

ECR

Environmental Consulting & Restoration, LLC



WETLAND DELINEATION MEMO

TO: Morse Engineering Company
FROM: Brad Holmes
DATE: November 16, 2020
RE: Dolan Lane, Cohasset

Pursuant to our site meeting with Jeff Summers on November 10, 2020 to review the wetland delineation at the property located off Dolan Lane in Cohasset (the Site), Environmental Consulting & Restoration, LLC (ECR) is submitting this revised wetland delineation memo to update the description of wetland resource areas at the site. This site is located to the east of Dolan Lane and to the south of 264 Dolan Lane. As we observed on site, there is a 4-inch white pvc pipe under the roadway that connects the vegetated wetland at the site to an offsite BVW to the west. This pipe starts at wetland flag E4 at the site. ECR did not observe this pipe during the 8/24/20 delineation event. Although there was no evidence of flow on either side of the road associated with this pipe, ECR assumes that this pipe is not clogged and provides a connection between the two wetland systems on either side of Dolan Lane. Therefore, this wetland system should be classified as a Bordering Vegetated Wetland in accordance with the regulations found in the Massachusetts Wetlands Protection Regulations (310 CMR 10.55).

As part of the proposed work within the buffer zone to the BVW at this site, ECR in collaboration with Morse Engineering Company have designed several project improvements and buffer zone enhancements. More specifically, please note the following:

- **Project Improvements** – In order to minimize impacts within the buffer zone, the proposed project has been revised to include pervious pavement and stormwater improvements such as a stone infiltration trench along the proposed driveway and a rain garden at the base of the driveway. The rain garden will include native plantings and will help to process clean water prior to entering the buffer zone and eventually towards the BVW. The native planting will add to the value of the buffer zone.
- **Buffer Zone Enhancements** – The proposed project within the 50-foot buffer zone occupies approximately 1,950 square feet. The buffer zone is sparsely vegetated and could be improved with supplemental native plantings. Therefore, we are proposing 23 native shrubs within the buffer zone, which is calculated based on the amount of proposed project area within the 50-foot buffer zone. Meaning, if the proposed project area within the buffer zone of 1,950 square feet was planted with shrubs spaced 10 feet on center, it would require 23 shrubs. The following plant list is proposed consisting of native shrubs (at least 2 feet in height) for planting within the 50-foot buffer zone at the direction of the overseeing specialist within areas that are sparsely vegetated:

- 4 Witch Hazel (*Hamamelis virginiana*)
- 4 Inkberry (*Ilex glabra*)
- 4 Winterberry (*Ilex verticillata*)
- 4 Bayberry (*Myrica pennsylvanica*)
- 4 Shadbush (*Amelanchier canadensis*)
- 3 Black Chokeberry (*Aronia melanocarpa*)

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Upon planting, each shrub should be mulched with natural wood chips to protect the root ball and provide future nutrients. All shrubs are native species that provide biodiversity and significant wildlife habitat value to the site.

Upon review of this wetland delineation memo, please contact me at (617) 529 – 3792 or brad@ecrwetlands.com with any questions or requests for additional information.

Thank you,
Brad Holmes, Professional Wetland Scientist #1464
Manager