



**LEHIGH COUNTY AUTHORITY**

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March 30, 2018

Mr. Darryl Fritz  
Acting Planning Chief  
Pennsylvania Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, PA 18711-0790

Re: Sewer Capacity Assurance and Rehabilitation Program 2017 Annual Report

Dear Mr: Fritz:

Lehigh County Authority (LCA) is pleased to submit the 2017 annual Sewer Capacity Assurance and Rehabilitation Program (SCARP) report on behalf of the Western Lehigh Sewerage Partnership (WLSP). The report follows Section 5.6 of the SCARP plan document where applicable, and includes Development Flow Credit reports as outlined in LCA's April 29, 2010 letter to the Department.

If you have any questions or wish to discuss any matters presented in this report, please feel free to contact me at [lieselgross@lehighcountyauthority.org](mailto:lieselgross@lehighcountyauthority.org) or 610-398-2503.

Sincerely,

Liesel M. Gross  
Chief Executive Officer

cc: Pat Mandes, Chief Compliance Officer  
John Parsons, Chief Operating Officer  
Anthony Dill, Arcadis  
Jim Shelton, Arcadis  
Tim Miller, Keystone Consulting Engineers  
WLSP



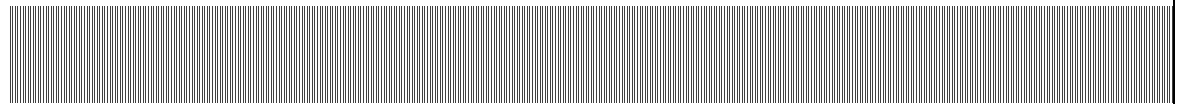
UPPER MACUNGIE TOWNSHIP AUTHORITY  
LOWHILL TOWNSHIP



# Pennsylvania Department of Environmental Protection – Annual Report of Activities *January 1, 2017 to December 31, 2017*

## Western Lehigh Sewerage Partnership

March 2018



Report Prepared By:

**ARCADIS**

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DEV\Project\0247 -  
LCA\511- SCARP Program  
Management\PADEP  
Annual  
Reports\2017\WLS.P



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# 1. Introduction

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The Pennsylvania Department of Environmental Protection (PADEP) has requested the Lehigh County Authority (LCA) sewer conveyance systems and the collections systems connected to it (namely Upper Milford Township, Weisenberg Township, Lower Macungie Township (LMT), Upper Macungie Township (UMT), Lowhill Township, Borough of Alburtis, and Borough of Macungie) report annual sewer activities to determine if they are in compliance with Chapter 94, Section 94.21 or 94.22. PADEP is performing a review of all new sewer system extensions in each of these communities. LCA and the above municipalities and, where applicable, their wastewater authorities, prepared and are implementing the SCARP Improvements Implementation Plan to collectively address the problems within each of these sanitary sewer systems. LCA and the above named LCA signatory parties formed the Western Lehigh Sewerage Partnership (WLSP) to accomplish this.

The Sewer Capacity Assurance and Rehabilitation Program (SCARP) was created to address PADEP concerns, a United States Environmental Protection Agency (USEPA) Compliance Order, and other related long-term wastewater needs for the Partners.

This Annual Report summarizes all work done to implement the SCARP program by the WLSP from January 1, 2017 to December 31, 2017.

## 1.1. City of Allentown Concession

In the summer of 2013 LCA was selected as the concessionaire for the City of Allentown water and wastewater systems. LCA assumed operational control of Allentown's sewer system, pump stations, and Kline's Island Wastewater Treatment Plant in August 2013.

## 1.2. USEPA Administrative Order

The deadline for the WLSP to prepare the SCARP Improvements Implementation Plan and schedule for addressing the necessary improvements to comply with the Administrative Order has been extended per a letter from USEPA dated December 12<sup>nd</sup>, 2017. The timeframe of the extension will be determined during a meeting to be held between the WLSP and USEPA in the first half of 2018.

## 2. Improvements

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### 2.1. Rehabilitation Projects

Many small rehabilitation projects have been completed in the WLSP system on an as-needed basis. Table 2-1 shows what projects were completed during this reporting period.

