

Woodland Pond Dam Regulatory Compliance Alternatives

Last Updated January, 2019

Compliance Alternatives Studied

- Timmons Group evaluated 5 alternatives in 2016 and 2017. The alternatives analysis is on the WPLA website.

Alternative Description	Cost \$
1. Regrade the existing auxiliary spillway to enable the conveyance of the 0.9 PMP storm without overtopping the dam – not feasible without cutting into the impoundment	Not estimated
2. Regrade the existing auxiliary spillway to enable the conveyance of the 0.6 PMP storm without overtopping the dam – WPLA cannot obtain Insurance for dam failure required to utilize this option	\$376,000
3. Install Articulated Concrete Block (ACB) overtopping protection along the dam crest and downstream slope	\$2,780,000
4. Install HydroTurf overtopping protection along the dam crest and downstream slope.	\$1,679,000
5. Install a concrete parapet wall along the crest of the dam and regrade the existing auxiliary spillway to enable the conveyance of the 0.9 PMP storm without overtopping the dam	\$990,000

Compliance Alternatives Studied

- Timmons Group is currently evaluating 3 new alternatives, and we should have estimates in 1Q2019.

Alternative Description

1. Lower the emergency spillway elevation to 1 ft above the overflow riser, and widen the emergency spillway into the existing dam impoundment and harden it with hydroturf, so we don't have to raise the height of the dam.

2. Lower the emergency spillway elevation to 1 ft above the overflow riser, widen the spillway without cutting into the existing dam impoundment, and raise the height of the dam with soil by adding it to the front side of the dam.

3. Lower the emergency spillway elevation to 1 ft above the overflow riser, widen the spillway without cutting into the existing dam impoundment, and raise the height of the dam by adding a concrete parapet wall to the top of the dam.

- We tabled the option of widening the emergency spillway and lowering the pond level so the dam is not over topped during a storm event. The pond would have to be lowered by too many feet, drying up the coves, and making it necessary to dig the pond deeper and revise owner docks. We can revisit this option if necessary.