

**AGENDA**  
**EAST GOSHEN TOWNSHIP**  
**BOARD OF SUPERVISORS**  
Tuesday, September 20, 2016

7:00 PM – Public Meeting

1. Call to Order
2. Pledge of Allegiance
3. Moment of Silence – Supervisor Carmen Battavio
4. Ask if anyone is recording the meeting
5. Chairman’s Report
  - a. Announce that the Board met in Executive Session on September 13, 2016 to conduct ABC interviews and discuss a police personnel matter.
  - b. Announce receipt of PA DEP review letter for the Sunoco Mariner East II Project Erosion and Sediment Permit Application.
  - c. Announce receipt of PA DEP review letter for the Sunoco Mariner East II Project Chapter 105 Permit Application.
6. Public Hearing - none
7. Emergency Services Reports
  - WEGO – Chief Brenda Bernot
  - Goshen Fire Co. – none
  - Malvern Fire Co – none
  - Fire Marshal – none
8. Financial Report – August 2016
9. Old Business - None
10. New Business
  - a. Consider Resolution 2016-57 authorizing the Township Manager to execute the Reimbursement Agreement for the East Boot Road Bridge Project.
  - b. Consider 2016 Community Day Review.
  - c. Consider authorizing execution of the Paoli Pike Trail Easement with the Goshen Friends.
  - d. Consider proposal from McMahon for Paoli Pike Trail Segment D & E.
  - e. Consider proposal from McMahon for Paoli Pike Trail Segment F & G.
  - f. Consider request from CTDI for a cross walk on Enterprise Drive.
  - g. Consider information on Tennis Court Usage.
11. Any Other Matter
12. Approval of Minutes
  - a. September 6, 2016
13. Treasurer’s Report – September 12, 2016
14. Correspondence, Reports of Interest
15. Public Comment – Hearing of Residents
16. Adjournment

The Chairperson, in his or her sole discretion, shall have the authority to rearrange the agenda in order to accommodate the needs of other board members, the public or an applicant.

## Dates of Importance

Oct 04, 2016	Board of Supervisors	7:00pm
Oct 05, 2016	Planning Commission	7:00pm
Oct 06, 2016	Farmers Market	7:00pm
Oct 10, 2016	Municipal Authority	7:00pm
Oct 12, 2016	Conservancy Board	7:00pm
Oct 13, 2016	Historical Commission	7:00pm
Oct 18, 2016	Board of Supervisors	7:00pm
Oct 19, 2016	Pension Committee	7:00pm
Oct 19, 2016	Futurist Committee	7:00pm
Oct 27, 2016	Board of Supervisors (Executive Session - ABC Interviews	6:00pm

Newsletter Deadlines for Winter of 2016: November 1



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

September 6, 2016

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

Re: Technical Deficiency Letter – Erosion and Sediment  
Control General Permit (ESCGP-2)  
Pennsylvania Pipeline Project (a.k.a. Mariner East II)  
Southeast Regional Office Submission  
Construction Spread 6  
DEP File No. ESG0500015001  
East Goshen, East Nantmeal, East Whiteland, Upper Uwchlan,  
Uwchlan, Wallace, West Goshen, West Nantmeal, Westtown,  
West Whiteland Townships, and Elverson Borough  
Chester County

Aston, Chester, Edgmont, Middletown, Thornbury, and  
Upper Chichester Townships, and Brookhaven Borough  
Delaware County

Dear Mr. Gordon:

The Department of Environmental Protection (DEP) and the following County Conservation Districts in the Southeast Region; Chester and Delaware, have reviewed the above-referenced NOI and have identified the following technical deficiencies. The Pennsylvania Erosion and Sediment Pollution Control Program Manual (E&S Manual) and the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual) include information that will aid you in responding to some of the deficiencies listed below. The deficiencies are based on applicable laws and regulations, and the guidance sets forth an established means of satisfying the applicable regulatory and statutory requirements.

The technical deficiencies have been assembled from the County Conservation Districts and DEP staff. General technical deficiencies are identified that appear to be a reoccurring technical deficiency throughout the plan narratives and drawings. Specific examples of the general deficiencies are provided for reference; however, all of the specific instances may not have been identified. Sunoco Logistics, L.P., and their consultant team need to review the entire project submittal to ensure any and all specific technical deficiencies and general technical deficiencies are addressed from a comprehensive/entire permit application standpoint.

**General Common Technical Deficiencies**

1. The application will need a comprehensive Preparedness Prevention Contingency (PPC) and private well plan. Regarding these plans, 25 Pa. Code Section 102.5(l):
  - a. The application includes separate documents covering PPC activities. Due to the scope of this project, you must consolidate these plans into one stand-alone document that can be used in the field. This plan must also be consistent in your Joint Permit Applications submitted for this project.
  - b. In a letter dated June 24, 2016, regarding the northeastern bulrush, the U.S. Fish and Wildlife Service stated, "As a means to minimize impacts should an IR occur, you provided a Horizontal Directional Drilling (HDD) Inadvertent Release Contingency Plan. In addition to the instructions in this Plan, please add the USFWS phone number as an agency to be contacted should an IR occur, and inform the HDD contractor about the sensitive nature of the drill at this location." Revise your Contingency Plan to incorporate this information.
  - c. While you provided a narrative discussing how impacts to private water supplies will be investigated and addressed, a formal plan has not been provided. As such, revise your PPC Plan to include the following:
    - i. Measures the applicant will take to investigate for the presence of private water supplies in areas where HDD crossings are proposed.
    - ii. Procedures that will be followed to investigate and resolve impacts to private water supplies should they occur as a result of the proposed activities. This procedure needs to discuss how private water supply owners will be alerted in the event of an inadvertent return.
    - iii. The application states, "SPLP Plans to use the FERC standards in accepting and investigating landowner complaints of spring and well water supply impairment." Provide a copy of these FERC standards and incorporate the FERC standards into your PPC Plan.
  - d. The Mariner East I pipeline had several inadvertent returns during the construction process. Provide a list of areas where Mariner East I had issues with inadvertent returns to the surface when conducting HDD crossings, and discuss how you have taken these historic issues into account in your design of the proposed project.
  - e. The Plan needs to address management of excess drilling mud/liquids that may be encountered at the individual bore pits.

2. Regarding your agency coordination:
  - a. Provide Pennsylvania Natural Diversity Inventory (PNDI) clearances from the PA Game Commission and U.S. Fish and Wildlife Service. *[25 Pa. Code Section 102.6(a)(2)]*
  - b. Provide proof that you have received clearance for your project from Pennsylvania Historical and Museum Commission (PHMC).
3. The project description provided in the Cultural Resource Notice states that the second pipeline is to be installed within 5 years of the first pipeline. The project description provided in the application, however, does not discuss this time frame. *[25 Pa. Code Section 102.6]*
  - a. Revise the application to discuss if the pipelines will be installed at the same time, or on different schedules.
  - b. The application states that the second pipeline will be 16 inches in diameter, while other applications related to this project state that the second pipeline could be up to 20 inches in diameter. Which is correct?
  - c. If the pipelines are proposed to be installed at separate times, revise the application to clearly indicate this, and to identify the permanent and temporary impacts from the second pipeline installation. Please be advised that if issued the permit may expire before construction is completed on any second line.
4. Your application identifies "travel lanes" at numerous resource crossings; however, details on these crossings have not been provided. Provide details on these travel lanes that includes, but is not limited to, cross sectional view, length of time in service, potential impacts, etc. Note that the application did not detail any impacts, permanent or temporary, or E&S Controls for these travel lanes even though they may constitute disturbance and are shown to cross resources. As such, your application may need to be revised. *[25 Pa. Code Section 102.6]*
5. We have compared the Plans submitted with this application and the Plans submitted with the Joint Permit Applications regarding consistency between the site plans and E&S Control Plans you have provided. Inconsistencies were noted as follows: *[25 Pa. Code Section 102.6]*
  - a. Describe the difference between the "Permanent Easement" and "Permanent Right-of-Way" areas that are identified on your plans. This description needs to discuss maintenance activities that will be performed on these areas following

- construction of the pipeline, and measures that will be taken to ensure that future maintenance activities do not detrimentally impact aquatic resources (i.e., cutting PSS wetlands after restoration).
- b. Provide a description of the "Travel Lane" that is shown on your project plans. This description needs to include:
    - i. The purpose of these features.
    - ii. Whether these features will be temporary or permanent.
    - iii. The crossing methods (i.e., mats, pads) that will be used to cross resources.
  - c. The plan views provided do not show a permanent right-of-way proposed over areas where HDD installation is proposed. Describe any clearing or maintenance activities that are proposed to occur over areas where your pipeline installation will utilize HDD/bore methods to install the line.
  - d. The E&S Plan sheets show the proposed gas line being located on top of an existing gas line. Discuss how this will be achieved without preventing access to the existing line.
  - e. It is recommended that changes to either the JPA or the E&S application be reflected in the other application. Failure to ensure consistency between the two applications will delay any permit decision for this project.
6. In order to ensure adherence to Threatened and Endangered species restrictions/avoidance measures that are part of any PNDI clearances, the Plans and drawings need to clearly identify these locations and provide construction notes and seasonal restrictions. Both the plans for this application (ESG0500015001) and the plans for the Joint Permit Applications will need to be revised to include this information. [25 Pa. Code Section 102.6(a)(2)]
7. The time of concentration line(s) do not appear to follow the contouring on the PCSM Plan drawings. The time of concentration lines need to be drawn perpendicular to the respective existing and proposed contours. Justify or amend the plan drawings and calculations accordingly. [25 Pa. Code Sections 102.8(g), 102.8(f)(8), 102.8(f)(9), 102.8(g)(3), and 102.8(g)(4)]
8. The time of concentration line lengths on the drawings do not appear to match up with the time of concentrations calculations. Verify and amend accordingly. [25 Pa. Code Sections 102.8(g), 102.8(f)(8), 102.8(f)(9), 102.8(g)(3), and 102.8(g)(4)]

9. It is difficult to follow how the additional time of concentration is calculated at the bottom of DEP Worksheet 5 (found in Spread 6 Volume IV). This calculation needs to show every step (i.e. detailed computations) of the calculation for the additional time of concentration for each modeled storm event (for 2, 10, 50, and 100-year storms). [25 Pa Code Section 102.8(g), 25 Pa Code Section 102.8(f)(8), 25 Pa Code Section 102.8(f)(9), 25 Pa Code Section 102.8(g)(3), & 25 Pa Code Section 102.8(g)(4).]
10. For DEP Worksheets 1–5 and the ESCGP-2 application, amend the following [DEP Application and Worksheets] for all above-ground structures (i.e. control valve locations and compressor/pump stations): [25 Pa. Code Section 102.6]
  - a. Include all causes of impairment for each respective receiving watercourse
  - b. Verify the receiving watercourse for each valve site's point of interest
  - c. Verify the approval status of the Act 167 Plan for the watershed of each valve site. Provide verification that the site addresses the Act 167 Plan requirements
  - d. Verify the Chapter 93 classification for each respective receiving watercourse
  - e. Verify the 2-year/24-hour runoff volume to each berm based on the berm's drainage area
  - f. Verify the total structure volume provided on DEP Worksheet 5. This should be the lowest value between the drainage area runoff volume, the storage volume of the berm, and the infiltrated volume within 72 hours after the 2-year/24-hour storm event.
  - g. Verify the recommended infiltration rate for each valve site with the calculations and the infiltration test data.
11. In order to be able to utilize PCSM Standard Worksheet No. 10, 90 percent of the disturbed area has to be controlled/managed by a PCSM BMP (refer to Flow Chart D in Chapter 8 of the PCSM Manual). Provide the demonstration that 90 percent of the disturbed area at each site (individually) is controlled/managed by a PCSM BMP (e.g., it appears that less than 90 percent of the disturbed area is being controlled/managed by a PCSM BMP at the Juniata River West Block Valve site). If less than 90 percent of the disturbed area is being controlled/managed by a PCSM BMP, then water quality management can be shown through PCSM Standard Worksheet Nos. 12 and 13 (for TSS, TP, and NO<sub>3</sub>). Make all revisions necessary. [25 Pa. Code Sections 102.8(f)(6), 102.8(f)(8), 102.8(g)(2), 102.8(g)(4), and 102.11(a)(2)]

12. Provide the calculations for each Time of Concentration Adjustment. Ensure that these calculations identify the storage volume utilized and how that storage volume was calculated. The storage volume used in these calculations is the storage volume utilized for the storm event, not the total possible storage of the BMP. Make all revisions necessary. *[25 Pa. Code Sections 102.8(g), 102.8(f)(8), 102.8(f)(9), 102.8(g)(3), and 102.8(g)(4)]*
13. Provide discussion as to why HDD or conventional boring was not utilized to cross all surface waters classified as High Quality (HQ) or Exceptional Value (EV) in Chapter 93, as boring could be considered an ABACT E&S BMP (refer to page 290 of the E&S Manual). *[25 Pa. Code Sections 102.4(b)(5)(vi), 102.4(b)(6), and 102.11(a)(1)]*
14. Provide discussion on what E&S BMPs will be utilized at the HDD and conventional boring locations for the drilling mud. Ensure that these BMPs are properly shown on the plan view drawings. *[25 Pa. Code Sections 102.4(b)(5)(iii), 102.4(b)(5)(vi), and 102.4(b)(5)(ix)]*
15. Section E.1: Provide a better identification of which areas of the project were designed to meet which design standards (i.e. which areas were designed to the standards in an approved Act 167 Plan and which areas were designed to the standards of 25 Pa. Code Sections 102.8(g)(2) and 102.8(g)(3)). *[25 Pa. Code Section 102.6(a)(1)]*
16. Section F.1: Provide a better identification of which areas of the project were designed to meet which design standards (i.e., which areas were designed to the standards in an approved Act 167 Plan and which areas were designed to the standards of 25 Pa. Code *[Sections 102.8(g)(2) and 102.8(g)(3)]*

If an area is covered by an approved and current (approved by DEP on or after January 2005) Act 167 Plan, the Post Construction Stormwater Management Plan shall be consistent with any approved and current Act 167 Plan. To demonstrate consistency with an approved and current Act 167 Plan, the applicant may select one of the following options (per Erosion and Sediment Control General Permit for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities Condition 18.b):

- Submit a letter provided by the municipal or county planning engineer that verifies plan constancy.
- Submit an Act 167 Plan consistency verification report, which is prepared and sealed by a licensed professional.

Make all revisions necessary. *[25 Pa. Code Section 102.6(a)(1)]*

**General Comments from Chester and Delaware County Conservation Districts**

1. The E&S Legend is utilizing the same symbols for Silt fence and silt sock. The Legend needs to be updated to clearly distinguish between different perimeter BMPs. Also show the maximum allowable length on the plan. *[25 Pa. Code Section 102.11(a)(1)]*
2. The project illustrates substantially long sections of pipeline labeled as "To be Bored." Identify the type of trenchless installation being utilized at various locations such as HDD, traditional boring, directional boring, etc. *[25 Pa. Code Section 102.11(a)(1)]*
3. HDD installations typically require pull back areas, these are areas where the pipe that is to be pulled through the HDD hole is fabricated and prepared to be pulled through the hole. These pull back areas are typically straight off the HDD drill line. Identify all pull back areas for all proposed drilling operations. These pull back areas need to be clearly labeled and within the Limit of Disturbance with complete E&S controls proposed as they will be graded and disturbed as needed to allow for pipe delivery, fabrication and preparation and an access lane for all those activities. *[25 Pa. Code Section 102.11(a)(1)]*
4. If additional pull back areas are needed to be added, all the ESCGP-2 paperwork, disturbed acreage fees and District Service Fees need to be updated to cover the additional disturbances. *[25 Pa. Code Section 102.11(a)(1)]*
5. Illustrate and title the entrance and exit pit locations for all bores and HDD's. For HDD's, illustrate the drilling mud collection containers. Note that this can be field adjusted within the approved LOD when needed. If specifically illustrating this information isn't possible, provide typical details for the entrance and exit pit locations for each trenchless installation method being proposed. *[25 Pa. Code Section 102.11(a)(1)]*
6. The plans need to address how the site contractor is to respond to Inadvertent Returns during drilling activities. Add notes to the plans and cross reference any documents or plans that Sunoco uses for these events. *[25 Pa. Code Section 102.11(a)(1)]*
7. The Site Restoration Note on sheet ES-0.02 states the right of way will be restored back to Meadow. Revise this note as the entire right of way will not be restored back to meadow condition. *[25 Pa. Code Section 102.11(a)(1) and (2)]*
8. The sequence does not provide procedures for reclaiming or restoring the pullback areas. Include these procedures in the sequence.
9. Update Standard Erosion and Sediment Control Plan Note No. 16 on sheet ES-0.06 to read "Sediment tracked onto any public roadway or sidewalk shall be returned to the

construction site at the end of each work day, or as needed, or as directed by the Conservation District or Local Municipality, and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer or surface water." [25 Pa. Code Section 102.4(c)]

10. Waterbar discharges need to go to sumped areas and then to filter socks. Update construction details to fully illustrate this. [25 Pa. Code Section 102.11(a)(1)]
11. Typical Wetland Crossing – Design Detail Sheet E&S 0.09 Stockpiles need to occur outside of the wetland area.
12. Stream Wetland Bore crossing – Design Detail Sheet E&S 0.10 – Trench plugs shown within the area to be bored. Shouldn't it be in the area of the bore and receiving pit?
13. Typical Stream Crossing
  - a. Dry by-pass – Pump Filter Bag Discharge and the clean water discharge needs to be below the LOD.
  - b. Sand Bags need to be below Equipment Bridge or working platform which will also be disturbed.
  - c. Stabilization of disturbed stream banks and areas within 50' or 100'; depending on stream classification, need to be addressed.
  - d. Provide a blow up of each specific stream and wetland crossing that clearly illustrates all the E&S controls. The table provided does not appear to match the number and type of crossings at each location.
14. Perimeter E&S Controls need to be designed for the maximum slope length during construction. This includes both disturbed drainage slopes and un-disturbed slopes. Address. [25 Pa Code Section 102.11(a)(1)]
15. Diversions need to be provided across all Rock Construction Entrances that are sloped towards roadways to divert storm water flows off the entrance and into perimeter controls. Update plans and details accordingly. [25 Pa Code Section 102.11(a)(1)]
16. In areas where pipeline construction is running slide sloping down hills, the top soil cut lip on the low end of the Right of Way will channel water down to the lowest point. The plans need to fully address this channelized flow of water at the bottom of hills with adequate E&S controls. For examples, see between stations 14377+00 to 14394+00 & 14440+00 to 14444+00. The designer needs to consider the following when evaluating and designing for this condition: that waterbars are not typically functional until final

grades are established; the location of topsoil placement; trenching activities; and contractor access lanes on the ROW. Check the rest of the plans for similar situations and address. *[25 Pa Code Section 102.11(a)(1)]*

17. For steep slopes running down to stream crossings and/or roadways, additional E&S protection needs to be provided at or near the bottom of the slopes. For example see station 14525+00. Please check rest of plans for similar concern. *[25 Pa Code Section 102.11(a)(1)]*
18. Super Silt Fence needs to be used in non-HQ and EV watersheds and 24" Filter socks need to be utilized in HQ and EV watersheds for construction activities adjacent to streams and wetlands. Revise the plans accordingly. *[25 Pa Code Section 102.4(c)]*
19. Illustrate specific E&S controls for each stream crossing. *[25 Pa Code Section 102.11(a)(1)]*
20. Provide a blow up of each specific stream and wetland crossing that clearly illustrates all the E&S Controls. *[25 Pa Code Section 102.11(a)(1)]*
21. The proposed access roads are detailed as an aggregate stone road. This usually requires the removal of top soil. Illustrate the top soil storage areas for each access lane. *[25 Pa Code Section 102.11(a)(1)]*
22. Provide additional contour labeling on both sides of the ROW so that drainage directions can be more readily/ easily interpreted. *[25 Pa Code Section 102.11(a)(1)]*
23. E&S Controls need to be provided through wetland crossings to help reduce the amount of site construction related sediment from discharging to undisturbed areas of the wetland crossings. For an example, see WL-C49. Check the rest of the plans for similar situations and address. *[25 Pa Code Section 102.11(a)(1)]*
24. There are areas of pipeline "to be bored" that are shown within the LOD, but the extent of need for the disturbance is not identified. See from Stations 15045+00 to 15053+00 and 15054+00 to 15065+00 for example. Identify the type/ need of earth disturbance in these areas, check the rest of the plans for this issue and address. *[25 Pa Code Section 102.11(a)(1)]*
25. All large staging areas need to have a full E&S Plan developed including proposed activities, top soil stockpiles, perimeter controls or sediment traps and basins depending on total drainage areas flow to different parts of the staging areas. See staging area on sheets ES-6.56 and ES-6.51 for examples. Check the rest of the plans for similar issues and address. *[25 Pa Code Section 102.11(a)(1)]*

26. The provided restoration plan that is coupled with the E&S Control Plan does not specifically or clearly cover full restoration requirements for the entire area of disturbance along the Right of Way. The CCCD recommends that each plan map sheet be updated with the required restoration standards for each section of pipeline disturbance. Existing lawn areas need to be specified to be returned to lawn, cleared wooded areas need to be restored to brushy meadow or similar within the ROW, outside of the ROW in Temporary Workspaces re-wooded, Ag land restored to Ag land, etc. All individual seed mixes required need to be included in the details and notes sections of the plans and the plan mapping can reference back to those mixes. *[25 Pa Code Section 102.11(a)(1) and (2)]* Plan sheets that are just dedicated to Site Restoration requirements and the plan mapping can easily reference back to those sheets for detail.
27. The site restoration plan for vegetated areas needs to clearly address removal of stone and/or wooden mats where they were used, de-compacting disturbed soils, reestablishment of preconstruction contours and the replacement of topsoil at a minimum of 4 inches deep. *[25 Pa Code Section 102.11(a)(1)&(2)]*
28. Construction Engineering Oversight of the installation of structural BMPs is required. The plan notes and Construction Sequencing need to be updated to address this requirement. Infiltration Berms and Geoweb installations need to be included in these inspections along with any other structural PCSM BMPs. *[25 Pa Code Section 102.11(a)(2)]*
29. The last step of the Sequence of Construction needs to include the submission of a completed Notice of Termination. Address. *[25 Pa Code Section 102.11(a)(1)]*

### **Chester County Technical Deficiencies**

The Chester County Conservation District has a 25% resubmission fee. Sunoco needs to include this fee with the CCCD resubmittal. Additionally, the CCCD is willing to sit down with the designer of this project to go over their comments. If they would like to do that, contact CCCD directly at 610.925.4920, ext. 107 or [jsofranko@chesco.org](mailto:jsofranko@chesco.org) to set up a meeting.

1. Sheet ES 6.80 incorrectly titles two townships as East and West Wheatfield, this needs to be East and West Whiteland. Revise. *[25 Pa Code Section 102.11(a)(1)]*
2. The letter from TetraTech dated July 18, 2015 concerning infiltration testing says Chester County, Middletown Township. This is the incorrect Township. Revise. *[25 Pa Code Section 102.11(a)(1)]*
3. There are multiple areas of "Areas to be Bored" in Chester County that show a bend in the pipe alignment. The plan designers need to coordinate with the Pipeline Company and their Drilling Contractor to verify that the illustrated pipeline alignment is feasible

for trenchless installation. If additional Entrance and Exit pits are required, they need to be illustrated on the plan mapping and shown within the Limit of Disturbance. For examples refer to sheets 6.38, 6.47, 6.50, 6.51, 6.52, 6.54, etc. [25 Pa Code Section 102.11(a)(1)]

4. There is an unlabeled area of disturbance to the South West of the proposed pipelines on sheet ES-6.46. Describe and note the extent of disturbance for this area, check the rest of the plans for similar situations, and address. [25 Pa Code Section 102.11(a)(1)]
5. There is a large staging area split between sheets ES-6.56 and ES-6.57 that is bisected by an UNT to Ridley Creek (S-Q61). Provide full E&S Design for all anticipated earth disturbance within this area along with all proposed stream crossing locations to access the North side of the creek for staging activities. Ensure that this impact is included as part of the PA DEP Chapter 105 submittal. [25 Pa Code Section 102.11(a)(1)]
6. Interstate "362" is mislabeled on sheet ES-6.64. It needs to be "352." Revise. [25 Pa Code Section 102.11(a)(1)]

#### **Delaware County Technical Deficiencies**

1. Are ABACT controls being used in HQ and EV watersheds? It is hard to tell based on the plans and the linetype used for sediment barriers not differentiating between sock and fence. Clarify.
2. The Southwest corner of the intersection of the Street Road and Route 352 is the site of the former Fairhope Orchard. This site was subject to arsenic contamination, and required blending of the soil for mitigation. Has this issue been evaluated for potential impacts from this new excavation? Clarify.
3. Sheet E&S 6.03 –
  - a. Sta 15618+50: The run-off from the nursery, Wedgewood Gardens has a BMP in the corner of their property. The pipeline also crosses an existing residential construction site. This will impact the slope lengths and stabilization efforts in the area of the cross culvert.
  - b. Two crossings at Sta 15632+50 do not cross the stream in a perpendicular fashion, how will the disturbed channel be stabilized?
4. Sheet E&S 6.04

- a. Areas to be bored are not shown within the limits of disturbance. Some of the areas are Forested. Will they need to be cleared and grubbed, which would be considered earth disturbance?
  - b. Waterbars from the disturbed areas cannot discharge without the benefit of BMP's. Please illustrate a design detail for a BMP for such a discharge.
5. Sheet E&S 6.09 – Unsure why the LOD is illustrated only to the west of the bored pipeline. What is the disturbance that will take place from Sta.15851+00 through 15859+00?
6. Sheet E&S 3.24
- a. The pipeline appears to be passing through Linvilla Orchard. Has this area been evaluated for Arsenic Contamination?
  - b. Will the proposed waterbars discharge to stabilized areas or areas of row crops in the area of Linvilla?
7. Sheet E&S 6.31 – The Pipeline is going through an active fill site with E&S controls in place. Coordinate with site officials to not adversely impact existing BMP's without adequate remedial measures.
8. Sheet E&S 6.32 – Is Repauso Creek shown on the sheet? Locate.
9. Sheet E&S 6.34 – How will the HDD pull-back areas affect the wetland? Will it result in compaction? Could the area be done on timber mats?
10. Sheet E&S 6.35 - How will the HDD pull-back areas affect the wetland? Will it result in compaction? Could the area be done on timber mats?

**Twin Oaks Station Technical Deficiencies – all Deficiencies relate to 25 Pa Code § 102.11(a)(1)**

1. A large area is shown within the LOD to the North side of the existing unnamed tributary. Provide a description of the earthmoving to occur in this area. Also, note that no BMP's are currently proposed for this area. Specify BMPs proposed for this location.
2. Two swales discharge into a long forebay within the Wet Detention Basin. The forebay berm is constructed of planting mix, how will it not be easily eroded as stormwater overtops it?

3. How will the outer structure from the Wet Detention Basin be protected from discharging sediment until it is stabilized?
4. No erosion and sediment control is specified in the Southeast corner of the project. Specify. *[25 Pa Code Section 102.11(a)(1)]*
5. Plans reference ME1 – Existing Pad, but the existing features plan does not illustrate an existing pad. Specify.
6. The plan does not label the building noted in the sequence. The sequence does not reference construction of the illustrated loop access road, parking, driveway, or offstreet loading area. Specify.

### **PCSM Technical Deficiencies**

#### **Post Construction Stormwater Management/Site Restoration Plan (Narrative and Drawings)**

1. The following technical deficiencies are related to the restoration activities during the earth disturbance activities (as part of the E&S Plans) and post construction (as part of the Site Restoration Plans):
  - a. A Site Restoration Plan narrative shall be provided for the mainline pipeline construction. This narrative can be part of the E&S Plan narrative for the mainlines, and it is required to be in conformance with *[25 Pa. Code Sections 102.8(n), 102.8(b), 102.8(c), 102.8(e), 102.8(f), 102.8(h), 102.8(i), 102.8(l) & 102.8(m)]*
  - b. Provide more identification in the narratives and on the plan drawings related to topsoil segregation. *[25 Pa. Code Sections 102.4(b)(5)(iii), 102.4(b)(5)(vi), 102.4(b)(5)(ix), 102.8(f)(3), 102.8(f)(6) & 102.8(f)(9)]*
  - c. Provide more identification in the narratives and on the plan drawings related to loosening of compacted soils prior to topsoil placement and stabilization (at the temporary access roads, topsoil stockpiles, access routes along the mainline, etc.). *[25 Pa. Code Sections 102.4(b)(5)(iii), 102.4(b)(5)(vi), 102.4(b)(5)(ix), 102.8(f)(3), 102.8(f)(6) & 102.8(f)(9)]*
  - d. Provide a discussion of measures that will be taken to avoid and minimize compaction to the maximum extent practicable and where compaction occurs, what measures will be taken to ensure adequate infiltration and successful vegetation of the right of way. *[25 Pa. Code Sections 102.4(b)(4), 102.8(b) & 102.22.]* The Department recommends you evaluate Section 6.7 (Restoration

BMPs) of the PCSM Manual. Ensure notes are included on the drawings and in the documents that will be provided to the construction contractors.