**Table 2-1: Rehabilitation Projects**

Municipalities	Mainline Liners Installed this period, LF	Mainline Liners Installed to Date, LF	Manhole Repairs this Period	Manhole Repairs to Date	Basement Disconnections this Period	Basement Disconnections to Date
Alburtis	0	16,948	36	95	0	5
Lower Macungie Twp	18,649	52,436	59	464	0	45
Lowhill	0	0	0	0	0	0
Macungie	3,916	9,207	0	176	0	4
Upper Macungie Twp	15,088	58,636	284	2132	1	91
Upper Milford	0	0	0	5	0	0
Weisenberg	0	0	0	0	0	0
Western Lehigh Inter.	0	0	1	123	0	0
<b>Totals</b>	<b>37,653</b>	<b>137,227</b>	<b>380</b>	<b>2995</b>	<b>1</b>	<b>145</b>

Municipalities	Mainline Replacement this period, LF	Mainline Replacement to Date, LF	Lateral Repairs this Period	Lateral Repairs to Date	Cleanout Repair/Cap Replacement this period	Cleanout Repair/Cap Replacement to date	Mainline Test & Seal This Period, LF	Mainline Test & Seal to Date, LF
Alburtis	0	0	0	0	0	27	0	0
Lower Macungie Twp	400	1739	8	49	30	47	8,645	8,645
Lowhill	0	0	0	0	0	0	0	0
Macungie	0	946	0	20	0	35	0	0
Upper Macungie Twp	0	0	5	13	0	3	1,234	1,234
Upper Milford	0	0	0	0	0	0	0	0
Weisenberg	0	0	0	0	0	0	0	0
Western Lehigh Inter.	0	0	0	0	0	0	42,849	42,849
<b>Total</b>	<b>400</b>	<b>2685</b>	<b>13</b>	<b>82</b>	<b>30</b>	<b>112</b>	<b>52,728</b>	<b>52,728</b>

## 3. Implementation

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### 3.1. Flow Monitoring Program

#### 3.1.1. Long-Term Flow Meters

The WLSP has reduced their long-term flow meters on the main interceptors to 2 meters. The number of meters was reduced because sufficient historical data has been gathered. The long-term flow monitoring data is intended for historical records and WLSP model performance monitoring. No additional SSES work is intended to be identified from the currently installed interceptor-mounted meters. Following the implementation of the first phase of the SCARP Improvements Implementation Plan, additional meters will be installed to allow for a re-calibration of the hydraulic model to assess progress towards achieving the level of service goals.

LCA also maintains five permanent meters on the Western Lehigh Interceptor for operational purposes.

#### 3.1.2. 2017 Flow Monitoring

LCA installed 31 flow meters and 2 rain gauges in March 2017 and maintained them until October 2017. The flow meters were installed in the same locations as the meters used for the 2009 metering work, including basins where mainline rehabilitation work was completed and control basins where no mainline rehabilitation work has been conducted. Data recorded from these temporary meters will be used to determine the real-world effectiveness of the RDII reduction work completed to date. The meter data will also be used to conduct RDII analysis of storm events to determine the nature and extent of infiltration and inflow leakage to help the WLSP Partners target their Phase 1 work (both secondary SSES investigations and rehabilitation efforts) toward the sources contributing the most leakage. Analysis of the meter data collected is ongoing. Findings will be detailed in a future report.

### 3.2. SSES

The flow meter analysis conducted during the SSES Prioritization Study and reported in the July 2010 USEPA Semi-Annual Report formed the primary initiation and focus of inflow identification and removal. Inflow source identification activities have been ongoing since then, including during this reporting period. In addition to those basins whose 2009 comprehensive flow data analysis indicated evidence of inflow, Partners have extended their inflow identification efforts into lower prioritized areas too.



Primary suspected sources of inflow were roof leader connections, storm drain connections, sump pump connections, and inundated manhole covers. These sources have been located using smoke testing, basement inspections and above grade wet weather observation, respectively. No piped streams or french drains were indicated by the flow meter analysis, nor have been since suspected or located.

### **3.3. Physical Condition Assessment**

Between December 2013 and April 2014 manhole inspections were completed on the entire WLI system. A total of 549 active manholes were inspected; 7 could not be located or were inaccessible. During the inspections, GPS coordinates, photos, and condition assessments for each manhole were recorded. Roughly half of the manholes inspected had some defect that would benefit from rehabilitation. The most common defects were related to infiltration through manhole joints and defective frame and covers. Manholes requiring rehabilitation will be rehabilitated in late 2018.

