



Engineers, Surveyors, Planners, Scientists

MEMO

Date: June 1, 2017

To: File

From: Shawn Arden

Subject: 20160169 – Minerva Park Lake Dam
Subgrade Compaction and Discussion with ODNR

Copies: Keith Libben – ODNR Dam Safety Program
Mayor Lynn Eisentrout – Minerva Park
Ron Tope – M/I Homes
Rick Warwick - ERC
Jim Rosebrock, Bob Hiles, Mike McGannon - GCI

This memorandum was prepared to document multiple conversations from Friday May 26th through Wednesday May 31st regarding subgrade compaction at the project site.

Rick Warwick (ERC) advised me on Friday May 26 that the construction crew encountered soft subgrade materials along the northern half of the embankment. In this location, the existing outboard embankment material has been excavated to allow for the installation of the proposed granular chimney drain and horizontal blanket drain. Prior to placing the granular drainage layers, ERC attempted to compact the subgrade materials. This compaction effort was unsuccessful in meeting the 95% Standard Proctor compaction rates specified in the plans.

Jim Rosebrock (GCI) visited the construction site on Tuesday May 30 to assess the subgrade conditions. Jim advised me that the subgrade appears to be stable, and the unsuccessful compaction test results are likely due to excess moisture. Jim recommended continuing with the construction of the granular drainage layers and embankment per plan without additional modification to the subgrade. Jim noted that he does not expect the subgrade condition will result in any stability or settlement issues.

I spoke with Keith Libben (ODNR) on Wednesday May 31 to advise him of the situation and the recommendation from GCI. Keith concurred that the construction can continue without additional modification to the subgrade materials.

I advised Rick Warwick of the conversations with GCI and ODNR. Rick will continue construction of the work without additional modification to the subgrade.