

July 17, 2017

Mr. Andrew R. Port, AICP
Director of Planning & Development
City of Newburyport
60 Pleasant Street
Newburyport, MA 01950

SUBJECT: Review of Evergreen Valley Golf Course Soil Sample Results

Dear Mr. Port:

We are in receipt of the June 5, 2017 letter report from Northeast Geoscience Inc. (NGI) transmitting the results of the soil samples collected at the Evergreen Valley Golf Course in Newburyport, MA. The soil samples were collected on March 21, 2017 under the observation of a representative of AECOM. Eight soil samples were collected at the locations identified by AECOM in a November 8, 2016 email to Lisa Mead.

The NGI letter report was reviewed by Robert Kennedy, a project chemist with AECOM who also reviewed the 2016 groundwater pesticide analytical results from the EMA lab. AECOM agrees that the fungicide and insecticide compounds detected in the April 26, 2017 EMA lab report for the soils analysis are both consistent with pesticides listed as used in turf maintenance by the golf course, and the likely pattern of use in the sampled locations. The limited quality control information provided in the laboratory report appears to be acceptable or expected for the methods used by the laboratory.

The human health risk assessment analysis provided by EnviroRisk Solutions in the letter report was reviewed by Kelly Vosnakis, a human health risk assessor with AECOM. The risk assessment was conducted per the MassDEP residential short-form, using assumptions that are conservative and appear to be appropriate given MassDEP guidance. Most of these chemicals detected don't have published toxicity data, so surrogates or other available toxicity data were used to evaluate them, which seemed reasonable. AECOM agrees with the conclusions that potential risks/hazards appear to be negligible, and notes the fact that the sum of all the detected pesticides is only 1.2 mg/kg, which is below the S-1 standard and USEPA's residential Regional Screening Level (RSL) for DDT, one of the more toxic pesticides, which further supports the risk assessment conclusions.

Please feel free to call me at 978-905-2981 with any questions that you may have.

Yours sincerely,
AECOM



Doug Gove, P.E.
Associate Vice President