LCA has initiated a condition assessment of the Spring Creek Pump Station and Park Pump Station force mains. The initial phase of the Spring Creek Pump Station Force Main assessment was completed in 2016, and additional investigations into the integrity of the exterior and interior cement linings of this PCCP pipe are planned for 2018. Park Pump Station Refurbishment design is complete, with construction contracts secured for construction to start in 2018 and be completed in 2019.

### **3.4. Updated SCARP Schedule and Path Forward**

Based on USEPA's November 2nd, 2017 letter to the Partners which proposed a significantly revised approach for the City on behalf of the SCARP, and in turn, the approach of the partnership as a whole, planning efforts have been placed on hold until further clarification and discussions can be held between the Partners and USEPA. These discussions are expected to be held in the first half of 2018. The results of which will dictate the WLSP's path forward pertaining to the SCARP.

## 4. Rehabilitation Effectiveness

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### 4.1. Rehabilitation Effectiveness

There are no results to report this period. Metering work was conducted in 2017 and we expect to report on those results in the 2018 annual report, or earlier if requested, after analysis is complete.

## 5. Development Credits

Redevelopment flow credits and allocated flow credits were tracked throughout the period, in accordance with SCARP Program Approach Outline Section 4. Some areas of the WLSP collection systems were rehabilitated during this period with sources of I&I removed, but the areas were not metered to allow the impact to be quantified and included as development credits.

The WLSP is tracking all PADEP planning module approvals, redevelopment credits, and issued flow allocations. Tables 5-1, 5-2, 5-3, 5-4 and 5-5 show the remaining flow credits, flow development credits, the issued flow allocations, and approved development applications for this reporting period. Appendix A shows the grandfathered connections made to the system in 2017.

**Table 5-1: 2017 Remaining Flow Credits**

Flow Credits	GPD
2016 Remaining Flow Credits	756,608
2017 Development Credits	2,592
2017 Allocations Issued	50,176
<b>Remaining Flow Credits:</b>	<b>709,024</b>

**Table 5-2: Remaining Flow Credits to Date**

Flow Credits	GPD
Original Flow Credits	900,000
Development Credits to Date	707,696
Allocations Issued to Date	898,672
<b>Remaining Flow Credits:</b>	<b>709,024</b>

**Table 5-3: 2017 Development Flow Credit Report**

PROJECT NAME	ADDRESS / ASSET	ANTICIPATED TOTAL REDUCTION (GPD)	ANTICIPATED CREDIT (GPD)	PROJECT AWARD PERCENTAGE	PROJECT AWARD CREDIT (GPD)
Sump Pump Removal	1176 Walter Street	8,640	2,592	100%	2,592
<b>Total</b>		<b>8,640</b>	<b>2,592</b>		<b>2,592</b>

**Table 5-4: 2017 Development Allocation Report (Allocations Issued)**

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
LOWER MACUNGIE TWP	17014	1-Feb-17	3535 GRANDVIEW DR, BLDG 700	GRANDVIEW	24	5,352	RESIDENTIAL
LOWER MACUNGIE TWP	17015	1-Feb-17	3535 GRANDVIEW DR, BLDG 800	GRANDVIEW	24	5,352	RESIDENTIAL
LOWER MACUNGIE TWP	17059	17-Apr-17	3705 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17060	17-Apr-17	3725 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17061	17-Apr-17	3745 SWABIA CT	STONE HILL MEADOWS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17078	1-May-17	6150 HAMILTON BLVD	TREXLER BUSINESS CENTER	24.7	5,500	COMMERCIAL
LOWER MACUNGIE TWP	17139	15-Aug-17	4725 HAMILTON BLVD		11.21	2,500	COMMERCIAL
UPPER MACUNGIE TWP	17082	15-May-17	7220 WINDSOR DR	IRON RUN	5.38	1,200	COMMERCIAL
UPPER MACUNGIE TWP	17002	3-Jan-17	5483 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17011	17-Jan-17	5946 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17016	1-Feb-17	5938 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17017	1-Feb-17	201 ABIGAIL LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17020	15-Feb-17	249 ABIGAIL LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17021	17-Feb-17	237 ABIGAIL LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17022	17-Feb-17	5417 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17031	1-Mar-17	5505 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17051	3-Apr-17	261 ABIGAIL LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17052	3-Apr-17	5933 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17073	17-Apr-17	5930 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17074	17-Apr-17	225 ABIGAIL LN	PARKLAND FIELDS	1	223	RESIDENTIAL

