



February 1, 2024

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7020 3160 0000 1998 4037

John A. Fielding, III, Trustee
Trust Deed & Agreement
P.O. Box 426
Blandon, PA 19510

RE: Inspection of Stormwater Management Facilities
Tree Tops Basins #1 and #3
UPIs #61542005271950 and 61542010370494
Maidencreek Township, Berks County, PA

Dear Property Owner:

On behalf of Maidencreek Township, Systems Design Engineering, Inc. has completed an on-site inspection of the stormwater management facilities located at the above-referenced properties.

The stormwater management facilities ultimately discharge into the Municipal Separate Storm Sewer System (MS4) owned and operated by Maidencreek Township. The MS4 designation requires the Township to obtain a National Pollution Discharge Elimination System (NPDES) permit as administered by the Pennsylvania Department of Environmental Protection (PADEP). As part of the permit, the Township must ensure the MS4 is being maintained and operated in accordance with the NPDES permit requirements. This includes the routine inspection of any stormwater management facilities that were previously required as part of the Township's land development process are still in place, functioning as designed and being adequately maintained.

Attached is a copy of the "On-Site Inspection Report" for the stormwater facilities located on your property or that you are otherwise responsible for maintaining. Within this Report are the current conditions or deficiencies noted along with an indication of any necessary corrective actions, routine maintenance, or repairs that may be required. If any "Follow-up Action Required" other than "continue with routine site maintenance" is noted, please contact the Township prior to initiating any construction work since inspections of such are required by the PADEP to demonstrate compliance with the NPDES permit. You are required to return the stormwater management facilities back to an acceptable condition and ensure the future functioning of such as originally designed and constructed. All required work shall be scheduled within the next 6 months and be completed within 1 year.

The On-site Inspection Report references the original Subdivision, Land Development and/or Stormwater Management Plans (or Post construction Stormwater Management Plans) that were approved by the Township and then utilized to complete the construction of the stormwater management facilities.

Please feel free to contact me at this office should there be any questions or if you need clarification.

Sincerely,

SYSTEMS DESIGN ENGINEERING, INC.



Pamela J Stevens, P.E.

Senior Municipal Engineer

Enclosures

cc: Maidencreek Township

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Cc: Diane Hollenbach, Township Manager (d.hollenbach@maidencreek.net)

Eric Frey: Township Solicitor (efrey@nycelawoffice.com)

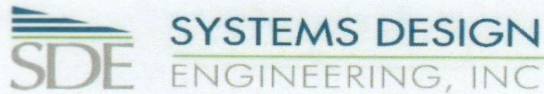
Board of Supervisors

SDE File 20-0019-0254.1-003

P. Stevens@sdei.net

Grant Stahl

2020



STORMWATER MANAGEMENT FACILITIES
On-Site Inspection Report
MAIDENCREEK TOWNSHIP, BERKS
COUNTY, PA

PROJECT NAME: Tree Tops – Basin 1 & 3 **LOCATION:** UPI: 61542005271950

PLAN NAME: Tree Tops Subdivision Phase 3, by McCarthy Engineering Associates, P.C., dated February 24, 2004, recorded May 4, 2008

DWG No.: 03-190-F-P00

OWNER or RESPONSIBLE PARTY: John A Fielding, Trust Deed & Agreement, PO Box 426, Blandon, PA 19510

INSPECTOR: Grant Stahl, E.I.T.

DATE: January 30, 2024

Type of SWM Facility: ☒ Detention Basins ☐ Infiltration ☐ Other (type): Basin 1

Suitable Ground Cover and Maintenance: ☐ Acceptable ☐ Not Acceptable (reason): Basin grass cover sufficiently mowed for site conditions.

Earthen Embankment Condition: ☒ Acceptable ☐ Not Acceptable (reason): No deficiencies noted.

