

# REPORTS

# Lafayette Fire Company

Lancaster, PA

This report was generated on 8/2/2020 4:56:26 PM



## Incidents for Zone for Date Range

Zone: 2 - Lancaster Township - East | Start Date: 07/01/2020 | End Date: 07/31/2020

INCIDENT NUMBER	INCIDENT TYPE	DATE	LOCATION	APPARATUS
2020-262	745 - Alarm system activation, no fire - unintentional	07/06/2020	1100 E ORANGE ST	DO63,E631,TRK63
2020-278	745 - Alarm system activation, no fire - unintentional	07/16/2020	1100 E ORANGE ST	E631,SQ632
2020-286	745 - Alarm system activation, no fire - unintentional	07/23/2020	1049 E KING ST	E631
2020-302	323 - Motor vehicle/pedestrian accident (MV Ped)	07/30/2020	929 E KING ST	DO63,E631,FP63,SQ632

**Total # Incidents: 4**

Only REVIEWED incidents included.

# Lancaster Township Fire Department

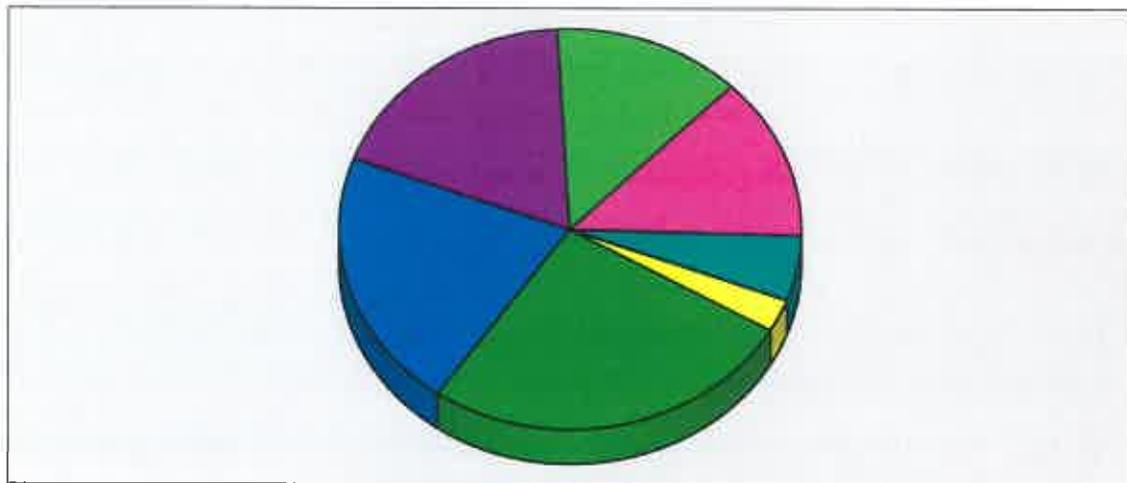
Lancaster, PA

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## Major Incident Types by Month for Date Range

Start Date: 07/01/2020 | End Date: 07/31/2020



	False Alarm & False Call		Rescue & Emergency Medical Service Incident
	Fire		Service Call
	Good Intent Call		Special Incident Type
	Hazardous Condition (No Fire)		

INCIDENT TYPE	JUL	TOTAL
False Alarm & False Call	10	10
Fire	8	8
Good Intent Call	7	7
Hazardous Condition (No Fire)	5	5
Rescue & Emergency Medical Service Incident	5	5
Service Call	2	2
Special Incident Type	1	1
<b>Total</b>	<b>38</b>	<b>38</b>

**JULY TOTAL # INCIDENTS** **38**

MUTUAL AID 8

IN LANCASTER TWP. 30

**YEAR-TO-DATE** **237**

# Lancaster Township Fire Department

Lancaster, PA

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## Count of Incidents by Incident Type per Zone

Incident Status: All | Start Date: 07/01/2020 | End Date: 07/31/2020

INCIDENT TYPE	# INCIDENTS	% of TOTAL
<b>Not Specified</b>		
111 - Building fire	6	15.79%
118 - Trash or rubbish fire, contained	2	5.26%
311 - Medical assist, assist EMS crew	1	2.63%
321 - EMS call, excluding vehicle accident with injury	1	2.63%
322 - Motor vehicle accident with injuries	1	2.63%
323 - Motor vehicle/pedestrian accident (MV Ped)	1	2.63%
324 - Motor vehicle accident with no injuries.	1	2.63%
412 - Gas leak (natural gas or LPG)	3	7.89%
442 - Overheated motor	1	2.63%
444 - Power line down	1	2.63%
542 - Animal rescue	1	2.63%
571 - Cover assignment, standby, moveup	1	2.63%
611 - Dispatched & cancelled en route	3	7.89%
622 - No incident found on arrival at dispatch address	1	2.63%
651 - Smoke scare, odor of smoke	3	7.89%
730 - System malfunction, other	1	2.63%
733 - Smoke detector activation due to malfunction	3	7.89%
736 - CO detector activation due to malfunction	1	2.63%
741 - Sprinkler activation, no fire - unintentional	1	2.63%
743 - Smoke detector activation, no fire - unintentional	2	5.26%
744 - Detector activation, no fire - unintentional	1	2.63%
746 - Carbon monoxide detector activation, no CO	1	2.63%
900 - Special type of incident, other	1	2.63%
<b>Zone: Not Specified Total Incident:</b>	<b>38</b>	<b>100.00%</b>
<b>TOTAL INCIDENTS FOR ALL ZONES:</b>	<b>38</b>	<b>100%</b>

# Lancaster Township Fire Department

JULY 2020

Basic Incident Info with Number of Responding Apparatus and Personnel for Date Range



