

August 24, 2022

W-6250

Deerfield Conservation Commission
Deerfield Municipal Offices
8 Conway Street
South Deerfield, MA 01373

RE: DEP File No 142-0231, SunnyDayz ANRAD Filing

VIA EMAIL

Dear Conservation Commissioners:

Included with this letter is a revised plan for the ANRAD Filing to replace the plan we filed earlier. This plan has been modified to add a short section of wetland resource area delineation (BVW and Mean Annual High Water for Riverfront) located along the south side of the main brook within the Greenfield Road (Route 5) right-of-way to the south of the previous plan area. A delineation report is also included with this letter for the added delineation. All the wetland delineations shown on the previous plan remain unchanged.

This added delineation and survey was found to be necessary for the project planning as there will be the need for installation of some utilities along the side of roadway to service the project. That utility work will be within buffer zones to wetlands that were not included on the previous plan.

We are also sending this information to the Mass. DEP and to the Peer Reviewer (Kate Bednaz) for their information. Two hard copies of this will also be sent to your office for your files.

Please include this information in this ANRAD filing. Contact me or the Applicant (Ken Bouquillon) if you have any questions on the included material.

Sincerely,
DGT Associates

Fredric W. King

Fredric W. King, P.E.
Senior Wetland Specialist

Attachments: - Plan entitled "Topographic Plan of Land in Deerfield, Massachusetts, Franklin County" dated August 24, 2022, by DGT Associates. (6 sheets).
- Letter Report "Wetland Resource Area Delineation Report 2" dated August 1, 2022, by DGT Associates.

CC: Ken Bouquillon
Mass. DEP Western Region, Thomas Grizkos
Kate Bednaz (Freshwater Wetlands Services)

August 1, 2022

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Mr. Kenneth Bouquillon
SunnyDayz, Inc.
50 Locust Street
Lynn, MA 01904

RE: : Greenfield Road (Rt. 5) Site, Deerfield, MA.
Wetland Resource Area Delineation Report 2

Dear Mr. Bouquillon:

On July 29, 2022, I visited the site to provide additional delineation of wetland resource areas that are anticipated to be in close proximity to proposed construction work for the project. Specifically, it has been determined that the installation of a water service main for the project will connect to the existing Town Water Main in front of the Franklin County Emergency Medical Service (EMS) facility located on the east side of Greenfield Road south of the project site. It is anticipated that the water line will cross the road from the connection point and will run northerly along the west side of the road to the project entrance. This work will be within the Buffer Zone and Riverfront Area of a portion of wetland located along Greenfield Road, south of the main brook culvert crossing. This portion had not been previously delineated.

As part of this work, I also checked the area on the east side of Greenfield Road near the proposed water connection point to see if there were any wetlands resources areas on that side of the road that would be near that water service installation. I found that the nearest wetlands are at the main culvert entrance approximately 500 feet north of the connection point. Therefore, no additional delineation was performed in this area.

The wetland resource areas on the west side of the roadway are associated with the presumed perennial stream at the south end of the site. The added delineation included the Mean Annual High Water / Bank along the south side of the stream and associated Bordering Vegetated Wetland

MEAN ANNUAL HIGH WATER AND BANK OF THE MAIN STREAM CHANNEL.

This feature is similar to the delineation of Mean Annual High Water (MAHW) that was performed earlier on the north side of the stream, the bank is relatively high and nearly vertical. Undercuts and flow marks on the banks were observed and were found to generally be at or below the top of the Bank on this side of the stream. Therefore, the flagging was placed at the top of the Bank and the MAHW flags also serve as the "Bank" location.

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Greenfield Road (Rt. 5) Site, Deerfield, MA.
Wetland Resource Area Delineation Report 2

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Pink survey flagging (ribbon) was used and the flagging begins at MAHW K-1 at the outlet of the culvert off Greenfield Road. The flagging follows to bank southwesterly and ends at flag MAHW K-11, just beyond the road right-of-way.

It was noted that the main stream that is presumed to be perennial, was dry at the time of this added delineation. However, it is also noted that the Mass. Secretary of Energy and Environmental Affairs has determined that the Connecticut River Valley is currently in Level 2 “Significant Drought”. Therefore, the fact that it is presently dry does not overcome the presumed perennial status of the stream.

The 200 foot Riverfront Area is a line 200 feet from this MAHW line.

BORDERING VEGETATED WETLAND (BVW)

A BVW exists along the entire streambank within the road right-of-way and into the abutting private property to the west. The BVW runs south from the main culvert along the base of the steep side-slope of Greenfield Road and then bends to the southwest along a steep slope from the wooded upland and into the abutting private property.

The BVW boundary was marked with blue survey ribbon labeled BVW K-1 to BVW K-14.

The delineation of Bordering Vegetated Wetlands was performed in accordance with current Mass. Department of Environmental Protection methodology as contained in the DEP Handbook “Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act” dated March 1995.

The delineation was performed using vegetation, soils and other indicators of wetland hydrology. To set the line, continual visual estimations of vegetation species dominance and observation of wetland hydrology were made, along with frequent observations of soils using a hand soil auger.

In all areas for this particular section, the limit of the BVW was quite distinct and easily determined. This is due to the abrupt change in topography and soil conditions at the wetland boundary. As such, no observation transects with sample plots were deemed necessary at this particular area.

The BVW at this location is classified as a shrub swamp with very dense ground cover. Typical wetlands shrub species include: Silky Dogwood (*Cornus amomum*); Elderberry (*Sambucus canadensis*); Winterberry Holly (*Ilex verticillata*); and some saplings of Red Maple (*Acer rubrum*) and American Elm (*Ulmus americana*). Typical herbaceous ground cover includes: Sensitive Fern (*Onoclea sensibilis*); Royal Fern (*Osmunda regalis*); Cinnamon Fern (*Osmunda cinnamomea*); Jewel weed (*Impatiens capensis*); Rough-stemmed Goldenrod (*Solidago rugosa*) and various sedges (*Carex* spp.).

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The upgradient woodland area from flags BVW K-1 to BVW K-8 is about 6 feet higher than the BVW with a steep embankment to the wetland. The trees are mainly Red Maple with some White Oak (*Quercus alba*); Black Cherry (*Prunus serotina*); and American Elm. Ground cover includes Virginia Creeper (*Parthenocissus quinquefolia*); and Canada Mayflower (*Maianthemum canadense*). Soils are clearly non-hydric with no signs of wetland hydrology.

The delineation flagging will be located by the project surveyors and added to the base topographic plan.

Please contact me if you have any questions or need further information.

Sincerely,
DGT Associates

Fredric W. King

Fredric W. King
Senior Wetland Specialist



SKETCH OF
WETLAND DELINEATION

7/29/2022 FWK

0.9 = 100'

100'

BVW FLAGS = BVW K-1 TO BVW K-14 BLUE RIBBON
 MATHW FLAGS = MATHW K-1 TO MATHW K-11 PINK RIBBON