Section 5  
Development Credits

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
UPPER MACUNGIE TWP	17075	17-Apr-17	5939 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17079	1-May-17	5936 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17080	1-May-17	5439 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17115	1-Jun-17	5948 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17116	1-Jun-17	5940 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17117	1-Jun-17	5945 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17118	1-Jun-17	5373 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17134	3-Jul-17	244 BLUEGRASS CT	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17135	3-Jul-17	5931 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17138	1-Aug-17	5937 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17153	15-Sep-17	5935 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17168	15-Oct-17	5506 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17167	15-Oct-17	239 BLUEGRASS CT	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17169	15-Oct-17	5484 PASSION FLOW LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17181	1-Nov-17	5954 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17182	1-Nov-17	5950 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17183	1-Nov-17	5440 PASSION FLOWER LN	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17193	1-Dec-17	5934 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17194	1-Dec-17	5932 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17203	15-Dec-17	5928 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL

Section 5  
Development Credits

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
UPPER MACUNGIE TWP	17204	15-Dec-17	5922 WINTERBERRY PL	PARKLAND FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17032	1-Mar-17	1133 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17033	1-Mar-17	1135 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17034	1-Mar-17	1137 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17035	1-Mar-17	1139 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17036	1-Mar-17	1141 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17037	1-Mar-17	1143 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17038	1-Mar-17	1145 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17062	17-Apr-17	1110 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17063	17-Apr-17	1108 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17064	17-Apr-17	1106 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17065	17-Apr-17	1104 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17066	17-Apr-17	1102 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17067	17-Apr-17	1121 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17068	17-Apr-17	1123 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17069	17-Apr-17	1125 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17070	17-Apr-17	1127 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17071	17-Apr-17	1129 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17072	17-Apr-17	1131 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17018	1-Feb-17	1522 BUTZ RD	BREINIGSVILLE VFW	1.49	334	COMMERCIAL

Section 5  
Development Credits

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
UPPER MACUNGIE TWP	17050	3-Apr-17	5267 OAKVIEW DR		1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17128	15-Jun-17	5767 CETRONIA RD	ABOVE & BEYOND PERSONAL CARE FACILITY	29.14	6,500	COMMERCIAL
UPPER MACUNGIE TWP	17170	15-Oct-17	6975 AMBASSADOR DR	IRON RUN INDUSTRIAL PARK	15.69	3,500	COMMERCIAL
UPPER MACUNGIE TWP	17180	1-Nov-17	410 TWIN PONDS RD		8.4	1,875	COMMERCIAL
UPPER MILFORD TWP	17040	15-Mar-17	3453 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17041	15-Mar-17	3465 GENTLEWIND WAY	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17057	17-Apr-17	4073 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17081	15-May-17	4068 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17130	3-Jul-17	3450 GENTLEWIND WAY	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17131	3-Jul-17	3452 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17132	3-Jul-17	4112 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17136	17-Jul-17	4088 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17152	1-Sep-17	4089 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17159	2-Oct-17	3490 GENTLEWIND WAY	FIELDS AT INDIAN CREEK	1	223	COMMERCIAL
UPPER MILFORD TWP	17160	2-Oct-17	3430 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	COMMERCIAL
UPPER MILFORD TWP	17171	1-Nov-17	3431 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17172	1-Nov-17	4080 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17173	1-Nov-17	4104 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17174	1-Nov-17	3479 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17175	1-Nov-17	3474 TREELINE DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Issued	Property Type
UPPER MILFORD TWP	17176	1-Nov-17	3455 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17177	1-Nov-17	3447 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17178	1-Nov-17	4139 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17179	1-Nov-17	3450 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17186	1-Dec-17	3480 GENTLEWIND WAY	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17187	1-Dec-17	4076 CLEARBROOK RD	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17188	1-Dec-17	3471 DAYLILY DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17201	15-Dec-17	3465 TREEVIEW DR	FIELDS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17003	17-Jan-17	4100 CLEARBROOK RD	INDIAN CREEK VILLAGE	1	223	RESIDENTIAL
UPPER MILFORD TWP	17013	1-Feb-17	3485 GENTLEWIND WAY	INDIAN CREEK VILLAGE	1	223	RESIDENTIAL
<b>TOTALS</b>					<b>225.01</b>	<b>50,176</b>	