DATE	INCIDENT #	ADDRESS	INCIDENT TYPE	ZONE	# APP.	# PERS.
07/01/2020	2020-212	652 WYNCROFT LN	733 - Smoke detector activation due to malfunction	LANCASTER TWP.	2	5
07/02/2020	2020-213	1322 CALVERT LN	412 - Gas leak (natural gas or LPG)	LANCASTER TWP.	4	12
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor	LANCASTER TWP.	7	14
07/04/2020	2020-215	108 ELMSHIRE DR	651 - Smoke scare, odor of smoke	LANCASTER TWP.	3	11
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained	LANCASTER TWP.	7	16
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained	LANCASTER TWP.	5	11
07/07/2020	2020-218	390 BLUE LN	111 - Building fire	MT-90	3	9
07/08/2020	2020-219	647 WYNCROFT LN	611 - Dispatched & cancelled en route	LANCASTER TWP.	2	3
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire	MT-90	5	15
07/09/2020	2020-221	1520 MILLERSVILLE PIKE	611 - Dispatched & cancelled en route	LANCASTER TWP.	1	3
07/09/2020	2020-222	SECOND LOCK RD	542 - Animal rescue	LANCASTER TWP.	2	6
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke	LANCASTER TWP.	7	18
07/12/2020	2020-224	525 N SCHOOL LN	743 - Smoke detector activation, no fire - unintentional	LANCASTER TWP.	4	12
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down	LANCASTER TWP.	5	13
07/13/2020	2020-226	3349 HEMPLAND RD	111 - Building fire	EHT-87	2	6
07/14/2020	2020-227	37 FRESH MEADOW DR	412 - Gas leak (natural gas or LPG)	MB-90	2	7
07/14/2020	2020-228	ABBEYVILLE RD	323 - Motor vehicle/pedestrian accident (MV Ped)	LANCASTER TWP.	3	13
07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury	LANCASTER TWP.	5	13
07/16/2020	2020-230	26 SCHOOL HOUSE RD	730 - System malfunction, other	LANCASTER TWP.	5	7
07/16/2020	2020-231	37 W FREDERICK ST	111 - Building fire	MB-90	3	8
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.	LANCASTER TWP.	6	15
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional	LANCASTER TWP.	5	7
07/18/2020	2020-234	340 KENTSHIRE DR	733 - Smoke detector activation due to malfunction	LANCASTER TWP.	4	8
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries	LANCASTER TWP.	6	16
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address	LANCASTER TWP.	5	15
07/22/2020	2020-240	1065 WHEATLAND AVE	412 - Gas leak (natural gas or LPG)	LANCASTER TWP.	4	7
07/22/2020	2020-241	3775 HEMPLAND RD	741 - Sprinkler activation, no fire - unintentional	FHT-67	2	7
07/23/2020	2020-242	623 WYNCROFT LN	736 - CO detector activation due to malfunction	LANCASTER TWP.	2	8
07/23/2020	2020-243	100 JEMFIELD CT	111 - Building fire	MT-90	2	5
07/24/2020	2020-244	1300 COLUMBIA AVE	611 - Dispatched & cancelled en route	LANCASTER TWP.	3	7
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire	LANCASTER TWP.	8	18
07/24/2020	2020-246	344 KENTSHIRE DR	746 - Carbon monoxide detector activation, no CO	LANCASTER TWP.	2	7
07/26/2020	2020-247	11 FARM LN	733 - Smoke detector activation due to malfunction	LANCASTER TWP.	4	11
07/27/2020	2020-248	414 S PRESIDENT AVE	311 - Medical assist, assist EMS crew	LANCASTER TWP.	1	3
07/27/2020	2020-249	919 HAMILTON PARK DR	744 - Detector activation, no fire - unintentional	LANCASTER TWP.	2	4
07/28/2020	2020-251	33 MARTIC HEIGHTS DR	571 - Cover assignment, standby, moveup	MT-55	2	12
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke	LANCASTER TWP.	5	9
07/31/2020	2020-253	1298 MILLERSVILLE PIKE	900 - Special type of incident, other	LANCASTER TWP.	2	2

STATION 41 BIRD-IN-HAND  
 STATION 07 MOUNTVILLE  
 STATION 20 MANHEIM TWP  
 STATION 50 WILLOW STREET  
 STATION 58 RAWLINSVILLE

STATION 63 LAFAYETTE  
 STATION 64 LANCASTER CITY  
 STATION 67 ROHRERSTOWN  
 STATION 76 WEST HEMPFIELD  
 STATION 90 BLUE ROCK

# Lancaster Township Fire Department

Lancaster, PA

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## Incident List for Apparatus for Date Range

Apparatus: All Apparatus | Start Date: 07/01/2020 | End Date: 07/31/2020

INCIDENT DATE	INCIDENT #	ADDRESS	INCIDENT TYPE
Apparatus . DOV66 - DUTY VEHICLE			
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-224	525 N SCHOOL LN	743 - Smoke detector activation, no fire - unintentional
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down
07/14/2020	2020-228	ABBEYVILLE RD	323 - Motor vehicle/pedestrian accident (MV Ped)
07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury
07/16/2020	2020-230	26 SCHOOL HOUSE RD 1	730 - System malfunction, other
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/18/2020	2020-234	340 KENTSHIRE DR	733 - Smoke detector activation due to malfunction
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/22/2020	2020-240	1065 WHEATLAND AVE	412 - Gas leak (natural gas or LPG)
07/24/2020	2020-244	1300 COLUMBIA AVE	611 - Dispatched & cancelled en route
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/26/2020	2020-247	11 FARM LN	733 - Smoke detector activation due to malfunction
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke
07/31/2020	2020-253	1298 MILLERSVILLE PIKE	900 - Special type of incident, other
<b>Total # of Incidents for DUTY VEHICLE : 16</b>			
Apparatus . E661 - ENGINE 661			
07/01/2020	2020-212	652 WYNCROFT LN 8	733 - Smoke detector activation due to malfunction
07/02/2020	2020-213	1322 CALVERT LN	412 - Gas leak (natural gas or LPG)
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/04/2020	2020-215	108 ELM SHIRE DR	651 - Smoke scare, odor of smoke
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-224	525 N SCHOOL LN	743 - Smoke detector activation, no fire - unintentional
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down
07/14/2020	2020-227	37 FRESH MEADOW DR	412 - Gas leak (natural gas or LPG)
07/16/2020	2020-230	26 SCHOOL HOUSE RD 1	730 - System malfunction, other
07/16/2020	2020-231	37 W FREDERICK ST	111 - Building fire
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional
07/18/2020	2020-234	340 KENTSHIRE DR	733 - Smoke detector activation due to malfunction
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address
07/22/2020	2020-240	1065 WHEATLAND AVE	412 - Gas leak (natural gas or LPG)
07/23/2020	2020-242	623 WYNCROFT LN	736 - CO detector activation due to malfunction
07/23/2020	2020-243	100 JEMFIELD CT	111 - Building fire

INCIDENT DATE	INCIDENT #	ADDRESS	INCIDENT TYPE
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/24/2020	2020-246	344 KENTSHIRE DR	746 - Carbon monoxide detector activation, no CO
07/26/2020	2020-247	11 FARM LN	733 - Smoke detector activation due to malfunction
07/28/2020	2020-251	33 MARTIC HEIGHTS DR	571 - Cover assignment, standby, moveup
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke

Total # of Incidents for ENGINE 661 : 24

Apparatus : E663 - ENGINE 663

07/02/2020	2020-213	1322 CALVERT LN	412 - Gas leak (natural gas or LPG)
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained
07/09/2020	2020-222	SECOND LOCK RD	542 - Animal rescue
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-224	525 N SCHOOL LN	743 - Smoke detector activation, no fire - unintentional
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address
07/22/2020	2020-240	1065 WHEATLAND AVE	412 - Gas leak (natural gas or LPG)
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/27/2020	2020-249	919 HAMILTON PARK DR	744 - Detector activation, no fire - unintentional

Total # of Incidents for ENGINE 663 : 13

Apparatus : STA-N - North Station

07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire
07/09/2020	2020-221	1520 MILLERSVILLE PIKE	611 - Dispatched & cancelled en route
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address
07/22/2020	2020-241	3775 HEMPLAND RD	741 - Sprinkler activation, no fire - unintentional
07/24/2020	2020-244	1300 COLUMBIA AVE	611 - Dispatched & cancelled en route
07/24/2020	2020-246	344 KENTSHIRE DR	746 - Carbon monoxide detector activation, no CO

Total # of Incidents for North Station : 8

Apparatus : POV - POV

07/01/2020	2020-212	652 WYNCROFT LN 8	733 - Smoke detector activation due to malfunction
07/02/2020	2020-213	1322 CALVERT LN	412 - Gas leak (natural gas or LPG)
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/04/2020	2020-215	108 ELMSHIRE DR	651 - Smoke scare, odor of smoke
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained
07/07/2020	2020-218	390 BLUE LN	111 - Building fire
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire
07/09/2020	2020-222	SECOND LOCK RD	542 - Animal rescue
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down

INCIDENT DATE	INCIDENT #	ADDRESS	INCIDENT TYPE
07/14/2020	2020-228	ABBEYVILLE RD	323 - Motor vehicle/pedestrian accident (MV Ped)
07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional
07/18/2020	2020-234	340 KENTSHIRE DR	733 - Smoke detector activation due to malfunction
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke
07/31/2020	2020-253	1298 MILLERSVILLE PIKE	900 - Special type of incident, other

