



## **EAST BERM RIP RAP PROJECT 2024-2025**

**Project Area = 13 ft. wide by 200 ft. long along shoreline of Honey Lake (shown on attached maps). Honey Lake OHWM = EL. 770 ft.**

**Project to be completed by April 18, 2025, weather permitting and as determined by HLPRD.**

### **General Project Description (see page 2 for details)**

1. Install Erosion Control Measures in accordance with WDNR Technical Standards, Wis. Admin. Code 151.
2. Grade shoreline to no steeper than 1 ft. horizontal to 1.25 ft. vertical. Place fill above OHWM if necessary
3. Place and secure filter fabric
4. Place rip rap consisting of clean field or quarry stone between 6 in. and 48 in. diameter
5. Restore ground surface within project area, including storage areas and ingress/egress pathways

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### **\*All work to be performed in accordance with WDNR, Walworth County and ACOE regulations, and WDNR Riprap Exemption Requirements (attached)**

Riprap shall not be placed higher than EL. 773'

Riprap shall not extend more than 8 ft. waterward of EL. 770'

No other material, soil or fill shall be placed below EL. 770'

**Additional details and requirements are shown on following pages and attached maps**

**Contractor must supply current W-9 and Certificate of Insurance**

**Please provide separate costs for Materials and Labor/Equipment**

**Submit sealed bids by November 16, 2024, in person to Doug Webb (262-210-0287) or by mail to:**

Honey Lake Protection and Rehabilitation District  
P.O. Box 565  
Burlington, WI 53105

# Honey Lake East Berm Rip Rap Project General Scope of Work

## 1. Place Erosion Control

Install Erosion Control Measures in accordance with WDNR Technical Standards, Wis. Admin. Code 151. Erosion control measures to be removed upon final site stabilization and restoration.

## 2. Grade Shoreline

If necessary, remove vegetation. Eroded shoreline shall be graded to match existing non-eroded slope, but slope shall not be steeper than 1 ft. horizontal to 1.25 ft. vertical. Place fill above OHWM if necessary. Fill to consist of cohesive soil with no gravel larger than 4 inches and no deleterious materials. No more than 200 lineal feet of shoreline shall be disturbed, and no more than 10,000 square feet of total land disturbance is allowed.

## 3. Place Geotextile Filter Fabric

Geotextile filter fabric shall immediately be placed over exposed slope. Graded slope shall not be left exposed overnight. Geotextile filter fabric shall consist of nonwoven polypropylene fibers and appropriate for this project. (example material parameters attached, TerraTex N08)

## 4. Place Rip Rap

Rip Rap consisting of clean field or quarry stone between 6 in. and 48 in. diameter shall be placed above the geotextile filter fabric and follow the natural contour of the shoreline.

Rip rap shall not be placed higher than EL. 773 or more than 8 ft. waterward of EL. 770.

No other material, soil or fill shall be placed below EL. 770

## 5. Restore Surface

The voids within riprap above the OHWM shall be filled with soil and seeded with an appropriate native seed mix; or have the interstitial voids filled with 0.5 in. to 2 in. gravel.

The ground surface of the berm, and within any storage areas and ingress/egress pathways, shall be restored. This is to include the placement of soil fill and topsoil and secured grass seed mats, or placement and use other appropriate vegetation or restoration methods in accordance with WDNR requirements.

If erosion control netting is used it shall contain biodegradable threads with the "leno" or "gauze" weave that allows strands to move independently. Erosion matting used for this project shall be or be substantially similar to American Excelsior "FibreNet" or "NetFree" products; East Coast Erosion biodegradable jute products; Erosion Tech biodegradable jute products; ErosionControlBlanket.com biodegradable leno weave products; North American Green S75BN, S150BN, SC150BN, C125BN; or Western Excelsion "All Natural" products.

## **Additional Honey Lake East Berm Rip Rap Project Details**

1. The contractor shall obtain all required National, State, and Local permits that may be required by the Wisconsin DNR, the US Army Corps of Engineers, Walworth County, or other regulatory agencies.
2. The Project Area is not within WDNR ASNRI or PRF designated areas referenced in Ch. 30 Exemption Checklist.
3. The HLPRD has completed an Endangered Resources Preliminary Assessment. In addition, a WDNR ER Review was performed and **the following actions are required to protect endangered species:**

**Appropriate Erosion Control and Runoff Prevention measures must be implemented during the course of the project, per the DNR and the District.**

In addition, the following actions are recommended to protect identified endangered species:

Use native shrubs and flowering plants; provide plants that bloom from spring through fall using the Wisconsin Native Plant Species list; and remove and control invasive plants.

In-water impacts shall be avoided if project is not completed before April 18, 2025.

Minimize impacts within wetlands and in areas normally covered with more than 3 feet of water

# TerraTex N08

## Nonwoven Geotextile

TerraTex N08 is a nonwoven geotextile made up of polypropylene fibers. These fibers are needled to form a stable and durable network such that the fibers retain their relative position. It is non-biodegradable and resistant to most soil chemicals, acids and alkali with a pH range of 3 to 12. TerraTex N08 is manufactured to meet or exceed the following minimum average roll values:

PROPERTY	UNIT	ASTM TEST METHOD	Minimum Average Roll Values
<b>Weight</b> (Typical)	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	ASTM D5261	8.0 (271)
<b>Grab Tensile</b>	lbs (kN)	ASTM D4632	205 (0.911)
<b>Grab Elongation</b>	%	ASTM D4632	50
<b>Trapezoid Tear</b>	lbs (kN)	ASTM D4533	85 (0.378)
<b>CBR Puncture</b>	lbs (kN)	ASTM D6241	535 (2.38)
<b>Permittivity*</b>	sec <sup>-1</sup>	ASTM D4491	1.35
<b>Water Flow*</b>	gpm/ft <sup>2</sup> (1/min/m <sup>2</sup> )	ASTM D4491	90 (3657)
<b>A.O.S.*</b> (Maximum A.R.V.)	U.S. Sieve (mm)	ASTM D4751	80 (0.180)
<b>U.V. Resistance</b>	%/hrs	ASTM D4355	70/500

\* At the time of manufacturing. Handling, storage and shipping may change these properties.

1/2014