

Raccoon Creek Watershed - Harble Griffith

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Project Status: Complete: 6/29/12 ODNR Project Number: HC-Ws-17

Pre-construction



Gob and spoil pile with standing water, Photo by Amy Mackey

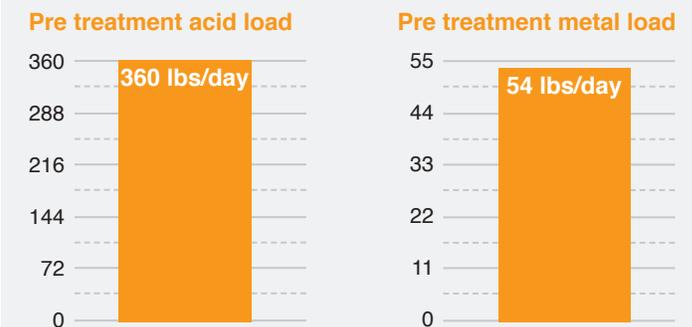
Harble Griffith project is located in Section 33 of Washington Township in Hocking County and lies within the 12 digit HUC unit #050901010202 just north of Mt. Pleasant. The Harble Griffith project discharge sites WB086, WB084 and WB094 all drain reclaimed areas (Figure 2). The project consists of approximately 30 acres of abandoned (pre-SMCRA) coal mine spoil located east of Harble Griffith Road. There are three large surface water pits that hold approximately 2 million gallons of AMD water and 29 acres of spoil. Due to poor surface water drainage throughout the project site most precipitation is directed inward to remnant ponds left by surface mining. These pits increase contact time with water and spoil and increase AMD generation. The treatment approach for this site consists of standard reclamation, re-grading, and re-vegetation of the 29 acre site. The pits will be drained and re-graded. Limestone channels (1100 linear ft.) are installed to treat residual drainage from the site along with a 10 acre passive wetland for metal retention. The goal of the design is to reduce approximately 300 lbs/day of acid loads and 50 lbs/day of aluminum loads from entering the West Branch of Raccoon Creek. The design was completed by ODNR-DMRM in-house, \$42,145. Construction was completed fall 2012 by Redd Malcuit \$1,202,607. Funding source for the project design and construction is ODNR-DMRM, OSM, and OEPA 319. Pre-treatment acid and metal loadings at sites WB086, WB084, and WB094 are shown in Figure 1.

Post-construction



Recontoured and seeded hillside after removal of gob and spoil piles
Photo by Amy Mackey

Site: WB086, WB084, WB094



Data derived using the Mean Annual Load Method (Stoertz, 2004).

Figure 1. Estimated acid and metal loadings prior to treatment

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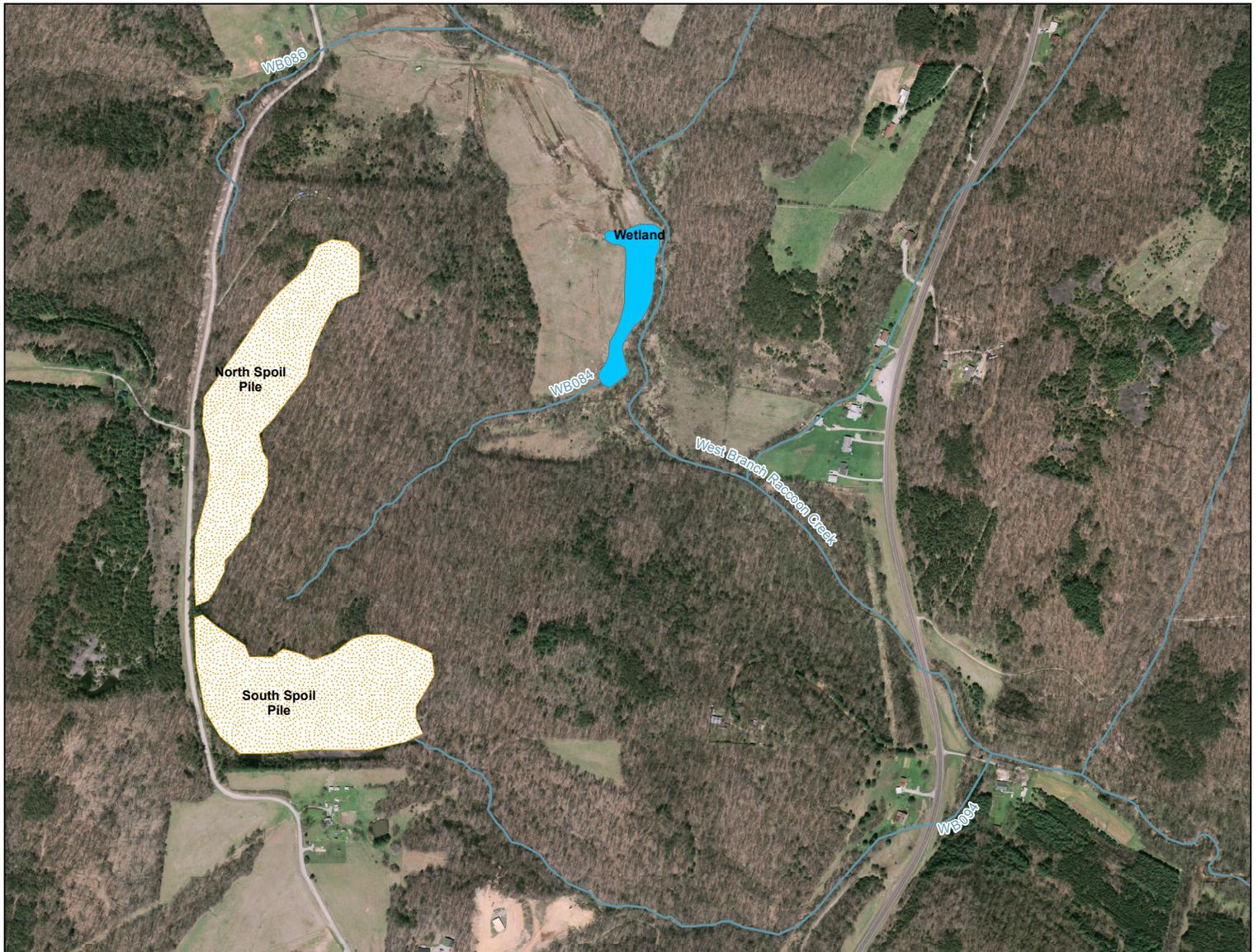


Figure 2: West Branch Raccoon Creek - Harble Griffith project discharge sites