U.S. Department of Homeland Security
FEMA Region I
99 High Street, 6th Floor
Boston, MA 02110

FEMA

September 11, 2015

Mitchell Buck, P.E., Coastal Engineer
Woods Hole Group
81 Technology Park Dr.
East Falmouth, MA 02536

Subject: Additional Data Request
Community: Town of Rye, Rockingham County, New Hampshire
Community No.: 330141

Dear Mr. Buck:

FEMA Region 1 and Headquarters have reviewed your latest submittal, dated July 28, 2015, in response to the FEMA's additional data request letter dated July 14, 2015. Thank you for the detailed plan and section surveys of the seawall as they greatly increase our understanding of the conditions at your site.

However, FEMA's mission is to convey the most accurate flood risk information possible, and during the review of your appeal many concerns came up, some of which we have asked you to correct in the past. The modeling you have submitted does not reflect the mapping you propose.

At this time, FEMA feels if we used the modeling you submitted it would increase the BFEs that are on the Preliminary map in that area. Please address and correct the following concerns:

- In 2011 FEMA found an error in the 2007 FEMA G&S, Figure #2.8-3. Please ensure your calculations utilize the correct figure now enclosed in PM 60 or at https://www.fema.gov/media-library/assets/documents/23728.
- The wave condition used for the vertical wall was not calculated correctly. A breaking wave height was utilized for the wave runup on a vertical wall when the "equivalent" deepwater wave height is necessary.
- The incorrect slope was used for the failed wall condition. A slope of 1:1.5 is recommended by the 2007 FEMA G&S, not 1:3. Please see Figure 2.10-2. A failed slope of 1:3 could be applicable if justified by supporting evidence of appropriateness for specific type of material and location.
- The elevation of the intact/failed crest of the structure is different at the two modeled locations (TR 39 and 2200 Ocean Drive). Please clarify what crest elevation is used in each case to determine the final mapped BFE.
- Table 2 of your letter states a BFE of VE 14-19 based on what scenario (failed/intact) is used. However your proposed map shows a BFE of VE 13.

- The LiMWA line should match the VE boundary. However, on your proposed map the LiWMA line is adjacent to the seawall.

The most significant issue of the above concerns is the incorrect slope. As you know this variable impacts the crest of the failed structure and ultimately impacts the final BFE. Please ensure that when you address the concerns above your modeling is update and it is reflected on your proposed map.

Please submit the additional data and corrections as described above within **10 days (September 25, 2015)** to the following:

Fay Rubin, Project Manager
Earth Systems Research Center
Eight College Road
University of New Hampshire
Durham, New Hampshire 03824

and/or

John Grace, CFM
Mitigation Risk Analysis Branch
FEMA Region I
99 High Street, Sixth Floor
Boston, Massachusetts 02110

The evaluation of this submittal has been suspended pending receipt of the requested data. If the requested data is not furnished and correct within the time frame indicated above, your appeal will be denied.

We appreciate your concern of having the most accurate flood hazard information available reflected on the FIRM and in the FIS report. If you have any questions regarding this matter, please contact John Grace of my office by telephone at (617)-832-4175 or by email at John.Grace@fema.dhs.gov.

Sincerely,

MARILYN HILLIARD

Digitally signed by MARILYN HILLIARD
DN: c=US, o=U.S. Government, ou=Department of Homeland Security, ou=FEMA, ou=People, cn=MARILYN HILLIARD, 0.9.2342.19200300.100.1.1=0505196419.FEMA.1
Date: 2015.09.11 10:14:49 -04'00'

Marilyn Hilliard
Risk Analysis Branch Chief
Mitigation Division 1

cc: Peter Rowell, Building Inspector, Town of Rye
Michael Magnant, Town Administrator, Town of Rye
Kim Reed, Planning and Zoning Administrator, Town of Rye
Mike Labrie, Chairperson, Rye Beach Commission, Town of Rye
Jennifer Gilbert, CFM, State NFIP Coordinator, New Hampshire Office of Energy and Planning
Fay Rubin, Project Manager, Earth Systems Research Center, University of New Hampshire
Edward O'Meara, Homeowner