Total # of Incidents for POV : 21

Apparatus RES66 - RESCUE 66

07/02/2020	2020-213	1322 CALVERT LN	412 - Gas leak (natural gas or LPG)
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down
07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/26/2020	2020-247	11 FARM LN	733 - Smoke detector activation due to malfunction

Total # of Incidents for RESCUE 66 : 9

Apparatus STA-S - South Station

07/04/2020	2020-215	108 ELMSHIRE DR	651 - Smoke scare, odor of smoke
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/08/2020	2020-219	647 WYNCROFT LN	611 - Dispatched & cancelled en route
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-224	525 N SCHOOL LN	743 - Smoke detector activation, no fire - unintentional
07/14/2020	2020-227	37 FRESH MEADOW DR	412 - Gas leak (natural gas or LPG)
07/14/2020	2020-228	ABBEYVILLE RD	323 - Motor vehicle/pedestrian accident (MV Ped)
07/16/2020	2020-230	26 SCHOOL HOUSE RD 1	730 - System malfunction, other
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional
07/20/2020	2020-236	100 ABBEYVILLE RD	622 - No incident found on arrival at dispatch address
07/22/2020	2020-240	1065 WHEATLAND AVE	412 - Gas leak (natural gas or LPG)
07/23/2020	2020-243	100 JEMFIELD CT	111 - Building fire
07/24/2020	2020-244	1300 COLUMBIA AVE	611 - Dispatched & cancelled en route
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/27/2020	2020-249	919 HAMILTON PARK DR	744 - Detector activation, no fire - unintentional
07/28/2020	2020-251	33 MARTIC HEIGHTS DR	571 - Cover assignment, standby, moveup

Total # of Incidents for South Station : 17

Apparatus SQ661 - SQUAD 661

07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury
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INCIDENT DATE	INCIDENT #	ADDRESS	INCIDENT TYPE
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke
<b>Total # of Incidents for SQUAD 661 : 3</b>			
<b>Apparatus : SQ665 - SQUAD 665</b>			
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/15/2020	2020-229	217 FAIRFAX DR	321 - EMS call, excluding vehicle accident with injury
07/16/2020	2020-230	26 SCHOOL HOUSE RD 1	730 - System malfunction, other
07/27/2020	2020-248	414 S PRESIDENT AVE	311 - Medical assist, assist EMS crew
<b>Total # of Incidents for SQUAD 665 : 4</b>			
<b>Apparatus : SQ662 - TRAFFIC/SQUAD 2</b>			
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire
<b>Total # of Incidents for TRAFFIC/SQUAD 2 : 1</b>			
<b>Apparatus : SQ663 - TRAFFIC/SQUAD 3</b>			
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/04/2020	2020-216	120 DICKENS DR	118 - Trash or rubbish fire, contained
07/05/2020	2020-217	642 WYNCROFT LN	118 - Trash or rubbish fire, contained
07/07/2020	2020-218	390 BLUE LN	111 - Building fire
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/12/2020	2020-225	1413 SPRINGSIDE DR	444 - Power line down
07/13/2020	2020-226	3349 HEMPLAND RD	111 - Building fire
07/16/2020	2020-230	26 SCHOOL HOUSE RD 1	730 - System malfunction, other
07/16/2020	2020-231	37 W FREDERICK ST	111 - Building fire
07/16/2020	2020-232	COLUMBIA AVE	324 - Motor vehicle accident with no injuries.
07/19/2020	2020-235	SCHOOL HOUSE RD	322 - Motor vehicle accident with injuries
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/26/2020	2020-247	11 FARM LN	733 - Smoke detector activation due to malfunction
<b>Total # of Incidents for TRAFFIC/SQUAD 3 : 13</b>			
<b>Apparatus : TRK66 - TRUCK 66</b>			
07/04/2020	2020-214	30 MILL POND DR	442 - Overheated motor
07/07/2020	2020-218	390 BLUE LN	111 - Building fire
07/08/2020	2020-219	647 WYNCROFT LN	611 - Dispatched & cancelled en route
07/08/2020	2020-220	1798 COLONIAL MANOR DR	111 - Building fire
07/10/2020	2020-223	55 MICHELLE DR	651 - Smoke scare, odor of smoke
07/13/2020	2020-226	3349 HEMPLAND RD	111 - Building fire
07/16/2020	2020-231	37 W FREDERICK ST	111 - Building fire
07/17/2020	2020-233	1101 MILLERSVILLE PIKE	743 - Smoke detector activation, no fire - unintentional
07/18/2020	2020-234	340 KENTSHIRE DR	733 - Smoke detector activation due to malfunction
07/22/2020	2020-241	3775 HEMPLAND RD	741 - Sprinkler activation, no fire - unintentional
07/23/2020	2020-242	623 WYNCROFT LN	736 - CO detector activation due to malfunction
07/24/2020	2020-245	1651 CHADWICK CIR	111 - Building fire
07/30/2020	2020-252	1640 JUDIE LN	651 - Smoke scare, odor of smoke
<b>Total # of Incidents for TRUCK 66 : 13</b>			
<b>Total # of Incidents for all Apparatus: 142</b>			





**JULY 2020 REPORT  
FOR  
LANCASTER TOWNSHIP**

**JULY 2020 SUMMARY OF POLICE ACTIVITIES WITHIN LANCASTER TOWNSHIP BY THE  
MANHEIM TOWNSHIP POLICE DEPARTMENT**

- 78 Criminal Reports
- 336 Calls for Service
- 32 Arrests
- 42 Crash Investigations
  - No Fatal Crashes
- 129 Traffic Citations
- 46 Traffic Warnings
- 2 Overdose Incidents
- 1 Overdose Fatality Incident

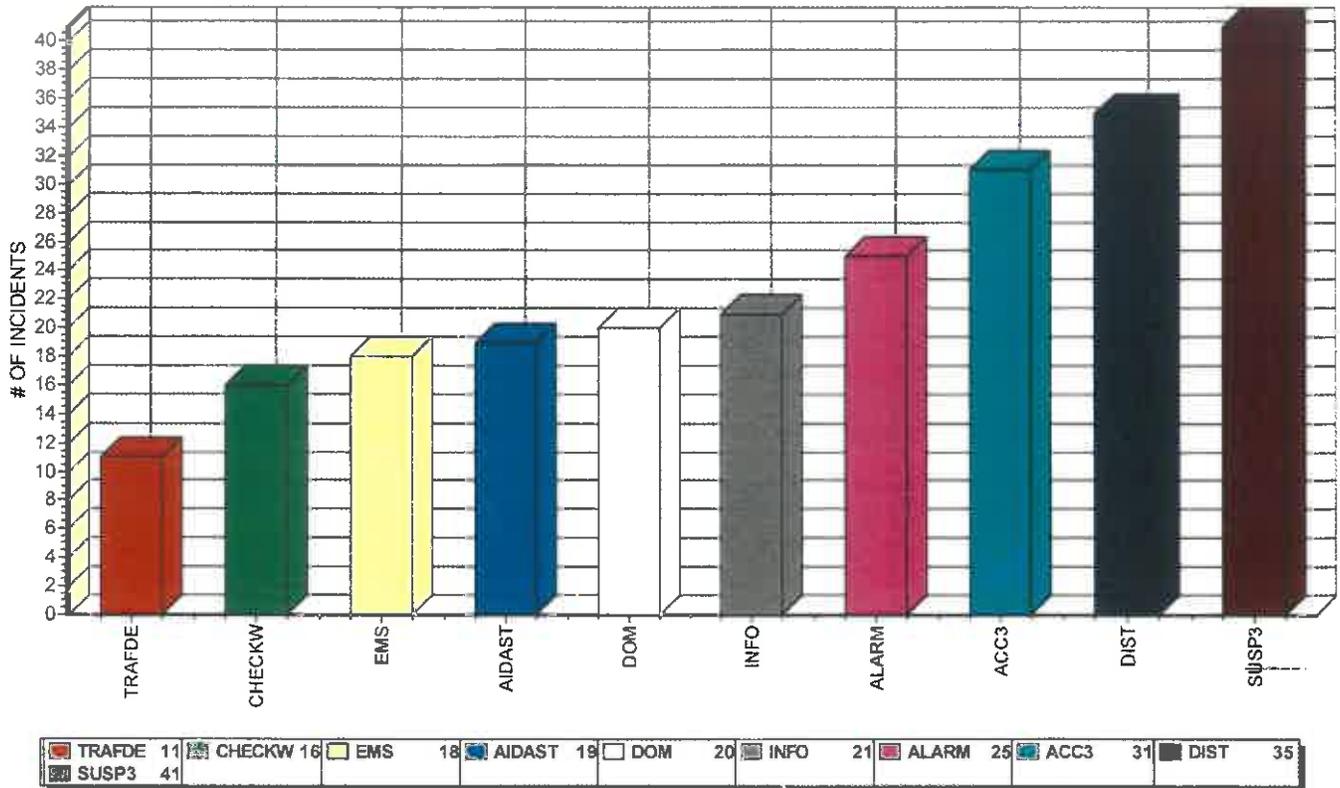
**YEAR (2020) TO DATE SUMMARY OF POLICE ACTIVITIES WITHIN LANCASTER  
TOWNSHIP BY THE MANHEIM TOWNSHIP POLICE DEPARTMENT**

