190047002

Permit should be sent to: ____ Mailing Address ____ Contractor ____ Call to pick up Phone:

PROJECT INFORMATION

PERMIT APPLICATION PURPOSE (indicate all which apply)

X A. Alteration to land, vegetation, and/or impervious surface within the Shore Impact Zone

B. Rip-rap or beach sand blanket (installation, repair, replacement)

C. Alteration to land, vegetation, and/or impervious surface within bluff impact zone or on steep slopes within the Shoreland District.

D. Retaining wall (installation, repair or replacement within the Shore and/or Bluff Impact Zones)

E. Impervious surface (cumulative) coverage

more than 25% of lot area

1 acre or greater

> 10,000 sq. ft. within the Shoreland District

F. Subdivisions, plats, or Planned Unit Developments (PUD's)

G. Highway, road, street, parking lot or public water access (new or reconstruction)

H. Bridges, culverts, inlets to waters of the state; storm sewers (new or replacement)

I. Groundwater Dewatering

Project Purpose/Description: (Please be specific)

Lake Name (if applicable):

Project includes grading, ditch, roads, and culvert improvements for purposes of a storage condo development. An entrance road will be constructed from County Hwy 6 across Ditch No. 14. The existing Ditch 14 culvert will be replaced as part of the project. Stormwater management will be provided by wet sedimentation as a result of heavy (clay) soils.

Proposed start date: September 1, 2018 Proposed completion date: October 30, 2019

ADDITIONAL PERMITS

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<th>City of Detroit Lakes</th>
<th>Becker County</th>
<th>Minnesota DNR</th>
<th>Minnesota PCA</th>
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If variances are required, the approved conditions need to be included for permit approval.

*Additional permits may be required in addition to Pelican River Watershed District Permit

Please attach copies of all permits and variances received.
PERMIT APPLICATION SUBMISSION REQUIREMENTS

1. Completed permit application, signed by the Property Owner, or authorized signatory
2. Duplicates of all drawings, site plans, and other required documents.
3. Application and Field inspection fees according to the most recent schedule
4. Street map indicating project location

TERMS OF THE PERMIT

Applying for a permit issued through the Pelican River Watershed District (PRWD) in no way precludes obligation for permit application that may be required through OTHER governmental agencies. Any work performed prior to obtaining all required authorizations may be subject to Federal, State and/or administrative, civil, and/or criminal penalties. No liability shall be imposed on the District or any of its officers, agents or employees on official or personal grounds, on account of the granting of this permit, on account of any damage to any person or property resulting from any act or omission of the Permittee or any of its agents, employees or contractors relating to any matter hereunder. This permit shall not be construed as limiting any legal claim or right of action of the District against the Permittee, its agents, employees or contractors for the violation of, or failure to comply, with the provisions of the permit or applicable provisions of law.

When all items have been satisfactorily completed and the District determines the project meets the District’s Rule requirement, this permit will be issued. The permit may be picked up at the District office, or it will be mailed to the designated address. A copy of the approved permit will be faxed to the applicable local governmental entity (Becker or Ottertail County, City of Detroit Lakes Zoning departments).

The permit will be valid for eighteen (18) months from the date of issuance, unless otherwise suspended or revoked. A permit may be extended at no charge, provided the property owner notifies the District in writing stating the reasons for extension. Any plan changes, and related project documents must also be included in the extension application. The District must receive the extension application at least thirty (30) day prior to the permit’s expiration date as issued.

If changes are made to the permitted plans for this project, changes must be submitted to the District (in duplicate form) for review prior to installation or completion occurs. If changes to the original (permitted) plans are approved, an amended permit will then be issued.

This permit may be terminated by the Board of Managers without notice at any time deemed necessary for the management of the water resources of the District, or in the interest of public health and welfare, or for violation of any of the provision of this permit.

PERMIT APPLICATION AGREEMENT

"I understand that, as a Permittee, I am legally accountable to ensure compliance with the terms and conditions of the permit. I understand that I am not authorized to begin the project until I received the permit and the permit is posted as directed on the project site. If the project is modified, I will obtain approval by the District before I continue with the project. I authorize the District, and its agents, employees, officers, and contractors to enter the project site to perform any inspection or work authorized by the permit or any applicable law."

"I certify that I have thoroughly read and understand the information on this permit application, including submittal requirements."

Signature: Mike Anderson Date: 8/16/18
(Property owner, or authorized signature through letter of authority)

ACTION BY THE PELICAN RIVER WATERSHED DISTRICT

The above application is APPROVED / DISAPPROVED this 12 day of Nov., 2018, by the Pelican River Watershed District.