- e. Describe how your planning and design requirements satisfy *25 Pa. Code Sections 102.4(b)(4) & 102.8(b)* and are minimizing the extent and duration of the construction and the minimizing any increase in stormwater runoff. Identify how these measures are satisfied when the ROW is in close proximity or is crossings surface waters or wetlands.
- f. Provide an antidegradation analysis addressing the requirements of *25 Pa. Code Section 102.8(h)* for the portions of the project that drain to HQ or EV surface waters. Ensure that areas where there may be concentrated stormwater runoff that there are adequate BMPs to control the volume, rate and water quality from the site. [*25 Pa. Code Section 102.8(f)(6)*]

Control Valve Sites (Exton Junction, Boot Road, Glen Mills, West Baltimore Pike)

1. Due to the linear nature of the overall project, provide the latitude and longitude for each valve site for verifying the responses on DEP Worksheet 1 and other calculation reference data. Add this location information to the PCSM Plan drawing. [*25 Pa Code Section 102.8(f)*]
2. Describe in the PCSM narrative how the stormwater runoff from the control valve pad site is intended to enter the underdrain from the surface. Without a berm, it seems that the rainwater runoff may simply run over the underdrain section and down the side of the control valve pad. But it seems that the underdrain is needed to convey some of the runoff from the control valve pad to the infiltration berm. Address. [*25 Pa Code Section 102.8(b)*]
3. Add the soil survey type, HSG, and boundary limits to the PCSM plan drawings. [*25 Pa Code Section 102.8(f)*]
4. Revise the drawing legends to be consistent with the plan drawings. [*25 Pa Code Section 102.8(f)*]
5. DEP Worksheet 4 needs to include all of the areas within the entire limit of disturbance for each Point of Interest. Amend the DEP Worksheet 4s accordingly. [*25 Pa Code Section 102.6(a)(1)*]
6. There are control valve sites in which the proposed infiltration berm is managing less than 90% of the disturbed areas. In these cases, DEP Worksheets 12 and 13 are needed with additional BMPs that manage this uncaptured runoff. [*25 Pa Code Section 102.6(a)(1)*]

7. Provide in hard copy form the outlet structure input data for the HydroCAD stormwater model for each of the infiltration berms; this needs to include the critical widths and elevations of the infiltration berm. Provide the stage-storage table for each infiltration berm from HydroCAD. Also, provide the infiltration data and volume from the HydroCAD model. *[25 Pa Code Section 102.8(g)]*
8. Verify the critical stages of the infiltration berms and underdrains, and any other stormwater BMPs for these valve sites. These need to have licensed professional oversight during construction, and this needs to be noted in the application and the sequence of construction. *[25 Pa Code Section 102.8(k)]*
9. Verify the long-term operation and maintenance schedule for the infiltration berms, underdrains, and any other stormwater BMPs for these valve sites. *[25 Pa Code Section 102.8(m)]*
10. Verify the off-site discharge analysis for each of the points of interest. This needs to be discussed in the narrative, reflected on the plan drawings, and addressed in the application. This needs to include detained and undetained areas of discharge from each valve site. It is uncertain from the plan drawings the limits of the applicant's right-of-way/property and the location of the nearest surface water. Amend the plan drawings accordingly. *[25 Pa Code Section 102.6(a)(1)]*

#### Twin Oaks Pump Station Site

1. Due to the linear nature of the overall project, provide the latitude and longitude for the Twin Oaks pump station site for verifying the responses on DEP Worksheet 1 and other calculation reference data. Add this location information to the PCSM Plan drawing. *[25 Pa Code Section 102.8(f)]*
2. The bottom of the test pits, performed in 2016 (for soil evaluation), extend to elevation 104; however, the bottom of the wet pond BMP is at elevation 103. The test pit(s) need to extend lower to the limiting zone(s). In addition, previous responses from the applicant stated that the soil borings reflected groundwater at 7 feet below grade, which equates to approximately elevation 102. (These boring logs were not received - Provide a copy of these boring logs for our review). The test pit excavation and log needs to be extended to this groundwater limiting zone elevation following Appendix C of the PA Stormwater BMP Manual. Also, the test pit revealed mottling - is this mottling associated with the adjacent wetland and/or unnamed tributary? This was not discussed in the narrative. Or is this mottling associated with the groundwater? With the information provided, it difficult to review when the test pit did not extend to the elevation of the groundwater encountered in the soil borings. Provide adequate descriptive explanation. There is a concern that the subsurface water may have an

adverse impact on the intended function and volume capacity of the proposed basin. There is also a concern that the adjacent wetland and watercourse will be adversely affected by the proposed basin. *[25 Pa Code Section 102.8(g)(1)]*

3. Verify the hydrologic soil group (HSG) referenced in the narrative for this site. It seems that it differs from the soil survey provided as part of the application. In addition, add the soil survey type, HSG, and boundary limits to the PCSM plan drawings. *[25 Pa Code Section 102.8(f)]*
4. Amend the PCSM narrative to include a source or reference for the rainfall depths for the 2, 10, 50, and 100 year/24-hour storm events that are used in the stormwater calculations and model. *[25 Pa Code Section 102.8(g)]*
5. The narrative does not discuss the infiltration tests or soil evaluations performed in 2016. It only discusses the ones done in 2014. Amend the narrative. *[25 Pa Code Section 102.8(g)(1)]*
6. How does the wet pond manage the volume and water quality? Thoroughly describe how the proposed wet pond will achieve 25 PA Code § 102.8(g)(2) – manage the net change in runoff volume and water quality from storm events up to and including the 2-year/24-hour storm (pre-development to post-development conditions) (also known as the “delta 2”). In addition, how does the wet pond dewater this net change in runoff within 72 hours? There is a reference to 12,327 cubic feet that is listed as managed volume – verify and provide reference on the PCSM Plan drawing for this volume. *[25 Pa Code Section 102.8(g)]*
7. Add the top and bottom elevations associated with the net change in runoff volume (delta2) within the basin to the basin section detail (a detail with the outlet structure shown). *[25 Pa Code Section 102.8(f)]*
8. What is the intent of the 2-foot depth of planting soil proposed at the bottom of the wet pond? How will the collected rainwater, which enters this lower area, exit this lower area when the lower native soils have a 0 inch per hour infiltration rate? *[25 Pa Code Section 102.8(b)]*
9. There is a concern that a 1” diameter orifice will become clogged during operation. How will this smaller sized orifice be protected from clogging? This needs to be addressed in the long-term operation and maintenance schedule. *[25 Pa Code Section 102.8(b)]*
10. Verify the long-term operation and maintenance schedule for the proposed forebay. Describe how this forebay will function and the intent of this forebay. Discuss how potential suspended solids will enter the forebay during a rain event and settle in the

forebay (and not be washed into the main wet pond area). [25 Pa Code Section 102.8(m)]

11. Provide in hard copy form the following information from the PondPack model: [25 Pa Code Section 102.8(g)]
  - a. The summary table for each point of interest (pre vs post development condition).
  - b. The stage-storage table for the basin (elevation and volume).
  - c. The outlet structure data.
  - d. The schematic diagram of the inflows, basin, bypass flows, outflows with the PondPack IDs.
  - e. The time of concentration data, drainage areas, CN computation (with existing and proposed cover types and associated areas).
  
12. Update the PCSM plan drawings with the following items: [25 Pa Code Section 102.8(f)]
  - a. Differentiate between existing features/topo and proposed features/topo with greyed/shaded lines for existing and bolder lines for proposed.
  - b. Add the bypass drainage area(s) with the bypass drainage area(s) listed in square feet – bypass flow (bypassing the basin) is discussed in the narrative.
  - c. Add the amount of area for the limit of disturbance in square feet. This needs to match the amount for the managed area in DEP Worksheet 4. Please note the cover sheet for the Twin Oaks Pump Station PCSM plan set reflects a limit of disturbance of 6.46 acres – this should be corrected to match the subject of the PCSM plan drawings.
  - d. Add the different cover types with areas listed in square feet
  - e. Add the time of concentration lines for the drainage area to the basin and the bypass area, and the existing condition.
  - f. Add all existing contours and tie-ins for the proposed contouring – differentiate with greyed/shaded lines for existing and bolder for proposed.
  - g. Add more labels to the existing and proposed contours to better review the drainage areas. In some areas, spot elevations may be needed to better depict the

drainage. The contouring is not clear for the drainage associated with the new pad and proposed driveway, and the existing driveway.

- h. Revise the drawing legends to be consistent with the plan drawings. Also, add more line types to the legend to better depict the different line types found in the plan drawings.
13. It seems that there is an existing conditions map within the PCSM Plan set. This existing conditions map does not reflect the ME1 Existing Pad or the existing detention basin. All existing features/topo need to be reflected on the map that is titled Existing Conditions. *[25 Pa Code Section 102.8(f)]*
14. Note the stormwater model reflects a 0.025 inch per hour infiltration rate; however, the 2016 infiltration tests resulted in 0 inch per hour. Update the model accordingly. *[25 Pa Code Section 102.8(g)]*
15. There is a detail for the Basin Outlet Structure on the PCSM Plan – Construction Details sheet. Is the proposed outlet structure or the existing outlet structure? The Section through the proposed wet pond does not reflect an outlet structure; however, the section through the existing detention basin reflects an outlet structure. Also, a Snout is specified on the outlet structure. Snouts are no longer approved by PADEP for water quality credit. In addition, Snouts are usually placed on the interior side of a catch basin or manhole with a sump provided within the structure. The detail on this PCSM Plan sheet reflects the snout on the outside of the outlet structure – what is the intent of the Snout? Is this Snout configuration recommended by the Snout’s manufacturer? Does this Snout configuration adversely affect the hydraulics of the outlet structure. *[25 Pa Code Section 102.8(f)]*
16. Verify all of the titles for each stormwater BMP detail. It seems that some of the details’ titles are not consistent with the labels and notes on the PCSM Plan sheets. *[25 Pa Code Section 102.8(f)]*
17. Verify the dimensions listed in the Vegetated Channels detail. The headings reflect the units to be feet but the specified dimensions reflect symbols for inches. *[25 Pa Code Section 102.8(f)]*
18. Verify the critical stages of the wet pond and swales, and any other stormwater BMPs for the Twin Oaks Pump Station. These need to have licensed professional oversight during construction, and this needs to be noted in the application and the sequence of construction. *[25 Pa Code Section 102.8(k)]*

19. Verify the long-term operation and maintenance schedule for the wet pond and swales, and any other stormwater BMPs for the Twin Oaks Pump Station. [25 Pa Code Section 102.8(m)]
20. Verify the off-site discharge analysis for each of the points of interest. This needs to be discussed in the narrative, reflected on the plan drawings, and addressed in the application. This needs to include detained and undetained areas of discharge. It is uncertain from the plan drawings the limits of the applicant's right-of-way/property and the location of the nearest surface water. Amend the plan drawings accordingly. [25 Pa Code Section 102.6(a)(1)]

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Delaware County Conservation District - Point of Contact – Michelle Ferri  
Chester County Conservation District - Point of Contact – Joe Sofranko

Pursuant to 25 Pa. Code Section 102.6(c) of DEP's rules and regulations, you must submit a response fully addressing each of the significant technical deficiencies set forth above. Please note that this information must be received within sixty (60) calendar days from the date of this letter, on or before November 1, 2016 or DEP may consider the application to be withdrawn by the applicant.

You may request a time extension in writing before November 1, 2016 to respond to deficiencies beyond the sixty (60) calendar days. Requests for time extensions will be received by DEP and considered. You will be notified in writing of the decision either to grant or deny, including a specific due date to respond if the extension is granted. Time extensions need to be in accordance with 25 Pa. Code Section 102.6(c).

Submit one (1) copy of the revised E&S/SR and PCSM Plan drawings & narratives to Chester and Delaware County Conservation Districts, one (1) copy of the revised E&S/SR and PCSM Plan drawings & narratives to Mr. William Himes at DEP, 3001 Fairway Drive, Altoona, PA 16602-4493 and the two (2) copies of the revised E&S/SR and PCSM Plan drawings & narratives to the DEP Southeast Regional Office at 2 East Main Street, Norristown, PA 19401.

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 requesting that DEP to make a permit decision based on the information you have already provided regarding the subject matter of that deficiency. If you choose this option with regard to any deficiency, you should explain and justify how your current submission satisfies that deficiency. Keep in mind that if you fail to respond, your application will be considered withdrawn.

Should you have any questions regarding the identified deficiencies, please contact me at 484-250-5152, and refer to ESG0500015001, to discuss your concerns or to schedule a meeting. The meeting must be scheduled within the 60 calendar days allotted for your reply, unless otherwise extended by DEP.

Sincerely,



Christopher Smith, P.E.  
Chief, Construction Permits Section  
Waterways and Wetlands

cc: Tetrattech  
Ms. Ferri – Delaware County Conservation District  
Mr. Sofranko – Chester County Conservation District  
Elverson Borough  
West Nantmeal Township  
East Nantmeal Township  
Wallace Township  
Upper Uwchlan Township  
Uwchlan Township  
West Whiteland Township  
East Whiteland Township  
West Goshen Township  
East Goshen Township  
Westtown Township  
Thornbury Township  
Edgmont Township  
Middletown Township  
Aston Township  
Brookhaven Borough  
Chester Township  
Upper Chichester Township  
Re 30 (GJS16WAW)246-3



September 6, 2016

SEP 14 2016

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

Re: Technical Deficiency  
Pennsylvania Pipeline Project (a.k.a. Mariner East II)  
Application No. E15-862  
APS No. 879047  
West Nantmeal, East Nantmeal, Wallace, Upper Uwchlan,  
Uwchlan, West Whiteland, West Goshen, East Goshen,  
Westtown Townships and Elverson Borough  
Chester County

Dear Mr. Gordon:

The Department of Environmental Protection (DEP) has reviewed the above referenced application package and has identified the following significant technical deficiencies. **Chapter 105 Dam Safety and Waterway Management regulations** includes information that will aid you in responding to some of the deficiencies listed below. The deficiencies are based on the requirements of Article I, §27 of the Pennsylvania Constitution and applicable laws and regulations. The guidance sets forth a means of satisfying the applicable regulatory requirements.

As you are aware, DEP staff in three different regional offices are reviewing sixteen other Chapter 105 permit applications associated with this project. While the regional offices have coordinated the review of the applications and the identification of deficiencies, it is possible that deficiencies raised in DEP's other deficiency letters may be applicable to this permit, even though not stated herein. DEP recommends that Sunoco Pipeline, L.P., evaluates whether any of the deficiencies identified in the other Chapter 105 permit application deficiency letters, beyond those deficiencies identified in this letter, necessitate revisions in this permit application.

### Common Technical Deficiencies

1. General Information Form (GIF)/Application:
  - a. List the types and amounts of emissions to satisfy question 13.0.1 of the GIF. *[1300-PM-BIT0001 5/2012 Instructions]*

- b. The Application and GIF have different titles for M.L. Gordon. Provide consistent titles for Mr. Gordon and a demonstration that he is authorized to sign the Application. *[25 Pa. Code Sections 105.13(i) 106.12(f)]*
2. Identify the proposed provisions for shut-off in the event of break or rupture for each crossing. Provide locations and a description of how this action will be completed in the event a break or rupture occurs. *[25 Pa. Code Section 105.301(9)]*
3. Site Plan, Drawings and Details (including Erosion and Sediment (E&S) Control Plan Drawings):
  - a. Several of the E&S Plan drawings appear to include design data or refer to the Mariner-1, 8-inch Anomaly Repair Project (see sheet ES-0.11, the dry bypass plan indicates a proposed 8" pipe). Perform a review of all plan drawings and remove all references to past projects. Typical detail data needs to be labeled appropriately and specific location details needs to reference specific locations. Typical cross sections need to be revised to indicate the proposed 20" and 16" diameter pipes. Typical trench details needs to indicate the appropriate trench width and include trench boxes, if appropriate for depth. *[25 Pa. Code Section 105.13(e)(1)(i)(C)]*
  - b. Stream and wetland crossing details are only provided in the "Notes" pages of the E&S Plan. Provide details on how each crossing will be constructed, associated E&S controls installed and how restoration will be accomplished. To facilitate your response this comment can be addressed by developing a table for placement on the drawings containing the requested information. *[25 Pa. Code Sections 105.13(e)(1)(i)(C); 105.13(e)(1)(iii)(A); 105.15(a); 105.21(a)(1)]*
  - c. Provide site plans that depict proposed work for each ATWS within a floodway or floodplain. These plans need to include, at a minimum, the duration of proposed activities, the expected layout, E&S controls, and size or quantity of materials or structures proposed. *[25 Pa. Code Section 105.13(e)(1)(i)(C)]*
  - d. A number of drawings in the package, for example the auger bore drawings, state that the plans are for permitting purposes only. The plans, specifications and reports in the application are part of a permit once a permit is issued and are considered final. Remove this language from the plans and provide final plans. *[25 Pa. Code Sections 105.13(e); 105.44(a)]*

- e. The auger bore drawings reference cathodic protection being installed. Provide plans and/or details for any proposed cathodic protection and identify on the plans where and which type of cathodic protection is proposed to be installed. *[25 Pa. Code Sections 105.3(4); 105.13(e)(1)(i)(C)]*
- f. Where cathodic protection is proposed to be installed in wetlands or other areas where vegetation is proposed to be undisturbed or replanted, identify how this cathodic protection will be maintained and replaced without vegetative disturbance. *[25 Pa. Code Sections 105.15(a); 105.13(e)(1)(ix); 105.18a]*
- g. For all Bore and HDD locations: Identify where all pipe pull back, assembly, lay out, and construction staging areas are located. Identify all temporary crossings and impacts to streams, wetlands, and floodways associated with these areas and revise the application accordingly to include these impacts. Include site-specific plans depicting the impacts and proposed temporary matting. *[25 Pa. Code Sections 105.13(e)(1)(i); 105.13(e)(1)(iii); 105.3(a)(4)]*
- h. The site plan sheets and E&S plan sheets identify the 50-foot assumed floodway boundary to be measured from the centerline of the stream as opposed to the top of bank. Revise the drawings to indicate floodway boundaries that adhere to the definitions in Chapter 105. *[25 Pa. Code Sections 105.13(e)(1)(i)(A); 105.1]*
- i. The Typical Wetland Crossing detail on the E&S plans, ES-0.09, indicates soil will be stockpiled in the wetland along the trench. Revise the detail to include a means of separating the stockpiled soil from the wetlands, such as geo-fabric and matting, to ensure full removal of the stockpiled soil and minimize impacts. *[25 Pa. Code Sections 105.423; 105.18a(a); 105.18a(b); 105.15(a); 105.14(b)(4); 105.14(b)(11); 105.14(b)(13)]*
- j. Installation of the trench plugs as depicted in the Trench Plug Detail is likely to result in adverse impacts to the hydrology of Waters of the Commonwealth. Provide a revised detail showing the trench plug continuing to the bottom of the trench instead of the top of the bedding material. *[25 Pa. Code Sections 105.18a; 105.15(a)]*
- k. The Typical Wetland Crossing detail on the E&S plans states that the detail does not apply to active cultivated or rotated cropland. Revise the detail to apply to all wetland crossings or provide a separate detail for wetland crossings in active cropland. *[25 Pa. Code Sections 105.18a; 105.15(a)]*
- l. Provide a description of the expected duration each temporary stream crossing

will remain in place. If the temporary stream crossing will be in place for greater than one year, then risk analysis will be necessary. [25 Pa. Code Section 105.13(e)(1)(iii)(A)]

- m. Additional comments relating to the drawings can be found in specific comments below.
- 4. There are several comments regarding Agency Coordination, including Pennsylvania Natural Diversity Inventory (PNDI) and Pennsylvania Historical and Museum Commission (PHMC). See specific comments below.
- 5. There are several comments regarding the Environmental Assessment. See specific comments below.
- 6. There are several comments regarding the Avoidance, Minimization, and Mitigation Plan. See specific comments below.
- 7. There are several comments regarding the Alternatives Analysis (AA). See specific comments below.
- 8. Comprehensive Environmental Evaluation - The following technical deficiencies are related to the overall project comprised by the 17 Chapter 105 Water Obstruction and Encroachment permit applications associated with this pipeline. Provide the Department with a Comprehensive Environmental Assessment of the Entire Pipeline Project as a Whole ("Comprehensive Environmental Evaluation") which, at a minimum, includes the following:
  - a. Use the Environmental Assessment Form (3150-PM- BWEW0017, 2/2013) as a guide and provide a detailed narrative and other appropriate documentation that comprehensively evaluates the project as a whole under each of the categories therein (Part 1 – Resource Identification; Part 2 – Project Description – including all the analyses listed in the form, as well as in 25 Pa. Code Sections 105.13(f)(1)(vii-x), (2), (3), (g), and (j); 105.15; Article I, §27 (Pa. Constitution).
  - b. The Comprehensive Environmental Evaluation also needs to provide a detailed narrative and other appropriate documentation that comprehensively evaluates the project as a whole for compliance with the requirements associated with the Department's review of the application listed in 25 Pa. Code Section 105.14 in its entirety, with particular emphasis on:
    - i. Antidegradation Analysis - Prepare and submit an analysis and information that addresses consistency with State antidegradation

- requirements contained in Chapters 93, 95 and 102 (relating to water quality standards; wastewater treatment requirements; and erosion and sediment control) and the Clean Water Act (33 U.S.C. Sections 1251—1376) for this entire project and other potential or existing projects. 25 Pa. Code Section 105.14(b)(11).
- ii. Secondary Impact Analysis – Prepare and submit an analysis and information that addresses secondary impacts associated with but not the direct result of the construction or substantial modification of the water obstruction or encroachment in the areas of the entire project and in areas adjacent thereto and future impacts associated with water obstructions or encroachments, the construction of which would result in the need for additional dams, water obstructions or encroachments to fulfill the project purpose. 25 Pa. Code Section 105.14(b)(12).
  - iii. Project Wide Cumulative Impacts Analysis. Prepare and submit an analysis and information that addresses the cumulative impact for this entire project and other potential or existing projects. As part of this analysis evaluate whether numerous piecemeal changes associated with all the Chapter 105 applications related to this pipeline project may result in a major impairment of the wetland resources. The analysis must be undertaken for each alternative prepared for the proposed pipelines and facilities of Mariner East II, on a statewide basis and must be completed for the entire project, as a whole referencing each of the applications for the entire project. 25 Pa. Code Sections 105.14(b)(14); 105.15.
  - iv. Comprehensive Evaluation of Compliance with 25 Pa. Code § 105.18a. Prepare and submit an analysis and information that evaluates the project as a whole with all the requirements found in 25 Pa. Code Section 105.18a for each wetland or wetland complex in or along the project area as a whole. 25 Pa. Code Section 105.18a.
  - v. Comprehensive Alternatives Analysis, Avoidance and Minimization and Mitigation. The applicant needs to demonstrate that the alternatives chosen for the entire project will avoid cumulative impacts to the maximum extent practicable, and where such impacts are not avoidable, describe in detail with appropriate supporting documentation, how such impacts will be minimized and mitigated to the satisfaction of the Department. 25 Pa Code Section 105.1

**Technical Deficiencies**Joint Permit Application Package, Section F, Attachments1. **GIF**

No comment.

2. **Application Fee and Work-sheet**

No comment.

3. **Act 14 Notifications**

No comment.

4. **Cultural Resources**

- a. Provide clearance or approval from the Pennsylvania Historical and Museum Commission (PHMC) for cultural, archeological, and historic resources for the proposed water obstructions and encroachments and areas necessary to construct the water obstructions and encroachments. [25 Pa. Code Sections 105.13(e)(1)(x); 105.14(b)(5); 105.15(a); 105.15(a)(1); 105.14(b)(4); *Environmental Assessment Form Instructions & Joint Permit Application Instructions for a Water Obstruction and Encroachment Permit Application, III, Section F. d.; Implementation of the Pennsylvania State History Code: Policy and Procedures for Applicants for DEP Permits and Plan Approvals, Document # 012-0700-001]*
- b. The project description provided in the Cultural Resource Notice states that the second pipe is to be installed within 5 years. The application Project Description or other descriptions in the application do not mention that the second pipe will be installed within 5 years. Revise and clarify the application to clearly identify if both pipelines will be installed at the same time, or if they will be installed at separate times. If the pipelines will be installed at separate times, revise the application to indicate this, and identify the temporary and permanent impacts from the second pipeline installation separately, and discuss the alternative of installing them at the same time to avoid and minimize impacts. [25 Pa. Code Sections 105.13(e)(1)(iii)(A); 105.13(e)(1)(iii)(B); 105.15(a); 105.15(a)(1); 105.14(b)(4); 105.18a(a); 105.18a(b); 105.13(e)(1)(ix)]

5. **PASPGP Cumulative Impact Form**

PASPGP-4 has expired. Prepare and submit PASPGP-5 Reporting Checklist and Aquatic Impact Table forms and acknowledgement of application of Section 404 Permit Application made to U.S. Army Corps of Engineers. [25 Pa. Code §105.13]

6. **PNDI and Agency Coordination**

- a. Provide a PNDI Search clearance letter from the Pennsylvania Game Commission for threatened and endangered species under their jurisdiction. [25 Pa. Code Sections 105.13; 105.14; 105.21; 93.4c(a)(2)]
- b. Provide details and clearance status of Migratory Bird issue requested by the U.S. Fish and Wildlife Service. [25 Pa. Code Sections 105.13; 105.14; 105.21; 105.411(3)]
- c. The consultations with the agencies [Pennsylvania Game Commission (PGC), Pennsylvania Fish and Boat Commission (PFBC), Pennsylvania Department of Conservation and Natural Resources (DCNR), and the U.S. Fish and Wildlife Service (USFWS)] have resulted in the incorporation of avoidance measures, seasonal restrictions and other recommendations being provided to the applicant in the various clearance letters. In an effort to clarify and implement these measures and restrictions the applicant needs to prepare a table clearly listing all avoidance measures, seasonal restrictions and other recommendations and provide this table to the Department as a supplement to their application. These conditions also need to be included in the Notes of the Erosion and Sedimentation Control Plan so that they are readily accessible to project staff and contractors. [25 Pa. Code Sections 105.13; 105.14; 105.16(c)(3); 105.21]

7. **Site Plans**

- a. Provide cross section drawings for all stream crossings and indicate existing and proposed conditions at each crossing site [25 Pa. Code Sections 105.13; 105.13(e)(1)(A) & (G); 105.302; 105.311]

8. **Location Map**

No comment.

9. **Project Description**

- a. The 2.3 mile Swedesford Road lateral off the mainlines is shown on the site

plans but is not described in the Project Narrative or any other section of the application package. Provide purpose, need, description, impacts and any mitigation measures regarding this proposed lateral. [25 Pa. Code Sections 105.13; 105.14; 105.301(7); 105.13(e)(1)(ix)]

- b. Descriptions and locations of valve stations are not provided. Provide descriptions and locations of the valve stations located in Chester County. [25 Pa. Code Sections 105.13; 105.14]
- c. Provide the provisions to be used to protect the environmental resource in the event of break or rupture. These provisions need to be explained in the Project Description and referenced on the drawings. [25 Pa. Code Section 105.302(5)]

10. **Color Photographs**

No comment.

11. **Environmental Assessment**

- a. The application identifies a number of watercourses (streams) as ephemeral (see Table 3, Section F, Attachment 11). No methods for the determination of ephemeral flow status of the streams are provided. It appears that only desk-top evaluations and/or cursory field observations were utilized. Ephemeral streams are not identified separately in Chapter 105 and are included in the definition of intermittent stream. Revise the application materials accordingly to identify the ephemeral streams as intermittent. [25 Pa. Code Section 105.1]
- b. The application classified watercourses as “drains to.” There is no stream classification in 25 Pa. Code Chapter 93 of “drains to.” All tributaries not noted separately in Chapter 93 are given the classification of their downstream reaches and thus receive the appropriate level of protection. Revise relevant tables to include the correct stream classification for all streams and their tributaries. [25 Pa. Code Section 93.1]
- c. Revise the application to include an analysis on whether the wetlands are “Exceptional Value (EV)” or “Other” wetlands. This needs to include an analysis based on each of the seven factors listed in 25 Pa. Code Section 105.17, including wetlands associated with EV streams and Wild Trout Streams, habitat for threatened or endangered (T&E) species, wetlands that are hydraulically connected to T&E habitats, wetlands along a public or private water supply, including both surface water and groundwater, Scenic rivers, and

natural or wild areas (see Section 105.17 for complete criteria). DEP has identified that at least the following wetlands: A46, C33, C34, and C35 are EV and have not been identified as such in the application. Reevaluate the classification of streams and wetlands based on 25 Pa. Code Section 105.17 and then revise Table 2, Section F, Attachment 11 to accurately identify EV and Other wetlands. [25 Pa. Code Section 105.1 Wild trout streams; Sections 105.15(a) and 105.17; 105.21(a)(1); 58 Pa. Code Section 57.11(b)(4)]

- d. Provide an assessment of the functions and values of all additional Exceptional Value wetlands as a result of the response to Section 11.c. [25 Pa. Code Sections 105.13(e)(3); 105.14(b)(13); 105.15(a); 105.15(a)(1)]
- e. EV wetlands are defined as EV waters by Chapter 93. Therefore, explain the measures the applicant will implement to comply with the anti-degradation requirements of the Department's water quality standards program. [25 Pa. Code Sections 93.4c(b); 93.4c(b)(2); 93.1 (defn. of surface water of exceptional ecological significance); 105.14(b)(11); 105.18a(a)(4); 24 Pa.B. 922 (February 12, 1994)(Incorporation of the Department's Existing Wetlands Protection Program into Water Quality Standards Program)]
- f. Section F, Attachment 11, EA Form, page 2, Item 7 states, "Is the water resource part of or located along a private or public water supply?" The Applicant checked "No." However, no documentation validating this statement is provided in the application. DEP is concerned that private and perhaps public water supply wells are located along crossed stream and wetland water resources and/or along the length of the HDD operations.