- 534 Criminal Reports
- 2321 Calls for Service
- 312 Arrests
- 206 Crash Investigations
  - No Fatal Crashes
- 782 Traffic Citations
- 732 Traffic Warnings
- 14 Overdose Incidents
- 1 Overdose Fatality Incident

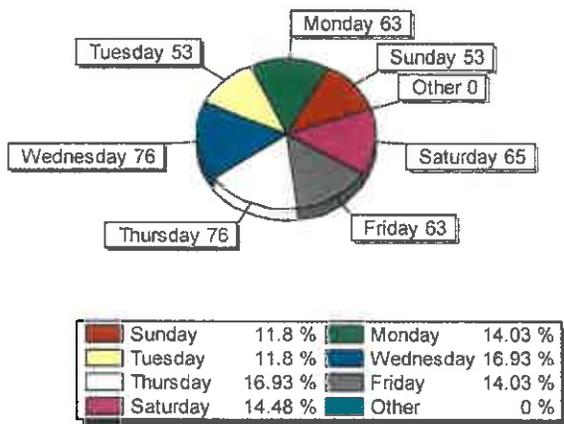
## CRIMES and CLEARANCES

Classification of Offenses	July		Y - T - D 2020			Y - T - D 2019		
	Actual	Cleared	Actual	Cleared	Percent	Actual	Cleared	Percent
01A-Murder and Nonnegligent Manslaughter	0	0	0	0	0%	1	1	100%
01B-Manslaughter by Negligence	0	0	0	0	0%	0	0	0%
02A-Rape	0	0	2	0	0%	1	0	0%
02B-Assault to Rape - Attempts	0	0	0	0	0%	0	0	0%
03A-Robbery Firearm	0	0	4	1	25%	1	0	0%
03B-Robbery Knife or Cutting Instrument	0	0	0	0	0%	0	0	0%
03C-Robbery Other Dangerous Weapon	0	0	0	0	0%	0	0	0%
03D-Robbery Strong Arm (Hands,Feet,etc.)	1	1	2	2	100%	1	0	0%
04A-Assault Firearm	0	0	1	0	0%	1	0	0%
04B-Assault Knife or Cutting Instrument	0	0	1	1	100%	0	0	0%
04C-Assault Other Dangerous Weapon	0	0	0	0	0%	0	1	100%
04D-Assault Hands, Fist, Feet, etc.	1	1	5	5	100%	10	10	100%
04E-Other Assaults-Not Aggravated	14	8	81	77	95%	119	113	95%
05A--Burglary Forcible Entry	0	0	0	0	0%	3	1	33%
05B-Burglary Unlawful Entry-No Force	0	0	0	0	0%	8	2	25%
05C-Burglary Attempted Forcible Entry	0	0	0	0	0%	0	0	0%
06-Larceny-Theft	17	4	148	74	50%	158	75	47%
07A-Motor Vehicle Theft-Autos	2	0	16	2	13%	19	7	37%
07B-Motor Vehicle Theft-Trucks and Buses	0	0	1	1	100%	0	0	0%
07C-Motor Vehicle Theft-Other Vehicles	1	1	1	1	100%	2	0	0%
090-Arson	0	0	1	1	100%	0	0	0%
<b>Total Part I</b>	<b>36</b>	<b>15</b>	<b>263</b>	<b>165</b>	<b>63%</b>	<b>324</b>	<b>210</b>	<b>65%</b>
100-Forgery and Counterfeiting	0	0	0	0	0%	4	1	25%
110-Fraud	0	1	12	3	25%	22	6	27%
120-Embezzlement	0	0	0	0	0%	0	0	0%
130-Stolen Prop.,Rec.,Possess.,Buying	0	0	0	0	0%	0	0	0%
140-Vandalism	11	2	47	9	19%	29	13	45%
150-Weapons Carrying,Possess,etc.	0	0	2	2	100%	3	3	100%
160-Prostitution and Commercialized Vice	0	0	0	0	0%	0	0	0%
170-Sex Offenses (except 02 and 160)	2	1	7	4	57%	9	4	44%
18A-Drug Sale/Mfg-Opium-Cocaine	0	0	1	1	100%	1	1	100%
18B-Drug Sale/Mfg-Marijuana	0	0	3	3	100%	1	1	100%
18C-Drug Sale/Mfg-Synthetic	0	0	0	0	0%	0	0	0%
18D-Drug Sale/Mfg-Other	0	0	0	0	0%	0	0	0%
18E-Drug Possession-Opium-Cocaine	2	2	6	6	100%	12	11	92%
18F-Drug Possession-Marijuana	2	2	40	41	100%	43	43	100%
18G-Drug Possession-Synthetic	0	0	0	0	0%	0	0	0%
18H-Drug Possession-Other	1	1	1	1	100%	1	1	100%
190-Gambling	0	0	0	0	0%	0	0	0%
200-Offenses Against Family & Children	1	1	2	2	100%	1	1	100%
210-Driving Under The Influence	1	0	19	17	89%	29	30	100%
220-Liquor Law	0	0	0	0	0%	1	1	100%
230-Drunkenness	5	5	18	18	100%	26	24	92%
240-Disorderly Conduct	1	0	7	6	86%	26	25	96%
250-Vagrancy	0	0	0	0	0%	0	0	0%
260-All Other Offenses (Except Traffic)	16	17	106	98	92%	100	89	89%
<b>Total Part II</b>	<b>42</b>	<b>32</b>	<b>271</b>	<b>211</b>	<b>78%</b>	<b>308</b>	<b>254</b>	<b>82%</b>
<b>Total LANCASTER TWP</b>	<b>78</b>	<b>47</b>	<b>534</b>	<b>376</b>	<b>70%</b>	<b>632</b>	<b>464</b>	<b>73%</b>

