



## Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

Charles D. Baker  
Governor

Karyn E. Polito  
Lieutenant Governor

Kathleen A. Theoharides  
Secretary

Martin Suuberg  
Commissioner

September 27, 2021

Mr. Thomas E. Parece, P.E.  
AECOM Technical Services, Inc.  
250 Apollo Drive  
Chelmsford, Massachusetts 01824

City/Town: Orleans  
RE: Hydrogeologic Disposal Modification  
Facility Name: GW#933-0 Orleans WWTF  
Authorization Type: Approval

Dear Mr. Parece:

The Massachusetts Department of Environmental Protection (MassDEP) has completed its review of the application for modification of the design of the Wick Discharge for the Orleans Wastewater Treatment facility.

As part of the application submitted by AECOM on June 14, 2021, MassDEP received the following:

1. One (1) Typical Wick Design Plan Sheet with the following Title:

DOWNTOWN AREA WWTF  
AND  
EFFLUENT DISPOSAL  
CONTRACT NO. 2019-1 SRF NO. 4486  
SHEET NUMBER 99 C-505

2. A summary of wick volume and surface area calculation sheet
3. The MassDEP approved Lots Hollow Hydrogeological report

Pursuant to 314 CMR 5.09 (1) (f), MassDEP hereby **approves** the modification to the Wicks Design by AECOM subject to the following conditions:

1. The design flow of the proposed groundwater discharge shall not exceed 500,000 gallons per day at either 32 or 43 Lots Hollow Road.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

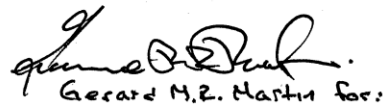
MassDEP Website: [www.mass.gov/dep](http://www.mass.gov/dep)

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2. The proposed wicks shall be constructed within the footprints indicated on Figures 4 and 5, found in the MassDEP approved Hydrogeologic Report.
3. There are private wells which might be affected by the discharge at the site and will need to connect to the Town of Orleans public water supply or be monitored on an annual basis for adverse impacts.
4. There is possible impact of mounding on the marshes; therefore, monitoring of the species present is recommended prior to discharge to document any potential changes during discharge commencement.
5. An Initial Groundwater Monitoring Well and Groundwater Quality Report must be submitted to this office prior to any discharge of wastewater. This report must include:
  - a. a final surveyed site plan with location of the wick wells, all monitoring wells and all appropriate elevation data,
  - b. boring logs and well construction details for all monitoring wells, and
  - c. the analytical results of the groundwater samples collected from the final groundwater monitoring wells. These results will establish the baseline groundwater quality for the site.

If you have questions regarding the comments and conditions of this approval, please contact Steve Hallem at (617) 292-5681 or [Stephen.hallem@state.ma.us](mailto:Stephen.hallem@state.ma.us).

Sincerely,



Brian Dudley, Section Chief  
Wastewater Management – Cape and Islands

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DEP/Boston  
Attn: Stephen Hallem