The applicant needs to propose measures to protect all public water uses, both surface intakes and groundwater sources, located along and/or downstream of the proposed work areas. Special attention needs to be applied to the potential unplanned impacts that HDD and inadvertent releases (IR) may have on groundwater sources. In addition, where a structure or activity is in a wetland, the applicant must demonstrate that this project will not cause or contribute to the pollution of groundwater or surface water resources or diminution of resources sufficient to interfere with their uses, including use as a public or private water supply. Your assessment needs to include identification, notification and consultations with water suppliers and/or well owners. A notification contact list needs to be included in your PPC Plan and Inadvertent Release Plan. [25 Pa. Code Sections 105.13; 105.14(b)(4); 105.14(b)(5); 105.18a(5); 105.18a(b)(5)]

- g. Item B.2.a of Section F, Attachment 11, Enclosure D of the Environmental Assessment (EA) states the natural drainage patterns of the wetlands and small or headwater streams will be maintained. However, no information has been provided or detailed contours or cross sections depicting the drainage patterns, or what the drainage patterns are in the wetlands in the existing conditions. Provide site-specific cross sections for the streams and wetlands which depict the existing and proposed conditions of the streams and wetlands, proposed pipes and depths; and the existing stream bed and banks dimensions. [25 Pa. Code Sections 105.13(e)(1)(i)(G); 105.13(e)(1)(x); 105.14(b)(4); 105.14(b)(13); 105.13(e)(1)(ix); 105.1; 105.14(b)(11); 105.15(a); 105.15(a)(1); 105.16(d); 105.18a(a)(1); 105.18a(a)(5); 105.18a(b)(1); 105.18a(b)(5); 105.301(3); 105.301(4); 105.301(5)]
- h. The EA does not list the South Branch of French Creek as a state scenic river. In addition, Shamona Creek and Black Horse Creek are not defined as wild trout streams. Revise text and tables to include the correct stream and wetland classifications. [25 Pa. Code Section 105.14(b)(10)]
- i. Revise Section A.9 of Enclosure D of the Environmental Assessment to discuss and identify impacts to preserved farms and/or farms with agriculture preservation easements or restrictions. Discuss how the minimization measures would affect preserved farms and how they will be affected, such as not able to replant an orchard or vineyard. [25 Pa. Code Sections 105.13(e)(1)(x); 105.21(a)(1); 105.15(a); 105.15(a)(1); 105.14(b)(5); 105.14(b)(4)]

12. **Erosion and Sedimentation Control Plan**

- a. The E&S plan drawings and plan sheets indicate that no improvements are proposed for the resource crossings. However, the impact plan drawings and impact tables indicate temporary crossings and bridges are proposed. Revise the application accordingly to be accurate. If temporary crossings are proposed, revise the E&S plan drawings to depict the impacts. If an existing road with existing obstructions crossing streams or wetlands is proposed to be utilized and no improvements are proposed to the road, then provide color photographs of the resources and existing road crossings. Note: the provided photographs do not depict or clearly depict these crossings. [25 Pa. Code Sections 105.13(e)(1)(i)(C); 105.13(e)(1)(iii)(A); 105.13(e)(1)(iv); 105.15(a); 105.21(a)(1)]
- b. The "typical" wetland crossing details shown on the E&S plans, ES-0.09, indicates Trench Breakers are to be installed in the trench in the wetlands; however, it is not clear what Trench Breakers are, or if Trench Plugs are what is meant. Revise this detail to identify if Trench Plugs are meant by this term,

or provide a detail for trench breakers. In addition, if trench plugs are proposed to maintain wetland hydrology, revise the detail to include trench plugs within the wetland for wetland crossings and specify the distance increments. Furthermore, the E&S plan drawings depict trench plugs which are inconsistent with the detail. Revise the site plans to be consistent with the detail. [25 Pa. Code Sections 105.18a(a)(1); 105.18a(a)(3); 105.18a(a)(4); 105.18a(a)(5); 105.18a(b)(2); 105.18a(b)(3); 105.18a(b)(4); 105.18a(b)(5); 105.15(a)(1); 105.14(b)(4); 105.14(b)(11); 105.14(b)(13); 105.13(e)(1)(i)]

- c. Provide plans showing the location, type, size and height of any proposed culvert construction and/or modifications of culverts within streams or wetlands. Provide an analysis of the hydraulic capacity demonstrating that the structures do not have: (1) an adverse impact on EV wetlands; (2) a significant adverse impact on Other wetlands; and (3) materially alter the natural regimen of the stream or increase velocities or direct flows in a manner which results in erosion of stream beds and banks. [25 Pa. Code Sections 105.18a(a)(1); 105.18a(a)(3); 105.18a(a)(4); 105.18a(a)(5); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(3); 105.18a(b)(4); 105.18a(b)(5); 105.15(a)(1); 105.14(b)(4); 105.14(b)(11); 105.14(b)(13); 105.13(e)(1)(i)]
- d. Provide site-specific plans and cross sections depicting the size and height for the proposed "Block Valve Settings", their limits of disturbance, permanent access roads, and all other permanent grading and structures located in Waters of the Commonwealth and floodplains. This needs to include plans depicting the size and height of structures located in the floodway and floodplain. [25 Pa. Code Sections 105.13(1)(i); 106.12(d)(2)]
- e. Proposed plantings relating to immediate stabilization on restoration plans need to eliminate Crown Vetch (*Coronilla varia*).

13. **Hydrologic and Hydraulic Analysis**

No comment.

14. **Stormwater and Floodplain Management Analysis**

- a. An Act 167 Stormwater Management Plan has been prepared/adopted by Chester County under the Stormwater Management Act. Provide an analysis of the project's impact on, and consistency with, the stormwater management plan, along with a letter from the municipalities and County commenting on this analysis. If a letter is not provided, provide all correspondence with the County and municipalities on this subject. [25 Pa. Code Section 105.13(e)(1)(v)]

- b. The proposed project is located within a floodway delineated on the municipal FEMA map. Provide an analysis of the project's consistency with municipal flood plain management programs and provide a letter from each local municipality indicating consistency with their respective municipal flood plain management programs. If a consistency letter is not provided, provide all correspondence (including municipal requests for more information) with the municipalities on this subject. *[25 Pa. Code Section 105.13(e)(1)(vi)]*

15. **Risk Assessment**

No comment.

16. **Professional Engineer's Seal/Certification**

No comment.

17. **Alternatives Analysis (AA)**

- a. The Alternatives Analysis (AA) needs to include a summary of major actions taken to avoid/minimize impacts. The Alternatives Analysis must be a detailed analysis of alternatives, including alternative locations; routings; or designs; to avoid or minimize adverse impacts. Document and provide evidence that there is no practicable alternative which would not involve a wetland or that would have less adverse impact on a wetland. Revise the AA to provide a detailed analysis of alternative routings, locations, and designs to avoid and minimize impacts and provide detailed documentation and evidence that there are not practicable alternatives which would further avoid and minimize impacts. *[25 Pa. Code Sections 105.13(e)(1)(viii); 105.14(b)(7); 105.18a(a)(2); 105.18a(a)(3); 105.18a(b)(2); 105.18a(b)(3)]*
- b. According to Table 2, Section F, Attachment 11 within Chester County there are 26 wetland crossings, 17 of these are proposed to be made by open cut, seven (7) crossings by HDD and two (2) crossings by boring. Of these 26 crossings 14 are of EV wetlands. Of the 14 EV wetlands four (4) crossings are proposed by HDD, one (1) crossing by boring, and nine (9) crossing by open cut. There are 12 crossings of "Other" wetlands, two (2) proposed for HDD, one (1) by bore and nine (9) by open cut. The applicant's AA does not provide any justification for their selection of which water resource (streams and wetlands) crossings will be made by HDD. This information needs to be provided.

It appears, but is not described in the application, that HDD was assumed by the applicant to be the crossing method presenting the least potential impact to water resources and aquatic species. However, their basis for this decision is not provided. It also appears that HDD is proposed only for crossings of known and suspected bog turtle habitats and residential/commercial areas. A full discussion of these HDD issues needs to be provided in the AA. If HDD is the least impactful method, then the applicant needs to provide explanations why all the remaining EV wetlands cannot be crossed by HDD.

Section 105.18a (a) (1 through 7) provide criteria for assessing impacts to EV wetlands. Each of these seven (7) criteria must be fully discussed in AA to justify proposed impacts to EV wetlands. Likewise, §105.18a (b) (1 through 7) provide criteria for "Other" wetlands. Each of these seven (7) criteria must also be discussed in the AA to account for proposed impacts to "Other" wetlands. Provide a revised alternatives analysis that incorporates a discussion of alternative crossing techniques (conventional bore, HDD, micro-tunneling, etc.) addressing each EV and Other resource crossing individually, and explaining why trenchless installation methods are or are not appropriate. Provide justification based on §105.18a for selecting method of crossings. [25 Pa. Code Sections 105.13(e)(1)(viii); 105.14(b)(7); 105.18a(a)(2); 105.18a(a)(3); 105.18a(b)(2); 105.18a(b)(3)]

- c. The applicant has selected HDD to cross selected sensitive environmental and residential/commercial areas but has not presented supporting data that documents the suitability of the substrate and geology for HDD utilization. The Revised Bog Turtle Conservation Plan (February 20, 2016) prepared by the applicant includes geotechnical data that was obtained at selected sites. However, similar geotechnical and risk analysis were not included in the application package for all proposed HDD crossings. The applicant needs to submit such data and documentation. In addition, the applicant has not presented contingency plans in the case that HDD fails at certain sites. Such contingency plans must be developed and submitted to DEP. Resultant impacts of utilizing other construction methods must also be documented and submitted to the Department. [25 Pa. Code Sections 105.13(e)(1)(viii); 105.14(b)(7); 105.18a(a)(2); 105.18a(a)(3); 105.18a(b)(2); 105.18a(b)(3)]

18. **Avoidance, Minimization, and Mitigation Plan**

- a. The application references stream and wetland restoration but sufficient details and plans for stream and wetland restorations have not been provided. Provide a mitigation/restoration plan for the impacted streams and wetlands in accordance with §§105.20a(a) and (b). This plan needs to include all phases of restoration and replacement, including detailed grading plans, stabilization, in-

stream control measures, planting plans, schedules and monitoring plans. [25 Pa. Code Sections 105.13(e)(1)(ix & x); 105.18(a & b); 105.16(d); 105.20a (a) & (b).

- b. In regards to the mitigation plan, explain how pre-existing conditions (bank grades, bank slopes, bed and bank elevations, soils and habitat features) will be documented and used as a basis to restore impacted streams and wetlands to pre-existing or better habitat conditions. Explain under what conditions the restoration design based on pre-existing design will be modified when the pre-existing conditions are degraded (areas of severe bank erosion, bank undercutting, unnatural substrate and similar conditions). Provide plans and details for the restoration of stream habitat at open cut stream crossings. This needs to include stockpiling and segregation and replacement of native stream bed material. Contingency plans addressing measures to stabilize the work area in the event of sudden precipitation also need to be included. [25 Pa. Code Sections 105.13(e)(1)(i)(G); 105.13(e)(1)(i)(C); 105.311(2); 105.15(a); 105.14(b)(4); 105.16(d).
- c. The application states that temporarily impacted Palustrine Scrub Shrub (PSS) and Palustrine Forested Wetlands (PFO) wetlands will be replanted with native trees and shrubs, PSS wetlands in the permanent ROW will be planted with wetland shrubs, and PFO wetlands in the permanent ROW will be allowed to revert to PSS/PEM wetlands. PFO areas in temporary impacted areas, outside the 50-ft right-of-way, will be re-planted with native forest tree species. Provide planting plans and details for these restoration areas including the replanting of PFO areas in the permanent ROW. Identify the locations of the plantings and wetlands, the species to be planted, the planting density, the proposed size of the plantings, planting timing, goals and objectives for success, and a monitoring plan to ensure re-establishment. [25 Pa. Code Sections 105.13(e)(1)(ix); 105.1, Mitigation; 105.14(b)(4); 105.14(b)(13); 105.18a(a)(1); 105.18a(a)(3); 105.18a(a)(6); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(6)]
- d. Section 2.2.2.1 of the Mitigation Plan identifies that wetlands will be reseeded with a native wetland seed mixture; however, the mixture, application rates and other factors are not specified nor are they proposed on the plans. Revise the application to identify the seed mixture to be used and revise the E&S plans to indicate its use for wetland restoration. Provide similar information for the replanting of wetland shrubs and forest species (as discussed in 18.c). Note that not planting and allowing natural colonization of impacted areas will likely result in areas dominated by invasive, non-native species and is not an acceptable approach to restoration. [25 Pa. Code Sections 105.13(e)(1)(ix); 105.1, Mitigation; 105.14(b)(4); 105.14(b)(13); 105.18a(a)(1);

*105.18a(a)(3); 105.18a(a)(6); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(6)]*

- e. The Mitigation Plan and Environmental Assessment (EA) state that conversion of Palustrine Forested Wetlands (PFO) is proposed to occur, that there will be a functional loss, but the loss is *de minimis*; however, the application does not evaluate the cumulative conversion of PFO wetlands for the entire project. Revise the application to assess the impacts to the affected forested wetlands, evaluate the cumulative effect on all counties of the proposed project, and provide compensatory replacement for the lost functions and values. Provide plans for compensatory mitigation to replace PFO permanently lost due to forest conversion. Provide your definition of *de minimis* and the source of this definition. *[25 Pa. Code Sections 105.13(e)(1)(ix); 105.1, Mitigation; 105.14(b)(4); 105.14(b)(14); 105.14(b)(13); 105.18a(a)(1); 105.18a(a)(3); 105.18a(a)(6); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(6); 93.4a(b); 93.4a(c); Article I, Section 27 (Pa. Constitution)]*
- f. Revise Enclosures C&D to assess the condition and discuss the condition of and impacts to forested and scrub shrub riparian areas. Revise the enclosures to discuss the primary and secondary impacts, as well as consideration of antidegradation, on watercourses for each watercourse crossing from the riparian vegetation impacts. *[25 Pa. Code Sections 105.15(a), 105.13(E)(1)(x); 105.14(b)(4); 105.14(b)(11); 105.14(b)(12); 105.14(b)(14)]*
- i. Evaluate the riparian areas from the top of bank landward 100ft, and if the area utilized is less than 100ft, justification should be given as to why. *[25 Pa. Code Sections 105.15(a); 105.13(E)(1)(x); 105.14(b)(4); 105.14(b)(11); 105.14(b)(12); 105.14(b)(14); Riparian Forest Buffer Guidance, Document # 394-5600-001]*
- ii. To avoid and minimize the impacts to the watercourses, provide a plan to replace the vegetation lost in both permanent and temporary ROW and workspaces. Alternatively, where it cannot be replaced and protected from clearing during the proposed project's operation and maintenance, provide an explanation as to why it cannot be replaced. *[25 Pa. Code Sections 105.15(a); 105.13(E)(1)(x); 105.14(b)(4); 105.14(b)(11); 105.14(b)(12); 105.14(b)(14); 105.1; 105.14(b)(7)]*
- iii. Revise the application plan drawings and project description, to clearly and specifically state if vegetation clearing, cutting, removal, or other alteration is proposed as part of the proposed projects' construction, operation, and maintenance. Revise the plan drawings to clearly indicate all locations where maintenance clearing, cutting, removal, or other alteration is not part of proposed maintenance activities. *[25 Pa.*

*Code Sections 105.13(e)(1)(ix); 105.14(b)(4); 105.14(b)(12); 105.14(b)(13); 105.14(b)(14); 105.11(d)]*

- g. Section 2.2.2.1 of the Mitigation Plan, entitled “Construction in Wetlands with Unsaturated Soils”, conflicts with the rest of the application, which identifies that all wetland crossings will be crossed with mats or pads. Crossing unsaturated wetlands without timber mats would contribute to soil compaction, rutting, and disturbance of the cut vegetation’s roots. Therefore, revise the Mitigation Plan to identify that all wetland crossings shall use mats or pads. *[25 Pa. Code Sections 105.21(a)(1); 105.13(e)(1)(ix); 105.13(e)(1)(i); 105.13(e)(1)(iii); 105.13(e)(1)(x); 105.14(b)(4); 105.14(b)(13); 105.15(a); 105.15(a)(1); 105.18a(a)(3); 105.18a(a)(1); §105.18a(b)(1); 105.18a(b)(2); 105.422]*
- h. Prepare a monitoring plan that verifies that the permittee will monitor the stream and wetland restoration sites for at least five (5) years: Monitoring reports will need to be submitted to the Department every six months for the first two years after construction and annually for three years thereafter. The monitoring reports shall contain information describing the success of the site at the time of inspection, an inventory of the surviving plant species and percent aerial coverage, photographs of the replacement sites with plans showing the location and orientation of each of the photographs, and a written plan to correct any deficiencies identified during the monitoring phase. *[25 Pa. Code Sections 105.20a; 105.18a(a)(7); 105.18a(b)(7); 105.13(e)(1)(ix) 105.16(a); 105.1 (defn. of mitigation); 105.53(4); 105.54]*
- i. The Department disagrees with the statement made in several sections of the application that secondary effects will not occur to impacted wetlands. Secondary (indirect) effects are defined in the EPA Regulations (40 CFR §230.11) as effects on an aquatic ecosystem that are associated with a discharge of dredged or fill materials, but do not result from the actual placement of the dredged or fill material. Secondary effects that may occur on the impacted wetlands include alteration of wildlife and aquatic habitats, changes in hydrology due to factors such as over-compaction of soils, changes species composition and densities and colonization by invasive species. Address secondary impacts, their monitoring, prevention of such impacts, and control strategies, in the requested restoration and mitigation plan. *[25 Pa. Code §§105.14(b)(12); 105.21(a)(1); 105.13(e)(1)(ix); 105.13(e)(1)(i); 105.13(e)(1)(iii); 105.13(e)(1)(x); 105.14(b)(4); 105.14(b)(13); 105.15(a); 105.15(a)(1); 105.18a(a)(3); 105.18a(a)(1); 105.18a(b)(1); 105.18a(b)(2); 105.53(4); 105.54; 105.422]*

- j. Provide details of SPLP's annual Wetland Monitoring and Environmental Inspection Programs. [25 Pa. Code Sections 105.13(e)(1)(ix); 105.1, Mitigation; 105.14(b)(4); 105.18a(a)(1); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(6); 105.53(4); 105.54]
- k. The Mitigation Plan does mention placement of "No Mowing" signs as replanted PSS areas, but this doesn't provide for long term protection if repairs are needed, replanting of these areas if accidental mowing occurs, and that such signs could become not visible over time. Provide "No Mowing" stones to demarcate the area. Stones need to be placed and of size to prevent mowing equipment access. [25 Pa. Code Sections 105.13(e)(1)(ix); 105.1, Mitigation; 105.14(b)(4); 105.14(b)(13); 105.18a(a)(1); 105.18a(b)(1); 105.18a(b)(2); 105.18a(b)(6)]

19. **Other Comments**

- a. The application will need a comprehensive Preparedness Prevention Contingency Plan (PPC) combined with the Inadvertent Release Plan (IRP). The plan needs to include downstream notification lists of public and other water intakes and public and private water wells along the ROW, noting those water users along areas where HDD will be utilized.
- b. The application includes separate documents covering PPC activities. Due to the scope of this project, you must consolidate these plans into one stand-alone document that can be used in the field. This single document will be the primary document used for emergency response, and as such, needs to provide a complete and useable reference for contractors and other on-site personnel. The PPC needs to include the following:
  - i. Instructions and procedures to facilitate the avoidance and minimization of impacts and provide the framework to investigate and resolve impacts caused by spills, releases, and other pollution events should they occur.
  - ii. Notification protocols and an up to date list of agencies and local governments. Specifically missing from the current submitted application is the contact information for The U.S. Fish and Wildlife Service, PADEP Southeast Regional Office and Counties in the Southeast Region.
  - iii. The management of excess drilling mud/liquids that may be encountered at the individual bore pits.

- iv. Appendix B needs to be revised to state that all discharges to a stream, wetland or groundwater must be contained, and PADEP must be notified. *[25 Pa. Code Sections 105.2 (1 and 2); 91.33(a) and (b)]*
  
- c. While you provided a narrative discussing how impacts to private water supplies will be investigated and addressed, a formal plan has not been provided. Revise the PPC Plan to include the following on public and private water supplies: *[25 Pa. Code Sections 105.14(b)(4); 105.14(b)(5)]*
  - i. A copy of the FERC standards SPLP Plans to use in accepting and investigating landowner complaints of spring and well water supply impairment.
  
  - ii. Measures the applicant will take to investigate for the presence of public and private water supplies in areas where HDD crossings are proposed. Utilize the attached instructions for searching eMAP for Public Water Supply locational information. You will not be able to obtain the exact source location, but you will be able to find any in the vicinity and obtain the name of the Public Water Supplier. If any are identified in the vicinity of your project, you need to contact the water supplier to discuss the project with them and work to determine if your project will have an impact on the water supply. Both surface and groundwater supplies need to be evaluated and included in your review and response documents.
  
  - iii. Procedures that will be followed to investigate and resolve impacts to public and private water supplies should they occur as a result of the proposed activities. This procedure needs to discuss how water supply owners will be alerted in the event of an inadvertent return.
  
  - iv. Here are some options for the pipeline drilling to protect drinking water wells:
    - 1. Map where the pipeline crosses sensitive geology and aquifers. Maps are available from the state geologic survey of unconsolidated sand and gravel, carbonate, and known karst feature density
    - 2. Location and contact information for drinking water wells in the vicinity of the pipeline. Well contact info can be searched for by location in the eMAP PA website for public wells and PAGWIS website for driller registered private wells.
    - 3. Within 0.5 miles, wells are potentially vulnerable over a long time period, and within 400 feet wells are vulnerable in short time

- periods. Some wells may have more accurately modelled protection zones available.
4. Continuous monitoring of water levels in nearby wells could show a hydraulic connection that may have quantity or quality impacts. Water quality sampling and analysis of nearby wells could monitor for quality impacts
- d. The HDD Inadvertent Return Contingency Plan includes profiles identifying Geotechnical profiles; however, no analysis has been provided on the risk of an inadvertent return occurring. Provide an analysis on the risk of an inadvertent return occurring for all proposed HDD crossings. Include in-depth detail, discussion, and data in the analysis of the risk of a return occurring. [25 Pa. Code §§105.14(b)(7); 105.18a(b)(3); 105.18a(b)(4); 105.18a(b)(5), 105.14(b)(4); 105.14(b)(11)]
- i. Provide information/details on previous HDD activities on the prior Mariner East pipeline project where IRs occurred. At a minimum this needs to include a topographic map with locations and latitude/longitude of each occurrence, description of event, amount of discharge, whether the discharge entered waterways and/or wetlands, mitigation/clean-up measures taken, etc. Also, provide a list of areas where Mariner East 1 had issues with inadvertent returns to the surface when conducting HDD crossings, and discuss how you have taken these historic issues into account in your design of the proposed project.
  - ii. A stand-alone attachment needs to be created to address the pre-boring geologic evaluation of the existence and potential to impact local drinking water supplies or aquifers around the boring location. The plan needs to include what measures will be employed to verify that no supplies or aquifer are impacted (i.e. pre and post water quality and quantity analysis). The plan also needs to specify what notifications and remediation measures will be employed if there are impacts.

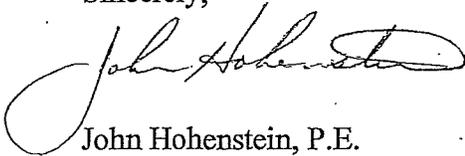
You must submit a response, in triplicate, for each of the above deficiencies. You may request a time extension, in writing, before November 7, 2016 to respond to deficiencies beyond the sixty (60) calendar days. Requests for time extensions will be reviewed by DEP and considered. You will be notified in writing of the decision either to grant or deny, including a specific due date to respond if the extension is granted. Time extensions shall be in accordance with 25 Pa. Code Section 105.13a (b).

DEP has developed a standardized review process and processing times for all permits or other authorizations that it issues or grants. Pursuant to its Permit Review Process and Permit Decision Guarantee Policy (021-2100-001), DEP guarantees to provide permit decisions within the published time frames, provided applicants submit complete, technically adequate applications/registrations that address all applicable regulatory and statutory requirements, in the first submission. Since you did not submit a complete and/or technically adequate application, DEP's Permit Decision Guarantee is no longer applicable to your application.

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 need to explain and justify how your current submission satisfies that deficiency. Please keep in mind that if you fail to respond, your application may be withdrawn or denied.

Should you have any questions regarding the identified deficiencies, please call DEP at the phone number located in the first page footer, and refer to Application No. E15-862 to discuss your concerns or to schedule a meeting. The meeting must be scheduled within the 60-day 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,



John Hohenstein, P.E.  
Chief, Dams and Waterways Section  
Waterways and Wetlands

Enclosure

cc: Mr. Schaeffer — Tetra Tech, Inc.  
U.S. Army Corps of Engineers, Philadelphia District  
U.S. Army Corps of Engineers, Baltimore District  
Pennsylvania Fish and Boat Commission, Division of Environmental Services  
Pennsylvania DEP, Southwest Regional Office, Waterways and Wetlands Program  
Pennsylvania DEP, Southcentral Regional Office, Waterways and Wetlands Program  
Chester County Conservation District  
Chester County Planning Commission  
West Nantmeal Township  
East Nantmeal Township  
Wallace Township

Upper Uwchlan Township  
Uwchlan Township  
West Whiteland Township  
West Goshen Township  
East Goshen Township  
Westtown Township  
Elverson Borough  
Re 30 (GJS16WAW)246-1

# Memo

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To: Board of Supervisors  
From: Jon Altshul  
Re: August 2016 Financial Report & Year-End Projections  
Date: September 12, 2016

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Net of pass-through accounts, as of August 31<sup>st</sup> the general fund had revenues of \$7,333,573 and expenses of \$6,604,923 for a year-to-date surplus of \$728,651. Compared to the YTD budget, revenues were \$57,650 over budget and expenses were \$92,376 over budget for a negative budget variance of \$34,727. As of August 31<sup>st</sup>, the general fund balance was \$5,332,660.

On the expense side, Parks and Recreation was \$130,103 over-budget due to the timing of invoices paid to Gannett Fleming for the Milltown Dam study, tree work in the park and park fencing. Public Works was \$197,902 over budget, due to doing most of the resurfacing in August, which is earlier than usual. The remaining department departments were under-budget.

On the revenue side, Earned Income Tax is now \$151,066 under budget. Real Estate Property Tax is \$41,391 over budget due to a large interim payment. Real Estate Transfer Tax has corrected itself and is now only \$3,814 under budget reflecting sales through July. Local Services Tax continues to be strong with a positive budget variance of \$31,371.

## Other funds

- The **State Liquid Fuels Fund** had \$503,801 in revenues and \$0 expenses. The fund balance is \$504,001.
- The **Sinking Fund** had \$36,125 in revenues and \$712,782 in expenses. The fund balance is \$5,590,804.
- The **Transportation Fund** had \$11,747 in revenues and \$0 in expenses. The fund balance is \$1,072,960.
- The **Sewer Operating Fund** had \$2,363,251 in revenues and \$2,135,136 in expenses. The fund balance is \$857,152.
- The **Refuse Fund** had \$708,428 in revenues and \$664,801 in expenses. The fund balance is \$699,310.
- The **Sewer Sinking Fund** had \$1,895 in revenues and \$98,806 in expenses. The fund balance is \$2,006,414.
- The **Operating Reserve Fund** had \$2,110 in revenues and no expenses. The fund balance is \$2,484,645.
- The **Events Fund** had \$8 in revenues and no expenses. The fund balance is \$45,023.

### **Year-end Projections**

As of August 31<sup>st</sup>, I am projecting that the General Fund finishes the year with a deficit of \$106,085. Because \$323,184 was allocated from fund balance to balance this year's budget, this deficit reflects a positive budget variance of \$217,099. Since last month, I have made a handful of adjustments to the year-end projections, most notably decreasing the Earned Income Tax projection (I anticipate that figure being \$141,500 under budget), but offset by increases to the real estate transfer tax projection, the FEMA reimbursement for superstorm Jonas, and expense savings across a number of line items, including Public Work Roads Wages and Salaries and Resurfacing Materials and Supplies.

Year-end projections for other funds, including sinking, sewer operating and refuse, are unchanged.

