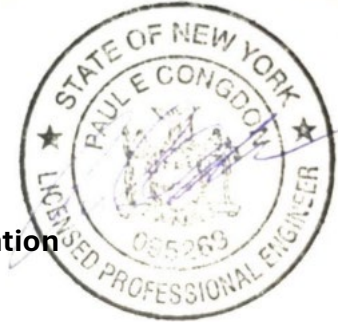


**Memorandum**

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**To:** Town of Kirkwood Planning Board  
**From:** Paul Congdon, PE  
**Date:** January 29, 2026  
**Subject:** Topographic and Geomorphic Analysis Certification



The NSF Kirkwood project proposes the construction of three (3) 5 MW solar electric generation facilities along with battery storage. Prior to design, a topographic survey was obtained. Several resources were also consulted to analyze the geomorphic conditions of the site, including; USDA web soil survey mapper, NYSDEC environmental mapping, FEMA Flood Maps and the Broome County GIS Portal.

The information obtained from these sources was used to establish the drainage patterns of the site in preparation of the Stormwater Pollution Prevention Plan (SWPPP). The proposed improvements have been designed to comply with NYSDEC guidance for solar sites and to minimize changes in site hydrology. The analysis also found that there were no geomorphic conditions on the proposed site that would impact the stability of the proposed improvements.