



April 16, 2021

Clinton Stredwick  
Municipal Planner  
Township of Southgate  
185667 Grey County Rd 9  
Dundalk ON N0C 1B0

Dear Mr. Stredwick,

**RE: Site Plan Application SP13-20  
100 Eco-Parkway, Dundalk  
Township of Southgate (Geographic Township of Proton)  
Applicant: Petawawa Biofuel LP**

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The Grand River Conservation Authority (GRCA) has now had the opportunity to review the following information submitted in support of the above noted application:

- Comment Response Letter, Site Plan Application SP13-20, 100 Eco-Parkway, Dundalk, WalterFedy, March 31, 2021.
- Servicing & Stormwater Management Report – Southgate Biofuel Facility. Eco-Park Lot, Dundalk, ON. WalterFedy, March 31, 2021. Including Appendix C drawings - Grading Plan, Erosion and Sediment Control Plan.

Based on the information provided, the GRCA recommends deferral of the site plan application to allow the applicant an opportunity to respond to the comments provided below.

**Required Comments:**

1. The pipe slope for the 150mm orifice outlet from the dry pond is specified at 0%. Design guidelines recommend a minimum pipe slope of 1% as reverse sloped pipes provide more resiliency to clogging. The outlet pipe slope should be reviewed.
2. Table VI in the Servicing and Stormwater Management Report indicates that the ponding elevations for the 1:25 year and greater runoff events are 506.61m or higher, however the overflow weir is set at an elevation of 506.60m. The outlet pipe should be designed to drawdown the pond for events up to the 1:100 year event. Please review the design elevation of the overflow weir or provide clarification on this design element.
3. Please revise draw down calculations and detention time for the proposed dry pond accordingly if any revisions are made to the design based on the previous two comments.

## Advisory Comments to the Applicant:

4. The calculated maximum flow rate from the manually operated valve that will be released from Catchment 203 (containment area) is 135 L/s. The March 31, 2021 Comment Response Letter to GRCA's Comment #1 states that the flow rate from the dry pond will be 0L/s several hours after the rain event, at the time that the valve will be manually opened to release flows from the containment area. It is recommended that guidelines are in place to ensure operations are carried out such that flows from the containment area will not coincide with the drawdown from the dry pond, which has been determined to have a drawdown time of 48 hours for events greater than the 25 year.

Should you have any questions regarding this letter, please contact the undersigned at 519-621-2763 ext. 2231 or [lwarner@grandriver.ca](mailto:lwarner@grandriver.ca).

Sincerely,



Laura Warner  
Resource Planner  
Grand River Conservation Authority  
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- c.c. Elisha Milne, Township of Southgate (via email)  
Mark Bell, Petawawa Biofuel LP (via email)  
Dan Ferguson, Walterfed (via email)  
Katelyn Lynch, GRCA (via email)