**EAST GOSHEN TOWNSHIP**  
**AUGUST 2016 GENERAL FUND SUMMARY**  
August 31, 2016

Account Title	Annual Budget	Y-T-D Budget	Y-T-D Actual	Budget-Actual Variance	Year-End Projection	Budget-YE Proj Variance
<b>GENERAL FUND</b>						
EMERGENCY SERVICES EXPENSES	4,345,656	3,311,196	3,126,321	(184,875)	4,159,413	(186,243)
PUBLIC WORKS EXPENSES	2,634,879	1,428,539	1,697,425	268,886	2,674,547	39,668
ADMINISTRATION EXPENSES	1,646,376	987,328	954,742	(32,586)	1,624,579	(21,797)
ZONING/PERMITS/CODES EXPENSES	538,192	351,511	267,157	(84,354)	415,367	(122,825)
PARK AND RECREATION EXPENSES	531,450	332,168	457,476	125,308	734,257	202,807
<b>TOTAL CORE FUNCTION EXPENSES</b>	<b>9,696,553</b>	<b>6,410,742</b>	<b>6,503,120</b>	<b>92,378</b>	<b>9,608,163</b>	<b>(88,390)</b>
EMERGENCY SERVICES REVENUES	67,595	52,212	48,303	(3,909)	61,279	(6,316)
PUBLIC WORKS REVENUES	974,509	228,882	299,866	70,984	1,140,365	165,856
ADMINISTRATION REVENUES	325,020	166,988	166,124	(864)	322,494	(2,526)
ZONING/PERMITS/CODES REVENUES	242,150	169,577	243,925	74,348	287,228	45,078
PARK AND RECREATION REVENUES	152,878	91,215	86,420	(4,795)	137,249	(15,629)
<b>TOTAL CORE FUNCTION REVENUES</b>	<b>1,762,152</b>	<b>708,874</b>	<b>844,638</b>	<b>135,764</b>	<b>1,948,615</b>	<b>186,463</b>
<b>NET EMERGENCY SERVICES EXPENSES</b>	<b>4,278,061</b>	<b>3,258,984</b>	<b>3,078,018</b>	<b>(180,966)</b>	<b>4,098,134</b>	<b>(179,927)</b>
<b>NET PUBLIC WORKS EXPENSES</b>	<b>1,660,370</b>	<b>1,199,657</b>	<b>1,397,559</b>	<b>197,902</b>	<b>1,534,182</b>	<b>(126,188)</b>
<b>NET ADMINISTRATION EXPENSES</b>	<b>1,321,356</b>	<b>820,340</b>	<b>788,617</b>	<b>(31,723)</b>	<b>1,302,085</b>	<b>(19,271)</b>
<b>NET ZONING/PERMITS/CODES EXPENSES</b>	<b>296,042</b>	<b>181,934</b>	<b>23,232</b>	<b>(158,702)</b>	<b>128,139</b>	<b>(167,903)</b>
<b>NET PARK AND RECREATION EXPENSES</b>	<b>378,572</b>	<b>240,953</b>	<b>371,056</b>	<b>130,103</b>	<b>597,008</b>	<b>218,436</b>
<b>CORE FUNCTION NET SUBTOTAL</b>	<b>7,934,401</b>	<b>5,701,868</b>	<b>5,658,482</b>	<b>(43,386)</b>	<b>7,659,548</b>	<b>(274,853)</b>
DEBT - PRINCIPAL	498,001	0	0	0	498,001	0
DEBT - INTEREST	150,270	101,804	101,803	(1)	150,270	0
<b>TOTAL DEBT</b>	<b>648,271</b>	<b>101,804</b>	<b>101,803</b>	<b>(1)</b>	<b>648,271</b>	<b>0</b>
<b>TOTAL CORE FUNCTION NET</b>	<b>8,582,672</b>	<b>5,803,672</b>	<b>5,760,285</b>	<b>(43,387)</b>	<b>8,307,819</b>	<b>(274,853)</b>
<b>NON-CORE FUNCTION REVENUE</b>						
EARNED INCOME TAX	4,921,500	3,645,241	3,494,175	(151,066)	4,780,000	(141,500)
REAL ESTATE PROPERTY TAX	1,997,165	1,965,951	2,007,341	41,390	2,023,658	26,493
REAL ESTATE TRANSFER TAX	525,000	350,000	346,186	(3,814)	560,000	35,000
CABLE TV FRANCHISE TAX	467,747	350,810	352,531	1,721	469,000	1,253
LOCAL SERVICES TAX	320,000	240,872	272,243	31,371	340,000	20,000
OTHER INCOME	28,076	14,176	16,460	2,284	29,076	1,000
<b>TOTAL NON CORE FUNCTION REVENUE</b>	<b>8,259,488</b>	<b>6,567,050</b>	<b>6,488,935</b>	<b>(78,115)</b>	<b>8,201,734</b>	<b>(57,754)</b>
<b>NET RESULT</b>	<b>(323,184)</b>	<b>763,378</b>	<b>728,651</b>	<b>(34,727)</b>	<b>(106,085)</b>	<b>217,099</b>

SUMMARY OF FUNDS REPORT (AKA "JOE REPORT")

ALL FUNDS AUGUST 2016

\* NOTE: GENERAL FUND INCLUDES PASS-THROUGH ACCOUNTS

	GENERAL FUND*	LIQUID FUELS STATE FUND	SINKING FUND	TRANSPORT. FUND	SEWER OP. FUND	REFUSE FUND	SEWER SINK FUND	OPERATING RESERVE	EVENTS FUND	TOWNSHIP FUNDS	MUNICIPAL AUTHORITY
<b>01/01/16 BEGINNING BALANCE</b>	<b>\$4,803,331</b>	<b>\$200</b>	<b>6,267,461</b>	<b>1,061,213</b>	<b>629,037</b>	<b>655,683</b>	<b>\$2,103,325</b>	<b>\$2,482,535</b>	<b>\$45,015</b>	<b>\$18,045,508</b>	<b>\$1,461,276</b>
<b>RECEIPTS</b>											
310 TAXES	\$6,517,255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,517,255	\$0
320 LICENSES & PERMITS	\$68,922	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,922	\$0
330 FINES & FORFEITS	\$21,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,400	\$0
340 INTERESTS & RENTS	\$77,454	\$354	\$36,125	\$1,615	\$475	\$644	\$1,895	\$2,110	\$8	\$120,681	\$1,223
350 INTERGOVERNMENTAL	\$50	\$503,447	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503,497	\$0
360 CHARGES FOR SERVICES	\$383,767	\$0	\$0	\$0	\$2,362,775	\$707,783	\$0	\$0	\$0	\$3,454,326	\$48,428
380 MISCELLANEOUS REVENUES	\$733,889	\$0	\$0	\$10,133	\$0	\$0	\$0	\$0	\$0	\$744,022	\$564
390 OTHER FINANCING SOURCES	\$208,740	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$208,740	\$25,000
	<b>\$8,011,476</b>	<b>\$503,801</b>	<b>\$36,125</b>	<b>\$11,747</b>	<b>\$2,363,251</b>	<b>\$708,428</b>	<b>\$1,895</b>	<b>\$2,110</b>	<b>\$8</b>	<b>\$11,638,842</b>	<b>\$75,215</b>
<b>EXPENDITURES</b>											
400 GENERAL GOVERNMENT	\$812,186	\$0	\$20,044	\$0	\$0	\$0	\$98,806	\$0	\$0	\$931,036	\$0
410 PUBLIC SAFETY	\$4,122,177	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,122,177	\$0
420 HEALTH & WELFARE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
426 SANITATION & REFUSE	\$72,790	\$0	\$0	\$0	\$1,537,108	\$664,801	\$0	\$0	\$0	\$2,274,700	\$116,712
430 HIGHWAYS,ROADS & STREETS	\$1,493,446	\$0	\$145,238	\$0	\$0	\$0	\$0	\$0	\$0	\$1,638,684	\$0
450 CULTURE-RECREATION	\$412,327	\$0	\$477,107	\$0	\$0	\$0	\$0	\$0	\$0	\$889,433	\$0
460 CONSERVATION & DEVELOPMENT	\$1,484	\$0	\$70,393	\$0	\$0	\$0	\$0	\$0	\$0	\$71,877	\$0
470 DEBT SERVICE	\$123,047	\$0	\$0	\$0	\$573,027	\$0	\$0	\$0	\$0	\$696,075	\$0
480 MISCELLANEOUS EXPENDITURES	\$445,141	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$445,141	\$0
490 OTHER FINANCING USES	\$0	\$0	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$0
	<b>\$7,482,597</b>	<b>\$0</b>	<b>\$712,782</b>	<b>\$0</b>	<b>\$2,135,136</b>	<b>\$664,801</b>	<b>\$98,806</b>	<b>\$0</b>	<b>\$0</b>	<b>\$11,094,123</b>	<b>\$116,712</b>
<b>2016 SURPLUS/(DEFICIT)*</b>	<b>\$528,879</b>	<b>\$503,801</b>	<b>(\$676,657)</b>	<b>\$11,747</b>	<b>\$228,115</b>	<b>\$43,627</b>	<b>(\$96,911)</b>	<b>\$2,110</b>	<b>\$8</b>	<b>\$544,719</b>	<b>(\$41,497)</b>
<b>CLEARING ACCOUNT ADJUSTMENTS</b>	<b>\$450</b>										
<b>8/31/2016 ENDING BALANCE</b>	<b>\$5,332,660</b>	<b>\$504,001</b>	<b>\$5,590,804</b>	<b>\$1,072,960</b>	<b>\$857,152</b>	<b>\$699,310</b>	<b>\$2,006,414</b>	<b>\$2,484,645</b>	<b>\$45,023</b>	<b>\$18,592,968</b>	<b>\$1,419,779</b>

SUMMARY OF FUNDS REPORT (AKA "JOE REPORT")  
**ALL FUNDS YEAR END PROJECTION AUGUST 2016**  
 \* NOTE: GENERAL FUND INCLUDES PASS-THROUGH ACCOUNTS

	GENERAL FUND*	LIQUID FUELS STATE FUND	SINKING FUND	TRANSPORT. FUND	SEWER OP. FUND	REFUSE FUND	SEWER SINK FUND	OPERATING RESERVE	EVENTS FUND	TOWNSHIP FUNDS	MUNICIPAL AUTHORITY
<b>01/01/16 BEGINNING BALANCE</b>	<b>\$4,803,331</b>	<b>\$200</b>	<b>6,267,461</b>	<b>1,061,213</b>	<b>629,037</b>	<b>655,683</b>	<b>\$2,103,325</b>	<b>\$2,482,535</b>	<b>\$45,015</b>	<b>\$18,045,508</b>	<b>\$1,461,276</b>
<b>RECEIPTS</b>											
310 TAXES	\$8,172,658	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,172,658	\$0
320 LICENSES & PERMITS	\$60,755	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60,755	\$0
330 FINES & FORFEITS	\$34,376	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,376	\$0
340 INTERESTS & RENTS	\$126,392	\$390	\$41,650	\$1,400	\$600	\$821	\$2,500	\$6,500	\$10	\$180,263	\$1,079
350 INTERGOVERNMENTAL	\$147,932	\$503,447	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$1,051,379	\$0
360 CHARGES FOR SERVICES	\$502,963	\$0	\$0	\$0	\$3,256,964	\$989,613	\$0	\$0	\$0	\$4,749,540	\$46,146
380 MISCELLANEOUS REVENUES	\$144,831	\$0	\$0	\$9,736	\$0	\$0	\$0	\$0	\$0	\$154,567	\$423
390 OTHER FINANCING SOURCES	\$960,442	\$0	\$369,006	\$0	\$28,092	\$0	\$205,750	\$0	\$15,000	\$1,578,290	\$75,000
	\$10,150,349	\$503,837	\$810,656	\$11,136	\$3,285,656	\$990,435	\$208,250	\$6,500	\$15,010	\$15,981,828	\$122,648
<b>EXPENDITURES</b>											
400 GENERAL GOVERNMENT	\$1,245,486	\$0	\$277,560	\$0	\$0	\$0	\$0	\$0	\$0	\$1,523,046	\$0
410 PUBLIC SAFETY	\$4,511,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,511,500	\$0
420 HEALTH & WELFARE	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000	\$0
426 SANITATION & REFUSE	\$112,000	\$0	\$0	\$0	\$2,423,382	\$1,064,173	\$186,103	\$0	\$0	\$3,785,658	\$179,136
430 HIGHWAYS,ROADS & STREETS	\$2,366,850	\$503,837	\$257,945	\$346,500	\$0	\$0	\$0	\$0	\$0	\$3,475,132	\$0
450 CULTURE-RECREATION	\$679,748	\$0	\$628,674	\$0	\$0	\$0	\$0	\$0	\$0	\$1,308,422	\$0
460 CONSERVATION & DEVELOPMENT	\$5,730	\$0	\$67,892	\$0	\$0	\$0	\$0	\$0	\$0	\$73,622	\$0
470 DEBT SERVICE	\$671,013	\$0	\$0	\$0	\$881,744	\$0	\$0	\$0	\$0	\$1,552,757	\$28,092
480 MISCELLANEOUS EXPENDITURES	\$643,107	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$643,107	\$0
490 OTHER FINANCING USES	\$15,000	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$90,000	\$0
	\$10,256,434	\$503,837	\$1,232,071	\$346,500	\$3,380,126	\$1,064,173	\$186,103	\$0	\$0	\$16,969,244	\$207,228
<b>2016 SURPLUS/(DEFICIT)*</b>	<b>(\$106,085)</b>	<b>\$0</b>	<b>(\$421,415)</b>	<b>(\$335,364)</b>	<b>(\$94,471)</b>	<b>(\$73,739)</b>	<b>\$22,147</b>	<b>\$6,500</b>	<b>\$15,010</b>	<b>(\$987,416)</b>	<b>(\$84,580)</b>
<b>PROJECTED 12/31/2016 ENDING BAI</b>	<b><u>\$4,697,246</u></b>	<b><u>\$200</u></b>	<b><u>\$5,846,046</u></b>	<b><u>\$725,849</u></b>	<b><u>\$534,567</u></b>	<b><u>\$581,945</u></b>	<b><u>\$2,125,472</u></b>	<b><u>\$2,489,035</u></b>	<b><u>\$60,025</u></b>	<b><u>\$17,060,383</u></b>	<b><u>\$1,376,696</u></b>

# **Memo**

## **East Goshen Township**

Date: September 16, 2016  
To: Municipal Authority  
From: Rick Smith, Township Manager  
Re: East Boot Road Bridge Grant

The PennDOT requires that we submit a resolution confirming that I am authorized to execute the agreement for the Reimbursement Agreement for the East Boot Road Bridge.

Suggested Motion: I move that we adopt Resolution 2016-157 authorizing the Township Manager to execute the Reimbursement Agreement for East Boot Road Bridge Project.

RESOLUTION

2016-157

BE IT RESOLVED, by authority of the BOARD OF SUPERVISORS  
(Name of governing body)  
of the EAST GOSHEN TOWNSHIP, CHESTER County, and it  
(Name of Municipality)

is hereby resolved by authority of the same, that the TOWNSHIP MANAGER of  
(designate official title)

said Municipality be authorized and directed to sign the attached Agreement on its behalf.

ATTEST:

EAST GOSHEN TOWNSHIP  
(Name of Municipality)

\_\_\_\_\_  
(Signature and designation of official title)

By: \_\_\_\_\_  
(Signature and designation of official title)

I, LOUIS F SMITH JR, TOWNSHIP MANAGER  
(Name) (Official title)

of the BOARD OF SUPERVISORS EAST GOSHEN TWP, do hereby certify that the foregoing  
(Name of governing body and Municipality)

is a true and correct copy of the Resolution adopted at a regular meeting of the

BOARD OF SUPERVISORS, held the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
(Name of governing body)

DATE: \_\_\_\_\_

\_\_\_\_\_  
(Signature and designation of official title)

NOTE: Signature on the Department signature page of this Agreement must conform to the signature on this Resolution.

EAST BOOT ROAD BRIDGE REIMBURSEMENT AGREEMENT

**FYI**

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To: Board of Supervisors  
From: Jason Lang  
Re: 2016 Community Day Review  
Date: September 8, 2016

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Board of Supervisors-

Community Day was held on Saturday, August 27<sup>th</sup> under clear blue skies for an estimated 3000 participants. The event included family activities, a food truck zone and culminated in a much lauded fireworks display. An online survey was completed by 72 participants, with the following takeaways (full survey comments attached):

- 85.92% rated it Excellent or Very Good; No one rated it "Not Good"
- 36% heard of the event through Facebook; 29% newsletter; 24% website
- Inflatables (35%) were most popular activity; followed by Food Truck Zone (25%) and NQODJ (15%)
- Least popular was the Silent Disco Zone (55%) and Carnival Games (17%)
- 87% prefer an August date for 2017

Friends of East Goshen raised \$37,250 from 52 donors.

Expenses		Revenues	
Name	Amount	Name	Amount
Inflatables/Carnival Games	\$3811	Food Truck Fees	\$675
Petting Zoo/Face Painting/Pony Rides	\$1200	Sale of novelty items	\$805
Silent Disco Zone	\$450	Zeks Donation to TWP	\$300
Signs	\$537	Friends of East Goshen	Up to \$37,250
PDM (Event Sound)	\$1210		
Fireworks	\$9000		
Novelty items (Glow sticks and wands)	\$398		
Public Works Support	\$3036		
WEGO Police Support	\$3000		
Running Total	\$22,642	Total Revenue	Up to \$39,100

A final report will follow with all event expenses. Additional expenses would include the portable bathrooms, the handwashing station and the light towers.

*Computer/H:/East Goshen Township/Budget*

Points of Interest for 2017:

- The current activity profile (number of inflatables, variety etc.) is suitable for an event of 3000 participants. If the event was to grow much larger, additional activities and/or quantity would be needed to handle the demand. This was most evident in the inflatables area, where lines were 20-30 deep consistently throughout the event. It could be that event participant demographics are shifting heavily to younger families, but the lines bordered on excessive. It's important to note that our inflatables vendor, One Stop Party Shop, upgraded one inflatable to a larger/high capacity model.
- If the Township is interested in increasing event attendance, it could come by way of paid advertising. The current event budget does not account for paid advertising, instead relying on the newsletter, email blasts, Facebook and word of mouth. Advertising in the Daily Local would be approximately \$500, and/or we could pay for a Facebook social media campaign for \$100.
- Another attendance draw would be a paid gig band like the Grease Band. The cost could be upwards of \$2500 and necessitate reducing other expenses, but they generally draw 1000 participants through a dedicated following, in the 30+ attending w/o kids demographic Community Day is short on.
- Silent Disco was a success, but in 2017 we can adjust to reflect real-time usage, averaging 20-25 dancers; a cost savings of \$250.
- The fireworks display was shorter but more intense than last year. While survey data shows that the audience thought it was a great performance, some did note the shorter timed show. The vendor quotes based on shell count and type, and so if we request a longer show, it would simply be of less intense bursts.
- The Food Truck Zone is becoming a draw in itself. To generate additional buzz, in 2017 we will have a "food truck sandwich competition". Each competitor will bring one item before a guest panel made of Township officials, local celebrity guests and others to vie for the title of "Best Sandwich".
- One additional tween/teen activity should be added. In the past this was laser tag, but that fell out of favor after three consecutive events. In 2017, it could be "nerf battles", which is logistically similar to laser tag and appeals to the same demographic.

Survey Open Ended Comment Sections (unedited):

Q1) What did you like about Community Day?

- So nice that you offer it free of charge m, the fireworks were amazingly!!!
- I did not attend the park events
- I love coming together with friends, family, and neighbors to celebrate the end of summer.
- Good event overall.
- Fireworks, well organized
- The kids loved the inflatable obstacle course and there were ample places to put some chairs and a blanket for viewing the fireworks - which were great!
- The fireworks and seeing so many numbers coming out to enjoy the evening.
- kid actives
- It's just a well conceived and well done event. Everyone having fun, everything orderly. Worthy of East Goshen.
- Watching all of the fun and meeting new people
- travel control in and out of the park very efficient
- Lots to see and do.
- Dancing event
- Fireworks presentation was especially good this year
- Fireworks
- Music, moon bounces, food, and mostly FIREWORKS!!!
- Fireworks!
- the kids activities
- Lots for the grandkids to do and fireworks were spectacular
- Great Family event.
- Great activities for kids of all ages
- everything & the fireworks are awesome
- fireworks, food trucks
- Fireworks
- Make my kid smiling. ...
- Variety of activities for children
- running into friends
- Fireworks, food trucks
- The energy and warmth of the community is fantastic.
- Live Music was great
- Perfect set-up with food trucks, kid activities, open space in the outfield
- Fun and community centered. Saw many friends and neighbors
- The chance to get together with friends and neighbors in a social setting. The food trucks were great, but a few more would not have been out of place
- The Community coming together and the Fireworks!

*Computer/H:/East Goshen Township/Budget*

- All of the booths which were all so different.
- Fireworks
- Bouncy things and games for the children - Free! All the food vendors, music.
- I loved all the space for the kids to run around. I loved the variety of activities.
- I love the opportunity to get together as a community. The things for kids are great! And the fireworks were great!
- That it's a free event for the community. Great food trucks, lots to do for the kids and see lots of friends.
- It was wonderful having all of the kids activities, the bounce houses and bounce houses. We were thrilled with the fireworks.
- Fireworks, food trucks, helicopter
- The food and the fireworks
- All. It was Fun for my kids & i enjoyed it as well
- The whole thing was great, but the fireworks are the best part.
- The kids activities, food and fireworks.
- So many great activities! The parking worked well also.
- Always fun and festive.
- So many things to do. Any ages could be entertained. Lots of stuff to keep the kids happy.
- Fireworks
- Fireworks

Q2) What type of activity is the event missing?

- None
- Pop up beer garden might be a nice addition
- As the kids start to outgrow the inflatables and the games, there is not a great deal for them to do. Age 9+. The games are for younger children.
- adult activity
- Sack races/Relay races. Rock climbing wall. Talent show. Dance performances.
- beer tent
- more competitive carnival games for a little older kids
- There were not enough food trucks, or some were not prepared for the volume they got.
- Chick Fil La foods.
- Nothing missing - just long lines everywhere!
- More inflatables. Less lines = more fun!
- pizza and more soda choices
- some contests would be fun like the pie eating - maybe tug of war or something like that. Could have teams pre-register for events
- More activities for the kids -- the lines at the inflatables get very long
- More music; more bands
- Photo booth

*Computer/H:/East Goshen Township/Budget*

- Beer tent
- There are lots of activities for younger kids, but aside from the silent disco I didn't really see anything dedicated to the 10 to 18-year-old range
- Did not see petting zoo or pony rides
- Photo Booths
- Everything is amazing
- Maybe bring in some more craft type booths or older kid stuff
- organized races, contests.
- Nothing. It had everything we wanted.
- craft fair, benefit walk around the park.
- Performances from local groups
- Some kind of sack race or family oriented games of the such.
- Demonstrations and crafts from local businesses
- Nothing, we appreciate everything you do.
- I can't think of anything
- better "carnival" games and maybe rides

Q3) Any other feedback is appreciated!

- The fireworks were much less impactful this year.
- The tractor ride was a fun activity for the kids, but it was a bit hectic at times. I think if we had waiting cones that lined up with each barrel where the kids could wait their turn behind, that would help. It was a mishmash at times with kids running towards their barrel and parents trying to calm kids who waited their turn, but had it taken by another kid. That other kid ran from the far right or left and had been waiting equally as long but wanted the front or back barrel. Also perhaps one dedicated volunteer to help organize and queue the kids would help. Or maybe an older Boy Scout.
- Add 1-2 more food trucks. Add some activities for older kids on fields.
- Au Sam's Food truck could not handle the crowd's demand for food--waits of 20-30 minutes; lots of irate customers. They need a better system. Otherwise a great day--good fireworks, good music & well-organized
- Thank you to everyone who worked so hard to make this night so special. It is wonderful to be part of this community.
- parking was good, better than easter
- For as cool as they are, those helicopter guys had NO apparent interest in the crowd that watched them. Sort of weird. They need some Top Gun music and a little excitement in their presentation; otherwise, skip it.
- Thank you. Well done.
- Perhaps start it a little earlier in the day---maybe 3pm.
- I wish the police officer I greeted greeted me back and not just to the families.

- Survey needs to be improved: 2. How did you hear about Community Day? [add a line about the EGT electronic newsletter (email) - the one from which this survey is linked 3. How far did you drive to come to Community Day? This question - "Less than five miles - I'm an East Goshen resident" should just be ""Less than five miles". So that's us - we live exactly one mile from the park, but in Willistown 8. Which hot food truck was your favorite? [Should include "None / did not partake" or something (we did not buy any food).
- Food trucks great, but either not enough or too many for one truck.
- The band was so good, but at some point the microphone got really quiet and when you were making your announcements we couldn't hear well over all the people chatting happily. Great job!
- The fireworks were in my opinion less the they had been a few years ago.
- The parking attendants were awful - we watched as we were parked in on all sides, and when we asked to move our car so we could get out later, we were told we would just have to stay until the fireworks were over and the cars around us moved. Not sure we will be returning next year for this reason.
- The sound of generators at the food trucks made it hard to hear when the order was ready. Have the food trucks place there generators behind the trucks, not on the sides where they are louder to the customers. Also, have two vendors that serve hot dogs/hamburgers. The line at Au-Sams was way to long, they seemed to be overloaded. The fire police did a great job parking everyone and all the light units were beneficial as well. P.S. Question #9 should say 2017
- All of you worked very hard, Thanks you everyone,
- Trolley shop had kid friendly food- but couldn't keep up with the demand. I hope you get another food truck with kid friendly food as well.
- Have some sort of competitions during the event leading up to fireworks. I.e. Pie eating contest... Things like that. Keep people involved and up and moving around more. The petting zoo was looking pretty bad this year.
- pizza and more soda choices lines too long at moon bounces and food trucks
- We arrived late to the community day, we were advised the moon bounces would be shutting down at 8PM. We walked up to one at 7:55 and the worker advised nobody else was allowed in because he had to shut it down. Very disappointing that he took it upon himself to enforce a different closing time. I would look to a new company to run that segment of the community day. He wasn't interested in my children's enjoyment of the day, only getting to leave ASAP.
- Could have had more sponsor booth for free give aways. Have been to Middletown township in June, far more nicer.
- Because we watch the fireworks from our house, we did not visit the park. Did enjoy seeing the copter.
- Great job. We appreciate the work that goes into this.
- More Lighting needed as it gets dark
- Maybe some tables to eat at and/or some benches for the people who can't stand that long waiting for others to order their food.

- Such a great time and very well organized. I hear that the fireworks are amazing and look forward to next year, my kids will be a little older next year so we will be able to stay. We have gone the last 3 years and its such a great event. Thank you for keeping the bouncies free!
- I am so happy that the community is doing these events to bond together.
- It was amazing and we appreciate the amount of thought and planning that went into the event. We plan to come every year.
- I don't like the food trucks at all. I wish you would bring back the hamburgers, sausage and hot dogs please.
- Add another hamburger/hot dog vendor. The yogurt truck was wonderful. Have students from one of the dance studios preform.
- I much prefer community day at the end of August. It's a great finish to summer, and the fireworks can start earlier.
- Big lights should be used or kept on to keep the bouncies and kids stuff open longer. Most will come after dinner. Or have more dinner food available so kids can go on bounce houses etc. 2. Loud music or patriotic music with fireworks. Especially if you have it June. All the local community days have music. ??
- We as a family have always enjoyed township events. As my kids have grown, the events have morphed into something more than just immediate family. Unfortunately, the past 2 years my kids and their friends have not been able to enjoy the fireworks/community day because it is held so late in August that they have already returned to college. If possible, please move the date so that college age kids can enjoy the fireworks, too. Thank you.
- Thanks to all who helped put this event on. We live on Highland Ave next to the park. The No Parking signs were much appreciated and the park was in terrific shape when I walked the dog at 7:30 AM. The department of public works did a fantasting job. They deserve a raise.
- We had so much fun. Everyone was so nice and friendly.

# Memo

## East Goshen Township

Date: September 15, 2016  
To: Board of Supervisors  
From: Rick Smith, Township Manager  
Re: Paoli Pike Trail - Goshen Friends

We have finalized the trail easement with the Goshen Friends. The only remaining issue is the compensation for the easement. The appraisal puts the value of the easement at \$850. The Friends do not want the money. However, they want us to remove the three trees that are located between the Meeting House and Paoli Pike. We have a quote of \$4,500 to remove the trees.

I discussed this matter with the Township Solicitor and while the Township has the power of Eminent Domain we would likely incur costs in excess of the \$4,500 it will cost to remove the trees.

Accordingly, we would recommend that the Township agree to remove the trees as compensation for the easement.

**Suggested Motion:** I move that we authorize the Chairman to execute the trail easement with the Goshen Friends.

# Memorandum

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**East Goshen Township**  
**1580 Paoli Pike**  
**West Chester, PA 19380**

Voice: 610-692-7171  
Fax: 610-692-8950  
E-mail: [mgordon@eastgoshen.org](mailto:mgordon@eastgoshen.org)

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Date: 9/14/2016  
To: Board of Supervisors  
From: Mark Gordon, Township Zoning Officer *mlb*  
Re: Paoli Pike Trail / Segment D & E Engineering Proposal

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Dear Board Members,

The Township has received the requested engineering proposal for Segment D & E of the Paoli Pike Trail from McMahan Associates Inc. As you know the Township was awarded a Federal CMAQ grant of \$1,736,000 managed by DVRPC) which must be used for the construction of Segment D & E of the Paoli Pike Trail. These funds must be obligated by June 30, 2019.

In order for the DVRPC to release our awarded grant funding, we must have all engineering, permitting and easements secure prior to June 30, 2019.

Segment D & E originally included the intersection of Paoli Pike and North Chester Road. After consultation with representatives from Penn DOT and DRVPC we have decided to move the improvements at Paoli Pike and North Chester Road to Segments F & G.

Since the Goshen Friends Meeting is located in an historic district, the cost of designing and permitting the improvements at the intersection would have increased dramatically if we kept them in Segment D & E and used CMAQ (i.e. Federal) funding.

As a result the cost for Segment D & E is less than what is estimated in the Paoli Pike Trail Plan.

The Staff recommendation is to move forward with the engineering work on Segments D & E as outlined in the enclosed proposal.

**Motion:** I move that we accept the September 14, 2016 Proposal from McMahan Associates in the amount of \$316,800 for the Paoli Pike Trail Segments D & E.



McMAHON ASSOCIATES, INC.  
840 Springdale Drive  
Exton, PA 19341  
p 610-594-9995 | f 610-594-9565

September 14, 2016

Mr. Louis (Rick) Smith  
Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

PRINCIPALS  
Joseph W. McMahon, P.E.  
Joseph J. DeSantis, P.E., PTOE  
John S. DePalma  
William T. Steffens  
Casey A. Moore, P.E.  
Gary R. McNaughton, P.E., PTOE  
ASSOCIATES  
John J. Mitchell, P.E.  
Christopher J. Williams, P.E.  
R. Trent Ebersole, P.E.  
Matthew M. Kozsuch, P.E.  
Maureen Chlebek, P.E., PTOE  
Dean A. Carr, P.E.

RE: **Proposal for Engineering Services – Supplement 1**  
Paoli Pike Trail – Segment D & E from Boot Road (SR 2020) to North Chester Road (SR 0352)  
East Goshen Township, Chester County, PA  
McMahon Project No. 815632.21

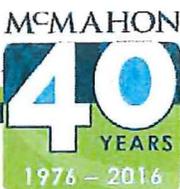
Dear Mr. Smith:

McMahon Associates, Inc. is pleased to submit this supplemental proposal associated with the engineering services for Segment D and E of the Paoli Trail. As you are aware, the Township received CMAQ funding for these segments. As confirmed in Ryan Gallagher's email dated August 29, 2016, the Township was granted an extension of the TAP award for Segment C until June 30, 2019 for a final and complete PS&E submission including all clearances, plan approvals and permits for both the TAP and CMAQ projects.

This supplemental proposal is for the completion of the engineering associated with Segments D and E as well as the additional work required to complete the Safety Review approval, environmental clearance, right-of-way clearance, utility clearance and preparation of the Plans, Specification and Estimate (PS&E) in accordance with the Delaware Valley Regional Planning Commission's (DVRPC) *Project Development Process Products/Deliverables (PDPPD) for federally funded projects*, which is based on *PennDOT's Transportation Program Development and Project Delivery Process, Design Manual 1, September 2010*. All engineering work will be coordinated with the assigned Project Implementation Coordinator at the DVRPC. The scope of services for this supplement will be in accordance with the **attached detailed Supplemental Scope of Services**

#### Fee

We anticipate that the total fee for Supplement 1 is \$316,858.00. A labor/cost breakdown for the associated fee is attached. The fee is exclusive of out-of-pocket expenses, including mileage, plan reproduction, plotting and graphics in accordance with our Standard Provisions for Professional Services. Additional meetings and engineering services not listed in the attached scope of services as requested by the Township, PennDOT or DVRPC will be billed on a time-and-materials basis or under a separate addendum proposal in accordance with the attached Standard Provisions for Professional Services.



*Schedule*

McMahon is prepared to immediately begin working on the project upon your written authorization to proceed by returning this agreement with an authorized signature. We will work diligently and closely with you and the involved agencies to the best of our ability to attempt to meet the required June 30, 2019 deadline in order to receive the TAP and CMAQ grant funding obligation for the construction. However, we cannot control the outcome and review times of the review agencies required by the process, cooperation of any affected utility companies and the acquisition of right-of-way which can have an influence on the project schedule.

*Conditions*

This agreement and exhibits hereto sets forth the entire understanding between the parties with respect to the subject matter hereof, supersedes any and all prior understandings whether written or oral with respect to the subject matter hereof and may not be altered, modified, changed, amended, or waived in any manner, except in a writing signed by all of the parties hereto. The conditions of this agreement call for the execution of this contract with the understanding that **invoices for services will be submitted monthly and are payable within 30 days of issuance**. All projects with overdue invoices exceeding 90 days will be subject to a stoppage of all work. Any changes in the specific work program described above will result in an adjustment of the conditions and fees. If the terms of this contract, as contained herein, and in the attached Standard Provisions for Professional Services are agreeable to you, please execute the agreement below in the space provided and return one signed copy to our office.

If you should have any questions, or require further information, please feel free to contact me at 610-594-9995, ext. 5129.

Sincerely,



Stephen C. Giampaolo, P.E.  
Senior Project Manager

SCG/JJK/ab  
Attachment

cc: Jamie Kouch, P.E., McMahon Associates, Inc.  
Natasha Manbeck, P.E., AICP, McMahon Associates, Inc.

