

## **Section 12**

### **Stormwater Management**

Please see attached Stormwater Report completed by BH2M Engineers



Berry, Huff, McDonald, Milligan Inc.  
Engineers, Surveyors

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August 14, 2018  
Revised November 2, 2018

Bob Metcalf, President  
Mitchell and Associates  
70 Center Street  
Portland, Maine 04101

RE: 66 Milliken Street  
Stormwater Summary  
Portland

Dear Bob,

As you know our office completed the stormwater design in conjunction with your firm of this parcel back in 1999 for Durastone. The design of this project involved permitting with both the City of Portland and the Maine DEP (SLODA permit which the City had delegated authority to review). The stormwater design at the time involved the collection of runoff onsite by a vegetated swale and discharge to a detention basin where treatment and quantity control were provided by the stormwater facility designed to meet the DEP standards at the time that involved the removal of total suspended solids. The Maine DEP requirements for Stormwater Facilities (Wet Ponds and Vegetated Soil Filter Fields) have changed significantly since that time.

The vegetated ditch that was designed to collect the runoff from the site and discharge the runoff to the detention basin, namely the Easterly side of the building, was not constructed properly by the previous land owner as part of the site improvements. As a result, there is limited runoff that is directed to the existing stormwater facility (detention basin).

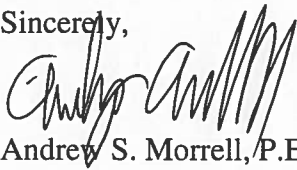
The applicant is looking to change the use of the site as described in the application materials submitted to the City as part of the Level II Site Plan that has been submitted for this project. This project does not involve an increase in the impervious area on the site. Please note some of the existing unpermitted impervious area onsite, that was constructed by the previous land owner, is proposed to be removed and revegetated as part of this project (see plans for additional information). As part of this project the applicant is looking to make some stormwater improvements to the site to assure that a larger amount of the site runoff is more effectively treated with an updated stormwater facility. To accommodate this goal the design has proposed a vegetated swale around a majority of the building to collect the runoff from both the building and the parking and access road areas. This ditch has been directed to the existing stormwater facility onsite. It is our understanding that the redevelopment requirements for both the City and the Maine DEP require that at least 50% of the developed area of this project is treated within the stormwater facility. The current design treats well over 50% of the site developed area (see plans for more information). This project also proposes to convert the existing detention basin

into a vegetated soil filter field meeting all applicable Maine DEP construction requirements. The proposed vegetated soil filter field will provide both quality and quantity treatment for the site as the existing outfalls will remain and serve as an emergency spillway for the facility.

We feel this design accomplishes the goal of providing quantity and quality treatment for the site meeting both City of Portland, and Maine DEP standards. The proposed design has provided a significant improvement on the stormwater aspects of the site. Please note the design also incorporates typical erosion control measures that will assure no adverse impacts are created to the downstream conditions or to the abutting natural resources.

Please call me if you have any questions regarding this application or if any additional information is needed for this submission. We look forward to working with the City on this project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andrew S. Morrell', written over a horizontal line.

Andrew S. Morrell, P.E.