

James Pennington

From: Steve Rapson <srapsn@fayettecountyga.gov>
Sent: Monday, June 02, 2014 1:54 PM
To: Commissioners Group; Vanessa Fleisch
Cc: James Pennington; dadaven@bellsouth.net; lpope@fayettecountyga.gov; Frank.Destadio@ch2m.com
Subject: Lake Peachtree Update

Honorable Elected Officials,

This is the latest project timeline concerning the spillway analysis and refilling of Lake Peachtree. As you are aware, the county is funding the analysis to help expedite a viable solution we intend to setup a meeting to discuss the findings once all parties have had an opportunity to review. The full analysis will be presented to Peachtree City as the owner of the lake.

Project Timeline

CH2MHILL and Golder understand the urgent nature of the project based on the current condition of Lake Peachtree. Keep in mind that all plans will need to be introduced and approved through the State agencies and might alter the expected timeline. Based on the current understanding of the project, the scope of work proposed below can be provided according to the following schedule with Phases 2 through 4 running concurrently:

- ✓ **Phase 1** – concurrent with other phases
- ✓ **Phase 2** – 4 weeks – tentatively week of June 28th
- ✓ **Phase 3** – 6 weeks - tentatively week of July 14th
- ✓ **Phase 4** – 8 weeks - tentatively week of July 30th

Phase 1 – Project Management and Meetings

This phase includes coordination of Golder's Project Manager with CH2M HILL and with technical specialists within Golder who will be performing the work, as well as the survey sub consultant. This phase includes coordination between Golder and CH2M HILL prior to the date of this proposal and attendance at the site meeting on April 25th and the meeting with GA EPD on May 13th.

Phase 2 – Dam Breach Modeling

Dam breach modeling will be performed to determine the classification of the Lake Peachtree Dam in accordance with the Georgia Safe Dams Act and Rules for Dam Safety. The model will be used to assess the potential impact of a breach of the emergency spillway with the lake level maintained at defined level below the normal operating pool. Golder will also evaluate

the need for temporary modifications to the spillway which may be necessary to avoid discharge over the emergency spillway, in the event that the lake is maintained in its current condition.

Peachtree City to concurrently review Kelly Drive Bridge structural integrity

Visual inspection of column and foundation warrant further investigation.

Phase 3 – Evaluation of Alternative Rehabilitation Methods

Golder will evaluate alternative rehabilitation methods which Fayette County may present to GSDP for consideration of temporary refilling of the lake. Such methods may include more intrusive and extensive repairs to the concrete emergency spillway, construction of a temporary spillway upstream of the existing spillway, installation of alternate methods (siphons) to control the water level, etc. Golder will include order of magnitude cost and schedule implications of the various alternatives considered. Discussion of potential permitting requirements for the rehabilitation alternatives considered. The results of the evaluation will be provided in a technical memorandum.

Phase 4 – Emergency Action Plan (EAP) Preparation

Golder will prepare an EAP to provide Fayette County with guidelines for responding to emergency conditions that may be observed at the dam. The EAP will incorporate the breach analysis performed under Phase 2 to identify the limits of potential downstream flooding and structures likely to be impacted if failure of the dam were to occur.

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