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MEMORANDUM

TO: Sarah Porter, New Bedford Conservation Commission

FROM: Scott Turner, PE, Nitsch Engineering ST

DATE: May 15, 2017

RE: Logal Site Status/100 Duchaine Boulevard Certificate of Compliance Request

Below is a summary of the site observation conducted by Nitsch Engineering at the Logal Property located at 100 Duchaine Boulevard in New Bedford, Massachusetts on Friday, May 12, 2017 at noon. The site walk was attended by Craig Dixon, Dennis Audette, and Chance Perks from the Conservation Commission; Sarah Porter, Conservation Agent; and Rich Riccio from Fields Engineering. The purpose of the meeting was to observe site conditions for compliance with the approved plans. The following items were observed during the site visit:

1. The depression, field drains, and piping near Wet Basin 1 that had been approved as part of an amended Order of Conditions had been installed and appears to be functioning as intended.
2. There appeared to be a hose in Wet Basin 1. It is unclear why this hose is in Wet Basin 1 and it should be removed.
3. The parking lot near the loading area has not been changed since the last site observation. The parking area was graded incorrectly and there is significant puddling in the parking area. The area draining to the Stormceptor unit with a double grate has not been uniformly graded and there is significant puddling in the parking area. It is unclear whether the grate has been set too high or the parking area around the grate has either settled or is too low. This could become an issue in the winter.
4. The stone in the rip-rap pad that is located upstream of the sediment forebay of Wet Basin 1 has been replaced with larger stone. The pad is functioning as intended. There was significant sediment that had accumulated in the rip-rap pad. This pad will need to be maintained soon. If additional sediment accumulates in the pad it may become completely silted up.
5. The edge of the bituminous parking area near the sediment forebay has been repaired and appears in good condition.
6. The stone between the sediment forebay and the storage area of Wet Basin 1 has not been modified. It still appears to be also appears to be too small. There is vegetation growing in the stone.
7. The side slopes of Wet Basin 1 have not been altered since the last visit and appear to be steeper than 3:1. 3:1 side slopes were part of the approved plans. The side slopes appear to be stable and have vegetation that prevents the slopes from eroding. The volume of the basin is adequate. However, the steep side slopes can be a maintenance issue.
8. The outlet control structure from wet basin has been damaged. It appears that machinery has hit the top of the structure and the top was dislodged. The trash rack had been constructed with a 1-inch diameter PVC pipe. This rack has cracked and some of the pipes have become loose and dislodged. The trash rack needs to be repaired or replaced.
9. The steel plate on the outlet control structure from Wet Basin 1 has been installed.
10. The stone at the discharge points into the sediment forebay at Wet Basin 2 has not been modified. Additional rip-rap needs to be replaced at the discharge points into the sediment forebay at Wet Basin 2.
11. Similar to Wet Basin 1, it appears the side slopes around Wet Basin 2 remain too steep. All slopes appear to be stable.
12. Similar to Wet Basin 1, there is vegetation in the stone spillway between the sediment forebay and wet basin as well as at the discharge point form the wet basin.

13. Rip-rap stone has been placed at the discharge pipes into Detention Basin 1. Rip-rap stone has also been placed at the overflow from Detention Basin 1. It does not appear that the stone meets the approved plans.
14. The side slopes of Detention Basin 1 appear to be steeper than 3:1. In general, the side slopes have vegetation covering the slopes and appear to be stable.
15. There are some erosion and sedimentation control measures that still remain on the site. The silt fence and haybales should be removed.
16. It is unclear how much maintenance has been performed on the site. As described above, some of the rip-rap features have accumulated sediment. It is unclear whether any of the catch basins or stormceptor have been cleaned. We did observe some cutting of grass within the wet basins and detention basins. In Detention Basin 1, some of the grass clippings had been dumped in the bottom of the basin.

Please call if you have any questions.

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