M E M O R A N D U M

TO: Rick Smith, Township Manager

FROM: Michael Morykin, PG

DATE: August 17, 2020

SUBJECT: Boot Road Geophysical Survey

As requested, I have reviewed the documents below, completing an evaluation of the Boot Road geophysical surveys. For reference, I am Pennsylvania-registered professional geologist (PG), specializing in engineering geology, with more than 22 years of experience conducting near surface geophysical surveys.

- Memorandum to Sarah McInnes, PE (PENNDOT District 6) from Mia Painter, PG and Jeremy Brown, PE (Schnabel Engineering), dated November 20, 2019;
- Memorandum from Sarah McInnes, PE (PENNDOT District 6), dated December 5, 2019;
- "Boot Road Expandeed *[sic]* Geophysics Results Summary REVRHSD";
- "Boot Road Geophysical Results Summary";
- Boot Road Geophysics Summary for East Goshen Twp 2020-01-09, dated January 9, 2020, authored by Felicia Kegel Bechtel, MSC, PG (Rettew);
- Photograph "file-11.jpeg";
- Electronic message from Eugene Blaum to Sarah McInnes titled "FW: Pipeline Construction Spill - Boot Road", dated July 3, 2019;
- Letter from Kenneth M. McClain of PENNDOT to Mr. Ron Cummings of Sunoco dated July 8, 2019;
- Electronic message from Eugene Blaum to Julia Loving titled "RE: Boot Road Geophysical Investigation", dated September 3, 2019;
- Electronic message from Eugene Blaum to Carolyn Comitta titled "PENNDOT/test update (see question)", dated July 15, 2019;
- Electronic message from Eugene Blaum to Don Vymazal titled "RE: Pipeline Construction Spill – Boot Road", dated April 30, 2019;
- "S3-0460 Boot Rd Revised Final Report 2020-01-03" authored by Rettew, dated October 22, 2019, revised January 3, 2020; and
- "S3-0460 GPR Boot Rd Report Final 2019-10-22" authored by Rettew, dated October 22, 2019.

Based on my review of the above documents, it is my conclusion that the data collection methods used during the investigation were consistent with standard geophysical professional practices. Additionally, the analysis and conclusions expressed by the authors appear to be reasonable.