Outlet Structure (if applicable):

Required Orifice Plate:	☒ Acceptable ☐ Not	Notes: <u>Orifice plate attached per design.</u>
Required Trash Rack:	☒ Acceptable ☐ Not	Notes: <u>Trash rack attached per design.</u>
Watertight:	☒ Acceptable ☐ Not	Notes: <u>No deficiencies noted.</u>
Outlet Pipe Acceptable:	☒ Acceptable ☐ Not	Notes: <u>No deficiencies noted.</u>
Positive Drainage Provided:	☒ Acceptable ☐ Not	Notes: <u>No deficiencies noted.</u>
Any Maintenance Required:	☒ Yes ☐ No	Notes: <u>Clear leaves from in front of outlet structure trash rack. (See photo 1)</u>
Other Concerns:	☐ Yes ☒ No	Explain: <u>No deficiencies noted.</u>

Storm Sewer System (if applicable):

Endwall Condition:	☒ Acceptable ☐ Not	Notes: <u>No deficiencies noted.</u>
Riprap Aprons:	☐ Acceptable ☒ Not	Notes: <u>Riprap apron is buried under debris and weeds. This shall be cleared and the apron returned to its original design dimensions. (See photo 2)</u>

Type of SWM Facility: ☒ Detention Basins ☐ Infiltration ☐ Other (type): Basin 3

Suitable Ground Cover and Maintenance: ☒ Acceptable ☐ Not Acceptable (reason): Basin grass cover sufficiently mowed for site conditions.

Earthen Embankment Condition: ☒ Acceptable ☐ Not Acceptable (reason): No deficiencies noted.

Outlet Structure (if applicable):

Required Orifice Plate:	☒ Acceptable	☐ Not	Notes: <u>Not required by design.</u>
Required Trash Rack:	☐ Acceptable	☒ Not	Notes: <u>Trash rack not installed. (See photo 3)</u>
Watertight:	☒ Acceptable	☐ Not	Notes: <u>No deficiencies noted.</u>
Outlet Pipe Acceptable:	☒ Acceptable	☐ Not	Notes: <u>No deficiencies noted.</u>
Positive Drainage Provided:	☐ Acceptable	☒ Not	Notes: <u>Basin is holding water due to trees & large rock downstream of DW EW 4. (See photos 4, 5, & 6)</u>
Any Maintenance Required:	☒ Yes	☐ No	Notes: <u>Basin bottom shall be reshaped with an even slope from endwalls to outlet pipe.</u>
Other Concerns:	☒ Yes	☐ No	Explain: <u>Trees growing out of the basin bottom must be removed. There is a significant amount of dead tree limbs in the bottom of the basin that need to be removed. (See photos 5, 6, & 7) The basin side slope is beginning to erode behind the outlet control structure. (See photos 3 & 8)</u>

Storm Sewer System (if applicable):

Endwall Condition:	☒ Acceptable	☐ Not	Notes: <u>No deficiencies noted.</u>
Riprap Aprons:	☐ Acceptable	☒ Not	Notes: <u>Riprap aprons have been washed away, facilitating scour holes immediately downstream of the enwalls. Riprap aprons shall be restored to their original design dimensions. (See photos 6 & 9)</u>

Summary:

- ☐ Stormwater Management Facilities appear to be installed per the approved Plans, are being maintained in an acceptable manner, and are functional. No Further Action is required.
- ☒ Stormwater Management Facilities are damaged, in disrepair, missing or otherwise require immediate maintenance and follow-up action.

Follow-up Action Required by:

- ☒ Property Owner, Specific Action Required:

Basin 1

- Remove leaves in front of OS-1.
- Remove debris and weeds from riprap apron of EW101. Restore apron to original design dimensions.

Basin 3

- Install and securely anchor a trash rack over the outlet structure. Minimum opening sizes should be 6" x 6".
- Remove the trees and accumulated debris at the bottom of the basin.
- Reshape flow paths from the endwalls to the outlet pipe, maintaining a constant slope and cross section.
- Restore the basin side slope behind the outlet control structure. Slope should be at a 3:1 grade.
- Restore the riprap aprons to their original design dimensions, adding stone as necessary.

- ☐ Municipal, Specific Action Required:

- None

- ☐ Municipal Engineer, Specific Action Required:

- Municipal Engineer shall be contacted when Basin action items are completed for a follow-up inspection.

- ☐ Other(s), Specific Action Required:

- None

- ☐ N/A

Site inspection photos to begin on the next page

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Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9