



May 3, 2022

Mr. Joshua D. Hoffman, P.E.
Snyder, Secary & Associates,
a Division of Pennoni
2000 Linglestown Road, Suite 304
Harrisburg, PA 17110

**RE: Loading Ratio Comment Summary Letter
2951 Betz Court Redevelopment
Lowhill Township, Lehigh County, Pennsylvania
Kleinfelder Project No.: 20211356.001A**

Dear Mr. Hoffman:

In accordance with your request, Kleinfelder, Inc. (Kleinfelder) has reviewed the proposed loading ratios provided by Snyder, Secary & Associates, a Division of Pennoni. This letter serves to present our opinions.

- The following loading ratios (overall; impervious) have been provided for the proposed facilities to be constructed at the subject project, specifically those that are greater than outlined in the PADEP Stormwater Best Management Practices Manual for non-karst site:
 - *Impervious Loading Ratio:* BMP 1 – 11.9:1
 - *Total Loading Ratio:* BMP 1 – 20.2:1
- It should be noted the proposed overall loading ratio for each facility, as well as the impervious loading ratio for BMP 1, exceeds the recommended maximum loading ratios of 8:1 and 5:1 (respectively), as stated within the PADEP Stormwater Best Management Practices Manual, for non-karst geologic settings.
- We feel the greatest concern regarding the increased overall loading ratio is sediment accumulation within the facilities. The Owner must recognize this could result in a reduced working life and/or the need to complete more frequent maintenance operations to remove accumulated sediment.

We trust that this is the information you require. Should you have any questions or if we may be of further assistance, please don't hesitate to contact our office.

Sincerely,
KLEINFELDER, INC.

A handwritten signature in blue ink, appearing to read "Trevor L. Dombach", is written over a horizontal line.

Trevor L. Dombach
Program Manager