

Memorandum

Date: 08 November 2024
To: David Griffin, P.E., Georgia Safe Dams Program (GSDP)
From: Wesley MacDonald, P.E., Geosyntec Consultants (Geosyntec)
Subject: Lake Petit Dam Spillway Repairs Update: Meeting Minutes

Location/Date/Time:

Teleconference / 28 October 2024 / 10:00 am ET

Attendees:

Georgia Safe Dams Program (GSDP):

David Griffin, P.E. and Kate Betsill

Big Canoe Property Owners Association (POA):

Scott Auer

Geosyntec Consultants (Geosyntec):

John Barrett, P.E., Wesley MacDonald, P.E., Jaime Mercado, P.E., and Jamey Dotson, P.E.

Meeting Highlights:

This meeting was held to provide the GSDP an update on the Lake Petit Dam spillway repair and maintenance project. Highlights from the meeting are detailed below.

Geosyntec provided an overview of the spillway repair design that is being developed for replacing the existing spillway chute, per the previous update with GSDP in September 2024. Geosyntec described the general layout and geometry of the proposed chute and stilling basin at the end of chute. The concrete chute will generally follow the existing spillway alignment and be designed with modern, standard details. The chute will be designed to be compatible with the flow capacity of the existing control structure (i.e., overflow weir) and will not influence the current discharge rating curve. Geosyntec explained that specifications will be provided on a sheet as part of the drawing set.

Geosyntec presented preliminary results of modeling of the spillway chute section using the flows based on the discharge capacity of the existing weir. The chute structure incorporates United States Bureau of Reclamation (USBR) guidance and lessons learned from the Oroville Dam spillway incident. Geosyntec noted that based on feedback from this meeting they will continue to work on design and details of the chute.

GSDP asked if the downstream energy dissipation channel opening is wide enough to allow flow discharged from the low-level outlet (LLO). Geosyntec explained they are planning to avoid restricting flow from LLO and will ensure this is mentioned in the design documents.

GSDP and the POA agreed for consideration of a fence to prevent public access to the spillway. Geosyntec confirmed that walls along chute and at downstream channel are anticipated to be constructed of concrete. GSDP had no additional comments with the modeling or design presented.

Geosyntec is reviewing the design schedule based on the more robust extent of design and replacement of the spillway, anticipates a schedule revision may be needed, and will keep the GSDP apprised once results are known. Geosyntec will schedule a follow-up meeting to present the progress on the design early in January 2025.

The meeting adjourned at 10:50 am ET.