PERMIT

PERMIT MUST BE POSTED AT PROJECT SITE, VISIBLE FROM ROAD

Permit Number: 15-99 (replaces 15-50 permit)
Permit Granted To: Jeff Roberts
Project Address: 26587 Paradise Point Rd.
City, Street, Zip: Detroit Lakes, MN 56501

Permit Date: 12/9/2015

Project Type: 2015 ice heave damage - repair existing retaining wall -- replacement wall approved by Becker County Conditional Use Permit (CUP, document # 451327, YR-1999).

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

- Repair the existing retaining wall according to the approved design plans (Heyer Engineering Design Plans dated 5/1/12). Remove non-authorized cement mortar in wall joints, install drainage aggregate, filter fabric, and drainage pipe/tile between wall and earthen bank. No further expansion of the wall is allowed without approvals/permits.
- Install and maintain temporary erosion and sediment control measures as outlined in the design plans during construction repair work.
- Install and maintain permanent erosion and sediment control measures according to the approved design plans (washed gravel/rubble, or vegetation plantings, or a combination thereof).
- Contact the District for final inspection approval.
- Obtain a Becker County Land Alteration Permit prior to commencing work.

**Install according to Becker County or City of Detroit Lakes Shoreland Ordinance and Planning and Zoning regulations, and State of 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 Pelican River Watershed District Board of Managers or Designee (District Administrator)
PERMIT APPLICATION FORM

Property Owner(s): Jeffrey C. Roberts
Mailing Address: 47352 430th Ave SW
East Grand Forks, MN 56721
Phone: 701-741-8809 Cell:
Email: jackie.roberts@und.edu
Project Address: 26587 Partridge Point Road
Detroit Lakes, MN 56501

Contractor Information (list all)
Name: N/A or Bulk Wastewater
Company: 
Phone: 
Cell: 
Email: 
*Attach additional information as needed.

PROJECT INFORMATION

PERMIT APPLICATION PURPOSE (indicate all which apply)

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.

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 (discharging to waters of the state)

Project Purpose/Description: (Please be specific)

Lake Name: (If applicable)

Floyd Lake

Repair collapsed retaining wall due to ice

Proposed start date: 
Proposed completion date: 

*Identify any work already completed on drawings

ADDITIONAL PERMITS

City of Detroit Lakes
Permit Required: 
Permit Received: 
Variance needed: 

Becker County
Permit Required: X
Permit Received: X
Variance needed: (additional info)

Minnesota DNR
Permit Required: 
Permit Received: 

Minnesota PCA
Permit Required: 
Permit Received: 

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 submitted and 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: ___________________________ Date: 12-2-15
(Property owner, or authorized signature through letter of authority)

ACTION BY THE PELICAN RIVER WATERSHED DISTRICT

The above application is APPROVED / DISAPPROVED this 24th day of Dec., 2013, by the Pelican River Watershed District.

By: ________________________________
Its: Administrator

Permit Number 15-99
Technical Memo

To: Brent Alcott - PRWD
From: Marlon Mackowick, PE- Wenck Associates, Inc.
Date: November 18, 2015
Subject: 26587 Paradise Point Road on Floyd Lake – Retaining Wall

As per your request, Wenck Associates, Inc. (Wenck) is providing its opinion on the best way to repair or armor the existing modular retaining wall at the above referenced property. The following documentation were provided to Wenck by Pelican River Watershed District (PRWD) to review:

- 2 Plan Sheets for Retaining Wall Repairs – Modular Block Retaining Wall - by Heyer Land Surveying and Engineering, LLC, Dated May 2012.
- 3 Pictures of the retaining wall by PRWD (Retaining Wall Damaged and 2 of Retaining Wall In-place), Taken in April and August 2015.

Based on the information provided to Wenck by the PRWD, Wenck believes that the retaining wall should be reconstructed in the proposed location and method as shown on the May 2012 plans, prepared by Heyer Land Surveying and Engineering, LLC. Ice heaves/pressures on lakes can be unpredictable and substantial in nature. The long-term performance of the wall will be subject to the variability of ice heaves, and future damage may occur if future substantial pressures are applied to the shoreline and retaining wall.

Wenck understands the wall is close to the shore, which increases the potential for failure from ice heaving due to being closer to the water when it freezes, and recommends it be moved back to 12.5 feet. Wenck also recommends placement of natural lakeshore gravel on the outside of the wall, as called out in the plans. The placement of this gravel at slope will provide protection to the retaining wall from the ice, and provide a plane for the ice to travel upward and over to minimize direct pressures on the retaining wall.

Note, constructing the retaining wall as recommended above does not eliminate the potential for future failures as ice heaving can be very unpredictable and substantial, but should help minimize the potential for future failures.