

Project Name: Stormwater Utility Fund

Project Number: C-97166-2019

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Work Completed in 2018:

Road Reconstruction

- The concrete curbs under the Road Reconstruction Project were completed.
- Storm infrastructure was installed on:
 - Richland Road (Storm Sewer Extension and Drainage Improvements)
 - Bridgewater Drive (Drainage Improvements and Roof Drain Collection Line)
 - Elm Spring Road (Green Infrastructure and Roof Drain Collection Line)
 - Mayfair Drive (Drainage Improvements)
 - Mohican Drive (Drainage Improvements)
 - Pat Haven Drive (Drainage Improvements and Roof Drain Collection Line)
 - Ridgeview Drive (Drainage Improvements)
 - Theodan Drive (Drainage Improvements)
 - Twin Hills Drive (Drainage Improvements)

**Municipal Separate Storm Sewer System (MS4 Permit) - Federal Permit Required for the discharge of
Municipal storm sewers**

- A Municipal Stakeholders group was formed
- Environmental Sustainability Board discussions occurred
- Attended trainings on new permit requirements
- Participated in an inspection of the Municipality's MS4 program with the DEP
- The Application for the new MS4 Permit was completed including:
 - Notice of Intent (NOI) to Apply for a new permit
 - Preparation of a Pollutant Reduction Plan (PRP)
 - Preparation of a Total Maximum Daily Load (TMDL) Plan

Storm Sewer CCTV

- Various Storm Sewers throughout the Municipality were televised to determine the connectivity of the sewers and their condition. Necessary repairs were completed as they were discovered.

Capital Projects Completed in 2018:

- **Crystal Drive / Milbeth Drive Storm Sewer Installation Project**

Prior to the completion of this project, storm water from Crystal Drive traveled through the rear yards of the residents along Milbeth Drive, before draining onto Milbeth Drive. This storm water was causing flooding problems for the residents along Milbeth Drive. In order to correct the flooding issue, additional storm sewers and inlets were installed along Milbeth Drive, through the yards to Crystal Drive, and at the end of Crystal Drive. Easements from the owners were obtained and the project was completed in the fall of 2018.

- **Craigview Drive Storm Sewer Installation Project**

Prior to the completion of this project, storm water from the hillside traveled through the rear yards of the residents along Craigview Drive before reaching the roadway. This storm water was causing flooding and icing problems for the Craigview Drive residents. In order to correct the issue, additional storm sewers and inlets were installed along Craigview Drive. The project was completed in the fall of 2018.

- **Vee Lynn Storm Sewer Installation Project**

Prior to the completion of this project, storm water from the hillside drained on to the roadway and traveled along Vee Lynn Drive. This storm water was causing icing problems for the Vee Lynn Drive residents. In order to correct the issue, additional storm sewers were installed to capture the storm water before it became an icing issue along Vee Lynn Drive. The project was completed in the fall of 2018.

- **Public Works Culvert Repair Project**

Portions of the 96" diameter pipe passing through the Public Works Yard were repaired and/or replaced as a result of damage incurred to the culvert during the June 2018 storm event.

2019 Proposed Capital Projects:

Ella Street - Storm Sewer Project – Properties along Ella Street experience flooding issues during large storm events from storm water that flows from Parkview Drive, which is located upstream in the watershed. A due diligence study will be performed, and easements executed to add additional storm infrastructure to capture and collect stormwater runoff from Parkview Drive.

Thornycroft Avenue / Thornwood Drive - Storm Sewer Improvements – Properties along Thornwood Drive and Thornycroft Avenue experience flooding issues during large storm events from storm water that flows from the Mt. Lebanon Golf Course, which is located upstream of the properties. A rock-lined swale and storm sewer pipe are being designed to capture storm water that flows from the golf course and convey it to the stream that runs adjacent to Thornwood Drive, reducing the amount of storm water that drains to these properties.

Mohawk Drive - Storm Sewer Improvements – The property at 212 Mohawk Drive experiences flooding issues during large storm events from storm water that flows from Washington Road and Ordale Boulevard, which is located upstream of the property. A due diligence study will be performed to investigate where additional storm inlets can be added to capture and collect stormwater runoff prior to reaching 212 Mohawk Drive.

Foxland Drive - Storm Sewer Improvements - Properties along Foxland Drive experience flooding issues during large storm events from storm water that flows from Parkview Drive and Corace Drive, which are located upstream in the watershed. A due diligence study will be performed to investigate where additional storm inlets can be added to capture and collect stormwater runoff prior to reaching the properties along Foxland Drive.

Public Works Culvert Improvements – Additional repairs to the invert (bottom of the pipe) will be completed as a result of damage incurred to the culvert during the June 2018 storm event.