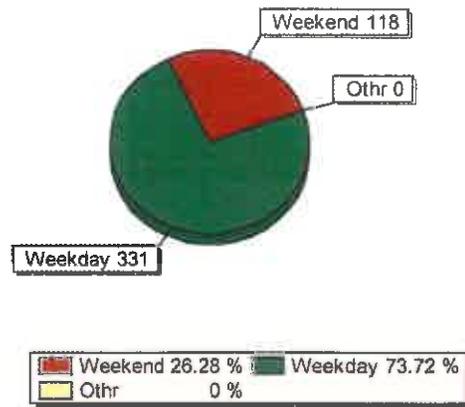
Incident Frequency by TYPE (Top 10 of 69 Shown) (Using DATE RECD)



By Day of Week

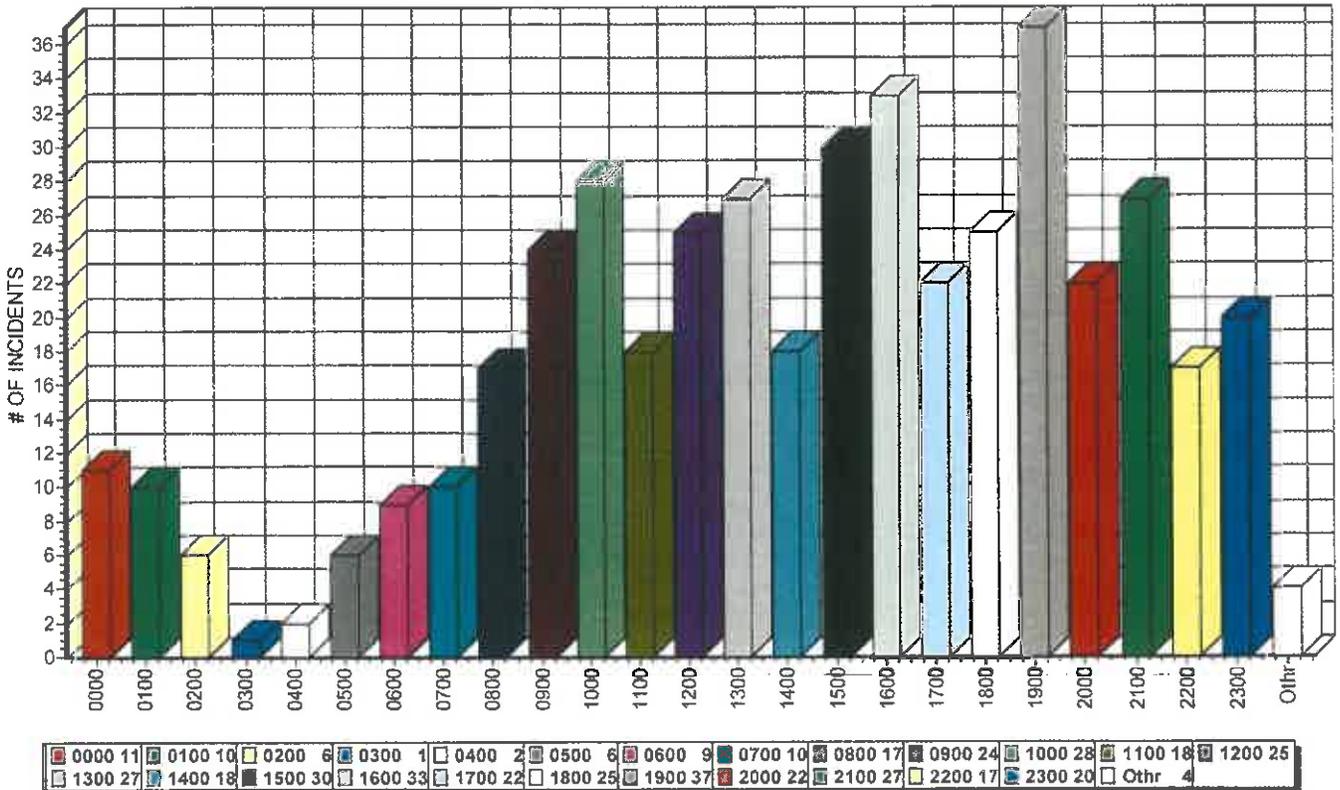


Weekday vs Weekend

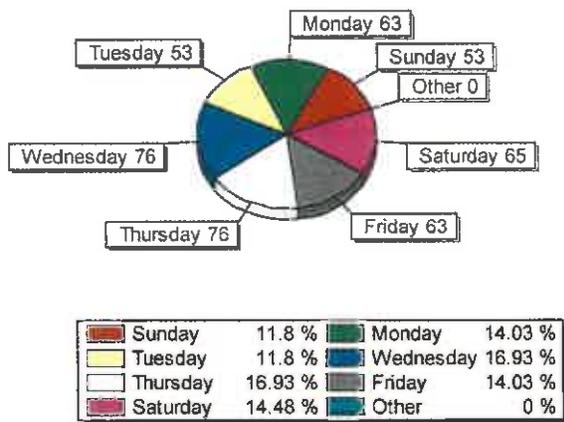


Search Criteria: BLOT.DATE\_REC'D between '01-Jul-2020' and '31-Jul-2020' AND  
 BLOT.PRI\_AGCY = 'LT' AND  
 BLOT.STATT = '0' OR  
 BLOT.STATT = 'CAD' OR  
 BLOT.STATT = 'CLOSED' OR  
 BLOT.STATT = 'OPEN'

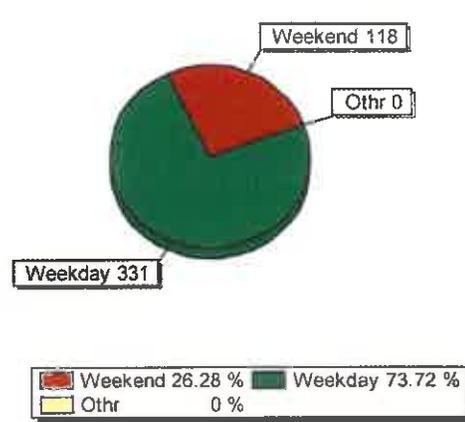
Incident Frequency by Hour of the Day (Using DATE RECD)



By Day of Week



Weekday vs Weekend



Search Criteria: BLOT.DATE\_REC'D between '01-Jul-2020' and '31-Jul-2020' AND  
 BLOT.PRI\_AGCY = 'LT' AND  
 BLOT.STATT = '0' OR  
 BLOT.STATT = 'CAD' OR  
 BLOT.STATT = 'CLOSED' OR  
 BLOT.STATT = 'OPEN'





## Minutes of Suburban Lancaster Sewer Authority

June 25, 2020

The Board of Suburban Lancaster Sewer Authority conducted a remote meeting from the offices of CDM Smith at 280 Granite Run Drive, Suite 160, Lancaster, Pennsylvania, on June 25, 2020 at 4:00 P.M.

The following members of the Board participated by teleconference: James Witman, Randal E. Moyer, Devin Groff, Ruth Hocker and Cynthia Evans-Herr. Also participating by teleconference were Frank P. Mincarelli, Esquire, of Blakinger Thomas, PC, Solicitor; and Thomas C. Donahue, P.E. and Byrne Remphrey, P.E. of CDM Smith, Consulting Engineer.

The minutes of the May meeting were read and, upon motion made by Randal E. Moyer, seconded by Cynthia Evans-Herr, were unanimously approved as submitted.

CORRESPONDENCE: Chairman James K. Witman reviewed all of the items of correspondence received since the last meeting, copies of which are filed with and incorporated into these minutes by reference.

