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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 19, 2015

Mr. Curby D. Onheiser, Chairman
Caldwell Travis Soil and Water Conservation District (SWCD) #304
1403-D Black Jack Street
Lockhart, TX 78644

Mr. Johnie Halliburton, Executive Manager
Plum Creek Conservation District
P.O. Box 328
Lockhart, Texas 78644

Subject: Plum Creek WS SCS Site 18 Dam, Inventory No. TX03426
Plum Creek WS SCS Site 21 Dam, Inventory No. TX03428
Lower Plum Creek WS SCS Site 24 Dam, Inventory No. TX03429

Dear Sirs:

As you are aware, members of the Texas Commission on Environmental Quality (TCEQ) Dam Safety program inspected the subject dams on July 31, 2014 in the company of Mr. Johnie Halliburton, Plum Creek Conservation District Executive Manager. We have completed the enclosed inspection reports and have enclosed copies for your reference. We apologize for the delay in completing the reports and we understand that some of the recommended actions may have already been addressed.

We found the Plum Creek WS SCS Site 18 Dam to be in fair condition with maintenance items to be addressed. The primary issues of concern included the excessively tall vegetation growth on a majority of the embankment, the service spillway outlet, plunge pool, and the downstream channel; and a large seep at the toe of the downstream slope. See the report for further details. Additionally, it is recommended that a Licensed Texas Professional Engineer (LTPE) perform an updated hydrologic and hydraulic analysis using current methodology to determine hydraulic capacity of the dam and determine the needed improvements to upgrade the structure to safely pass the required probable maximum flood (PMF). See the report for further details.

We found the Plum Creek WS SCS Site 21 Dam to be in good condition with maintenance and repair items to be addressed. The primary issues of concern included: excessively tall vegetation growth along the upstream heel, the service spillway outlet and plunge pool area, and the downstream channel; bare areas along the crest and downstream slope; rutting along the crest; erosion from cattle traffic; wave-action erosion along the upstream waterline; and animal

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burrows on the upstream slope. See the report for further details. Additionally, it is recommended that a Licensed Texas Professional Engineer (LTPE) perform an updated hydrologic and hydraulic analysis using current methodology to determine hydraulic capacity of the dam and determine the needed improvements to upgrade the structure to safely pass the required probable maximum flood (PMF). See the report for further details.

We found the Lower Plum Creek WS SCS Site 24 Dam to be in good condition with maintenance items to be addressed. The primary issues of concern included erosion around the service spillway outlet and plunge pool, buried and/or broken toe drain pipe outlets, and animal burrows on the downstream toe. See the report for further details. Additionally, it is recommended that a Licensed Texas Professional Engineer (LTPE) perform an updated hydrologic and hydraulic analysis using current methodology to determine hydraulic capacity of the dam and determine the needed improvements to upgrade the structure to safely pass the required probable maximum flood (PMF). See the report for further details.

An Emergency Action Plan (EAP) was submitted for Sites 18, 21, and 24 on April 21, 2011. Please finalize your EAP by addressing any remaining comments provided in the TCEQ comment letter dated November 17, 2011. See the report for further details.

Please develop a written Operation and Maintenance (O&M) Plan for the dam and incorporate the recommendations in the enclosed report into the O&M plan. If you have any questions or concerns, please do not hesitate to contact me at (512)239-0440, or Joe Strouse, P.E. at (512) 239-4988 to discuss in further detail.

Sincerely,



Leigh Gatlin, P.E.
Dam Safety Engineer
Critical Infrastructure Division, MC-177

Enclosures: Plum Creek WS SCS Site 18 Dam Inspection Report
Plum Creek WS SCS Site 21 Dam Inspection Report
Lower Plum Creek WS SCS Site 24 Inspection Report