

Memorandum

Date: 26 September 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 / 16 September 2024 / 3:30 pm 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 design basis and path forward for the Lake Petit Dam spillway repair and maintenance project. Highlights from the meeting are detailed below.

Geosyntec provided an overview of the spillway inspection findings and maintenance repairs performed in 2022 and 2023 to highlight the extent of repairs done in the existing spillway chute and its ongoing maintenance concerns and lack of modern design features. Geosyntec is proposing to replace the existing spillway chute with a more robust rectangular concrete channel without modifying the spillway control structure or the roadways (bridges) located upstream and downstream of the chute. The concrete chute will generally follow the existing 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.

GSDP agreed with the proposed conceptual design, design basis, and project path forward. It was clarified during the meeting that the energy dissipation within the chute will likely be provided by means of baffles based on recommendations from USBR design guidelines. GSDP requested that the design documents show that the new concrete chute will handle the same volume of water and

water will likely move faster in the new chute compared to the existing chute (i.e., will handle the oncoming flows from the existing weir structure). Geosyntec agreed and will include the language in the design package.

Geosyntec will schedule a follow-up meeting to present the progress on the design early in November. The design will be completed and submitted to POA by 02 December 2024.

The meeting adjourned at 3:53 pm ET.