12-5-30311

TERRATECH
ENGINEERS · INC
Geotechnical Engineering
Environmental Consulting
Construction Materials Testing

March 28, 2013

Mr. Julian Stewart
Comfort Homes, Inc.
P.O. Box 369
Clayton, NC 27528

Report of Footing Excavation Examination
Meredith Station, Lot 9
Fuquay-Varina, North Carolina
Our Project Number 121-13-70560

Gentlemen:

As requested, a representative of TerraTech Engineers was onsite on March 11 and March 14, 2013 to evaluate the condition of the footing excavations in the area of Lot #9. Based upon our understanding of the planned residential construction, we have assumed an allowable soil bearing capacity of 2,000 pounds per square foot (psf).

Our field examinations consisted of visual observations, hand rod probing, and dynamic cone penetrometer testing (ASTM STP-399). Dynamic cone penetrometer testing was performed at select locations and to a maximum depth of 3 feet below the planned bearing surface elevation. Our scope did not include mechanically drilled soil test borings to evaluate deeper subsurface soil conditions that could affect foundation support. Such services can be provided, if desired.

At the time of our initial site visit, groundwater was present in the footing excavation. After the water was pumped from the excavation, the results of the footing examinations indicated that the design bearing pressure of 2,000 pounds per square foot (psf) was available at the locations and depths tested. We recommend that a drain be placed around the home to outlet the groundwater or the washed stone in the footing excavation be wrapped in filter fabric and a clear outlet be provided at the low point of the footing excavation.

Exposure to the environment, especially rainfall, may weaken the soils at the foundation bearing surface, if they are exposed for extended periods of time prior to concrete placement. If the foundation bearing surface becomes softened due to exposure, the soft soils should be removed prior to placement of concrete.

If you have any questions concerning this information, please do not hesitate to call.

Sincerely,
TerraTech Engineers, Inc. (C-1356)

Christopher Pilz
2013.04.01
10:43:47 -04'00'

Christopher S. Pilz, P.E.
Senior Geotechnical Engineer

NORTH CAROLINA PROFESSIONAL SEAL 033173 ENGINEER CHRISTOPHER S. PILZ

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