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COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE

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July 25, 2006

TOWN CLERK-CARLISLE
CHARLENE M. HINTON

Richard J. Harrington, P.E.
Stanski and McNary, Inc.
80 Harris Street
Acton, Massachusetts 01720

RECEIVED

JUN 18 2006

BOARD OF HEALTH
CARLISLE

RE: Request for Clarification
Groundwater Mounding Analysis and Pressure Distribution

Dear Mr. Harrington:

The Metropolitan Boston-Northeast Regional Office of the Department of Environmental Protection ("MassDEP") received your July 17, 2006 letter in which you request clarification regarding regulatory requirements related to groundwater mounding analysis and pressure distribution. Previously you had contacted a MassDEP engineer about the same matter.

From both of your communications with MassDEP it is clear that your questions are related to the construction of a new condominium complex with an overall design flow of less than 10,000 gallons per day ("gpd") and an on-site public water supply. You propose to have multiple septic systems serving the property. Each of these septic systems is proposed to have a design flow of less than 2,000 gpd. You request clarification as to whether a groundwater mounding analysis is required in accordance with 310 CMR 15.212(2). In addition, you have requested clarification whether pressure distribution is required in accordance with the requirements of 310 CMR 15.254(1)(a) and (2)(a).

Your questions were posed to the MassDEP staff in each of the four regions as well as the Boston program staff for input and review. Their input was unanimous in this regard. Title 5 at 310 CMR 15.002 defines an on-site system as a system or series of systems. As such the design flow of the overall site exceeds 2,000 gpd despite being served by multiple systems. Therefore, pressure distribution and a groundwater mounding analysis are required.

The proposed development is to be served by an on-site public water supply. That on-site public water supply will have either an Interim Wellhead Protection Area ("IWPA") or a Zone II IWPA and Zone II are designated as Nitrogen Sensitive Areas in accordance with 310 CMR 15.215(1). Title 5 at 310 CMR 15.202(1) mandates the use of a Recirculating Sand Filter ("RSF") or equivalent technology for systems designed to serve a facility, such as the one proposed for this site, with a design flow in excess of 2,000 gpd in a Nitrogen Sensitive Area. A Recirculating Sand Filter or equivalent technology must be included on each of the systems to serve this proposed development.

This information is available in alternate format. Call Donald M. Gomez, ADA Coordinator at 617-556-1057. TDD Service 1-978-694-3492.

<http://www.mass.gov/dep> • Fax (978) 694-8499

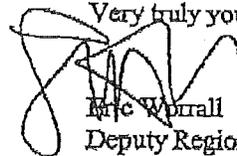
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Richard J. Harrington, P.E.
July 25, 2006

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MassDEP trusts that this information has provided the clarification you have requested. If you have any questions regarding this matter, please contact Claire A. Golden of my staff at (617) 654-6516.

Very truly yours,



Eric Worrall
Deputy Regional Director
Bureau of Resource Protection

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cc: David F. Ferris, BRP/Boston
Ron White, BRP/Boston
Brian Dudley, BRP/SERO
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