ADMINISTRATIVE ACTION: Chairman James K. Witman presented a proposal from PFM Asset Management LLC (PFM) for an increase in the amount paid by the Authority for preparing the arbitrage reports required by IRS regulations due to recently issued bond series. A motion was made by Cynthia Evans-Herr, seconded by Randal E. Moyer, to increase the compensation to PFM for preparation of the arbitrage reports. The motion carried unanimously.

CONSULTING ENGINEER'S REPORT: Thomas C. Donahue P.E. and Byrne Remphrey, P.E. of CDM Smith reviewed the monthly Engineer's Report, a copy of which is filed with and incorporated into these minutes by reference and discussed the following:

1. Capacity Requests:

a. Millwood Road Lot 1: The revised capacity approval from Pequea Township was received on June 18, 2020 and CDM Smith issued a final capacity approval letter dated June 18, 2020 to CCS Building Group.

b. Meadows of Strasburg: A capacity approval letter from Strasburg Borough dated May 21, 2020 was received and CDM Smith issued a final capacity approval letter dated June 8, 2020 to E.G. Stoltzfus Land, LLC.

2. Review of Development Plans: As detailed in the Development Plan Status Report included in the June Engineer's Report, CDM Smith reported reviewing development plans (initial or revised) for one development project, Penn Grant Commons West, including issuance of a response letter of June 19, 2020 to the Downstream Stormwater Discharge Notice letter of April 13, 2020 from the developer's engineer. The Board expressed a desire to communicate with Pequea Township about the Authority's stormwater concerns, particularly regarding the existing culvert under Penn Grant Road.

3. Municipal Partners: CDM Smith reported that the next escrow payments due will be for the planning and design of the New North Secondary Clarifier and Return Sludge Pumping Station; design of Oxygen Plant Improvements at the WWTP; and construction of a primary electric service upgrade and transformer replacements at the WWTP.

4. Financial Matters:

a. 2020/2021 Budget: CDM Smith presented a final Operating Budget for fiscal year 2020-2021 and a final Five-Year Projected Capital Expenditures Budget. A motion was made by Cynthia Evans-Herr, seconded by Devin Groff, to approve the 2020-2021 Operating Budget. The motion carried unanimously. A motion was made by Cynthia Evans-Herr, seconded by Randal E. Moyer, to approve the Five-Year Projected Capital Expenditures Budget. The motion carried unanimously. CDM Smith also discussed coordinating with Fulton Bank on the annual debt service payments due in June and the annual sweep of the Revenue Fund. As recommended by CDM Smith, the Authority decided there will be no Revenue Fund sweep this fiscal year primarily because the Authority prepaid debt in March 2020 instead. The figures from the newly adopted Operating Budget do not, in the opinion of the Board, warrant the need for a rate increase.

b. QuickBooks Conversion: CDM Smith reported continuing to work with Trout CPA (Trout) to move the Authority's financials to a modern accounting software system (QuickBooks). As conditionally approved by the Authority at the May meeting, the Chart of Accounts was revised to address the Authority's minor comments.

c. Capital Cost Sharing: CDM Smith reported billing Strasburg Borough for its share of applicable costs for capital projects (particularly for Lyndon and Mill Creek Pumping Stations) for the second quarter of 2020.

d. 2020 Construction Fund: The transfer of funds from the BR&I fund to the 2020 Construction Fund was verified in June with Fulton Bank and on the May 31 Trustee Accounts statements. CDM Smith will prepare a Completion Certificate to Fulton Bank for closure of the 2015 Construction Fund.

5. Operation and Maintenance:

a. Notice Regarding Sanitary Wipes: A notice pertaining to sanitary wipes has been included on the sewer bills for the second quarter of 2020. A

grease insert will also be issued with the third quarter sewer bills, as normally done annually.

b. Grease: CDM Smith reported that it will compile the monitoring results/data for the trial use of the biological additive from Kroff Chemical and prepare a cost-benefit analysis for presentation to the Authority at the July meeting. The idea of establishing a regional grease processing/disposal facility for grease from the Authority, the City, LASA, and others was initially discussed with the Authority at the suggestion of a board member.

6. Pre-SLSA Sewer Line Replacement Project: CDM Smith reported tentatively arranging a site visit with TT Technologies and NAPCO Pipe Company for July 15 or 16, 2020 to assess the viability of pipe bursting for this project.

7. Miscellaneous Matters: Silver Lane Pumping Station Trees – The Authority decided not to approve a proposal from Clean Cut for the removal of dead trees and replanting of new trees at this station because the dead trees are not on the Authority's property.

SOLICITOR'S REPORT: Frank P. Mincarelli of Blakinger Thomas, PC reported as follows:

1. He indicated that Samuel Stoltzfus, the developer of Willow Run, has requested a release of the letter of credit securing its 18-month maintenance guaranty which recently expired. The sewer facilities have been inspected by CDM Smith and the repairs made to them have been approved as satisfactory. A motion was made by Cynthia Evans-Herr, seconded by Devin Groff, to release the letter of credit as financial security for the maintenance guaranty. The motioned carried unanimously.

2. Frank then reported on the status of collection activities engaged in over the last month, indicating that 20 liens paying a total of \$14,517.39, were satisfied and 3 new lien foreclosure proceedings were initiated as a result of defaulted payment plans.

3. He reviewed the following requisitions for payment from the Authority's trust accounts for the Board's consideration:

a) Construction Fund Requisition C-02-685 payable to CDM Smith, for Invoice No. 90101353 in the amount of \$6,236.91; and

b) Revenue Fund Requisition #R96-251 payable to SLSA's administrative checking account for administrative expenses in the amount of \$60,000.

A motion was made by Devin Groff, seconded by Randal E. Moyer, to approve the foregoing requisitions as presented. The motion carried unanimously.

TREASURER'S REPORT: Tom Donahue reported that the balance in the administrative checking account as of June 25, 2020, with all bills paid and requisitions processed, was \$99,557.27 and the balance in the escrow account as of that date was \$44,365.45.

A motion was made by Randal E. Moyer, seconded by Devin Groff, to approve payment of all the bills and to accept the report as presented. The motion carried unanimously.

There being no further business, a motion was made by Cynthia Evans-Herr, seconded by Randal E. Moyer, to adjourn the meeting at 6:15 p.m., to meet again in regular session on Thursday, July 23<sup>rd</sup>, at 4:00 P.M. by remote access. The motion carried unanimously.

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(Asst.) Secretary

01163901.6 (41261.001)

**ENGINEER'S REPORT**  
**to the**  
**SUBURBAN LANCASTER SEWER AUTHORITY**

July 23, 2020

Prepared:

July 22, 2020

**CDM**  
**Smith**

# ENGINEER'S REPORT

## SUBURBAN LANCASTER SEWER AUTHORITY

### A. MANAGEMENT PLAN/CAPACITY REQUESTS

The Management Plan and Capacity Request List have been updated as of June 30, 2020 and are attached to this Engineer's Report. The monthly updates to both the EDU tracking by municipality and the tracking of developments without capacity reservation are also attached to this Engineer's Report.

There were no capacity requests submitted to SLSA in June.

Since the June SLSA meeting, there have been no status changes for prior recent capacity inquiries for Millwood Road Lot 6 and the Melvin King farm.

The report of connections to the sewer system and permits issued during the month of June is attached to this Engineer's Report.

### B. DEVELOPMENT PLANS/PROJECTS

The Development Plan Status Report is attached to this Engineer's Report. Since the June SLSA meeting, CDM Smith has reviewed development plans (initial or revised) for one development project, Penn Grant Commons West in Pequea Township. A meeting with Pequea Township officials was also held on July 8, 2020 regarding SLSA's stormwater concerns relative to SLSA's pumping station property adjacent to this development.