Financial Summary

The following is the approximate Financial Summary for the Projects Complete:

Project Name	Cost
Reconstruction	
2012 Curbs	\$ 377,179.50
2012 Storm Extension	\$ 96,140.00
2013 Curbs	\$ 432,072.50
2013 Storm Extension	\$ 232,196.36
2014 Curbs	\$ 420,749.00
2014 Storm Extension	\$ 190,806.00
2015 Curbs	\$ 546,314.05
2015 Storm Extension	\$ 117,019.24
2016 Curbs	\$ 487,823.60
2016 Storm Extension	\$ 238,541.80
2017 Curbs	\$ 515,716.54
2017 Storm Extension	\$ 180,948.96
2018 Curbs – Not Yet Finalized*	\$ 540,255.00
2018 Storm Extension – Not Yet Finalized*	\$ 140,869.60
Sub-Total Reconstruction	\$ 4,516,632.15

2012 Storm Sewer Projects	
Serpentine Storm Sewer	\$ 61,520.08
Lindendale Storm Sewer	\$ 35,640.01
Adeline Storm Sewer	\$ 32,854.10
Sunrise Storm Sewer	\$ 8,060.00
Elatan Storm Sewer	\$ 57,414.06
Abbeyville Storm Sewer	\$ 9,031.43
Klett Storm Sewer	\$ 2,456.19
Broadmoor Storm Sewer	\$ 3,141.85

Crystal Drive Storm Sewer	\$	2,418.57
Cochran & Cedar Inlets	\$	12,394.90
Oak Park Place Inlets	\$	5,705.10
Scrubgrass Road Stream Rehabilitation	\$	162,065.21
Storm Sewer CCTV	\$	2,464.02
Sub-Total 2012 Storm Projects	\$	395,165.52

2013 Storm Sewer Projects		
*Bid in 2013, construction in 2014		
Jefferson Drive Storm Sewer - Emergency	\$	33,217.83
Kurt Drive Storm Sewer	\$	10,841.46
Elatan Drive Storm Sewer	\$	20,976.33
Castle Shannon Storm Sewer	\$	38,917.87
Morrison Inlet Installation	\$	6,900.00
Ice Spots (Piper, Cochran, Park Entrance, Sandrae, Lindendale)	\$	127,279.02
Academy Avenue Storm Sewer	\$	87,359.59
Moreland Hillside Failure	\$	9,435.76
Sleepy Hollow	\$	179,714.41
Washington-Navahoe Storm Sewer	\$	56,971.80
PA DOT Drainage Improvements	\$	30,000.00
Sub-Total 2013 Storm Projects	\$	601,614.07

2014/2015 Storm Sewer Projects		
*Projects that were designed in 2015, constructed in 2016.		
Scrubgrass Retaining Wall Rehabilitation	\$	12,405.00
Mapleton Sanitary and Storm Improvements	\$	536,120.00
Lindendale Drive Retaining Wall *	\$	135,585.50
Storm Sewer CCTV	\$	30,000.00
Arden Drive Storm Sewer Extension	\$	34,000.00
Parkside Drive Inlet Replacement	\$	12,560.00
Roycroft Swale Maintenance	\$	1,350.00
Washington Road Icing Issue	\$	10,120.00
Orchard Drive Pipe Burst	\$	69,500.00
Beverly Road Storm Sewer	\$	79,390.00
Sub-Total 2014/2015 Storm Projects	\$	921,030.50

2016 Storm Sewer Projects		
Longevue/Woodhaven Storm Sewer	\$	758,787.31
Roycroft/Mt. Lebanon Boulevard Storm Sewer Installation	\$	110,933.47
Orchard Drive Storm Sewer Re-route Project	\$	161,778.00
Public Works Culvert Repair	\$	59,617.65
Sub-Total 2016 Storm Projects	\$	1,091,116.43

2017 Storm Sewer Projects	
Elm Spring/Scrubgrass Road Emergency Repair	\$ 26,988.80
Jefferson Drive Emergency Repair	\$ 5,386.39
Sub-Total 2017 Storm Projects	\$ 32,375.19

2018 Storm Sewer Projects	
Crystal/Milbeth Storm Sewer	\$ 90,679.94
DPW Yard Culvert Emergency Repairs	\$ 184,437.97
Elm Spring/Scrubgrass Culvert Repair	\$ 37,966.75
Craigview Drive Storm Sewer Extension	\$ 28,852.74
Vee Lynn Drive Storm Sewer Extension	\$ 14,395.11
Storm Sewer Point Repairs	\$ 41,248.46
Sub-Total 2018 Storm Projects	\$ 397,580.97

Public Works Projects	
Clean and Maintain Inlets & Outfalls	
Inlet Repairs	
Repair damaged Storm Sewer	
Repair Vane Grates	
Installation of underdrain around the swimming pool	

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