By: __________________________

Its: __________________________

Permit Number 18-06
PELICAN RIVER WATERSHED DISTRICT
PERMIT REVIEW

REVIEW DATE: November 12, 2018
WENCK REVIEW ID: 18-22
ITEM: Laker Storage Island

RECOMMENDATION TO DISTRICT ADMINISTRATOR:

[ ] Issue permit
[ X ] Issue permit with conditions (see end of report)
[ ] Verify compliance with conditions before permit issue (see end of report)
[ ] Deny permit

APPLICANT: Michael and Julie Anderson
18060 75th Place, McAlpin, FL 32062
Detroit Lakes, MN 56501
218-841-1278
anderson.sawmillinc@gmail.com

PURPOSE: The proposed project involves the construction of a 52.2-acre site which includes construction of an access road, several storage condos, five wet sedimentation basins, and associated utilities. Following completion, approximately 7.38 acres of the 52.2-acre site (14%) will be converted to impervious area.

LOCATION: 25174 County Hwy 6, Detroit Lakes, MN

APPLICABILITY:
Total impervious surface (new and existing) of one acre or more
Total impervious surface (new and existing) of 10,000 sq. ft. or more within the Shoreland Zone (land located within 1,000 linear feet of a lake, or 300 linear feet of a stream or river)

EXHIBITS:
1. Civil Plans (1-5 & 7 Sheets), by Apex Engineering Group, dated 10/12/18, rcvd. 10/17/18.
5. P8 Output for Pond 6, by Apex Engineering Group, dated 9/13/18, rcvd. 9/13/18.

FINDINGS:

Maintenance: A detailed schedule indicating dates and sequence of land alteration activities has not been received. A detailed description of how erosion and sediment control and soil stabilization measures will be monitored, maintained, and removed has been received. The name, address and phone number of the party responsible for maintenance of all erosion control measures has been provided. A maintenance plan for on-site treatment measures has been provided.

Soils & Erosion Control Plan: Soils affected by the proposal are sandy clay loam, clay loam, silty clay loam, and sandy clay. Preliminary landscaping plans for storm water treatment practices and site re-vegetation has been provided. Adjacent properties are not protected from sediment deposition. Wetlands, waterbodies and water conveyance systems are not protected from erosion. Project site is greater than 1 acre; an NPDES permit is required.

Grading Plan: The location/dimension of existing property lines, roads, structures, utilities, easements, and paved and unpaved areas has been provided. A detailed site topographic plan (minimum 2-foot contours) for the proposed project conditions, which clearly indicates alterations to existing grades and topographic features, has been provided.

Stormwater & Hydraulics: Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system. Rate of post-development runoff from the site does not exceed pre-development rates for the 5-, 25-, and 100-year, 24-hour storm events.

Water Quality: Water quality treatment facilities achieve 90% TSS and 50% total phosphorus removal. Water quality ponds are designed correctly.

RECOMMENDATION TO DISTRICT ADMINISTRATOR:

- Issue permit
- X Issue permit with conditions (see end of report)
- Verify compliance with conditions before permit issue (see end of report)
- Deny permit

As your re-submittal is reviewed, we may find the need to request additional information, and will so inform you.
Conditions:
1. Provide detailed schedule indicating dates and sequence of land alteration activities a minimum of one week in advance of commencing work.

2. Specify and ensure inlet protection for Inlet D near Pond 8. This inlet is not marked for temporary erosion control inlet protection on Sheet 5.

Recommendations:
1. PRWD strongly recommends you re-evaluate permanently stabilized pond overflow designs for erosion control. Current overflow erosion control does not provide sufficient protection against proposed shear stresses. See example calculation:
   i. Example calculation (Pond 4):
      1. Shear Stress = Depth (ft) * Density of water (lb/ft$^3$) * Slope (ft/ft)
      2. 0.71 ft * 62.4 lb/ft$^3$ * 0.2 ft/ft = 8.9 lb/ft$^2$

Plans specify Class II riprap that has a $d_{50}$ of 6” and will protect against shear stresses up to 2.5 lb/ft$^2$ compared to the shear stress 8.9 lb/ft$^2$ calculated. According to *Stability Thresholds for Stream Restoration Materials*, the US Army Corps of Engineers recommends riprap with $d_{50}$ of 24” to stabilize shear stress up to 10.1 lb/ft$^2$. Similarly, permanent erosion protection shall extend to the bottom of the slope at a minimum to prevent erosion of slope. PRWD recommends utilization of a TRM product that is capable of protecting against proposed shear stresses. If no changes are made to the erosion control for the pond overflows and if erosion occurs, the applicant shall submit a proposal for correction to the PRWD for approval.