### C. INSPECTIONS

During the month of June, CDM Smith inspected construction of new sewer extensions/facilities for Willow Valley SouthPointe at Lakes, Village Park of West Lampeter Township, Eshelman Mill Road Subdivision, and KFG Holdings trucking facility and replacement/repair of a service line at 7 Turnbridge Drive. We also inspected new service connections at 16, 17, 18, and 19 Southside Drive of Penn Grant Commons Phase 4; 12 Verbena Drive of Spring Meadow; 114 Country Meadows Drive of Country Meadows Estates Phase 4; 13 Stoneway Path of Stone Meadow Place; 701, 703, and 705 Danforth Circle of Summerfield; and 480 Millwood Road (Lot 11).

### D. CAPACITY UTILIZATION CALCULATION

CDM Smith has completed the quarterly update of the Calculation of Capacity Utilization to reflect the second quarter of 2020. The calculation compares the net SLSA capacity at the City Plant with the allotted capacity remaining to be used by SLSA and is performed on both a hydraulic and nutrient-limited basis. On a hydraulic basis, the calculation for the second quarter shows 1.94 MGD of remaining capacity prior to consideration of existing commitments and 1.83 MGD of capacity after commitments. On a nutrient-limited basis, the calculation shows 1.10 MGD prior to consideration of existing commitments and 1.01 MGD after commitments.

## E. MUNICIPAL PARTNERS

CDM Smith attended a quarterly Municipal Partners meeting on July 14, 2020. An updated listing of future Capital Sewer Projects was distributed. The next escrow payments due will be for the design of Oxygen Plant Improvements at the WWTP; WWTP Special and Emergency Improvements Deposit No. 5; planning and design of the New North Secondary Clarifier and Return Sludge Pumping Station; and construction of a primary electric service upgrade and transformer replacements at the WWTP.

The City provided an update on the appeal it previously filed with the State Environmental Hearing Board of the PADEP's recent action pertaining to sewage planning exemptions for future development projects within the entire regional service area of the City WWTP. The City has reached a settlement with the PADEP for which the PADEP will resume considering planning exemptions after the City completes its Long-Term Control Plan (LTCP) and the LTCP is approved by the PADEP and U.S. EPA. The City estimates this LTCP effort and approval will take about two years.

The City reported that it has not yet computed recalculated sewer rates for 2019 for each Municipal Partner because the City has not yet completed its annual audit for 2019.

## F. FINANCIAL MATTERS

*Debt Refinancing Consideration* - RBC Capital Markets will be attending the July SLSA meeting to advise the Authority on further debt refinancing opportunities relative to SLSA's 2017 bank loan.

*QuickBooks Conversion* – As authorized at the April SLSA meeting, CDM Smith is continuing to work with Trout CPA (Trout) to move SLSA's financials to a modern accounting software system (QuickBooks). We began entering SLSA's new financial transactions in QuickBooks as of July 1, 2020.

*2020 Bond Issue* – For the 2020 Bond Issue to refinance SLSA's Series of 2015 Bonds and to prepay some debt, the closing occurred on March 18, 2020. Barely Snyder will provide SLSA with a copy of the closing documents binder for this bond issue when it is completed.

## G. BASELINE TAPPING FEE EDUs

CDM Smith has progressed with the annual process of determining whether or not any additional tapping fees can be assessed to SLSA's metered accounts, in circumstances where flows over the past year have exceeded the baseline number of tapping fee EDUs that was first established in 2012. We have examined the 22 monthly metered accounts (which are the largest of the metered customers) and the 64 quarterly metered accounts. Preliminary results appear to indicate that seven monthly metered accounts and seven quarterly metered accounts had a consumptions figures over the past year that exceeded the respective baseline number of EDUs. We will evaluate these monthly and quarterly metered accounts further, including contacting the customers if necessary. We will review our further findings with the Authority at the July meeting.

## H. SEWER SYSTEM OPERATION AND MAINTENANCE

A meeting was held with representatives of the City of Lancaster on July 8, 2020 to discuss operation and maintenance issues. A summary of ongoing issues discussed with the City is attached to this Engineer's Report. The monthly update of the pumping station flow tabulation is also attached to this Engineer's Report.

## **I. EROSION WITHIN SLSA EASEMENT NEAR CITY WWTP OUTFALL**

At the January SLSA meeting CDM Smith reported being informed by an inspector for Lancaster Township that the gabion baskets at the City's WWTP outfall (72" diameter) to the Conestoga River have begun to be undermined and collapse into the outfall channel. These gabion baskets were installed by SLSA when the Lyndon Forcemain was constructed, which runs under the outfall channel within a 20 feet wide sewer easement. A 36" diameter stormwater outfall of the Township also discharges to the WWTP outfall channel. CDM Smith retrieved SLSA's stream encroachment permit (GP-5) and design drawings for Lyndon Forcemain from archive to check for any provisions for maintenance responsibility of the gabion baskets. The City subsequently expressed concern to CDM Smith about this matter on July 7, 2020 (see emails attached to this Engineer's Report). CDM Smith intends to make investigation of this matter (including meeting with a contractor at the site) and development and evaluation of outfall channel restoration alternatives a higher priority. We anticipate the restoration project will require a new PADEP stream encroachment permit and involve public bidding.

## **J. PRE-SLSA SEWER LINE REPLACEMENT PROJECT**

This project had been on hold since April 2019 due to higher priority SLSA maintenance projects, particularly repair/replacement of controls, pumps, and appurtenances at certain SLSA stations. At the March 2020 meeting, CDM Smith reported having preliminary discussions with a pipe bursting equipment manufacturer (TT Technologies) regarding the application of this trenchless technology for to replace the pre-SLSA sewer lines. We subsequently conducted a site-walk with TT Technologies and NAPCO Pipe Company on July 15, 2020 to further discuss the feasibility of pipe bursting for this specific project. Based these discussions and the site-walk, we recommend proceeding with preparing a conceptual design and budgetary construction cost estimate for this sewer replacement project using pipe bursting methods.

## **K. INFILTRATION/INFLOW EVALUATION**

At the January SLSA meeting, the Board suggested that CDM Smith consider if comprehensive evaluation/investigation of inflow/infiltration (I/I) problems in SLSA's system would be worthwhile. At the February meeting, CDM Smith presented an outline of a suggested approach for an I/I program for SLSA's system. The Board directed CDM Smith to proceed with the desktop assessment portion of the suggestion I/I program. We have begun compiling data for the desktop assessment.

## **L. PENNSYLVANIA ONE CALL**

During the month of June, CDM Smith received a total of 237 tickets from PA One Call System, Inc., 56 of which required sewer location.