*Accepted for East Goshen Township:*

**I have reviewed all terms of this contract, and I am authorized to sign in the space below for execution of this contract.**

By: \_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Printed Name of Authorized Representative)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Please provide your Accounts Payable contact information:

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

In the space below, please provide any details, including the date invoices are due each month for prompt payment:



*Paoli Pike Trail  
Segment D & E – Boot Road to SR 0352  
East Goshen Township, Chester County  
McM No. 815632*

## SUPPLEMENTAL SCOPE OF SERVICES

McMahon will complete the engineering associated with Segments D and E in accordance with the original Scope of Services, dated May 25, 2016, approved by the Township on June 10, 2016 and as follows:

### Preliminary Engineering Phase

#### *Task 1 – Topographic Survey*

The topographic survey previously completed will be utilized for the design of this segment. Additional topographic survey will be necessary for surveying the wetland delineation near Goshen Village Road and for setting right-of-way reference circles along Paoli Pike.

#### *Task 2 – Environmental Clearance/NEPA Process*

McMahon and our sub-consultant, Lotus Environmental Consulting, LLC (Lotus) will complete the environmental clearance process that is required by the National Environmental Policy Act (NEPA) for federally and state funded projects. The scope of services for this process is as follows:

### Engineering and Environmental Scoping

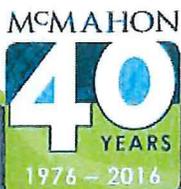
This task will be completed by McMahon with assistance and support by Lotus in accordance with the original Scope of Services.

### Cultural Resources

#### **Above Ground Historic Resources**

The above-ground historic resource work conducted under this contract will follow PennDOT Publication #689, The Transportation Project Development Process: Cultural Resources Handbook effective April 1, 2013 and Guidelines for Historic Resources Surveys in Pennsylvania, by the Bureau for Historic Preservation, Pennsylvania Historical and Museum Commission (BHP, PHMC). This work will comply with pertinent state and federal legislation, including Section 106 of the National Historic Preservation Act of 1966, as amended in 1980 and 1992; the National Environmental Policy Act of 1969; Code of Federal Regulations: Advisory Council on Historic Preservation (36 CFR 800), as amended; Commonwealth of Pennsylvania Act Nos. 1970-120 and 1978-273; and Executive Order 11593.

Preliminary research on CRGIS indicates that there is one historic property listed in the National Register of Historic Places (NRHP) in the study area. The Goshenville Historic District (Key No. 096656), which was listed in the NRHP in November 2000, is a linear village extending along N. Chester Road (SR 0352) at its intersection with Paoli Pike (SR 2014). A field view noted two resources 50 years or older located on the south side of Paoli Pike: one is located near Boot Road, across Paoli Pike from the portion of the proposed trail running along the north side of the road (Segment C); and the second is located beside the Wawa near N. Chester Road, where the proposed trail runs along the south side of the road (Segments D & E).



Neither of these resources appear to be eligible for listing in the NRHP; however, if right-of-way will be acquired from the property within Segments D & E, it may be necessary to document the resource on an abbreviated Historic Resource Survey (HRS) form.

Lotus will coordinate with the PennDOT District Cultural Resource Professional (CRP) architectural historian to delineate the Area of Potential Effects (APE) for the project. Based on the nature of the project and presence of modern development in the project area, it is anticipated that the potential for visual effects would be minimal, and therefore, the APE would be limited to the proposed trail section. Lotus will invite the District Architectural Historian (AH) to view the project area for the purposes of delineating the APE and determining appropriate levels of documentation

Lotus will prepare an abbreviated HRS form to document the property on tax parcel 53-4-79 (next to the Wawa). The draft HRS form will be submitted electronically to the District AH for review and comment. Lotus will address comments and prepare a revised HRS form for posting on Project PATH and submission to the PA SHPO.

Because the proposed trail extends into the western edge of the Goshenville Historic District, Lotus anticipates that assessment of the effect of the proposed project on the historic property will be required. Lotus assumes that abbreviated Determination of Effect documentation can be prepared to evaluate the effect of the project on the Goshenville Historic District.

Part of this effort also will include identification of and engagement with consulting parties who have an interest in the historic property. One meeting with the consulting parties is assumed. Lotus will prepare draft effect documentation, which will include a description of the proposed project, discussion of the above ground historic resource efforts and consulting party coordination, and an assessment of the project effects on the Goshenville Historic District, as well as maps, photographs and copies of previous

### Archaeology

This task will be completed by Lotus in accordance with the original Scope of Services.

### Wetlands Study

Lotus will identify and delineate the boundaries of all "waters of the US", including streams and wetlands. Lotus anticipates delineating wetlands in the two stormwater management basins and the drainage swale along Paoli Pike. The unnamed tributary to Ridley Creek will also require delineation of the jurisdictional ordinary high water mark, as well as any wetlands abutting or adjacent to this stream, as part of the field investigation for the project. A large palustrine emergent wetland is noted on the U.S. Fish and Wildlife National Wetlands Inventory mapping, just outside of the project study area for the trail, to the north of Paoli Pike.

Lotus will examine secondary sources such as the Chester County Soil Survey to identify known hydric soils, National Wetland Inventory Maps (US Fish and Wildlife Service) to locate anticipated wetland areas and the USGS 7 1/2 min. Quadrangle Sheets (U.S. Geological Survey) to define the drainage and topography of the site. These sources provide the background information and a starting point for in-field investigations.

Lotus will delineate the wetlands using the methodology presented in the U.S. Army Corps of Engineers (ACOE) Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern



Mountains and Piedmont Region (2012). Lotus will classify identified/delineated wetlands utilizing Cowardin, et al. (1979), Classification of Wetlands and Deepwater Habitats of the U.S.

The wetland boundaries and the ordinary high water mark of identified streams will be marked with surveyor's flagging. McMahon will survey the wetland and waters flagging.

Upon receipt of the surveyed mapping, Lotus will coordinate with McMahon to ensure the survey points depict the wetland/waters boundaries and Lotus will generate the mapping to meet the requirements for use in the wetland report.

Lotus will prepare the Wetland Identification and Delineation Report (WIDR). The report will include the methodology, wetland and stream descriptions, photographs and data forms. Lotus will conduct the wetland functional assessment using the Corps Descriptive Method (CDM). The results of the functional assessment will be summarized in the individual wetland descriptions in the wetland report. Reports will be submitted to the Township and District electronically. This task assumes one round of report revisions based on district comments.

Upon final approval of the WIDR, Lotus will request and conduct a field view with the Corps of Engineers and the PADEP. Lotus will prepare the Preliminary Jurisdictional Determination Form and organize a Preliminary JD field view to verify the wetland jurisdictional boundaries with the U.S. Army Corps of Engineers and the PADEP. Upon confirming the jurisdictional boundaries of waters in the study area, Lotus will coordinate with the ACOE and PADEP to evaluate the permitting requirements for the proposed project, which may include the option to utilize a PADEP Chapter 105 Waiver 6 for impacts to SWM facilities.

Impacts to the waters and wetlands will be identified and included in the CEE. No mitigation will be included as part of this task.

#### **Threatened and Endangered Species**

This task will be completed by Lotus in accordance with the original Scope of Services.

#### **Hazardous and Residual Wastes**

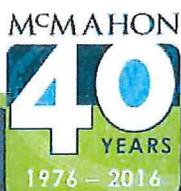
This task will be completed by Lotus in accordance with the original Scope of Services.

#### **Level 1B CEE (BRPA)**

This task will be completed by Lotus in accordance with the original Scope of Services.

#### **Section 4(F) Evaluation**

It is assumed the project may result in de minimis impacts to the National Register listed Goshenville Historic District. It is assumed that the project area does not include other types of Section 4(f) resources such as a public park or recreation area, or a wildlife or water fowl refuge. In addition, Lotus assumes that the two resources 50 years or older located on the south



side of Paoli Pike noted previously would not be eligible for listing on the National Register, and would therefore not require Section 4(f) evaluation as historic properties.

Lotus will prepare the appropriate Section 4(f) programmatic form to document the use of the Goshenville Historic District, a historic property, as necessary. It is anticipated that such use would be considered De Minimis/No Adverse Use. Lotus will provide an electronic copy of the draft Section 4(f) form and accompanying attachments (maps, photographs, coordination with SHPO) to the District for their review. Following receipt of comments, Lotus will address the comments and submit an electronic copy (and hard copies as requested) to the District for their coordination with Central Office and FHWA. The results of the Section 4(f) coordination and a copy of the approved form (as appropriate) will be included with the CEE.

### *Task 3 – Preliminary Engineering Activities*

The McMahon Team will complete the preliminary engineering activities for Segments D & E of the proposed multi-use trail in accordance with the original Scope of Services and as follows:

#### Task 3A – Preliminary Line and Grade

The line and grade for Segments D & E will be completed in accordance with the original Scope of Services.

#### Task 3B – Safety Review Submission

The Safety Review Submission for Segments D & E will be completed in accordance with the original Scope of Services. The Safety Review Plan set will require additional plan sheets to include Segments D & E. In addition, the Safety Study will include additional information as a result of the project expanding from Boot Road to SR 0352.

#### Task 3C – Preliminary ADA Curb Ramp Design

The specific work will be completed in accordance with the original Scope of Services. An additional nineteen (19) curb ramps along the multi-use trail/driveway crossings and crossings at the SE corner of the intersection of Paoli Pike and Boot Road and the SW corner of the intersection of Paoli Pike and SR 0352.

#### Task 3D – Preliminary Post Construction Storm water Management (PCSM) Best Management Practices Best Management Practices (BMP) Plan

The preliminary PCSM design and plan for Segments D & E will be completed in accordance with the original Scope of Services.

#### Task 3E – Utility Coordination

In accordance with PennDOT Design Manual Part 5 – Utility Relocation, Chapter 6, Subsurface Utility Exploration (SUE), SUE work will be completed for Segments D & E because of the presence of several underground facilities adjacent to the where the proposed curb and multi-use trail will be installed. McMahon will utilize our sub-consultant, Master Locators for complete the SUE work (18 test pits). The data obtain from the SUE work will be used to design the proposed curb-line and drainage facilities.



Task 3F – Meetings and Public Participation

As a result of the project schedule being extended an additional year, the McMahon Team will attend three (3) additional progress meetings with the Township and PennDOT District 6-0 as necessary to discuss the status of the project.

Final Design Phase

*Task 1 – Roadway Drainage Design*

McMahon will design additional roadway drainage facilities (infiltration trenches and amended soil grass buffers) and modifications to the existing drainage facilities along Paoli Pike to accommodate the storm water runoff from the proposed multi-use trail for Segments D & E. The drainage design will be in accordance with the original Scope of Services. At this time, we do not anticipate any impacts to wetlands or the need to upgrade existing storm water outfalls. Therefore, a Chapter 105 General Permit for Segments D & E will not be necessary.

*Task 2 – Erosion and Sediment Pollution Control (E&SPC) Plan and NPDES Permit*

The specific work will be completed in accordance with the original Scope of Services.

*Task 3 – Pavement Design*

The specific work will be completed in accordance with the original Scope of Services.

*Task 4 – Final ADA Curb Ramp Design Compliance Review*

The specific work will be completed in accordance with the original Scope of Services. An additional nineteen (19) curb ramps along the multi-use trail/driveway crossings and crossings at the SE corner of the intersection of Paoli Pike and Boot Road and the SW corner of the intersection of Paoli Pike and SR 0352.

*Task 5 – Trail Boardwalk Design*

This task is not applicable for Segments D & E.

*Task 6 – Traffic Control Plan and Pavement Marking and Signing Plan*

The specific work will be completed in accordance with the original Scope of Services.



*Task 7 – Traffic Signal Plans*

The specific work will be completed in accordance with the original Scope of Services. Plans will be required for an additional two (2) signalized intersections at Paoli Pike and Goshen Village Road and at SR 0352.

*Task 8 – Right-of-Way Clearance*

The specific work will be completed in accordance with the original Scope of Services. At this time, it appears this section of the project will require permanent trail easements along Paoli Pike from six (6) additional properties for the multi-use trail and for grading purposes behind the proposed trail.

For the purpose of this proposal, McMahon's staff will attend an additional six (6) meetings during the process and record any necessary documents at the courthouse. McMahon will not be responsible for the submission of the right-of-way documentation to PennDOT for the final clearance.

*Task 9 – Utility Clearance*

The specific work will be completed in accordance with the original Scope of Services.

*Task 10 – Plans, Specification and Estimate (PS&E) Package*

The PS&E Submission for Segments D & E will be completed in accordance with the original Scope of Services. The PS&E Plan set will require additional plan sheets to include Segments D & E.

*Task 11 – Bidding Phase Services*

The specific work will be completed in accordance with the original Scope of Services.

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Direct Labor Cost (See attached Cost Breakdown) \$282,250

Expenses - exclusive of out-of-pocket expenses, including mileage,  
plan reproduction, plotting and graphics

**Total Lump Sum Fee for McMahon \$282,250**

**Sub-Consultants:**

*Latus Environmental Consulting, LLC \$12,808*

*Master Locators \$21,800*

**Total Lump Sum Fee \$316,858**

**Total Estimated Manhours 2,706 hours**

Engineer's Name: McMahon Associates, Inc.  
840 Springdale Drive  
Exton, PA 19341

Federal I.D. No.: 23-2462387

McMahon Direct Labor Cost - Preliminary Engineering

	Hours		Hourly Rate		Total
<b>Task 1 - 3F Total</b>	<b>753</b>				<b>\$79,970</b>
<b>Task 1 - Topographic Survey</b>	<b>36</b>				<b>\$5,280</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	0	x	\$200	=	\$0
Senior Project Engineer	0	x	\$125	=	\$0
Project Engineer	0	x	\$90	=	\$0
Staff Engineer/Design Technician	0	x	\$80	=	\$0
Chief of Survey	8	x	\$140	=	\$1,120
Survey Crew	16	x	\$200	=	\$3,200
Survey Technician	12	x	\$80	=	\$960
<b>Task 2 - Environmental Clearance/NEPA Process</b>	<b>56</b>				<b>\$6,800</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	16	x	\$200	=	\$3,200
Senior Project Engineer	0	x	\$125	=	\$0
Project Engineer	40	x	\$90	=	\$3,600
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 3A - Preliminary Line and Grade</b>	<b>196</b>				<b>\$20,400</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	6	x	\$200	=	\$1,200
Senior Project Engineer	60	x	\$125	=	\$7,500
Project Engineer	130	x	\$90	=	\$11,700
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 3B - Safety Review Submission</b>	<b>252</b>				<b>\$23,400</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	8	x	\$200	=	\$1,600
Senior Project Engineer	24	x	\$125	=	\$3,000
Project Engineer	120	x	\$90	=	\$10,800
Staff Engineer/Design Technician	100	x	\$80	=	\$8,000
<b>Task 3C - Preliminary ADA Curb Ramp Design</b>	<b>65</b>				<b>\$6,130</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	0	x	\$200	=	\$0
Senior Project Engineer	8	x	\$125	=	\$1,000
Project Engineer	57	x	\$90	=	\$5,130
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 3D - Preliminary PCSM/BMP Plan</b>	<b>56</b>				<b>\$7,240</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	8	x	\$200	=	\$1,600
Senior Project Engineer	40	x	\$125	=	\$5,000
Project Engineer	0	x	\$90	=	\$0
Staff Engineer/Design Technician	8	x	\$80	=	\$640

McMahon Direct Labor Cost - Preliminary Engineering

	Hours		Hourly Rate		Total
<b>Task 3E - Utility Coordination</b>	<b>64</b>				<b>\$6,500</b>
<i>Principal</i>	0	x	\$210	=	\$0
<i>Senior Project Manager</i>	4	x	\$200	=	\$800
<i>Senior Project Engineer</i>	20	x	\$125	=	\$2,500
<i>Project Engineer</i>	0	x	\$90	=	\$0
<i>Staff Engineer/Design Technician</i>	40	x	\$80	=	\$3,200
<b>Task 3F - Meetings and Public Participation</b>	<b>28</b>				<b>\$4,220</b>
<i>Principal</i>	0	x	\$210	=	\$0
<i>Senior Project Manager</i>	12	x	\$200	=	\$2,400
<i>Senior Project Engineer</i>	12	x	\$125	=	\$1,500
<i>Project Engineer</i>	0	x	\$90	=	\$0
<i>Staff Engineer/Design Technician</i>	4	x	\$80	=	\$320
			<b>Total McMahon Direct Labor</b>		<b>\$79,970</b>
			<b>Total Estimated Manhours</b>		<b>753</b>

McMahon Direct Labor Cost - Final Design

	Hours		Hourly Rate		Total
<b>Task 1 - 9 Total</b>	<b>1953</b>				<b>\$202,280</b>
<b>Task 1 - Roadway Drainage Design</b>	<b>188</b>				<b>\$17,200</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	8	x	\$200	=	\$1,600
Senior Project Engineer	0	x	\$125	=	\$0
Project Engineer	120	x	\$90	=	\$10,800
Staff Engineer/Design Technician	60	x	\$80	=	\$4,800
<b>Task 2 - E&amp;SCP Plan and NPDES Permit</b>	<b>212</b>				<b>\$23,800</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	12	x	\$200	=	\$2,400
Senior Project Engineer	120	x	\$125	=	\$15,000
Project Engineer	0	x	\$90	=	\$0
Staff Engineer/Design Technician	80	x	\$80	=	\$6,400
<b>Task 3 - Pavement Design</b>	<b>7</b>				<b>\$810</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	1	x	\$200	=	\$200
Senior Project Engineer	2	x	\$125	=	\$250
Project Engineer	4	x	\$90	=	\$360
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 4 - Final ADA Curb Ramp Design Compliance</b>	<b>107</b>				<b>\$10,350</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	4	x	\$200	=	\$800
Senior Project Engineer	8	x	\$125	=	\$1,000
Project Engineer	95	x	\$90	=	\$8,550
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 5 - Trail Boardwalk Design</b>	<b>0</b>				<b>\$0</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	0	x	\$200	=	\$0
Senior Project Engineer	0	x	\$125	=	\$0
Project Engineer	0	x	\$90	=	\$0
Staff Engineer/Design Technician	0	x	\$80	=	\$0
<b>Task 6 - TCP and Pavement Marking/Signing Plans</b>	<b>144</b>				<b>\$12,400</b>
Principal	0	x	\$210	=	\$0
Senior Project Manager	4	x	\$200	=	\$800
Senior Project Engineer	0	x	\$125	=	\$0
Project Engineer	40	x	\$90	=	\$3,600
Staff Engineer/Design Technician	100	x	\$80	=	\$8,000



MCMAHON ASSOCIATES, INC.  
STANDARD PROVISIONS FOR PROFESSIONAL SERVICES  
JANUARY 1, 2016

SERVICES

McMahon Associates, Inc. reserves the right to make adjustments for individuals within these classifications as may be desirable in its opinion by reason of promotion, demotion, or change in wage rates. Such adjustments will be limited to the manner in which charges are computed and billed and will not, unless so stated in writing, affect other terms of an agreement, such as estimated total cost. The following rates will apply to actual time devoted by McMahon Associates, Inc. staff to this project computed to the nearest one-half hour.

<u>PERSONNEL</u>	<u>HOURLY RATES</u>
Principal	\$250.00
Senior Associate	\$240.00
Associate	\$225.00
Senior Engineer/Planner VIII	\$210.00
Senior Engineer/Planner VII	\$200.00
Senior Engineer/Planner VI	\$195.00
Senior Engineer/Planner V	\$190.00
Senior Engineer/Planner IV	\$180.00
Senior Engineer/Planner III	\$170.00
Senior Engineer/Planner II	\$160.00
Senior Engineer/Planner I	\$150.00
Chief of Surveys	\$140.00
Traffic Control/Construction Specialist	\$135.00
Party Chief	\$120.00
Engineer VI	\$140.00
Engineer V	\$130.00
Engineer IV	\$125.00
Engineer III	\$120.00
Engineer II	\$110.00
Engineer I	\$105.00
Technician/Word Processor IV	\$ 95.00
Technician/Word Processor III	\$ 90.00
Technician/Word Processor II	\$ 85.00
Technician/Word Processor I	\$ 80.00
Survey Technician	\$ 75.00
Field Traffic Count Personnel	\$ 50.00

TERMS

1. **Invoices** - Invoices will be provided on a monthly basis and will be based upon percentage of completion or actual hours, plus expenses. Payment is due to McMahon Associates, Inc. within 30 days of the invoice date. Unpaid balances beyond 30 days are subject to interest at the rate of 1.5% per month. This is an annual percentage rate of 18%.
2. **Confidentiality** - Technical and pricing information in this proposal is the confidential and proprietary property of McMahon Associates, Inc. and is not to be disclosed or made available to third parties without the written consent of McMahon Associates, Inc.
3. **Commitments** - Fee and schedule commitments will be subject to renegotiation for delays caused by the client's failure to provide specified facilities or information, or any other unpredictable occurrences.
4. **Expenses** - Automatic Traffic Recorder equipment usage will be billed at \$25.00 per 24-hour count. Incidental expenses are reimbursable at cost, plus an administration fee of 10%. These include subconsultants, reproduction, postage, graphics, reimbursement of automobile usage at the IRS-approved rate, parking and tolls. Expenses which by company policy are not billed as reimbursable expenses to clients and therefore, will not be billed as part of this contract include the following: air travel, rental car, lodging, meals, and long distance phone charges between McMahon Associates offices. If it becomes necessary during the course of this project to travel elsewhere, those travel costs will be treated as reimbursable expenses. These expenses will be reflected in the monthly invoices.
5. **Attorney's Fees** - In connection with any litigation arising from the terms of this agreement, the prevailing party shall be entitled to all costs including reasonable attorney's fees at both the trial and appellate levels.
6. **Ownership and Use of Documents** - All original drawings and information are to remain the property of McMahon Associates, Inc. The client will be provided with copies of final drawings and and/or reports for information and reference purposes.
7. **Insurance** - McMahon Associates, Inc. will maintain at its own expense Workman's Compensation Insurance, Comprehensive General Liability Insurance and Professional Liability Insurance and, upon request, will furnish the client a certificate to verify same.
8. **Termination** - This agreement may be terminated by the authorized representative effective immediately on receipt of written notice. Payment will be due for services rendered through the date written notice is received.
9. **Binding Status** - The client and McMahon Associates, Inc. bind themselves, their partners, successors, assigns, heirs, and/or legal representatives to the other party to this Agreement, and to the partners, successors, assigns and legal representatives of such other party with respect to all covenants of this Contract.

# Memorandum

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**East Goshen Township**  
**1580 Paoli Pike**  
**West Chester, PA 19380**

Voice: 610-692-7171

Fax: 610-692-8950

E-mail: [mgordon@eastgoshen.org](mailto:mgordon@eastgoshen.org)

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Date: 9/16/2016

To: Board of Supervisors

From: Mark Gordon, Township Zoning Officer 

Re: Paoli Pike Trail / Segments F & G Engineering Proposal

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Dear Board Members,

The Township has received the requested engineering proposal for Segments F & G for the Paoli Pike Trail from McMahon Associates Inc.

As you know the Township was awarded a grant from Chester County in the amount of \$150,000 for this segment.

In addition the Township was awarded a CMAQ grant in the amount of \$1,736,000 for Segment D & E. Segment D & E originally included the intersection of Paoli Pike and North Chester Road. After consultation with representatives from Penn DOT and DRVPC we have decided to move the improvements at Paoli Pike and North Chester Road to Segment F & G.

Since the Goshen Friends Meeting is located in an historic district, the cost of designing and permitting the improvements at the intersection would have increased dramatically if we kept them in Segment D & E and used CMAQ (i.e. Federal) funding.

As a result the cost for Segment F & G is higher than what is estimated in the Paoli Pike Trail Plan.

The Staff recommendation is to move forward with the engineering work on Segments F & G as outlined in the enclosed proposal.

**Motion:** I move that we accept the September 14, 2016 Proposal from McMahon Associates in the amount of \$118,900 for the Paoli Pike Trail Segments F & G.



McMAHON ASSOCIATES, INC.  
840 Springdale Drive  
Exton, PA 19341  
p 610-594-9995 | f 610-594-9565

September 14, 2016

Mr. Louis (Rick) Smith  
Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

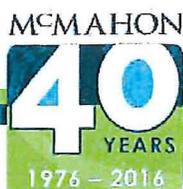
PRINCIPALS  
Joseph W. McMahon, P.E.  
Joseph J. DeSantis, P.E., PTOE  
John S. DePalma  
William T. Steffens  
Casey A. Moore, P.E.  
Gary R. McNaughton, P.E., PTOE  
ASSOCIATES  
John J. Mitchell, P.E.  
Christopher J. Williams, P.E.  
R. Trent Ebersole, P.E.  
Matthew M. Kozsuch, P.E.  
Maureen Chlebek, P.E., PTOE  
Dean A. Carr, P.E.

RE: **Proposal for Engineering Services**  
**Highway Occupancy Permit Design**  
Paoli Pike Trail – Segments F & G from North Chester Road (SR 0352) to Applebrook Park  
East Goshen Township, Chester County, PA  
McMahon Project No. 815048.FG

Dear Mr. Smith:

McMahon Associates, Inc. is pleased to submit this proposal to prepare a Highway Occupancy Permit (HOP) application for the proposed multi-use trail located on the south side of Paoli Pike (SR 2014) between North Chester Road (SR 0352) and the Applebrook Park trail, approximately 500 feet east of Hibberd Lane. Based on coordination with the Township and the conceptual exhibits included in the "Paoli Pike Trail Feasibility Study and Master Plan" prepared by our office, the proposed improvements are summarized below.

- Provide a 10 foot wide multi-use trail as shown on the conceptual exhibits. The trail will connect to the existing trails in Applebrook Park as shown and minimize utility pole relocations where feasible. In the vicinity of the Chester County Chamber of Business and Industry, the trail will be located between the tree line and the building as discussed at the September 1<sup>st</sup> field meeting.
- Upgrade two (2) ADA curb ramps on the southeast corner of Paoli Pike and N. Chester Road. The pedestrian traffic signal equipment (count-down timers) and the ramps on the southwest corner will be upgraded during the design work for segments C, D & E.
- Provide a hardscaped center median on Paoli Pike east of North Chester Road to serve as a traffic calming and gateway treatment for the Town Center area. We are assuming that the Township will provide details for any signage if desired (or permitted by PennDOT).
- Upgrade six (6) ADA curb ramps on the south side of Paoli Pike and Hibberd Lane.
- Provide a warrant analysis to determine if a full traffic signal can be installed at the intersection of Paoli Pike and Hibberd Lane/Township Park. Based on the results of this analysis, McMahon will either:
  - Design a full traffic signal complete with pedestrian traffic signal upgrades (including count-down timers); or
  - Modify the existing pedestrian flasher permit to accommodate the new ADA curb ramps.



## *Scope of Services*

### *Task 1 – Highway Occupancy Permit (HOP) Plans (1<sup>st</sup> Submission)*

The specific work to be completed for this task will include the final design of the proposed trail and associated improvements described above and preparation of the HOP submission package. The HOP submission package will include plans for construction, design reports, supporting analysis, and documentation. The Highway Occupancy Permit Plans will be prepared in accordance with **Pennsylvania Code Title 67, Transportation, Chapter 441, “Access to and Occupancy of Highways by Driveways and Local Roads”, Publication 282, “Highway Occupancy Permit Handbook”, Publication 13M, “Design Manual (Part 2)”, and any available District 6-0 Highway Occupancy Permit procedures and guidelines.** The HOP submission package will include the following:

#### Highway Occupancy Permit Plans

- Trail and roadway improvement (geometric) plans, drawn to 1"=25' scale
- Trail grading plans, drawn to 1"=25' scale
- Median grading plan, including bottom of curb elevations and roadway cross slopes
- Profile for the proposed trail.
- Trail and roadway drainage requirements, including existing drainage features, proposed drainage swales, proposed inlet and pipe layout, pipe profiles, adjacent site storm water management facilities (basin/underground storage and outlet structure) and standard details, as necessary
- Typical trail and roadway sections, indicating pavement structure type and depths.
- Cross-sections at 50-foot intervals (1"=5' scale) as needed for the proposed trail.
- List of standard details from PennDOT RC-drawings and appropriate construction notes.
- Maintenance and Protection of Traffic Plans (Publication 213 figures only).
- Pavement marking and signing plans
- Plans will include standard District 6-0 HOP notes and sight distance analysis
- Engineer's opinion of construction cost estimate (based on the approved HOP plans)

#### Design Analysis and Reports

- **Roadway Drainage Design** – McMahon will design additional roadway drainage facilities (infiltration trenches and amended soil grass buffers) and modifications to the existing drainage facilities along Paoli Pike to accommodate the storm water runoff from the proposed multi-use trail. The design analysis will include drainage area/runoff calculations, inlet spread analysis, capacity calculations for existing and proposed swales and storm pipe, as necessary. The drainage design will be in accordance with PennDOT Publication 13M, Design Manual, Part 2, Chapter 10 and PennDOT Publication 584, PennDOT Drainage Manual.

McMahon will complete a Roadway Drainage Report for submission to PennDOT and the Township addressing storm water along the roadways within the project limits. The report will include all calculations described above.

- **ADA Curb Ramp and Pedestrian Facility Design** – PennDOT will require new curb ramps to be designed in accordance with the current ADA standards. It is anticipated that a total of eight (8) curb ramps will need to be designed. McMahon will prepare ADA curb ramp plans and details in accordance with current PennDOT standards, drawn to 1"=5' scale (including the preparation of Technically Infeasible Forms, if necessary) for these curb ramps. *If additional ADA facilities are required, then an addendum proposal for the extra ADA curb ramp design work will be provided for your approval.*

#### *Task 2 – Traffic Signal Design (TSD) (1<sup>st</sup> Submission)*

This task consists of the preparation of the traffic signal plans and all required analysis and documentation for the following intersections:

##### Paoli Pike (SR 2014) and Hibberd Lane/Township Park Road

- Evaluate intersection for traffic signal warrants
- If warranted, design a new traffic signal
- If not warranted, modify the existing flasher permit plan to reflect ADA improvements

##### North Chester Road (SR 0352) and Paoli Pike (SR 2014)

- Modify the existing traffic signal permit plan to reflect ADA improvements on SE corner

#### Traffic Signal Warrant Study

##### *Manual Turning Movement and Pedestrian Counts*

McMahon will complete 11 hour manual turning movement and pedestrian counts on a typical workday at the intersection of Paoli Pike and Hibberd Lane/Township Park Road. The counts will be completed utilizing McMahon's electronic count boards along with the accompanying computer software.

