



STATE OF MISSISSIPPI
TATE REEVES
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHRIS WELLS, EXECUTIVE DIRECTOR

April 26, 2022

Tupelo Planning Committee
Tupelo City Hall
71 East Troy Street
Tupelo, MS 38804

Re: Dam Inspection – Proposed Butler Park Phase II
Tupelo, Lee County, Mississippi

Dear Planning Committee,

The Mississippi Department of Environmental Quality (MDEQ) Dam Safety Division received a request from Randy Hathcock of Engineering Solutions, Inc. to review plans associated with the proposed Butler Park Phase II development and perform an inspection of the existing lake centered in the development. MDEQ performed an inspection of the 4.5-acre lake and associated dam on April 10, 2022. Photos from the inspection are enclosed. MDEQ concurs with Hathcock that the dam is below 8 feet in height, making the construction exempt from permitting requirements during the initial construction. This dam is currently considered a low hazard dam, because should the structure breach, the resulting failure would not result in the potential for loss of life or damage to substantial infrastructure. No permits would be required from our office regarding dam modifications unless the height of the dam is increased to more than 8 feet in height.

During inspection, MDEQ noted the following issues that should be addressed during development construction:

- Trees and shrubs are growing on the upstream and downstream slope of the dam. Their roots are damaging to the structure. The dam should be cleared of all woody vegetation.
- The front face of the dam has suffered minor wave wash erosion. This area should be regraded and thought given to placing erosion protection on the front face to prevent further erosion.
- The dam structure has a single spillway channel that appears degraded. MDEQ recommends the spillway channel be modified to ensure that the primary spillway structure that controls the water level in the dam be constructed of an erosion resistant material.
- Consideration should be made to ensure that any construction in proposed Lot 5 be elevated to ensure any construction would be above the resulting flood in the event of dam failure.

If you have any questions or comments regarding your construction project or dam related issues, please call me at (601) 961-5207.

Sincerely,

William McKercher P.E.
Chief, Dam Safety Division

Enclosures

Butler Phase II - Tupelo, MS
April 10, 2022 10:39:27 AM
lat/long: 34.274, -88.780
Altitude: 83.0
Azimuth: -172.4 deg(S)

Saplings and brush growth on
downstream slope.



Butler Phase II - Tupelo, MS
April 10, 2022 10:43:20 AM
lat/long: 34.274, -88.780
Altitude: 84.3
Azimuth: 96.9 deg(ENE)

Poorly defined and degraded spillway.



Butler Phase II - Tupelo, MS
April 10, 2022 10:44:32 AM
lat/long: 34.273, -88.780
Altitude: 84.4
Azimuth: 106.1 deg(E)



Butler Phase II - Tupelo, MS
April 10, 2022 10:36:47 AM
lat/long: 34.272, -88.782
Altitude: 78.4
Azimuth: 168.6 deg(SE)