**Table 5-5: 2017 Approved Development Applications (Planning Modules)**

PROPERTY NAME	STREET ADDRESS	MUNICIPALITY	EDUs	REQUESTED BASE CAPACITY (GPD)	DEP APPROVAL DATE	DEVELOPMENT TYPE
Trexler Business Center	6084 - 6240 Hamilton Blvd.	Lower Macungie Township	51.1	11,400	2/3/2017	Commercial
Breinigsville Park	Breinigsville & Butz Rd	Upper Macungie Township	3.6	800	3/15/2017	Municipal
67 Werley Rd Apartments	67 Werley Rd	Upper Macungie Township	111.0	24,753	8/1/2017	Residential
IRIP Lot 5	6975 Ambassador Dr	Upper Macungie Township	15.7	3,500	3/10/2017	Commercial
Kohler Tract	Mill Rd	Upper Milford Township	125.0	27,875	3/10/2017	Residential
DCT Industrial	7175 W Tilghman Road	Upper Macungie Township	13.5	3,000	7/19/2017	Industrial
CVS Pharmacy	3261, 3281, and 3297 S.R. 100	Lower Macungie Township	2.9	650	12/13/2017	Commercial
Ciocca Audi Dealership	4725 Hamilton Blvd	Lower Macungie Township	11.2	2,500	6/12/2017	Commercial
Beit Simcha	1111 Grange Road	Lower Macungie Township	10.7	2,380	2/27/2017	Institutional
<b>TOTALS</b>			<b>344.7</b>	<b>76,858</b>		



# APPENDIX A

2017 Grandfathered Connections

APPENDIX A

SCARP REPORT

2017 Grandfathered Connections

MUNICIPALITY	EDUs	GALLONS PURCHASED	PROPERTY TYPE
Borough of Macungie	2	446	Residential
Lower Macungie Township	15	3,345	Residential
Lower Macungie Township	-	-	Industrial
Lower Macungie Township	2.96	660	Commercial
Upper Macungie Township	86	19,178	Residential
Upper Macungie Township	-	-	Industrial
Upper Macungie Township	11.69	2,610	Commercial
Upper Milford Township	7	1,561	Residential
<b>TOTALS</b>	<b>124.65</b>	<b>27,800</b>	

Township	Allocation Number	Allocation Date	Property Address	Development	EDU	Gallons Purchased	Property Type
BORO OF MACUNGIE	17012	1-Feb-17	121 SONOMA WAY	ESTATES AT BROOKSIDE	1	223	RESIDENTIAL
BORO OF MACUNGIE	17039	15-Mar-17	125 SONOMA WAY	ESTATES AT BROOKSIDE	1	223	RESIDENTIAL
					<b>2</b>	<b>446</b>	
LOWER MACUNGIE TWP	17019	15-Feb-17	3273 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17042	15-Mar-17	3398 MILLRACE RD	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17043	3-Apr-17	4339 FLOURMILL LN	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17058	17-Apr-17	3177 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17105	1-Jun-17	3380 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17125	15-Jun-17	3249 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17126	15-Jun-17	3200 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17133	3-Jul-17	3362 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17137	1-Aug-17	3201 GRISTMILL DR	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17140	15-Aug-17	3262 MILL RACE RD	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17141	15-Aug-17	4311 FLOURMILL LN	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17184	15-Nov-17	4304 FLOURMILL LN	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17202	15-Dec-17	3286 MILLRACE RD	ESTATES AT MILLRACE	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17184	15-Nov-17	4448 CANTERBURY DR	MILL BROOK FARMS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17107	1-Jun-17	3149 SHEFFIELD DR	MILLBROOK FARMS	1	223	RESIDENTIAL
LOWER MACUNGIE TWP	17106	1-Jun-17	6687 STEIN WAY	SPRING CREEK ESTATES	2.96	660	COMMERCIAL
<b>TOTALS</b>					<b>17.96</b>	<b>4,005</b>	
UPPER MACUNGIE TWP	17151	1-Sep-17	397 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL

UPPER MACUNGIE TWP	17023	15-Feb-17	364 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17024	15-Feb-17	366 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17025	15-Feb-17	368 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17026	15-Feb-17	370 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17027	15-Feb-17	372 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17028	15-Feb-17	374 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17109	1-Jun-17	365 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17110	1-Jun-17	367 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17111	1-Jun-17	369 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17112	1-Jun-17	371 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17113	1-Jun-17	373 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17114	1-Jun-17	375 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17148	1-Sep-17	395 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17149	1-Sep-17	393 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17150	1-Sep-17	391 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17158	15-Sep-17	405 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17157	15-Sep-17	407 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17156	15-Sep-17	409 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17155	15-Sep-17	411 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17154	15-Sep-17	413 PENNYCRESS RD	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17195	1-Dec-17	4587 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17196	1-Dec-17	4589 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17197	1-Dec-17	4591 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17198	1-Dec-17	4593 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17199	1-Dec-17	4595 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17200	1-Dec-17	4597 WOODBRUSH WAY	HIDDEN MEADOWS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17083	15-May-17	1267 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17084	15-May-17	1271 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17085	15-May-17	1263 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17086	15-May-17	1259 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17087	15-May-17	1255 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17088	15-May-17	1249 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17089	15-May-17	1243 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17090	15-May-17	1237 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17091	15-May-17	1128 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17092	15-May-17	1122 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17093	15-May-17	1078 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL

UPPER MACUNGIE TWP	17094	15-May-17	1084 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17095	15-May-17	1090 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17096	15-May-17	1096 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17097	15-May-17	1115 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17098	15-May-17	1103 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17099	15-May-17	1091 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17100	15-May-17	1092 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17101	15-May-17	1104 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17102	15-May-17	1116 BUCKINGHAM RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17103	15-May-17	1077 WESTMINSTER DR	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17104	15-May-17	1098 TWIN PONDS RD	PARKLAND PRESERVE @ HIGHGATE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17129	15-Jun-17	214 LONE LN	PARK PLACE	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17108	1-Jun-17	5543 REID LN	TREETOP ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17005	17-Jan-17	9636 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17006	17-Jan-17	9640 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17007	17-Jan-17	9652 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17008	17-Jan-17	9656 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17009	17-Jan-17	9676 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17010	17-Jan-17	9680 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17029	15-Feb-17	9607 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17030	15-Feb-17	9609 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17053	3-Apr-17	1065 MONARCH LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17054	3-Apr-17	1055 MONARCH LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17076	17-Apr-17	9613 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17077	17-Apr-17	9611 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17119	1-Jun-17	9655 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17120	1-Jun-17	9659 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17121	1-Jun-17	9663 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17122	1-Jun-17	9667 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17123	1-Jun-17	9671 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17124	1-Jun-17	9675 CRESCENT LN	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17142	15-Aug-17	951 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17143	15-Aug-17	957 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17144	15-Aug-17	968 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17145	15-Aug-17	972 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17146	15-Aug-17	976 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17147	15-Aug-17	984 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL

UPPER MACUNGIE TWP	17163	2-Oct-17	983 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17164	2-Oct-17	985 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17165	2-Oct-17	996 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17166	2-Oct-17	1006 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17189	1-Dec-17	952 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17190	1-Dec-17	956 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17191	1-Dec-17	960 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17192	1-Dec-17	964 SPRING WHITE DR	TREXLER FIELDS	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17004	17-Jan-17	8593 VALLEY WEST DR	VALLEY WEST ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17056	3-Apr-17	245 MCBRIDE LN	VALLEY WEST ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17055	3-Apr-17	258 MCBRIDE LN	VALLEY WEST ESTATES	1	223	RESIDENTIAL
UPPER MACUNGIE TWP	17161	2-Oct-17	1250 TURNSTONE DR	LEHIGH HILLS	10.08	2,250	COMMERCIAL
UPPER MACUNGIE TWP	17162	2-Oct-17	1251 TURNSTONE DR	LEHIGH HILLS	1.61	360	COMMERCIAL
<b>TOTALS</b>					<b>97.69</b>	<b>21,788</b>	
UPPER MILFORD TWP	17044	3-Apr-17	4368 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17045	3-Apr-17	4372 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17046	3-Apr-17	4376 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17047	3-Apr-17	4380 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17048	3-Apr-17	4384 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17049	3-Apr-17	4388 LENNI CIR	CROSSINGS AT INDIAN CREEK	1	223	RESIDENTIAL
UPPER MILFORD TWP	17001	3-Jan-17	5145 SPRUCE RD	VERA CRUZ	1	223	RESIDENTIAL
<b>TOTALS</b>					<b>7</b>	<b>1,561</b>	