pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

July 28, 2016

Maidencreek Township Supervisors
PO Box 319
Blandon, PA 19510

Re: Technical Deficiency Letter – Revision
Act 537 Planning
384 Evansville Road
DEP CODE NO. A3-06942-127-2
APS ID No. 915493, AUTH ID No. 1137996
Maidencreek Township, Berks County

Ladies and Gentlemen:

The Department of Environmental Protection (DEP) has reviewed the above referenced application and has identified the following significant technical deficiencies. The items are based on applicable laws and regulations, and the guidance sets forth DEP's preferred means of satisfying applicable regulatory requirements.

Technical Deficiencies

1) The project narrative references water consumption data from a similar retirement facility. That data was not included in the planning module.
2) The primary absorption area defined by soil probes 6/22/7, 6/22/12, 6/22/13, and 6/22/14 was not delineated on a map with a suitable scale that would allow accurate calculation of the total suitable square feet.
3) The alternate absorption area defined by soil probes 6/22/8, 6/22/9, 6/22/10, and 6/22/11 is not suitable for sewage disposal due to rock and fractured shale limiting zones at less than 16 inches.
4) A plot plan meeting the content requirements of Section G of Component 2, and of suitable scale, was not submitted with the planning module.
5) Figure 3 shows soil probes 10/26/1, 10/26/2, and 10/26/3 but the reduced scale plot plan shows soil probes 10/23/1, 10/23/2, and 10/23/3. Please address this discrepancy.
6) The operation and maintenance of the proposed Department permitted sewage treatment facility was not adequately addressed in the planning module. Please see Chapter 71, Section 71.72.
7) The Resolution of Adoption was not on the correct form. A blank copy of the correct form has been included with the municipality's copy of the letter.

Additional comments: Specifics of the design of a proposed sewage treatment plant are generally not reviewed during the planning phase of a project. Nevertheless, a cursory review of the design was performed and we offer the following for your consideration in designing this system:

1) The design proposes to promote denitrification in the STP's final clarifier. A consequence of this design is that gas evolution from the denitrification process would result in periodic bulking in the final clarifier. The resulting solids discharges from these bulking events could potentially foul the distribution system of the absorption area and result in absorption failure or overflows at the STP. An alternate method of denitrification should be considered if you choose to pursue this function of the STP.
2) There is no evidence to suggest that there is sufficient organic carbon available to facilitate denitrification downstream of the proposed Aeration Tank in the STP.
3) The influent nitrogen profile appears to be incorrect as the total nitrogen is less than the sum of the contributing forms identified in the waste characterization table.

You must submit a response fully addressing each of the significant technical deficiencies set forth above by September 9th or DEP may deny the application. All submitted materials must be submitted by the municipality, and all deficiency items must be submitted together in one package. A cover letter signed by the municipal secretary will be accepted by DEP as documentation that the municipality has determined the resubmission to be consistent with Act 537 sewage planning requirements.

If you believe that any of the stated deficiencies are not significant, instead of submitting a response to that deficiency, you have the option of asking DEP to make a decision based on the information with regard to the subject matter of that deficiency that you have already made available. If you choose this option with regard to any deficiency, you should explain and justify how your current submission satisfies that deficiency. Please keep in mind that if you fail to respond, your application may be denied.

If you have any questions or concerns regarding the identified deficiencies, please call Michael Morris at 717.705.4793, and refer to DEP Code No. A3-06942-127-2, Application No. 915493 and Authorization No. 1137996 to discuss your concerns or to schedule a meeting. The meeting must be scheduled within the period allotted for your reply, unless otherwise extended by DEP. You may also follow your application through the review process via *eFACTS on the Web* at: http://www.ahs2.dep.state.pa.us/eFactsWeb/default.aspx.

Sincerely,

Timothy K. Wagner
Environmental Group Manager

cc: Moe Farvardin.
Scott McCaffrey, SEO
Berks County Planning Commission

3850-FM-BCW0356 Rev. 5/2016

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DEP Code No.

RESOLUTION FOR PLAN REVISION FOR NEW LAND DEVELOPMENT

RESOLUTION OF THE (SUPERVISORS) (COMMISSIONERS) (COUNCILMEN) of _____
(TOWNSHIP) (BOROUGH) (CITY), _____ COUNTY, PENNSYLVANIA (hereinafter "the municipality").

WHEREAS Section 5 of the Act of January 24, 1966, P.L. 1535, No. 537, known as the *Pennsylvania Sewage Facilities Act*, as Amended, and the rules and Regulations of the Pennsylvania Department of Environmental Protection (DEP) adopted thereunder, Chapter 71 of Title 25 of the Pennsylvania Code, require the municipality to adopt an Official Sewage Facilities Plan providing for sewage services adequate to prevent contamination of waters of the Commonwealth and/or environmental health hazards from sewage wastes, and to revise said plan whenever it is necessary to determine whether a proposed method of sewage disposal for a new land development conforms to a comprehensive program of pollution control and water quality management, and

WHEREAS _____ has proposed the development of a parcel of land identified as
land developer

_____, and described in the attached Sewage Facilities Planning Module, and
name of subdivision

proposes that such subdivision be served by: (check all that apply), ☐ sewer tap-ins, ☐ sewer extension, ☐ new treatment facility, ☐ individual onlot systems, ☐ community onlot systems, ☐ spray irrigation, ☐ retaining tanks, ☐ other, (please specify). _____

WHEREAS, _____ finds that the subdivision described in the attached
municipality

Sewage Facilities Planning Module conforms to applicable sewage related zoning and other sewage related municipal ordinances and plans, and to a comprehensive program of pollution control and water quality management.

NOW, THEREFORE, BE IT RESOLVED that the (Supervisors) (Commissioners) (Councilmen) of the (Township) (Borough) (City) of _____ hereby adopt and submit to DEP for its approval as a revision to the "Official Sewage Facilities Plan" of the municipality the above referenced Sewage Facilities Planning Module which is attached hereto.

I _____, Secretary, _____
(Signature)

Township Board of Supervisors (Borough Council) (City Councilmen), hereby certify that the foregoing is a true copy of the Township (Borough) (City) Resolution # _____, adopted, _____, 20_____.

Municipal Address:

_____

_____

_____

Telephone _____

Seal of

Governing Body