

Memo

То:	Lindsay Deane-Mayer	From:	Kaleb Bourassa, El/Steve Bushey, PE
Date:	June 19, 2019	Re:	Roxbury Wind Project – Roxbury, ME Environmental Impacts Analysis Transmission Analysis

Gorrill Palmer has reviewed the site plans designed by Stantec Consulting and submitted with RoxWind LLC's application. Gorrill Palmer has updated those plans to include the 34.5 kV collector system corridor that was originally described in the application. The addition of the collector system corridor increases the project's footprint by 2.83 acres¹ with no addition of impervious area. Combined with the original design footprint of 16.9 acres, the project, with the collector and communication system corridor, occupies less than 20 acres and creates fewer than 3 acres of new impervious surfaces.

The collector system is designed to include 19' of clearing on either side of the system. To minimize the appearance and footprint of the collector system, it runs adjacent or in proximity to the existing CMP collector system. This allows the project to minimize its cleared area by utilizing the already existing cleared and maintained corridor when immediately adjacent to CMP's right of way. This also decreases the amount of vegetative maintenance required in and around the project's corridor attributable to the new system.

At the bottom of the mountain, the collector system terminates at pole-mounted reclosers, meters, and required safety equipment and connects to CMP's infrastructure. As described in the stormwater letter dated June 17, 2019 from Gorrill Palmer, this project will produce an insignificant amount of runoff and will not have adverse effects on downstream conditions.

The layout of the collector system, as depicted on C-T1.0 and C-T2.0, minimizes impacts to the mapped wetlands and streams. Currently it is anticipated that there will be approximately 690 sf of wetland clearing at one location at the top of the mountain. This wetland is identified as W-01RKB and was delineated by Stantec in April 2018. It is described as an old skid trail/woods road and, therefore, vegetation in the wetland is represented by low-lying bushes and tall grasses with denser forest located outside of the wetland. More than 65% of the wetland is located within the existing CMP corridor and has been disturbed from clearing and vegetative maintenance. Locating the corridor adjacent to the cleared CMP right-of-way in this area minimizes overall impacts. No other wetlands will be impacted by direct filling or clearing. Where clearing is proposed within close proximity to natural resources, it is imperative that proper erosion and sediment control techniques and BMP's are employed in order to minimize temporary and long-term impacts from construction. Double sediment barriers are to be used around wetlands and streams downgradient of proposed work. The collector system is proposed to cross 4 intermittent streams. Clearing of approximately 123 linear feet (combined) among the 4 streams will be required. Again, no filling is proposed for the streams as part of this work.

The impacts proposed from the transmission line corridor is relatively small and will not have an adverse impact on the mapped natural resources as originally designed and submitted.

¹ The increase in acreage over the 1.5 acres calculated in the initial application is mainly due to increasing the clearing around the line to allow for improved access and maintenance.

Ms. Lindsay Deane-Mayor June 19, 2019 Page 2



Gorrill Palmer

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