

**GLOUCESTER TOWNSHIP COUNCIL
JANUARY WORKSHOP**

APRIL 12, 2021

PUBLIC PORTION

1. A. CHADWELL DISCUSSION OF BLACKWOOD LAKE DAM

2. TOM CARDIS DISCUSSION OF 2021 COMMUNITY DEVELOPMENT
BLOCK GRANT

3. TOM CARDIS DISCUSSION OF GLOUCESTER TOWNSHIP
CONSTRUCTION GRANT APPLICATION

4. KEN LECHNER DISCUSSION TO AMEND THE LAND DEVELOPMENT
ORDINANCE

COUNCIL LIAISON REPORTS



February 16, 2021

Mr. Thomas Cardis
Gloucester Township
P.O. Box 8
Blackwood, New Jersey 08012

**Subj: Proposal for Engineering Services
Blackwood Lake Dam – Sink Hole Investigation
Township of Gloucester, Camden County, NJ
M2021-004**

Dear Mr. Cardis:

REMINGTON & VERNICK ENGINEERS (RVE) is pleased to submit this proposal to provide engineering services for the sinkhole investigation at the Blackwood Lake Dam. The sinkhole in question was observed on December 11, 2020, by Churchill Consulting Engineers during a condition inspection of the spillway bridge for Camden County. The sinkhole was reported to NJDEP Dam Safety by Camden County, who, in conjunction with Dam Safety, performed a limited test pit investigation of the sinkhole on December 21, 2020. After the December 21st test pit investigation, NJDEP Dam Safety issued a letter dated December 23, 2020, requesting additional investigation and testing by the dam's owner be performed to determine the cause and extents of any related embankment deficiencies associated with the sinkhole.

Accordingly, our scope of engineering services for this additional investigation is as follows:

1. Perform a review of available historical dam documents including previous inspection reports and original plans of the dam.
2. Perform a site inspection of the affected areas in and around the sinkhole locations.
3. Perform ground penetrating radar (GPR) at and adjacent to the sinkhole location to determine the extents of the loose and soft embankment soils observed during December 21, 2020 investigation.
4. Prepare a report presenting the findings of this additional investigation with recommendations for corrective action.

Exclusions:

Please note that our scope and fee do not include the following items and if they become required they will be considered as additional work and a separate proposal will be provided for consideration:

- Construction plans and specifications for repair of the dam embankment.

The fee for our services is billed on a time-and-material basis with a maximum not-to-exceed figure of \$7,905.00. The total not-to-exceed project fee will not be adjusted without written approval of a fixed fee to cover a change in the scope of work.