##### *Crash Data Request*

McMahon will request, from PennDOT and the Township, the most recent three (3) years of available reportable crash data at the intersection of Lancaster Avenue (SR 0030) and Old Buck Road. McMahon will review the crash data for the intersection for inclusion in the warrant analysis report.

##### *Traffic Signal Warrant Analysis and Report*

McMahon will complete a traffic signal warrant analysis for the project intersection, in accordance with procedures outlined in the Manual on Uniform Traffic Control Devices, FHWA, 2009 edition, and PennDOT Publication 212, Official Traffic Control Devices - Chapter 212.

If the signal is warranted, McMahon will prepare a warrant report for PennDOT review and approval. If the signal is not warranted, McMahon will prepare a letter report summarizing the findings.

### **Traffic Signal Permit Plan Revisions for North Chester Road and Paoli Pike**

McMahon will prepare a traffic signal permit plan that will be consistent with PennDOT District 6-0 standards for the project intersections. The plan will be generated utilizing the HOP roadway construction plans prepared in Task 2 and the existing traffic signal permit plans on record at PennDOT. The traffic signal plans will be presented at 1"=25' scale, and will illustrate right-of-way, locations of traffic signal supports, detection systems, traffic signs, pavement marking, pavement widths, and the phasing, timing and sequencing for the signals. The plans will be completed utilizing McMahon's computer aided design system (CADD). We will submit the plans to PennDOT 6-0 for review and approval.

- **Traffic Data Analysis** – Based upon the proposed modifications, traffic data analysis is not anticipated and is not included in the proposal.
- **ADA Pedestrian Study** - As part of the permit plan submission, McMahon will conduct an evaluation and documentation of pedestrian needs and functionality of the existing facilities at the project intersections. McMahon will complete and submit the Pedestrian Accommodation at Signalized Intersections Checklist (*Publication 149, Chapter 19 – Traffic Signal Design Handbook*) for the project intersection.

#### *Traffic Signal Construction Plan*

Upon approval of the traffic signal permit, McMahon will prepare traffic signal construction plan for the intersection. The construction plans will illustrate information shown on the permit drawings, but also include details regarding the electrical distribution system and available utility information within the immediate vicinity of the intersection. The plans will also detail any specifications that East Goshen Township may require.

### **Flasher Permit Plan Revisions for Paoli Pike and Hibberd Lane/Township Park Road**

If a traffic signal is not warranted at the intersection of Paoli Pike and Hibberd Lane/Township Park Road, McMahon will prepare a flasher permit plan that will be consistent with PennDOT District 6-0 standards for the intersection. The plan will be generated utilizing the HOP roadway construction plans prepared in Task 2 and the existing permit plans on record at PennDOT. The plans will be presented at 1"=25' scale, and will illustrate right-of-way, locations of supports, traffic signs, pavement marking, pavement widths. The plans will be completed utilizing McMahon's computer aided design system (CADD). We will submit the plans to PennDOT 6-0 for review and approval.

- **ADA Pedestrian Study** - As part of the permit plan submission, McMahon will conduct an evaluation and documentation of pedestrian needs and functionality of the existing facilities at the project intersections. McMahon will complete and submit the Pedestrian Accommodation at Signalized Intersections Checklist (*Publication 149, Chapter 19 – Traffic Signal Design Handbook*) for the project intersection.

#### *Flasher Construction Plan*

Upon approval of the traffic signal permit, McMahon will prepare a flasher construction plan for the intersection. The construction plan will illustrate information shown on the permit drawings, but also

include details regarding the electrical distribution system and available utility information within the immediate vicinity of the intersection. The plans will also detail any specifications that East Goshen Township may require.

#### **Traffic Signal Permit Plan for Paoli Pike and Hibberd Lane/Township Park Road**

If a traffic signal is warranted at the intersection of Paoli Pike and Hibberd Lane/Township Park Road, McMahon will prepare a traffic signal permit plan that will be consistent with PennDOT District 6-0 standards for the project intersections. The plan will be generated utilizing the HOP roadway construction plans prepared in Task 2 and the existing traffic signal permit plans on record at PennDOT. The traffic signal plans will be presented at 1"=25' scale, and will illustrate right-of-way, locations of traffic signal supports, detection systems, traffic signs, pavement marking, pavement widths, and the phasing, timing and sequencing for the signals. The plans will be completed utilizing McMahon's computer aided design system (CADD). We will submit the plans to PennDOT 6-0 for review and approval.

- **Traffic Data Analysis** - McMahon will utilize the collected traffic data to prepare a capacity analysis to be submitted to PennDOT. In addition to this information, we will complete pedestrian and vehicular clearance interval calculations to ensure that the timings are in line with the most current PennDOT 6-0 standards.

*Note: It is assumed that the existing traffic signal timings for the existing Paoli Pike system will be maintained. Traffic counts and analysis for the intersections within the existing system have not been included in this proposal.*

- **System Permit Plan** - Since the traffic signal is adjacent to an existing coordinated traffic signal system along Paoli Pike, it is assumed that the new intersection will be added to the existing system. McMahon will modify the existing system permit plan on record at PennDOT to include the new intersection. The proposed timing and phasing changes must be reflected on the existing System Permit plan.
- **ADA Pedestrian Study** - As part of the permit plan submission, McMahon will conduct an evaluation and documentation of pedestrian needs and functionality of the existing facilities at the project intersections. McMahon will complete and submit the Pedestrian Accommodation at Signalized Intersections Checklist (*Publication 149, Chapter 19 – Traffic Signal Design Handbook*) for the project intersection.

#### *Traffic Signal Construction Plans*

Upon approval of the traffic signal permit, McMahon will prepare traffic signal construction plan for the intersection. The construction plan will illustrate information shown on the permit drawings, but also include details regarding the electrical distribution system and available utility information within the immediate vicinity of the intersection. The plans will also detail any specifications that Concord Township may require.

McMahon will also prepare a traffic signal interconnect plan for Paoli Pike to tie the proposed traffic signal into the existing system to the west along Paoli Pike.

### *Task 3 – Erosion and Sediment Pollution Control (E&SPC) Plan and NPDES Permit*

This task will include performing Double Ring Infiltrometer Testing to determine the soil properties for potential infiltration BMP's. The Infiltrometer Testing will be completed by Ingram Engineering. Additionally, our soil and wetland subconsultant, Seth Bacon, CPSS, SEO will conduct a field evaluation to identify and delineate any wetlands or waters using the methodology presented in the U.S. Army Corps of Engineers (ACOE) Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (2012). The wetland boundaries and the ordinary high water mark of identified watercourses will be marked with surveyor's flagging. The wetland and waters flagging will then be located by our survey crew.

After reviewing the infiltration testing results and the wetland areas, McMahon will develop a preliminary post construction storm water management (PCSM) Best Management Practices (BMP) plan consisting of features such as impervious disconnection, protection of existing tree canopy, landscaping and planting, soil amendments, vegetated buffers, infiltration trenches. This work will take place prior to submitting the safety review package. These post construction storm water management facilities (BMP's) will control the 2 Year Storm runoff volume increase between the pre-construction and post-construction conditions. The preliminary PCSM/BMP plan along with design analysis calculations will be presented at the pre-application meeting to get the Chester County Conservation District (CCCD) and the PADEP to approve prior to commencing with the final design and plan preparation. At this meeting, our team will discuss controlling the 2 Year Storm runoff volume increase and the best method to achieve water quality compliance. The two methods are the use of Worksheet 10 – Water Quality Compliance for Nitrate or the Pollutant Reduction Worksheets 12 and 13. The scope of this project does not include storm water management facilities to control storm water rate increase between the pre-construction and post-construction conditions. In addition, we will discuss the requirements for the additional segments for the entire Paoli Trail. The meeting will be scheduling in the fall of 2016, after the field work and preliminary design has been completed.

After reviewing the overall project with the CCCD and PADEP, McMahon will commence with the final design of the PCSM/BMPs, preparation of the E&SPC and PCSM plans and an Individual NPDES permit application, as the project is in a high quality watershed. The permit application will include the completed Notice of Intent application, standard worksheets (as determined at the pre-application meeting), calculations and reports. The design, plans and calculations will be completed in accordance with the PADEP Erosion and Sediment Pollution Control Program Manual, dated March 2012, Pennsylvania Storm water Best Management Practices Manual, dated December 2006 and PennDOT Drainage Manual –Publication 584, 2010.

### *Task 4 – Applications, Coordination and Standard PennDOT Documentation*

McMahon will assist with required Highway Occupancy Permit documentation as described below.

- **PennDOT Electronic Permitting System (EPS)** – On November 1, 2011, PennDOT implemented a new web-based HOP application system. All HOP plans, reports and documentation will need to be uploaded electronically to the EPS. The applicant will need to complete PennDOT's **M-950AA "Applicant's Authorization for Agent to Apply for Highway Occupancy Permit"** Form. Additionally, the applicant must apply for a **Business Partner ID (BPID)** prior to the issuance of the Highway

Occupancy Permit. The BPID will be used in the establishment of a billing account for the invoicing of construction inspection costs. McMahon will assist with the registration and submission process.

- **Shared-Use Trail Agreement** – McMahon will coordinate with PennDOT to obtain the required agreement documentation. McMahon will provide the PennDOT forms to the Township for execution. McMahon will submit the forms to PennDOT. The Township and McMahon will be required to coordinate directly with PennDOT Central Office to finalize the documentation. It is noted that PennDOT will likely require the Township to maintain all aspects of the trail, center median and any associated storm water improvements.
- **Adjacent Property Owner Coordination** – Notification will be necessary to adjacent property owners where the widening or improvements occur along their frontage. McMahon will prepare the notification letters for your review and McMahon will send them to the property owners via certified mail.

#### *Task 5 – Utility Coordination*

The design of the proposed trail will attempt to minimize utility pole relocations where feasible. However, some relocations or guy wire adjustments may be unavoidable. McMahon will notify the Pennsylvania One Call System of design and construction activity for the project and will send plans and request markups and as-built plans from utilities with involvement at this location. As utility plans are received, they will be checked against the field data to verify utility locations and will then be plotted on the project construction plans. During the design phase of the project, we will attempt to avoid utility conflicts with the resources that are available to us. Our office will identify all known utilities that will need to be relocated to the best of our ability. Based on the existing utility information received for the project area, it may be recommended to perform test holes to determine existing utility depths and locations that may be in conflict with the proposed roadway improvements. McMahon can provide a separate proposal for existing utility exploration as deemed necessary during the design phase of the project, and as requested by you. Please refer to the Exclusions section below for additional information regarding utilities.

If relocations are necessary, McMahon will identify the facility owners and coordinate with them for their required relocation documents and fees, as necessary. McMahon will forward the relocation documents to the Township for execution. Please note that relocation payment is typically required before the relocation work can be scheduled and performed by the utility company. However, if there are underground facilities that cannot be relocated and a design change is required, McMahon will coordinate with you to discuss the redesign and determine the scope of services and fee required to revise the plans.

Since it is difficult to determine the level of effort required to coordinate with each facility owner, the services described in this task are on a time-and-materials, estimate basis. At the approach of the limit, we will contact you to determine if authorization for further services are necessary. McMahon will send a utility status update once the Highway Occupancy Permit is issued. At that point, the client, their construction manager or their contractor will need to take on any remaining utility coordination that may be necessary to finalize relocation contracts or schedule relocation work.

### *Task 6 – HOP and Traffic Signal Revisions*

Our office anticipates that two (2) resubmissions to PennDOT will be necessary. The specific work to be completed for this task will include coordinating with PennDOT District 6-0's Engineering and Permits Units throughout the resubmissions to discuss plan and report information required as part of the HOP application. This will include coordination (written and verbal correspondence) with units such as Traffic, Operations, Drainage, Right-of-Way and Plans. McMahon will copy the Township on all HOP submission. Upon receipt of review comments from PennDOT and the Township, revisions to the plans will be completed and resubmitted for approval. If PennDOT requests any major or unreasonable design revisions, McMahon will meet with you to discuss the review letter and determine the scope of services and fee required to address those comments.

### *Task 7 – Meetings and Correspondence*

For the purpose of this proposal, the McMahon Team will attend three (3) progress meetings with the Township and PennDOT District 6-0 as necessary to discuss the status of the project. Also, our team will conduct one (1) plans display meeting to present the preliminary design of the multi-use trail to the local residents, businesses and other stakeholders.

### *Exclusions*

Topographic Survey – McMahon will utilize the topographic survey that was previously prepared by our office. Additional survey is not anticipated and therefore, it is not included in this proposal.

Right-of-Way Plans and Coordination – Based on the conceptual design work, the only right-of-way needed for trail segments F & G project is a trail easement from the Goshen Friends School, which should be obtained in the near future. Additionally, it is not anticipated that that PennDOT will require a full set of Right-of-Way Plans since the easement is between the Township and the land owner. Therefore, this proposal assumes that no additional Right-of-Way acquisition/dedication or easements (plats or plans) will be required.

Additionally, this proposal does not include design related to any major design revisions, structural design, pavement cores, CBR testing, coordination with property owners, preparation of a Chapter 105 General Permit, subsurface utility exploration work, utility relocation engineering, construction oversight and inspection, survey during construction and design revisions during construction. The services to be performed pursuant to this agreement are strictly limited to those expressly set forth herein. No additional services will be provided unless requested and agreed to in writing.

*Fee*

The fee for the foregoing scope of work is as follows:

Task 1 – HOP Plans (1 <sup>st</sup> Submission) .....	\$	43,400
Task 2 – Traffic Signal Design (TSD) (1st Submission)		
Traffic Signal Warrant Study .....	\$	2,450
Traffic Signal Permit for North Chester Road and Paoli Pike .....	\$	2,500
Flasher Permit for Paoli Pike & Hibberd Lane/Twp Park Road .....	\$	2,500*
or*		
Traffic Signal Permit for Paoli Pike & Hibberd Lane/Twp Park Road..	\$	11,500*
Task 3 – E&SPC Plan and NPDES Permit .....	\$	24,350
Task 4 – PennDOT Documentation.....	\$	4,500
Task 5 – Utility Coordination.....	\$	3,500
Task 6 – HOP and Traffic Signal Revisions.....	\$	22,700
Task 7 – Meetings and Correspondence.....	\$	4,000
<b>Total Fee (Tasks 1 – 7).....</b>	<b>\$</b>	<b>118,900</b>

\* The additional \$9,000 between these two options will only be billed if the traffic signal warrant analysis permits a full traffic signal at the Paoli Pike & Hibberd Lane/Twp Park Road intersection.

Expenses (Estimate) \$1,000

Services will be performed and invoiced on a time-and-materials basis in accordance with our attached Standard Provisions for Professional Services. Additional meetings, other than those included above, will be provided on a time-and-material basis, per the attached Standard Provisions for Professional Services. This proposal includes an estimate of out-of-pocket expenses, including reproduction, plotting, graphics, and reimbursement of personal automobile usage, which will be billed in accordance with our agreed upon Provisions for Professional Services. The services to be performed pursuant to this agreement are strictly limited to those expressly set forth herein. No additional services will be provided unless requested and agreed to in writing. Supplemental services not specifically described above, including but not limited to, additional data collection, traffic analysis, scope changes, changes to the assumptions, response to review comments, report revisions, conference calls, additional meetings, hearings, etc., are not included in the scope of this proposal, but will be provided, as necessary and as authorized, on a time-and-materials basis.

*Schedule*

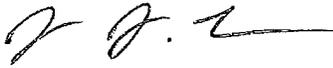
We will proceed upon receipt of your signed authorization of this proposal. The anticipated schedule for the Highway Occupancy Permit process is estimated at six (6) to nine (9) months based on previous experience with the Department on similar type projects. Please note that there are many items that will require project team coordination from you and your legal counsel throughout the project. Issuance of the Highway Occupancy Permit and the project schedule will be dependent on the extent of the review comments, coordination with outside agencies and the chance for unforeseen circumstances.

*Conditions*

This agreement and exhibits hereto sets forth the entire understanding between the parties with respect to the subject matter hereof, supersedes any and all prior understandings whether written or oral with respect to the subject matter hereof and may not be altered, modified, changed, amended, or waived in any manner, except in a writing signed by all of the parties hereto. The conditions of this agreement call for the execution of this contract with the understanding that **invoices for services will be submitted monthly and are payable within 30 days of issuance**. All projects with overdue invoices exceeding 90 days will be subject to a stoppage of all work. Any changes in the specific work program described above will result in an adjustment of the conditions and fees. If the terms of this contract, as contained herein, and in the attached Standard Provisions for Professional Services are agreeable to you, please execute the agreement below in the space provided and return one signed copy to our office.

If you should have any questions, or require further information, please feel free to contact me at 610-594-9995, ext. 5130.

Sincerely,



James J. Kouch, P.E.  
Senior Project Manager

JJK/SCG/ab  
Attachment

cc: Stephen C. Giampaolo, P.E., PTOE, McMahon Associates, Inc.  
Anton K. Kuhner, P.E., PTOE, McMahon Associates, Inc.  
Natasha Manbeck, P.E., AICP, McMahon Associates, Inc.

*Accepted for East Goshen Township:*

**I have reviewed all terms of this contract, and I am authorized to sign in the space below for execution of this contract.**

By: \_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Printed Name of Authorized Representative)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Please provide your Accounts Payable contact information:

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

In the space below, please provide any details, including the date invoices are due each month for prompt payment:

**MCMAHON ASSOCIATES, INC.**  
**STANDARD PROVISIONS FOR PROFESSIONAL SERVICES**  
**JANUARY 1, 2016**

**SERVICES**

McMahon Associates, Inc. reserves the right to make adjustments for individuals within these classifications as may be desirable in its opinion by reason of promotion, demotion, or change in wage rates. Such adjustments will be limited to the manner in which charges are computed and billed and will not, unless so stated in writing, affect other terms of an agreement, such as estimated total cost. The following rates will apply to actual time devoted by McMahon Associates, Inc. staff to this project computed to the nearest one-half hour.

<u>PERSONNEL</u>	<u>HOURLY RATES</u>
Principal	\$250.00
Senior Associate	\$240.00
Associate	\$225.00
Senior Engineer/Planner VIII	\$210.00
Senior Engineer/Planner VII	\$200.00
Senior Engineer/Planner VI	\$195.00
Senior Engineer/Planner V	\$190.00
Senior Engineer/Planner IV	\$180.00
Senior Engineer/Planner III	\$170.00
Senior Engineer/Planner II	\$160.00
Senior Engineer/Planner I	\$150.00
Chief of Surveys	\$140.00
Traffic Control/Construction Specialist	\$135.00
Party Chief	\$120.00
Engineer VI	\$140.00
Engineer V	\$130.00
Engineer IV	\$125.00
Engineer III	\$120.00
Engineer II	\$110.00
Engineer I	\$105.00
Technician/Word Processor IV	\$ 95.00
Technician/Word Processor III	\$ 90.00
Technician/Word Processor II	\$ 85.00
Technician/Word Processor I	\$ 80.00
Survey Technician	\$ 75.00
Field Traffic Count Personnel	\$ 50.00

**TERMS**

1. **Invoices** - Invoices will be provided on a monthly basis and will be based upon percentage of completion or actual hours, plus expenses. Payment is due to McMahon Associates, Inc. within 30 days of the invoice date. Unpaid balances beyond 30 days are subject to interest at the rate of 1.5% per month. This is an annual percentage rate of 18%.
2. **Confidentiality** - Technical and pricing information in this proposal is the confidential and proprietary property of McMahon Associates, Inc. and is not to be disclosed or made available to third parties without the written consent of McMahon Associates, Inc.
3. **Commitments** - Fee and schedule commitments will be subject to renegotiation for delays caused by the client's failure to provide specified facilities or information, or any other unpredictable occurrences.
4. **Expenses** - Automatic Traffic Recorder equipment usage will be billed at \$25.00 per 24-hour count. Incidental expenses are reimbursable at cost, plus an administration fee of 10%. These include subconsultants, reproduction, postage, graphics, reimbursement of automobile usage at the IRS-approved rate, parking and tolls. Expenses which by company policy are not billed as reimbursable expenses to clients and therefore, will not be billed as part of this contract include the following: air travel, rental car, lodging, meals, and long distance phone charges between McMahon Associates offices. If it becomes necessary during the course of this project to travel elsewhere, those travel costs will be treated as reimbursable expenses. These expenses will be reflected in the monthly invoices.
5. **Attorney's Fees** - In connection with any litigation arising from the terms of this agreement, the prevailing party shall be entitled to all costs including reasonable attorney's fees at both the trial and appellate levels.
6. **Ownership and Use of Documents** - All original drawings and information are to remain the property of McMahon Associates, Inc. The client will be provided with copies of final drawings and/or reports for information and reference purposes.
7. **Insurance** - McMahon Associates, Inc. will maintain at its own expense Workman's Compensation Insurance, Comprehensive General Liability Insurance and Professional Liability Insurance and, upon request, will furnish the client a certificate to verify same.
8. **Termination** - This agreement may be terminated by the authorized representative effective immediately on receipt of written notice. Payment will be due for services rendered through the date written notice is received.
9. **Binding Status** - The client and McMahon Associates, Inc. bind themselves, their partners, successors, assigns, heirs, and/or legal representatives to the other party to this Agreement, and to the partners, successors, assigns and legal representatives of such other party with respect to all covenants of this Contract.



McMAHON ASSOCIATES, INC.  
840 Springdale Drive  
Exton, PA 19341  
p 610-594-9995 | f 610-594-9565

September 14, 2016

Mr. Louis (Rick) Smith  
Township Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380

**PRINCIPALS**  
Joseph W. McMahon, P.E.  
Joseph J. DeSantis, P.E., PTOE  
John S. DePalma  
William T. Steffens  
Casey A. Moore, P.E.  
Gary R. McNaughton, P.E., PTOE

**ASSOCIATES**  
John J. Mitchell, P.E.  
Christopher J. Williams, P.E.  
R. Trent Ebersole, P.E.  
Matthew M. Kozsuch, P.E.  
Maureen Chlebek, P.E., PTOE  
Dean A. Carr, P.E.

**RE: Proposal for Topographic Survey**  
Paoli Pike Trail – Segments A & B from Airport Road (T-317) to Reservoir Road (T-470)  
East Goshen Township, Chester County, PA  
McMahon Project No. 815731.AB

Dear Mr. Smith:

McMahon Associates, Inc. is pleased to provide this proposal for topographic survey services in support of the submitted and upcoming competitive grant applications for segments A & B of the proposed Paoli Pike Trail in East Goshen Township, Chester County, PA. This effort is directly related to recent work for the Township on the "Paoli Pike Trail Feasibility Study and Master Plan".

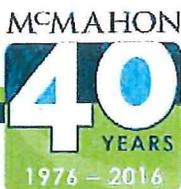
The scope of services below is for segments A& B between Airport Road (T-317) to Reservoir Road (T-470).

### *Scope of Services*

The Topographic survey will be obtained using the following procedures and requirements for the proposed route of the Paoli Pike multi-use trail. The survey will cover approximately 3,900 total feet along the proposed route of the trail for segments A & B. Survey coverage will encompass a 60 foot swath along the north side of Paoli Pike from the intersection of Airport Road to Reservoir Road. This route will cross approximately 8 properties.

- 1) The recovery of boundary evidence is anticipated on the 8 parcels along the proposed trail route on the north side of Paoli Pike. It is anticipated that the following parcels will be needed in the survey: UPI#'s 53-3-1.4, 53-3-1.9A, 53-3-1.9, 53-3-1.8, 53-4-166, 53-4-167, 53-4-168 & 53-4-169.
- 2) Deed research on 20 properties is anticipated, which include the 8 properties along the proposed trail route plus the 12 properties across the street. The properties along the south side of Paoli Pike are researched to establish the Right-of-Way for Paoli Pike.
- 3) Location of two creek areas: These areas include the East Branch of the Chester Creek located on parcel 53-3-1.8 and a small tributary of the East Branch of the Chester Creek located on parcel 53-3-1.9A.

Topographic survey will be performed from the north side of Paoli Pike north along the creek for 100 feet.



- 4) Location of wetland delineation flags: It is anticipated that two creek areas will require delineation and flag location. Our soil and wetland subconsultant, Seth Bacon, CPSS, SEO will conduct a field evaluation to identify and delineate any wetlands or waters using the methodology presented in the U.S. Army Corps of Engineers (ACOE) Wetland Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (2012). The wetland boundaries and the ordinary high water mark of identified watercourses will be marked with surveyor's flagging. The wetland and waters flagging will then be located by our survey crew.

#### Procedures

- The survey datum will be tied to the Pennsylvania State Plane Coordinate System.
- The survey control will be established by use of ground and GPS equipment.
- The topographic survey will be performed by ground based measurement techniques.
- Horizontal location of topographic features on roadways will extend approximately 10 feet beyond the existing edge of roadway, within project limits if not specifically described above.
- The Right-of-Way lines will be reconstructed utilizing PennDOT, County and local township public records and resources
- AutoCAD Land Development Desktop will be used to prepare the survey. All drawing files will be in an AutoCAD Format (DWG) with a base point of 0,0,0 and a North Rotation of 0 degrees.

#### Requirements

- Roadway and trail cross sections will be obtained on station at 50 foot intervals. Additional cross sections will be obtained where there are grade breaks or a change in the terrain.
- The width of the roadway survey will extend to the Right of way line.
- The following information will be obtained:
  - Edge of road and edge of shoulder locations
  - Traffic line patterns and the location of all roadway pavement markings
  - Traffic signs with a description of each sign
  - Utility poles and guy wires
  - Trees and landscaping
  - Guide rails, Median barriers and traffic separation islands
  - Curbs, sidewalks and curb ramp locations
  - Detailed topographic coverage at the locations of proposed ADA handicap ramps
  - Drainage inlets and end walls manhole covers within the specified limits
  - Visible utilities including water and gas valves, junction boxes and any other utility structures on or near the roadway or proposed trail area
  - Location of underground utilities which are identifiable from utility markings and/or plan information from the results of PA One Call inquiry (the locations of underground utilities are only approximate)
  - Stream and railroad structures & railroad crossings
  - Intersecting Streets and driveways, including widths and types
  - Any other topography within the specified limits which may interfere with grading, construction, or paving operations

- o Surface location of sanitary sewer manholes will be obtained if structures are safe and accessible and access is not restricted by the governing sewer authority. Invert data will be obtained by existing plans if available.

**Access**

This access is limited to only the areas near the project scope and will occur during normal business hours. McMahon will prepare a draft letter of intent to enter and provide to the Township for distribution to the property owners within the survey limits.

**Research**

Deed and plan research will be conducted on the surrounding parcels within the limits outlined above: Right-of-way research will be performed utilizing PennDOT, County, local and township public records and resources provided by the client.

**Plan of Survey**

Final mapping will include the required information as well as the property line locations. In addition, property owner names, block numbers, unit numbers and tax parcel numbers will be shown on the AutoCAD drawing. Existing found monumentation on the project will be shown on the plan.

***Fee***

The fee for the foregoing scope of work is as follows:

<b>Topographic Survey Services Total</b>	<b>\$</b>	<b>31,600</b>
Expenses (Estimate)	\$	750

Services will be performed and invoiced on a time-and-materials basis in accordance with our attached Standard Provisions for Professional Services. All meetings will be provided on a time-and-material basis, per the attached Standard Provisions for Professional Services. This proposal includes an estimate of out-of-pocket expenses, including reproduction, plotting, graphics, and reimbursement of personal automobile usage, which will be billed in accordance with our agreed upon Provisions for Professional Services. The services to be performed pursuant to this agreement are strictly limited to those expressly set forth herein. No additional services will be provided unless requested and agreed to in writing. Supplemental services not specifically described above, including but not limited to, additional data collection, traffic analysis, scope changes, changes to the assumptions, response to review comments, report revisions, conference calls, additional meetings, hearings, etc., are not included in the scope of this proposal, but will be provided, as necessary and as authorized, on a time-and-materials basis.

***Schedule***

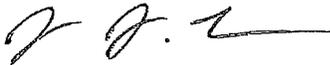
We will proceed upon receipt of your signed authorization of this proposal. The anticipated schedule for completion of the survey is estimated at two (2) months based on previous experience similar type projects.

*Conditions*

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Sincerely,



James J. Kouch, P.E.  
Senior Project Manager

JJK/SCG/ab  
Attachment

cc: Stephen C. Giampaolo, P.E., PTOE, McMahon Associates, Inc.  
Natasha Manbeck, P.E., AICP, McMahon Associates, Inc.  
Ken Swift, PLS, McMahon Associates, Inc.

*Accepted for East Goshen Township:*

**I have reviewed all terms of this contract, and I am authorized to sign in the space below for execution of this contract.**

By: \_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Printed Name of Authorized Representative)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Please provide your Accounts Payable contact information:

Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

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**McMAHON ASSOCIATES, INC.**  
**STANDARD PROVISIONS FOR PROFESSIONAL SERVICES**  
**JANUARY 1, 2016**

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Party Chief	\$120.00
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**BOARD OF SUPERVISORS**  
EAST GOSHEN TOWNSHIP  
CHESTER COUNTY  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

September 16, 2016

To: Board of Supervisors

From: Mark Miller

Re: CTDI Pedestrian Cross Walk Request

CTDI Test Communication would like to install a cross walk from their property to our inner Circle pedestrian path/lane located on Enterprise Drive. CTDI will cover all costs.

Attached is the request from CTDI.

September 6, 2016

Dear Members of the East Goshen Township Board,

CTDI would like to request permission to install a painted crosswalk between 1336 Enterprise Drive leading across to the inner pedestrian path/lane located on Enterprise Drive.

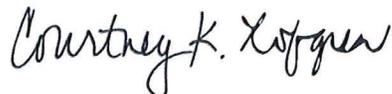
CTDI feels that this crosswalk will assist in assuring a safe area for our employees in our locations at 1334 and 1336 Enterprise Drive, as well as some of our neighbors in the Goshen Corporate Park, allowing pedestrians to cross over the lanes of traffic to access the pedestrian path. The proposed location for this crosswalk is shown in the attached PDF.

The striping and required signage will be sourced from Bright Stripe and the Signage Safety Store and installed to meet all PENNDOT requirements. All costs incurred will be paid for by CTDI. Additionally, CTDI will work with the township's Highway Department to ensure that any concerns that the township may have with the installation are addressed.

Please feel free to contact me via email at [clofgren@ctdi.com](mailto:clofgren@ctdi.com) or phone at 610-793-8520 with any questions.

Thank you in advance for your consideration.

