

GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND
ENVIRONMENTAL CONSULTANTS

A Practicing ASFE Member Firm



October 11, 2016

Toll Brothers, Inc.
516 North Newtown Street Road
Newtown Square, PA 19073

Attn: Mr. Michael A. Downs, P.E.

Re: On-Site Wastewater Disposal Feasibility
Crebilly Farm – Plan B
Westtown Township, Chester County, Pennsylvania

Gentlemen:

In accordance with our Agreement dated July 10, 2016, Geo-Technology Associates, Inc. (GTA) has performed a preliminary on-site wastewater feasibility evaluation for the proposed residential subdivision, located on the Crebilly Farm property in Westtown Township, Chester County, Pennsylvania. Based on our review of the site plan entitled *Plan B, Crebilly Farm*, prepared by ESE Consultants, Inc., and dated October 7, 2016 (Plan B), GTA understands that the site is proposed for development with two community centers and 397 residential units, to include 395 new and 2 existing units. Based on equivalent dwelling unit (EDU) wastewater flows of 250 gallons per day (gpd) per EDU, and with each community center equivalent to 3 EDUs, the proposed combined wastewater flow would be approximately 100,750 gpd. GTA understands that the *Plan B* development is proposed to be served by an on-site community drip irrigation wastewater treatment and disposal system.

The subject site is located northwest of the intersection of Wilmington-West Chester Pike (Route 202) and West Street Road (Route 926), in Westtown Township, Chester County, Pennsylvania. Specifically, the subject site is comprised of eleven lots, identified as Tax Parcels 67-4-029, 67-4-029.1 through 67-4-029.4, 67-4-030 through 67-4-033, 67-4-033.1, and 67-4-134, totaling approximately 322.4 +/- acres. The proposed wastewater disposal areas indicated on *Plan B* combine to a total of approximately 33 +/- acres.

GTA performed a preliminary on-site wastewater feasibility evaluation at the site, including: excavation and soil profile evaluation of ten test pits; drilling four soil borings to depths ranging to about 44.5 feet; infiltrometer testing of relatively shallow soils; hydraulic testing of deeper aquifer materials; groundwater quality analysis and performance of a preliminary groundwater mounding analysis.

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Toll Brothers, Inc.

Re: *On-Site Wastewater Disposal Feasibility – Crebilly Farm – Plan B*

October 11, 2016

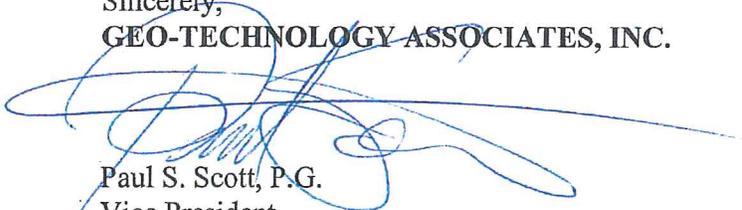
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Based upon the results of our evaluation at the tested locations, it is our opinion that on-site drip irrigation wastewater disposal of the aforementioned proposed flows is feasible for implementation at the site; additional soil and hydrogeologic evaluation will be necessary to evaluate the required size and configuration of the initial system.

Based on the results of our preliminary evaluation at the tested locations, and preliminary estimates of acreage that may be needed for the proposed flows, it appears that an area totaling about 33 +/- acres should be sufficient to accommodate an initial drip irrigation disposal area. As previously noted, 33 +/- acres is the combined total area indicated for wastewater disposal on *Plan B*. Distribution of the flows relatively evenly at two or more locations separated by relatively large distances at the site should reduce potential groundwater mounding, provided that soils and aquifer conditions are suitable. *Plan B* indicates that large fractions of the overall proposed disposal area are situated at relatively great distances from each other. Additional soils and hydrogeologic field exploration and testing will be necessary to confirm the suitability of the proposed areas for wastewater disposal and to determine the necessary system size and configuration.

Thank you for the opportunity to assist you with this project. Should you have any questions or require any additional information, please contact our office at (410) 515-9446.

Sincerely,
GEO-TECHNOLOGY ASSOCIATES, INC.



Paul S. Scott, P.G.
Vice President

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