

December 5, 2018

Mr. Matthew L. Gordon
Sunoco Pipeline, L.P.
535 Fritztown Road
Sinking Spring, PA 19608

Re: Hydrogeological Re-Evaluation Report and Supplemental Information Review
Arch Bishop/South Chester Road, Horizontal Directional Drill Location (S3-0541)
PA DEP Permit Nos. E15-862 and E23-524
Westtown and Edgmont Townships
Chester and Delaware Counties

Dear Mr. Gordon:

The Department of Environmental Protection (DEP) has reviewed the Hydrogeological Re-Evaluation Report and Supplemental Information associated with the Horizontal Directional Drill (HDD) Analysis submitted for the Arch Bishop/South Chester Road Crossing, S3-0541, acknowledged in PA DEP Permit Nos. E15-862 and E23-524, and posted on DEP's Mariner East 2 pipeline portal's webpage on October 31, 2018.

DEP acknowledges the incorporation of the following best management practices to minimize the risk of Inadvertent Returns (IRs) and to minimize impacts to public and private water supplies during the construction phases of the HDD, and as detailed in your October 31, 2018, submission, Sunoco Pipeline, L.P. (SPLP), will:

1. Prior to the start of drilling activities, perform a geophysics analysis over the length of the profile for the S3-0541 HDD.
2. Incorporate proactive measures to prevent IRs and annulus subsidence, including continuous monitoring of the tool face pressure, record the drilling fluid pressures through the use of an annular pressure monitor, and by tracking the volume of the cuttings removed in both the pilot and reaming stages of the drill.
3. Incorporate annulus grouting procedures described in your submission to stabilize the borehole.

Considering the aforementioned, the Supplemental Information adequately addresses DEP's comments on the Hydrogeological Re-Evaluation Report. DEP has determined that no permit modifications are necessary. You may proceed with the permitted HDD activity in the

manner proposed in your reevaluation and in accordance with all applicable permit terms and conditions.

If you have additional questions, please contact me at the telephone number located in the first page footer.

Sincerely,



John Hohenstein, P.E.
Acting Regional Manager
Waterways and Wetlands

cc: Ms. Styles - Sunoco Pipeline, L.P.
Mr. Embry - Sunoco Pipeline, L.P.
Mr. Simsik, P.E. - Tetra Tech
Mr. Mulray, P.G. - GES
Mr. Waldrop, P.G. - GES
U.S. Army Corps of Engineers, Philadelphia District
Chester County Conservation District
Delaware County Conservation District
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