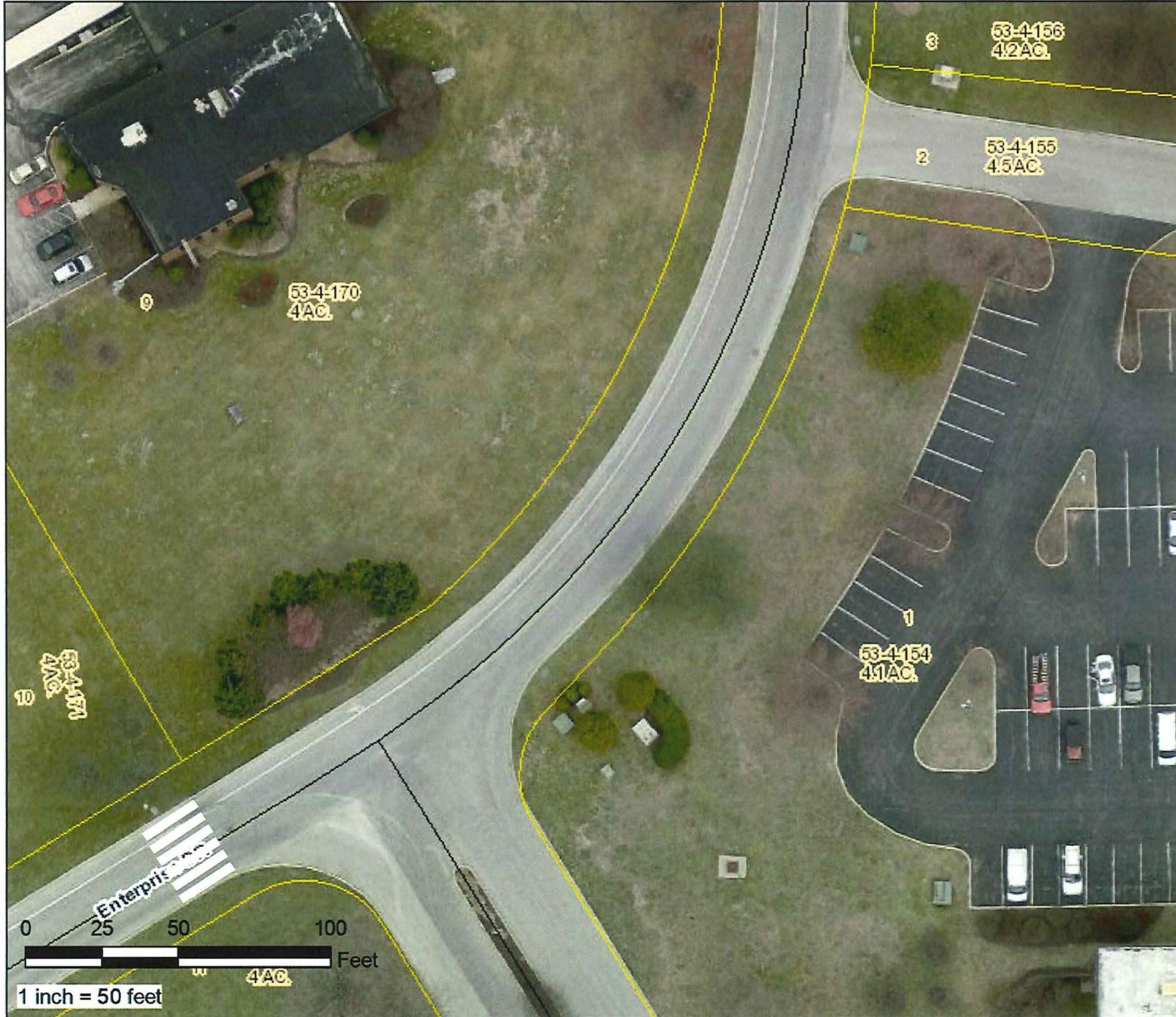
Sincerely,



Courtney K. Lofgren  
Director, Culture & Communications

cc: Keith Montone, CTDI

1336EnterpriseDrive



COUNTY OF CHESTER  
PENNSYLVANIA



Map Created:  
Tuesday, July 19, 2016

County of Chester



**Limitations of Liability and Use:**  
County of Chester, Pennsylvania makes no claims to the completeness, accuracy, or content of any data contained herein, and makes no representation of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied or inferred with respect to the information or data furnished herein. For information on data sources visit the GIS Services page listed at [www.chesco.org/gis](http://www.chesco.org/gis).

# FYI

To: Board of Supervisors  
From: Jason Lang  
Re: Tennis Courts, Surveillance Camera Review  
Date: September 8, 2016

Board of Supervisors-

A motion camera was installed by the tennis court area to assess general court usage patterns for number of participants and time of play. The cameras captured footage on Monday – Wednesday 6/27 – 6/29 and Tuesday – Friday 7/12 - 7/15.

Example photos:



Above: 7/14 evening; three courts in use with two participants waiting for court



Above: 7/13 Morning; two courts in use

Raw Data:

Date	Number of participants	Time of Play (when they enter court)	Notes
6/27	2	10:53am	Rained in PM
6/28	8	3:30p; 4:48p; 6:11p; 6:28p	
6/29	4	9:39am	

Computer/H:/East Goshen Township/Budget

7/12	14	3:10pm; 5:58pm; 6:09am; 6:56pm; 7:17pm	Group of two had to wait in line
7/13	10	9am; 9:55am; 6:50pm; 7:54pm	
7/14	16	8:51am; 6:04pm; 6:43pm; 7:06pm; 7:29pm; 7:38pm; 7:51pm	Group of two had to wait in line
7/15	4	8am; 4:46pm	

Assessment:

Three courts are consistently in demand for general public use between the hours of 8am - 10am and again from 6pm – dusk, with some need for a fourth court. Currently, there are two youth tennis groups (Delaware Valley Friends School and Philly Team Tennis) that rent the front three courts but need four courts for continued play. Rental fees from these groups generate \$2000 annually.

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**EAST GOSHEN TOWNSHIP  
BOARD OF SUPERVISORS MEETING  
1580 PAOLI PIKE  
September 6, 2016 – 7:00 pm  
DRAFT MINUTES**

27  
28  
29  
30  
31

**Present:** Chairman Senya D. Isayeff, Vice-Chairman Marty Shane, Supervisors Carmen Battavio, Chuck Proctor; Janet Emanuel; Township Manager Rick Smith; Township CFO Jon Altshul; and ABC Member Erich Meyer (Conservancy Board).

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33  
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**Call to order & Pledge of Allegiance:**

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Senya called the meeting to order at 7:05 pm and asked Eric Meyer to lead the assembly in the Pledge of Allegiance.

**Moment of Silence:**

Carmen called for a moment of silence to honor the members of the military who keep us safe both locally and abroad.

**Recording of Meeting:** None

**Chairman's Report:** Senya reported that the Board met in Executive Session at 6pm prior to tonight's meeting to discuss a police personnel matter. He announced that Montajeon Gay had resigned from the Historical Commission. He also announced the following 2017 Minimum Municipal Obligations for the Township's pension plans:

- Firefighters Defined Benefit Plan: \$59,720
- Non-Uniformed Defined Benefit Plan (Frozen): \$0
- Non-Uniformed Defined Contribution Plan: \$80,787
- Police Commission Non-Uniformed (Admin) Defined Contribution Plan: \$9,804

**Consider Recommendation on Refuse and Recycling Bids**

Rick reported the following bid results

Advanced Disposal Services Eastern PA:	\$691,420.68
A.J. Blosenski Inc:	\$694,920.36
Solid Waste Services (d/b/a J.P. Mascaro & Sons):	\$909,486.60
Eagle Disposal of PA, Inc:	Did not bid, but asked to be kept on list for future bids

However, Rick observed that Advanced Disposal was unresponsive with respect to Section 24 of the bid specifications. He therefore recommended that the contract be awarded to Blosenski. Senya asked if the bid document was clear that the missing items in question were required, and Rick said that they were.

1 Chuck made a motion to reject the bid from Advanced Disposal Services Eastern PA, Inc since it  
2 is unresponsive to the Section 24 addenda of the bid specifications and award the bid for the  
3 collection of municipal waste and recycling services to the lowest responsible and responsive  
4 bidder, A.J. Blosenski, Inc in the amount of \$694,920.36. Carmen seconded the motion.

5  
6 Marty asked the Board if it was appropriate to reject a bidder for a deficiency in a bid. Carmen  
7 suggested that the Board consider rebidding the contract. Senya observed that contractors need to  
8 follow the rules and instructions in responding to bids and that every good contractor  
9 understands this. Rick added that the Board has discretion to disqualify a bid based on  
10 deficiencies.

11  
12 Jim Clark, A.J Blosenski, stated that he believes that the discrepancies in Advanced's bid were  
13 material.

14  
15 The motion passed 5-0.

16  
17 **Consider Proposal from Gannet Fleming on the Milltown Dam**

18 Rick explained that the Department of Environmental Protection (DEP) has advised Gannet  
19 Fleming that it would prefer that the reservoir be dewatered and the streambeds in the existing  
20 reservoir naturally re-establish themselves over a period of time. As a result, this preferred  
21 approach could delay the proposed landscaping and design above the dam. Senya observed that  
22 Gannet Fleming's price also reflects its institutional knowledge of both the Milltown Dam and  
23 DEP.

24  
25 Marty made a motion to accept Gannet Fleming proposal for engineering services and permitting  
26 documents for the partial breach of Milltown Dam in the amount of \$123,400. Chuck seconded  
27 the motion.

28  
29 Chuck Hepler, 12A Reservoir Road, stated that he would have preferred to have seen an  
30 alternative to having the reservoir dewatered and the drained reservoir sit there for a year while  
31 the stream channels establish themselves.

32  
33 Mike Lehmicke, 4 Reservoir Road, expressed concerns about unsightly weeds growing in the  
34 dewatered floodplain while the stream channels are established and asked whether Township  
35 taxpayers could oppose DEP's preferred approach, as well as whether temporary vegetation  
36 would be planted.

37  
38 Senya observed that both DEP and Gannet Fleming have a lot of experience with breaching  
39 dams in Pennsylvania and that we shouldn't discount their preferred approach too much. Both  
40 Senya and Carmen stressed the need to keep the community informed of Gannet Fleming's and  
41 DEP's activities. Carmen added that nothing will happen until the permit is issued, which  
42 probably wouldn't be for another six months.

43  
44 The motion passed 5-0.

1 Marty observed that the Board has not received many resume from residents living around the  
2 Dam interested in serving on the Dam Committee. He asked Mr. Hepler and Mr. Lehmicke to  
3 encourage their neighbors to apply.  
4

5 **Consider Proposal from Gannet Fleming on the Hershey's Mill Dam**

6 Rick observed that DEP will do the environmental assessment for the Hershey's Mill Dam,  
7 which will reduce Gannet Fleming quoted price by \$9,500.  
8

9 Marty made a motion to accept Gannet Fleming's proposal for engineering services and the  
10 development of permitting documents for the breach of Hershey's Mill Dam at a cost of  
11 \$103,500, or \$9,500 less than the quoted price of \$113,000. Carmen seconded the motion. The  
12 motion passed unanimously.  
13

14 **Public Comment**

15 Bernie Greenberg, Hershey's Mill Villages, recommended that the Board carefully review  
16 Pennoni's comments about the water quality permit for Sunoco's proposed pipeline.  
17

18 **Consider Recommendation on Smoke Alarms**

19 Rick explained that the staff's recommendation is to eliminate the three exceptions in the  
20 Township code with respect to requiring smoke alarms on all floors and in all bedrooms of  
21 residential dwellings. He added that the township has received letters of support from the County  
22 and the Fire Company. He noted that nationally 4,000 people die per year from house fires, of  
23 which half were in homes without working smoke alarms.  
24

25 Marty stated that he was adamantly opposed to amending the code as there is no data showing  
26 that installing a smoke detector on every floor and in every bedroom will lead to fewer deaths;  
27 that there is no way to ensure compliance other than at the time of sale; and that the Township  
28 should be careful not to overstep our bounds with residents' privacy.  
29

30 Carmen stressed that this ordinance deals with human lives and that the Board has an obligation  
31 to do everything it can to keep residents safe.  
32

33 Janet made a motion to direct staff to advertise the proposed ordinance amendment and schedule  
34 a hearing date. Carmen seconded the motion.  
35

36 Senya observed that this recommendation may make sense for multi-family dwellings such as in  
37 Hershey's Mill Villages, but not for detached homes.  
38

39 The motion did not pass by a vote of 2-3, with Senya, Chuck and Marty opposed.  
40

41 **Consider Additional Information on Recreation Survey**

42 Jon provided an overview of his memo about whether respondents to the Township's recent  
43 recreation survey who expressed an interest in programs for high schoolers had children or  
44 dependents under 18 at home. He noted that the survey had been well received by the Park &  
45 Recreation Commission at its meeting last week and recommended that the Finance Committee  
46 discuss next steps about the survey findings at its next meeting.

1 **Consider Recommendation on Roof Replacement**

2 The Township received the following bids for the municipal building roof replacement project:

Vendor	Amount
Pro Cam Roofing Corp	\$220,653
Laurant Construction Co., Inc	\$226,026
Wilkinson Roofing & Siding, Inc	\$269,433
Garvey Roark, LLC	\$283,362
Premier Roofing Services LLC	\$285,317
D.A. Nolt, Inc	\$395,000
Jottan, Inc	\$6,110,826

4  
5 Rick added that we also received a quote for resurfacing the roof from A. Poletto & Associates  
6 for \$24,300, which would extend the roof's useful life for some period of time. Rick stated that  
7 the roof is at a stage where the Township needs to take action, but it is not yet leaking or beyond  
8 the point at which resurfacing would prolong its useful life. The board directed Rick to get bids  
9 for resurfacing the roof before taking further action.

10  
11 **Consider Recommendation to Replace Pick-up Truck**

12 Rick reported that we received two price quotes through COSTARS for a replacement for the  
13 2007 Ford pick-up truck: \$41,113 from Hoskins Ford and \$44,145 through New Holland Ford.  
14 Carmen made a motion to purchase a 2017 Ford F350 through Hoskins Ford for \$41,143. Marty  
15 seconded the motion. The motion passed unanimously.

16  
17 **Consider Recommendation on Finance Security Agreement for Lot 1 in the 1662 East Boot**  
18 **Road Subdivision**

19 Carmen made a motion to approve the financial security agreement for the development  
20 proposed for 1662 East Boot Rd, Lot 1. Marty seconded the motion. The motion passed 5-0.

21  
22 **Consider Recommendation on Recreation Payment Portal**

23 Jon explained that the Township had cancelled the agreement with AMS for the proposed  
24 recreation payment portal and would receive a credit on future invoices. He recommended that  
25 the Township contract with MyRec for a payment portal. Chuck made a motion to contract with  
26 MyRec on a payment portal at an estimated cost of \$3,295. Carmen seconded the motion. The  
27 motion passed 5-0.

28  
29 **Consider Recommendation on DAS Zoning Ordinance**

30 Rick explained that this proposed amendment was identified as an issue by the West Chester  
31 Council of Governments and would regulate distributed antenna systems (DAS), which help  
32 telecommunications companies expend their wireless data footprint. Janet noted a handful of  
33 typos in the proposed ordinance. Janet made a motion to submit the ordinance to the Chester  
34 County Planning Commission for its review and comment. Carmen seconded the motion. The  
35 motion passed 5-0.

36  
37 **Consider Stormwater Agreements**

1 Marty made a motion to authorize the Chairman to execute storm water management operation  
2 and management agreements for 1553 Colonial Lane, 411 Misak Drive, 922 N. Chester Road  
3 and 1507 Grand Oak Lane. Carmen seconded the motion. The motion passed 5-0.  
4

5 **Approval of Minutes from June 28<sup>th</sup> and August 16<sup>th</sup>**

6 Janet made a motion to approve the minutes of the June 28<sup>th</sup> Board of Supervisors meeting as  
7 corrected. Chuck seconded the motion. The motion passed 5-0.  
8

9 Janet made a motion to approve the minutes of the August 16<sup>th</sup> Board of Supervisors meeting as  
10 corrected. Carmen seconded the motion. The motion passed 5-0.  
11

12 **Treasurer's Report:**

13 *See attached Treasurer's Report for September 1, 2016.* The Board reviewed the Treasurer's  
14 Report and the current invoices. Carmen moved to graciously accept the Treasurer's Report and  
15 the Expenditure Register Report as recommended by the Treasurer, to accept the receipts and to  
16 authorize payment of the invoices just reviewed. Marty seconded. The Board voted  
17 unanimously to approve the motion.  
18

19 **Adjournment**

20 There being no further business, Marty made a motion to adjourn at 9:22. Chuck seconded. The  
21 motion passed 5-0.  
22

23 Respectfully submitted,  
24 *Jon Altshul*  
25

26 Attachment: *Treasurer's Report for September 1, 2016*  
27

September 1, 2016

**TREASURER'S REPORT  
2016 RECEIPTS AND BILLS**

**GENERAL FUND**

Real Estate Tax	\$2,556.88	Accounts Payable	\$396,386.98
Earned Income Tax	\$133,000.00	Electronic Prmts:	
Local Service Tax	\$20,100.00	Credit Card	\$3,331.10
Transfer Tax	\$64,712.99	Postage	\$0.00
General Fund Interest Earned	\$0.00	Debt Service	\$0.00
Total Other Revenue	\$160,752.79	Payroll	\$157,262.00
Total Receipts:	<u>\$381,122.66</u>	Total Expenditures:	<u>\$556,980.08</u>

**STATE LIQUID FUELS FUND**

Receipts	\$0.00		
Interest Earned	\$0.00		
Total State Liquid Fuels:	<u>\$0.00</u>	Expenditures:	<u>\$0.00</u>

**SINKING FUND**

Receipts	\$0.00	Accounts Payable	\$85,223.30
Interest Earned	\$35.68	Credit Card	\$0.00
Total Sinking Fund:	<u>\$35.68</u>	Total Expenditures:	<u>\$85,223.30</u>

**TRANSPORTATION FUND**

Receipts	\$396.25		
Interest Earned	\$0.00		
Total Sinking Fund:	<u>\$396.25</u>	Expenditures:	<u>\$0.00</u>

**SEWER OPERATING FUND**

Receipts	\$258,359.24	Accounts Payable	\$44,104.40
Interest Earned	\$2.75	Debt Service	\$0.00
Total Sewer:	<u>\$258,361.99</u>	Credit Card	\$642.17
		Total Expenditures:	<u>\$44,746.57</u>

**REFUSE FUND**

Receipts	\$48,713.14		
Interest Earned	\$2.76		
Total Refuse:	<u>\$48,715.90</u>	Expenditures:	<u>\$16,937.40</u>

**SEWER SINKING FUND**

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Sewer Sinking Fund:	<u>\$0.00</u>	Expenditures:	<u>\$8,743.17</u>

**OPERATING RESERVE FUND**

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Operating Reserve Fund:	<u>\$0.00</u>	Expenditures:	<u>\$0.00</u>

**Events Fund**

Receipts	\$0.00		
Interest Earned	\$0.00		
Total Events Fund:	<u>\$0.00</u>	Expenditures:	<u>\$0.00</u>

1

September 15, 2016

**TREASURER'S REPORT  
2016 RECEIPTS AND BILLS**

**GENERAL FUND**

Real Estate Tax	\$757.72
Earned Income Tax	\$231,844.22
Local Service Tax	\$17,113.62
Transfer Tax	\$70,076.62
General Fund Interest Earned	\$567.73
Total Other Revenue	\$30,728.99
<b>Total Receipts:</b>	<b>\$351,088.90</b>

Accounts Payable	\$165,787.75
<u>Electronic Pmts:</u>	
Credit Card	\$0.00
Postage	\$0.00
Debt Service	\$13,099.73
Payroll	\$105,752.02
<b>Total Expenditures:</b>	<b>\$284,639.50</b>

**STATE LIQUID FUELS FUND**

Receipts	\$0.00
Interest Earned	\$68.35
<b>Total State Liquid Fuels:</b>	<b>\$68.35</b>

Expenditures:	<b>\$0.00</b>
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**SINKING FUND**

Receipts	\$0.00
Interest Earned	\$402.51
<b>Total Sinking Fund:</b>	<b>\$402.51</b>

Accounts Payable	\$9,779.98
Credit Card	\$0.00
<b>Total Expenditures:</b>	<b>\$9,779.98</b>

**TRANSPORTATION FUND**

Receipts	\$0.00
Interest Earned	\$214.71
<b>Total Sinking Fund:</b>	<b>\$214.71</b>

Expenditures:	<b>\$0.00</b>
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**SEWER OPERATING FUND**

Receipts	\$53,132.78
Interest Earned	\$52.92
<b>Total Sewer:</b>	<b>\$53,185.70</b>

Accounts Payable	\$80,763.39
Debt Service	\$127,836.43
Credit Card	\$0.00
<b>Total Expenditures:</b>	<b>\$208,599.82</b>

**REFUSE FUND**

Receipts	\$20,959.72
Interest Earned	\$12.33
<b>Total Refuse:</b>	<b>\$20,972.05</b>

Expenditures:	<b>\$65,975.75</b>
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**SEWER SINKING FUND**

Receipts	\$0.00
Interest Earned	\$104.21
<b>Total Sewer Sinking Fund:</b>	<b>\$104.21</b>

Expenditures:	<b>\$19,952.94</b>
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**OPERATING RESERVE FUND**

Receipts	\$0.00
Interest Earned	\$275.52
<b>Total Operating Reserve Fund:</b>	<b>\$275.52</b>

Expenditures:	<b>\$0.00</b>
---------------	---------------

**Events Fund**

Receipts	\$0.00
Interest Earned	\$1.03
<b>Total Events Fund:</b>	<b>\$1.03</b>

Expenditures:	<b>\$0.00</b>
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**EAST GOSHEN TOWNSHIP  
MEMORANDUM**

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**TO:** BOARD OF SUPERVISORS  
**FROM:** BRIAN MCCOOL  
**SUBJECT:** PROPOSED PAYMENTS OF BILLS  
**DATE:** 09-15-2016

---

Please accept the attached Treasurer's Report and Expenditure Register Report for consideration by the Board of Supervisors. I recommend the Treasurer's Report and each register item be approved for payment.

General Fund expenses include \$33,059 for health insurance and \$42,991 for the first of four installments for workers compensation.

Sinking Fund expenses include \$2,500 for accessories for the new Peterbilt and \$7,279.98 for professional services for the Paoli Pike Trail.

Sewer Fund expenses include \$29,483 for rehab work to a manhole at White Chimneys. Also included is a \$97,000 principal payment for the diversion projects loan.

\$19,953 was charged to the Sewer Sinking Fund for equipment replacement at the Hunt Country Pump Station and the Ridley Creek Plant.

Please advise if the Board decides to make any changes or if the reports are acceptable as drafted.

EAST GOSHEN TOWNSHIP  
MONTHLY DEBT PAYMENT BREAKDOWN  
September 25, 2016

**GENERAL FUND:**

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$9,751.38	\$0	Multi purpose 9 projects	\$5,500,000	\$2,715,000	2023
\$2,973.95	\$0	Applebrook Park	\$3,000,000	\$879,000	2019
\$374.40	\$0	Spray Irrigation	\$287,000	\$108,000	2021

**SEWER FUND:**

Interest payment	Principal payment	Loan Description	Original loan amount	Remaining Principal	Retirement Date
\$996.40	\$0	Sewer Operations Munic Authority	\$1,128,000	\$282,000	2018
\$23,958.00	\$0	RCSTP Expansion	\$9,500,000	\$7,260,000	2032
\$5,882.03	\$97,000	Diversion Projects	\$2,500,000	\$2,218,000	2033



Report Date 09/12/16

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01	GENERAL FUND									
2226	21ST CENT.MEDIA-PHILLY #884433									
48560	1	01401	3400	ADVERTISING - PRINTING	1086854	09/12/16		09/12/16		169.50
				NOTICE - MILLTOWN PROPOSALS						
48560	2	01401	3400	ADVERTISING - PRINTING	1090043	09/12/16		09/12/16		84.03
				NOTICE - PLANNING COMMISSION						
48561	1	01401	3400	ADVERTISING - PRINTING	1094870	09/12/16		09/12/16		340.44
				NOTICE - E.G. BIDS - ROOF						
48561	2	01401	3400	ADVERTISING - PRINTING	1099678	09/12/16		09/12/16		71.08
				NOTICE - FUTURIST COMM.						
										665.05
7	ABEL BROTHERS TOWING & AUTO									
48562	1	01430	2330	VEHICLE MAINT AND REPAIR	111357	09/12/16		09/12/16		250.00
				TRAILER TOWING - RE: ACCIDENT						
										250.00
1657	AQUA PA									
48567	1	01409	3600	TWP. BLDG. - FUEL, LIGHT, WATER	082316 TB	09/12/16		09/12/16		129.90
				000309828 0309828 7/19-8/19/16 TB						
48568	1	01409	3600	TWP. BLDG. - FUEL, LIGHT, WATER	082316 FR	09/12/16		09/12/16		192.00
				000309820 0309820 7/19-8/19/16 FR						
48569	1	01409	3605	PW BLDG - FUEL,LIGHT,SEWER & WATER	082316 PW	09/12/16		09/12/16		207.47
				000496917 0309798 7/19-8/19/16 PW						
48570	1	01409	3600	TWP. BLDG. - FUEL, LIGHT, WATER	082616 BS	09/12/16		09/12/16		17.00
				000309801 0309801 7/22-8/24/16 BS						
										546.37
102	B&D COMPUTER SOLUTIONS									
48577	1	01401	3120	CONSULTING SERVICES	00003058	09/12/16		09/12/16		2,000.00
				AUGUST 2016						
										2,000.00
119	BEE.NET INTERNET SERVICES									
48576	1	01401	3210	COMMUNICATION EXPENSE	201609010	09/12/16		09/12/16		315.00
				SEPTEMBER 2016 BEE MAIL ACCTS.						
										315.00
176	BRITE STRIPE									
48583	1	01433	2450	MATERIALS & SUPPLIES - SIGNS	EG1604	09/12/16		09/12/16		330.00
				STRIPING STOP BARS - 5 LOCATIONS						
										330.00

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
01		GENERAL FUND								
197				BUCKLEY BRION MCGUIRE & MORRIS						
48581	1	01404	3140	LEGAL - ADMIN	10835	09/12/16		09/12/16		380.00
				LEGAL SERV. 8/1-8/04/16 APPLBRK/HIB						
48582	1	01404	3140	LEGAL - ADMIN	10813	09/12/16		09/12/16		552.90
				LEGAL SERV. 7/22 - 8/22/16						
48582	2	01413	3140	LEGAL - TWP CODE	10813	09/12/16		09/12/16		4,421.30
				LEGAL SERV. 7/22 - 8/22/16						
48582	3	01414	3142	LEGAL - CONDITIONAL USE	10813	09/12/16		09/12/16		19.00
				LEGAL SERV. 7/22 - 8/22/16						
										5,373.20
2675				CANDLESTICK COMMUNICATIONS						
48584	1	01401	3210	COMMUNICATION EXPENSE	R1608220900	09/12/16		09/12/16		85.00
				REMOTE DIAL IN TECH SUPPORT - XFER						
				FROM PICCOLA TO LEBLANC						
										85.00
3488				CINTAS CORPORATION #287						
48585	1	01409	3740	TWP. BLDG. - MAINT & REPAIRS	287613537	09/12/16		09/12/16		74.75
				WEEK END 9/7/16 CLEAN MATS						
48585	2	01487	1910	UNIFORMS	287613537	09/12/16		09/12/16		325.61
				WEEK END 9/7/16 CLEAN UNIFORMS						
48586	1	01409	3740	TWP. BLDG. - MAINT & REPAIRS	287603464	09/12/16		09/12/16		74.75
				WEEK END 8/17/16 CLEAN MATS						
48586	2	01487	1910	UNIFORMS	287603464	09/12/16		09/12/16		325.61
				WEEK END 8/17/16 CLEAN UNIFORMS						
48587	1	01409	3740	TWP. BLDG. - MAINT & REPAIRS	287610217	09/12/16		09/12/16		74.75
				WEEK END 8/31/16 CLEAN MATS						
48587	2	01487	1910	UNIFORMS	287610217	09/12/16		09/12/16		325.61
				WEEK END 8/31/16 CLEAN UNIFORMS						
48588	1	01409	3740	TWP. BLDG. - MAINT & REPAIRS	287608866	09/12/16		09/12/16		74.75
				WEEK END 8/24/16 CLEAN MATS						
48588	2	01487	1910	UNIFORMS	287608866	09/12/16		09/12/16		325.61
				WEEK END 8/24/16 CLEAN UNIFORMS						
										1,601.44
2233				DEIHM SERVICES						
48590	1	01430	2330	VEHICLE MAINT AND REPAIR	5880	09/12/16		09/12/16		1,027.65
				REPAIR FENDER - ACTERRA STERLING #8						
										1,027.65

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3613				DELAWARE VALLEY HEALTH TRUST						
	48591	1	01486 1560	HEALTH, ACCID. & LIFE SEPTEMBER 2016 PREMIUM - MED/RX	11827	09/12/16		09/12/16		32,248.17
	48591	2	01213 1000	DENTAL INSURANCE W/H SEPTEMBER 2016 PREMIUM - DENTAL	11827	09/12/16		09/12/16		810.61
										33,058.78
439				EDWARDS AUTOMOTIVE REPAIR						
	48592	1	01430 2330	VEHICLE MAINT AND REPAIR PA EMISSION INSPECT. 2007 FORD SW	5688	09/12/16		09/12/16		50.00
										50.00
3407				ETS EQUIPMENT TRADE SERVICE CO. INC.						
	48593	1	01438 2455	MATER. & SUPPLY-RESURFAC. TAR PITCHOUT REMOVER	1035608	09/12/16		09/12/16		347.95
										347.95
473				FASTSIGNS						
	48594	1	01401 2100	MATERIALS & SUPPLIES CLEAR DOOR SIGN INSERT - "CAROLYN LEBLANC"	368-44029	09/12/16		09/12/16		25.00
										25.00
2142				FLAGGER FORCE						
	48595	1	01438 3845	EQUIP. RENTAL -RESURFAC. FLAG CREWS 8/8/16 & 8/9/16	191841	09/12/16		09/12/16		2,113.44
										2,113.44
1970				GANNETT FLEMING COMPANIES						
	48596	1	01454 3718	MILLTOWN DAM ENGINEERING SERV. 7/2016 MILLTWN DAM	060466.02*20725	09/12/16		09/12/16		3,090.00
										3,090.00
3000				GARNET FORD						
	48597	1	01430 2330	VEHICLE MAINT AND REPAIR PARTS & LABOR REPAIR - 2012 FORD F-350	C98113	09/12/16		09/12/16		36.36
										36.36

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
2631	48598	1	01413 3000	GRAPHIC IMPRESSIONS OF AMERICA INC. GENERAL EXPENSE 2 PACKS - FIELD REPORTS	16-6853	09/12/16		09/12/16		178.00
										178.00
3131	48599	1	01401 3840	GREAT AMERICA FINANCIAL SERVICES RENTAL OF EQUIP. -OFFICE LANIER MP C5503 COPIER - SEPT.2016	19269351	09/12/16		09/12/16		305.00
										305.00
627	48601	1	01438 2450	HIGHWAY MATERIALS INC. MATERIALS & SUPPLIES-HIGHWAYS 2.55 TONS 9.5H .3<3 ASPHALT	11044878MB	09/12/16		09/12/16		111.82
										111.82
679	48603	1	01430 2330	INTERCON TRUCK EQUIPMENT VEHICLE MAINT AND REPAIR PROTECTION VALVES	1052553-IN	09/12/16		09/12/16		40.00
										40.00
2710	48602	1	01452 3204	INTERNATIONAL FIREWORKS MFG. CO. COMMUNITY DAY FIREWORKS DISPLAY 8/27/16	9021A	09/12/16		09/12/16		9,000.00
										9,000.00
3729	48604	1	01438 2460	JIMMY'S TREE & LANDSCAPE CONTRACTORS LLC TREE REMOVAL HUNT COUNTRY TRIMMING & PRUNING	RT122311-1	09/12/16		09/12/16		5,100.00
										5,100.00
719	48605	1	01437 2460	KEEN COMPRESSED GAS COMPANY GENERAL EXPENSE - SHOP GAS CYLINDERS	83102981	09/12/16		09/12/16		55.29
										55.29
2442	48606	1	01430 2330	KENT AUTOMOTIVE VEHICLE MAINT AND REPAIR DUAL WALL HS TUBING & PLUGS	9304305416	09/12/16		09/12/16		222.47
	48607	1	01430 2330	VEHICLE MAINT AND REPAIR VACUUM Y CONNECTORS, CABLE TIES, WIRE TIES, BUTT SPLICE CONNECTORS, SPINLOCK NUTS	9304305415	09/12/16		09/12/16		246.64
	48608	1	01430 2330	VEHICLE MAINT AND REPAIR 4" BLACK WIRE TIES	9304315259	09/12/16		09/12/16		25.31

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
-----										494.42
739				KNOX EQUIPMENT RENTALS INC.						
48609	1	01438	3840	EQUIPMENT RENTAL	01-360975-03	09/12/16		09/12/16		415.00
				GRINDER & TRAILER RENTAL 8/30/16						
48610	1	01454	3740	EQUIPMENT MAINT. & REPAIR	01-365048-02	09/12/16		09/12/16		389.50
				LOADER, SKID LOADER & AUGER RENTAL						
				8/22/16						
48611	1	01438	3840	EQUIPMENT RENTAL	001-360372-03	09/12/16		09/12/16		289.50
				GRINDER & TRAILER RENTAL 8/17/16						
-----										1,094.00
3308				LANG, JASON						
48612	1	01452	2000	SUMMER PROGRAM SUPPLIES	090716	09/12/16		09/12/16		35.38
				REIMBURSEMENT - YTH CAMP SUPPLIES						
				GIANT						
48612	2	01452	3000	GENERAL EXPENSE	090716	09/12/16		09/12/16		12.29
				REIMBURSEMENT - DCED CFA TRAIL APP.						
				POST OFFICE COPIES						
48612	3	01452	3509	ROBOTICS PROGRAM	090716	09/12/16		09/12/16		42.38
				REIMBURSEMENT - LEGO CAMP SUPPLIES-						
				CVS						
48612	4	01452	3717	HIGH SCHOOL ENTREPRENEURIAL ACADEMY	090716	09/12/16		09/12/16		21.97
				REIMBURSEMENT -ENTRE ACAD. SUPPLIES						
				GIANT						
48612	5	01452	3719	ROCKETRY SUMMER CAMP	090716	09/12/16		09/12/16		32.85
				REIMBURSEMENT - ROCKETRY CAMP						
				SUPPLIES - HOBBYTOWN						
-----										144.87
765				LENNI ELECTRIC CORPORATION						
48613	1	01434	3610	STREET LIGHTING	160821	09/12/16		09/12/16		117.00
				STREETLIGHT MAINT.CONTRACT JULY -						
				SEPTEMBER 2016						
-----										117.00
2861				LITTLE INC., ROBERT E.						
48614	1	01430	2330	VEHICLE MAINT AND REPAIR	03-423488	09/12/16		09/12/16		395.60
				CHAIN LINKS & BLADES						
-----										395.60

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
787	48615	1	01409 3740	LOW-RISE ELEVATOR CO. INC TWP. BLDG. - MAINT & REPAIRS BASIC MAINTENANCE - AUGUST 2016	67765	09/12/16		09/12/16		40.00
										40.00
2984	48619	1	01452 3204	METROPOLITAN FLAG & BANNER CO. COMMUNITY DAY VINYL BANNER- EAST GOSHEN COMMUNITY DAY SPONSORS 2016	12500	09/12/16		09/12/16		332.42
										332.42
2750	48621	1	01486 3500	MRM WORKER'S COMP. FUND INSURANCE COVERAGE -PREM. 1ST INSTALL. OF 4 POLICY# 1617-352	1617PRJ1306	09/12/16		09/12/16		42,990.50
										42,990.50
2693	48620	1	01454 3724	MULCH & MORE TOT LOT 50 CUBIC YDS PLAYGROUND MULCH	53454	09/12/16		09/12/16		1,500.00
										1,500.00
1641	48622	1	01430 2330	NAPA AUTO PARTS VEHICLE MAINT AND REPAIR FUEL, AIR & OIL FILTERS	2-673556	09/12/16		09/12/16		572.13
	48623	1	01430 2330	VEHICLE MAINT AND REPAIR CREDIT FOR CASTOR WHEELS	2-673152	09/12/16		09/12/16		-34.45
	48624	1	01430 2330	VEHICLE MAINT AND REPAIR CREDIT FOR BATTERY CORE RETURN	2-673310	09/12/16		09/12/16		-18.00
	48625	1	01430 2330	VEHICLE MAINT AND REPAIR 2 BATTERIES	2-673151	09/12/16		09/12/16		167.44
	48626	1	01430 2330	VEHICLE MAINT AND REPAIR BATTERY	2-673309	09/12/16		09/12/16		29.90
	48627	1	01430 2330	VEHICLE MAINT AND REPAIR 3/8" TEE	2-673312	09/12/16		09/12/16		3.69
	48628	1	01430 2330	VEHICLE MAINT AND REPAIR 15 WIPER BLADE SETS	2-673955	09/12/16		09/12/16		188.25
	48629	1	01430 2330	VEHICLE MAINT AND REPAIR LOW VIBE SHORT	2-674167	09/12/16		09/12/16		189.95
										1,098.91

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
1554				OFFICE DEPOT						
	48630	1	01401 2100	MATERIALS & SUPPLIES POST-IT FLAGS & BINDER CLIPS	859346581001	09/12/16		09/12/16		31.02
	48631	1	01401 2100	MATERIALS & SUPPLIES POLY FILE FOLDERS	859352515001	09/12/16		09/12/16		24.59
	48632	1	01401 2100	MATERIALS & SUPPLIES LTR.EXPANDING FOLDER, FOLDERS & TAPE	860263401001	09/12/16		09/12/16		80.24
										135.85
375				PA DEPT. OF LABOR & INDUSTRY						
	48635	1	01413 3000	GENERAL EXPENSE UCC RECERTIFICATION - G.ALTHOUSE	090716	09/12/16		09/12/16		50.00
										50.00
1022				PATTERSON, MICHAEL J.						
	48633	1	01454 3740	EQUIPMENT MAINT. & REPAIR REVITALIZE 530'-3 HOLE SPLIT RAIL FENCE	081616-1	09/12/16		09/12/16		2,800.00
	48634	1	01409 3740	TWP. BLDG. - MAINT & REPAIRS REMOVE AND REPLACE GATE FRAME	081616-2	09/12/16		09/12/16		3,400.00
										6,200.00
2352				PECO - 99193-01400						
	48639	1	01434 3610	STREET LIGHTING 99193-01400 7/26-8/24/16	083016	09/12/16		09/12/16		783.27
	48639	2	01433 2470	UTILITIES - TRAFFIC LIGHTS 99193-01400 7/26-8/24/16	083016	09/12/16		09/12/16		667.85
										1,451.12
3153				PECO - 01360-05046						
	48637	1	01409 7505	BOOT & PAOLI LED SIGN 1360-05046 7/28-8/26/16 BOOT RD.LED	082916	09/12/16		09/12/16		52.40
										52.40
1555				PECO - 45168-01609						
	48638	1	01409 3840	DISTRICT COURT EXPENSES 45168-01609 7/23-8/23/16 GAS	082516	09/12/16		09/12/16		28.42
	48638	2	01409 3605	PW BLDG - FUEL,LIGHT,SEWER & WATER 45168-01609 7/23-8/23/16 ELECTRIC	082516	09/12/16		09/12/16		748.18
										776.60

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2591	48636	1	01454 3600	PECO - 59500-35010 UTILITIES 59500-35010 7/25-8/23/16 POND PUMP	082516	09/12/16		09/12/16		36.08
										36.08
1785	48640	1	01401 3000	PENNSYLVANIA STATE POLICE GENERAL EXPENSE R16777025 BKGRND.CHECK - C.LEBLANC	090216	09/12/16		09/12/16		8.00
										8.00
1082	48641	1	01436 3840	PIPE DATA VIEW STORMWATER EQUIPMENT RENTAL VACUUM INLETS & STORM LINES- GOSHEN DOWNS & MARY DELL	15325	09/12/16		09/12/16		3,100.00
										3,100.00
2445	48643	1	01409 3840	PROTECTION BUREAU, THE DISTRICT COURT EXPENSES REPAIR PUBLIC LOBBY DOOR - DIST.CT.	185684	09/12/16		09/12/16		73.48
										73.48
1876	48644	1	01438 3845	RANSOME RENTAL COMPANY LP EQUIP. RENTAL -RESURFAC. TRACK LOADER & PLANER RENTAL 8/8- 8/10/16	K19979-01	09/12/16		09/12/16		2,491.00
										2,491.00
3731	48660	1	01452 3204	RINEHART'S SANITATION SERVICES INC. COMMUNITY DAY COMFORT STATIONS - COMMUNITY DAY	414-718618	09/12/16		09/12/16		1,392.60
										1,392.60
1212	48645	1	01430 2330	SAYRE INC., G.I. VEHICLE MAINT AND REPAIR STRAP ASSEMBLY	1-262350080	09/12/16		09/12/16		21.87
										21.87
1783	48646	1	01411 6000	STATE WORKERS INSURANCE FUND VOLUNTEER FIREFIGHTER WORKERS COMP INSTALL. 10 OF 11 POL.# 05918452	090116	09/12/16		09/12/16		3,831.00
										3,831.00



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2942	48665	1	01401 3210	VERIZON WIRELESS COMMUNICATION EXPENSE JULY 21 - AUGUST 20, 2016 WIRELESS	9770648020	09/12/16		09/12/16		921.12
										921.12
2868	48661	1	01409 3840	VERIZON-1420 DISTRICT COURT EXPENSES AUGUST 16 - SEPTEMBER 15, 2016	081616-1420	09/12/16		09/12/16		81.30
										81.30
1727	48666	1	01454 3724	WEAVER MULCH LLC TOT LOT 28 CUBIC YDS SAFE COVER	403701	09/12/16		09/12/16		560.00
										560.00
1471	48667	1	01452 3204	WESTTOWN-EAST GOSHEN POLICE COMMUNITY DAY SPECIAL DETAIL - COMMUNITY DAY	985	09/12/16		09/12/16		3,000.00
										3,000.00
1983	48668	1	01454 3740	YALE ELECTRIC SUPPLY CO EQUIPMENT MAINT. & REPAIR BROAN FAN	S106185326.001	09/12/16		09/12/16		128.09
	48669	1	01454 3740	EQUIPMENT MAINT. & REPAIR CEILING SENSOR	S106161346.001	09/12/16		09/12/16		89.98
										218.07

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03				SINKING FUND						
864				METROPOLITAN COMMUNICATIO						
	48618	1	03430 7400	CAPITAL REPLACEMENT - HWY EQUIP STUD MOUNT LIGHTS, AMBER & WHITE LED REAR LIGHTS, REAR VIEW CAMERA SYSTEM NEW TRUCK	IN000103939	09/12/16		09/12/16		2,500.00
										2,500.00

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
05				SEWER OPERATING						
3140				ACE DISPOSAL CORP						
48563	1	05420	3702	C.C. COLLEC.-MAINT.& REPR. STAND BY TIME 8/16-8/17/16	107298	09/12/16		09/12/16		8,812.50
48564	1	05422	3700	R.C. STP-MAINT.& REPAIRS GRIT REMOVAL - TOWNE DR. 8/17/16	107299	09/12/16		09/12/16		125.00
										8,937.50
2918				ALS ENVIRONMENTAL						
48566	1	05422	4500	R.C. STP-CONTRACTED SERV. LAB TESTS - 7/26-8/9/16	40-2086843	09/12/16		09/12/16		354.00
										354.00
1658				AQUA PA						
48571	1	05420	3602	C.C. COLLECTION -UTILITIES 000305003 0305003 7/25-8/25/16 WW	082916 WW	09/12/16		09/12/16		27.50
48572	1	05420	3602	C.C. COLLECTION -UTILITIES 000309826 0309826 7/22-8/24/16 TH	082616 TH	09/12/16		09/12/16		21.00
48573	1	05420	3602	C.C. COLLECTION -UTILITIES 000363541 0357724 7/19-8/19/16 BK	082316 BK	09/12/16		09/12/16		16.00
48574	1	05420	3602	C.C. COLLECTION -UTILITIES 000300141 0300141 7/19-8/19/16 GH	082316 GH	09/12/16		09/12/16		16.00
48575	1	05422	3601	R.C. COLLEC.-UTILITIES 001533998 1087842 7/22-8/24/16 TWN	082616 TWN	09/12/16		09/12/16		76.70
										157.20
151				BLOENSKI DISPOSAL CO, CHARLES						
48578	1	05422	4502	R.C. SLUDGE-LAND CHESTER SWITCH 20 YDS WITH LINER 8/29	15036	09/12/16		09/12/16		181.00
48579	1	05422	4502	R.C. SLUDGE-LAND CHESTER SWITCH 20 YDS WITH LINER 8/22	15001	09/12/16		09/12/16		181.00
										362.00
197				BUCKLEY BRION MCGUIRE & MORRIS						
48580	1	05429	3140	ADMIN - LEGAL LEGAL SERV. 8/2-8/23/16	10848	09/12/16		09/12/16		85.80
										85.80
317				CONTRACTOR'S CHOICE						
48589	1	05422	3702	R.C. COLLECTION-MAINT. & REP I&I SENCO PNEUMATIC CONCRETE PINNER, PINS, WASHERS & NIPPLES	00204051	09/12/16		09/12/16		738.15
										738.15



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2773				VERIZON - PW FIOS 0001-15						
	48662	1	05422	3601 R.C. COLLEC.-UTILITIES	0001-15 82716	09/12/16		09/12/16		89.99
				AUG. 28 - SEPT. 27, 2016 PW FIOS						
										89.99

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06		REFUSE								
2762				AJB A.J. BLOSENSKI INC.						
48565	1	06427	4500	CONTRACTED SERV.	69103122	09/12/16		09/12/16		56,396.70
				RESIDENTIAL PICK-UP SEPTEMBER 2016						
48565	2	06427	4500	CONTRACTED SERV.	69103122	09/12/16		09/12/16		-26.47
				LESS COST OF RESIDENT'S DAMAGED TRASHCAN						
										56,370.23
197				BUCKLEY BRION MCGUIRE & MORRIS						
48580	2	06427	3140	LEGAL SERVICES	10848	09/12/16		09/12/16		85.80
				LEGAL SERV. 8/2-8/23/16						
										85.80
1354				CHESTER COUNTY, TREASURER OF						
48657	1	06427	4503	COUNTY-HAZARD.WASTE PROG.	083116	09/12/16		09/12/16		2,295.04
				HOUSEHOLD HAZARDOUS WASTE EVENTS						
										2,295.04
3730				LEVY, STEWART						
48616	1	06427	4500	CONTRACTED SERV.	082616	09/12/16		09/12/16		26.47
				REIMBURSEMT RE: DAMAGED TRASHCAN						
										26.47
										238,925.61
										0 Printed, totaling 238,925.61

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	143,648.48	GENERAL FUND
03	03	2,500.00	SINKING FUND
05	05	33,999.59	SEWER OPERATING
06	06	58,777.54	REFUSE
		238,925.61	

PERIOD SUMMARY

Period	Amount
1609	238,925.61
	238,925.61

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-----										
09	Sewer Capital Reserve Fund									
3729	JIMMY'S TREE & LANDSCAPE CONTRACTORS LLC									
48670	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT REMOVE PINE TREES & CHIP HUNT CNTRY	RT122311-2	09/13/16	09/13/16	09/13/16	913 p	1,780.00
										1,780.00
797	M&S SERVICE COMPANY									
48671	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT HUNT CTRY.PS - MICRO VPAC IIT LEVEL CONTROLLER & POWER SUPPLY	1682-16	09/13/16	09/13/16	09/13/16	914 p	2,501.13
48672	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT REPLACE ANALOG INPUT MODULE DUE TO LIGHTNING STRIKES	1727-16	09/13/16	09/13/16	09/13/16	914 p	1,988.00
										4,489.13
2342	POWERPRO EQUIPMENT									
48673	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT ASPEN FIELDSTONE - HUNT COUNTRY	PO9339	09/13/16	09/13/16	09/13/16	915 p	3,014.15
48674	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT ASPEN FIELDSTONE - HUNT COUNTRY	PO9338	09/13/16	09/13/16	09/13/16	915 p	1,721.20
48675	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT 48" LINTEL 4"X8"	PO9849	09/13/16	09/13/16	09/13/16	915 p	75.80
										4,811.15
1983	YALE ELECTRIC SUPPLY CO									
48676	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT ELECTRICAL SUPPLIES- HUNT CNTRY.	S106154168.001	09/13/16	09/13/16	09/13/16	917 p	228.24
										228.24

11,308.52  
4 Prepays, totaling 11,308.52  
0 Printed, totaling 0.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
09	09	11,308.52	Sewer Capital Reserve Fund
		11,308.52	

PERIOD SUMMARY

Period	Amount
1609	11,308.52
	11,308.52

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
09				Sewer Capital Reserve Fund						
2360				AQUILANTE CONCRETE						
48685	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT 4.5 CONCRETE AND HAULING	40941	09/15/16	09/15/16	09/15/16	919 p	607.50
										607.50
797				M&S SERVICE COMPANY						
48686	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT SPARE PARTS FOR CONTROL PANELS	1727-16A	09/15/16	09/15/16	09/15/16	920 p	7,198.82
										7,198.82
2342				POWERPRO EQUIPMENT						
48687	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT 3X8X16 SOLID PIER - HUNT CNTRY.	P09919	09/15/16	09/15/16	09/15/16	921 p	19.20
48688	1	09409	7400	MACHINERY/EQUIPMENT - REPLACEMENT 12" & 8" GRAY BLOCK & 96" LINTEL	P09618	09/15/16	09/15/16	09/15/16	921 p	818.90
										838.10
										8,644.42
										3 Prepays, totaling 8,644.42
										0 Printed, totaling 0.00

FUND SUMMARY

Fund	Bank Account	Amount	Description
09	09	8,644.42	Sewer Capital Reserve Fund
		8,644.42	

PERIOD SUMMARY

Period	Amount
1609	8,644.42
	8,644.42

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01	GENERAL FUND									
1903	ALTHOUSE, GARY									
48691	2	01401	3300	AUTO ALLOWANCE	090816	09/15/16		09/15/16		59.94
				MILEAGE REIMBRSMNT - 111 MILES @.54						
48691	3	01401	3000	GENERAL EXPENSE	090816	09/15/16		09/15/16		4.62
				REIMBURSMNT FOR TOLLS - PENNBOC MTG						
-----										64.56
68	AMS APPLIED MICRO SYSTEMS LTD.									
48696	1	01401	3120	CONSULTING SERVICES	62552	09/15/16		09/15/16		597.00
				AUGUST 2016						
48696	2	01414	5001	ZONING IT CONSULTING	62552	09/15/16		09/15/16		28.00
				AUGUST 2016 - GEO PLAN						
-----										625.00
1657	AQUA PA									
48694	1	01411	3630	HYDRANT & WATER SERVICE	090116 HY6	09/15/16		09/15/16		137.52
				000309987 0309987 7/29-8/31/16 HY6						
48695	1	01411	3630	HYDRANT & WATER SERVICE	090116 279	09/15/16		09/15/16		4,696.50
				000310033 0310033 7/29-8/31/16 186						
48695	2	01411	3631	HYDRANTS - RECHARGE EXPENSE	090116 279	09/15/16		09/15/16		2,348.25
				000310033 0310033 7/29-8/31/16 93						
-----										7,182.27
82	ASSOCIATED TRUCK PARTS									
48690	1	01430	2330	VEHICLE MAINT AND REPAIR	85835	09/15/16		09/15/16		40.24
				LED TAIL LAMP						
-----										40.24
1198	BRANDYWINE VALLEY SPCA									
48697	1	01410	5400	S.P.C.A. CONTRACT	108	09/15/16		09/15/16		400.00
				STRAY ANIMAL RECV'D & PICKUP 7/2016						
48698	1	01410	5400	S.P.C.A. CONTRACT	168	09/15/16		09/15/16		300.00
				STRAY ANIMAL RECV'D & PICKUP 8/2016						
-----										700.00
3249	COMCAST 8499-10-109-0107712									
48701	1	01401	3210	COMMUNICATION EXPENSE	090216	09/15/16		09/15/16		105.75
				0107712 9/5-10/4/16 EG.PARK LED						
-----										105.75

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3490	48702	1	01401 3210	COMCAST 8499-10-109-0111284 COMMUNICATION EXPENSE 0111284 9/9-10/8/16 SPEC.VIDEO PW	090216	09/15/16		09/15/16		19.04
										19.04
1990	48703	1	01401 2100	CRYSTAL SPRINGS MATERIALS & SUPPLIES COFFEE, SPLENDA, CREAMER & SUGAR	3154612 090216	09/15/16		09/15/16		122.76
										122.76
489	48704	1	01438 2450	FISHER & SON COMPANY INC MATERIALS & SUPPLIES-HIGHWAYS BUILDERS GRASS SEED 6 BAGS	0000164982-IN	09/15/16		09/15/16		330.00
										330.00
497	48705	1	01430 2330	FLOTRAN PNEU-DRAULICS INC VEHICLE MAINT AND REPAIR 6K NON-MARKING	I48054-001	09/15/16		09/15/16		101.40
										101.40
2717	48707	1	01433 2500	HIGGINS & SONS INC., CHARLES A. MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR 1) CHESTR & GREEN HILL 2)N.CHESTER & MANLEY 3) PAOLI PK.& ELLIS 4) STRASBG & RESERVOIR	42731	09/15/16		09/15/16		2,543.43
48708	2	01433 2500		MAINT. REPAIRS.TRAFF.SIG. TRAF.LIGHT REPAIR - BOOT & VILLAGE SQUARE	42809	09/15/16		09/15/16		833.00
48709	1	01433 2500		MAINT. REPAIRS.TRAFF.SIG. TURN ON SCHOOL FLASHERS	42782	09/15/16		09/15/16		97.50
										3,473.93
627	48710	1	01438 2450	HIGHWAY MATERIALS INC. MATERIALS & SUPPLIES-HIGHWAYS 2.54 TONS 9.5H .3<3 ASPHALT	11044914MB	09/15/16		09/15/16		111.38
										111.38
2442	48711	1	01454 2000	KENT AUTOMOTIVE MAINTENANCE SUPPLIES AERO WASP KILLER	9304315260	09/15/16		09/15/16		592.06
										592.06

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864	48715	1	01430 2600	METROPOLITAN COMMUNICATIO MINOR EQUIP. PURCHASE MOTOROLA CP200	IN000103949	09/15/16		09/15/16		400.00
										400.00
2693	48716	1	01454 3710	MULCH & MORE LANDSCAPING 10 CYDS BLACK DYED MULCH	53548	09/15/16		09/15/16		300.00
										300.00
1540	48717	1	01452 3710	NELSON, PAMELA ZUMBA ZUMBA INSTRUCTION 4/22-9/14/16	091416	09/15/16		09/15/16		869.55
										869.55
3679	48722	1	01401 3210	NETCARRIER TELECOM INC. 67846 COMMUNICATION EXPENSE 9/1/16 - 9/30/16	398998	09/15/16		09/15/16		373.52
										373.52
3680	48723	1	01401 3210	NETCARRIER TELECOM INC. 67891 COMMUNICATION EXPENSE 9/1/16 - 9/30/16	399005	09/15/16		09/15/16		134.36
										134.36
1544	48725	1	01414 3000	PA CHAPTER - AMERICAN PLANNING ASSN. CODE BOOKS/OTHER ANNUAL CONFERENCE OCTOBER 2016	091416	09/15/16		09/15/16		348.00
										348.00
1002	48731	1	01401 3000	PA MUNICIPAL LEAGUE GENERAL EXPENSE 2016 L3P MEMBERSHIP	39682	09/15/16		09/15/16		65.00
										65.00
2593	48726	1	01454 3600	PECO - 18510-39089 UTILITIES 18510-39089 8/2-8/31/16 BOW TR.PUMP	090616	09/15/16		09/15/16		26.73
										26.73

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1032				PECO - 99193-01302						
	48727	1	01409 3600	TWP. BLDG. - FUEL, LIGHT, WATER 99193-01302 7/26-8/24/16	090616	09/15/16		09/15/16		2,135.23
	48727	2	01454 3600	UTILITIES 99193-01302 7/26-8/24/16	090616	09/15/16		09/15/16		87.47
										2,222.70
1005				PENNSYLVANIA ONE CALL SYSTEM						
	48730	1	01438 3840	EQUIPMENT RENTAL MONTHLY ACTIVITY - AUGUST 2016	0000695903	09/15/16		09/15/16		58.57
										58.57
1193				RUBINSTEIN'S						
	48732	1	01401 2100	MATERIALS & SUPPLIES SPACE CHAIR	732436-0	09/15/16		09/15/16		390.00
										390.00
3724				WATCO INDUSTRIAL FLOORING INC.						
	48734	1	01438 2450	MATERIALS & SUPPLIES-HIGHWAYS FLOWPATCH CONCRETE & MIXING BLADE	PSI-372945	09/15/16		09/15/16		1,165.60
										1,165.60

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03		SINKING FUND								
3551				MCMAHON ASSOCIATES INC.						
	48713	1	03460 7403	PAOLI PK. TRAIL - SEGMENT C	149839	09/15/16		09/15/16		7,279.98
				PROF. SERVICE PAOLI PK TRAIL SEGMENT C						
				JULY 2016						
										7,279.98



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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
3676	48719	1 05422	3600	NETCARRIER TELECOM INC. 67890 R.C STP -UTILITIES 9/1/16 - 9/30/16	399004	09/15/16		09/15/16		43.08
										43.08
3677	48720	1 05420	3602	NETCARRIER TELECOM INC. 67887 C.C. COLLECTION -UTILITIES 9/1/16 - 9/30/16	399001	09/15/16		09/15/16		48.19
										48.19
3678	48721	1 05420	3602	NETCARRIER TELECOM INC. 67888 C.C. COLLECTION -UTILITIES 9/1/16 - 9/30/16	399002	09/15/16		09/15/16		48.31
										48.31
3725	48724	1 05420	3702	NETCARRIER TELECOM INC. 68255 C.C. COLLEC.-MAINT.& REPR. 9/1/16 - 9/30/16	399152	09/15/16		09/15/16		48.93
										48.93
1031	48728	1 05420	3602	PECO - 99193-01204 C.C. COLLECTION -UTILITIES 99193-01204 7/26-8/29/16	090616			09/15/16		394.11
	48728	2 05420	3600	C.C. METERS - UTILITIES 99193-01204 7/26-8/29/16	090616			09/15/16		10.08
	48728	3 05422	3601	R.C. COLLEC.-UTILITIES 99193-01204 7/26-8/29/16	090616			09/15/16		67.83
	48728	4 05422	3600	R.C STP -UTILITIES 99193-01204 7/26-8/29/16	090616			09/15/16		10,149.49
										10,621.51
1035	48729	1 05422	3700	PENDERGAST SAFETY EQUIP. R.C. STP-MAINT.& REPAIRS GAS MONITOR W/PUMP & VEHICLE CHGR.	1083900-01	09/15/16		09/15/16		833.70
										833.70
1005	48730	2 05422	3701	PENNSYLVANIA ONE CALL SYSTEM R.C. COLLEC.-MAINT.& REPR MONTHLY ACTIVITY - AUGUST 2016	0000695903	09/15/16		09/15/16		58.56
	48730	3 05420	3701	C.C. INTERCEPT.-MAINT.&REP MONTHLY ACTIVITY - AUGUST 2016	0000695903	09/15/16		09/15/16		58.56
										117.12

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
05				SEWER OPERATING						
2231				ULINE						
	48733	1	05422 3700	R.C. STP-MAINT.& REPAIRS	79547844	09/15/16		09/15/16		121.34
				24OZ SPRAY BOTTLES & 5 GL.RED PAILS						
										121.34

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Vendor	Req #	Budget#	Sub#	Description	Invoice Number	Req Date	Check Dte	Recpt Dte	Check#	Amount
06				REFUSE						
241				C.C. SOLID WASTE AUTHORITY						
	48700	1	06427 4502	LANDFILL FEES	44857	09/15/16		09/15/16		7,198.21
				WEEK 8/23/16 -8/30/16						
										7,198.21
										81,064.41
0 Printed, totaling										81,064.41

FUND SUMMARY

Fund	Bank Account	Amount	Description
01	01	19,822.42	GENERAL FUND
03	03	7,279.98	SINKING FUND
05	05	46,763.80	SEWER OPERATING
06	06	7,198.21	REFUSE
		81,064.41	

PERIOD SUMMARY

Period	Amount
1609	81,064.41
	81,064.41