**SUBURBAN LANCASTER SEWER AUTHORITY  
MANAGEMENT PLAN  
AS OF JUNE 30, 2020**

ID #	DEVELOPMENT NAME	TOWNSHIP	LETTER ISSUED	EDU'S			COMMITTED UNUSED CAPACITY (GPD)
				TOTAL	ISSUED	IN SERVICE	
44	Country Meadow Estates	West Lampeter	3-Mar-91	86	67	66	7,000
25	Willow Acres Stage 1	Pequea	30-Dec-92	30	0	0	10,500
25	Willow Acres Stage 2	Pequea	30-Dec-92	58	0	0	20,300
25	Willow Acres Stage 3	Pequea	30-Dec-92	72	0	0	25,200
88	Crossings at Rocky Springs (Phase I)	West Lampeter	21-Sep-00	42	40	40	700
99	Rocky Springs Park	West Lampeter	17-Oct-02	5.5	4.5	4.5	350
109	Willow Valley Business Center	West Lampeter	22-Jul-04	18	10	10	2,800
115	Greenleaf Ph I - Mentzer	West Lampeter	10-May-05	2	1	1	350
116	Evans Subdivision	Pequea	16-Jun-05	3	3	2	350
126	Binkley Property (Conestoga Reserve)	Lancaster	24-May-07	27	26	26	350
141	Brubaker Silver Lane Lots	West Lampeter	8-Jun-12	2	1	1	350
143	CJPS, LLC (NDP Apts)	Lancaster	20-Dec-12	8	0	0	2,800
Misc	Millwood Road Lot 11	Pequea	27-Nov-18	5	5	5	0
Misc	Sheetz in Willow Street	West Lampeter	27-Feb-20	8	8	0	2,800
Misc	Millwood Road Lot 1	Pequea	30-Jun-20	3	3	0	1,050
TOTALS				370	169	156	74,900

**SUBURBAN LANCASTER SEWER AUTHORITY  
SEWAGE CAPACITY REQUESTS  
AS OF JUNE 30, 2020**

PEQUEA TOWNSHIP						
ID #	DEVELOPMENT NAME	CAPACITY		CUMULATIVE		APPLICANT'S COMMITMENT DATE
		EDU'S	FLOW (GPD)	EDU'S	FLOW(GPD)	
	TOTALS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	

WEST LAMPETER TOWNSHIP						
ID #	DEVELOPMENT NAME	CAPACITY		CUMULATIVE		APPLICANT'S COMMITMENT DATE
		EDU'S	FLOW (GPD)	EDU'S	FLOW(GPD)	
94	Sangrey Subdivision	1	350	1	350	12-Feb-02
137	Herr Farm at Willow Valley (SouthPointe at Lakes)	92	32,200	93	32,550	28-Feb-19
	Signature Stone Inc.	<u>2</u>	<u>700</u>	<u>95</u>	<u>33,250</u>	30-Jun-19
	TOTALS	95	33,250	95	33,250	

LANCASTER TOWNSHIP						
ID #	DEVELOPMENT NAME	CAPACITY		CUMULATIVE		APPLICANT'S COMMITMENT DATE
		EDU'S	FLOW (GPD)	EDU'S	FLOW(GPD)	
	TOTALS	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	

	<b>TOTALS</b>	<u>95</u>	<u>33,250</u>	<u>95</u>	<u>33,250</u>	
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\* Where gallons does not equal (EDUs x 350 gpd/EDU), it is because the developer had estimated flow using different criteria when making request.

**SUBURBAN LANCASTER SEWER AUTHORITY  
ALLOCATION OF ADDITIONAL CAPACITY PURCHASE OF 2.0 MGD  
EDU TRACKING BY MUNICIPALITY  
AS OF JUNE 30, 2020**

	<u>West Lampeter Township</u>	<u>Pequea Township</u>	<u>Lancaster Township</u>	<u>Unallocated (1)</u>
Remaining Capacity from Previous Month, EDUs	1,190	351	130	706
New Capacity Requests (2)	1	8	0	0
Recovered Capacity	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Remaining Capacity (EDUs)	1,189	343	130	706

(1) Current total of unallocated capacity = 706 EDUs.

806 Previous EDUs minus 100 EDUs transferred to Lancaster Township = 706 EDUs  
 1,306 Previous EDUs minus 500 EDUs allocated to West Lampeter Township = 806 EDUs  
 1,271 Previous EDUs plus 35 EDUs recovered from Paradise Township = 1,306 EDUs  
 1,306 Previous EDUs minus 35 EDUs allocated to Paradise Township = 1,271 EDUs.  
 1,341 Previous EDUs minus 35 EDUs transferred to Lancaster Township = 1,306 EDUs  
 1,341 EDUs = 341 unallocated excess EDUs\* plus 1,000 additional EDUs available for  
 allocation per CDM's September 2005 capacity evaluation  
 \*341 unallocated excess EDUs = 812 EDUs allocated to Strasburg Region and Exces:  
 SLSA in August 1996, minus 286 EDUs purchased by Strasburg Borough in 1998,  
 minus 185 EDUs transferred to Lancaster Township in 2004.

(2) 1 EDU for Spring Meadow/Peony, 5 EDUs for Penn Grant Commons Phase 4, and 3 EDUs for Millwood Road Lot 1

**SUBURBAN LANCASTER SEWER AUTHORITY  
TRACKING OF DEVELOPMENTS  
WITHOUT CAPACITY RESERVATION  
AS OF JUNE 30, 2020**

<u>Development</u>	<u>Township</u>	<u>Total EDUs</u>	<u>Permits Issued</u>	<u>EDUs in Service</u>
<b><u>Active (1)</u></b>				
Mill Creek Development Ph. 1	West Lampeter	112	112	111
Mill Creek Development Ph. 2	West Lampeter	90	88	88
Mill Creek Development Ph. 3	West Lampeter	13	13	12
Mill Creek Development Ph. 5	West Lampeter	7	3	3
Willow Bend Farms	West Lampeter	88	88	84
Summerfield	Pequea	148	148	139
Penn Grant Commons	Pequea	169	167	162
Stone Meadow Place	West Lampeter	14	11	8
Good Subdivision	West Lampeter	2	1	0
Willow Ridge Manor	West Lampeter	30	29	29
Elam Miller (residential)	Pequea	1	0	0
Garber Farm	West Lampeter	2	1	1
2531 Willow Street Pike	West Lampeter	1	0	0
Peony Road Tract (Spring Meadow)	West Lampeter	17	16	15
1266 Gypsy Hill Rd Subdivision	West Lampeter	1	0	0
Village Park (of W.L. Twp)	West Lampeter	2	0	0
1376 New Danville Pike	Lancaster	1	0	0
Willow Woods Village	West Lampeter	9	0	0
Eshelman Mill Road Subdiv.	West Lampeter	3	0	0
Weis Gas-N-Go (Kendig Square)	West Lampeter	1	NA	0
Stuedler Tract	Pequea	23	0	0
Penn Grant Commons West	Pequea	194	0	0
<b><u>Inactive</u></b>				
Grouse Pointe Farm	West Lampeter	88	0	0
Rockvale Road Properties	West Lampeter	19	0	0
Millwood Road Lot 6	Pequea	2	0	0
1502 Mentzer Rd (Melvin King)	West Lampeter	2	1	1

(1) With Township approval of capacity.

**SUBURBAN LANCASTER SEWER AUTHORITY**  
**MONTHLY STATUS REPORT**  
**JUNE 30, 2020**

Number of Permits Issued (See Attached List)..... 7  
 Number of Service Connection Inspections..... 11

Fees Collected:

Tapping Fee	9	@	\$3,000.00 Each =	\$ 27,000.00
Tapping Fee	0	@	\$2,500.00 Each =	\$ -
Connection Fee	0	@	\$1,200.00 Each =	\$ -
Inspection Fee - Gravity	7	@	\$225.00 Each =	\$ 1,575.00
Inspection Fee - Pump	0	@	\$450.00 Each =	\$ -
<b>Total</b>				<b><u>\$ 28,575.00</u></b>

Summary of Existing Accounts:

	<u>Flat Rate</u>		<u>Metered (1)</u>		
	No.	EDUs	No.	Billing EDUs	Planning EDUs
Pequea Township	664	970	8	26	15
Lancaster Township	969	1,355	8	88	43
West Lampeter Township	4,266	4,815	71	1,906	907
<b>Totals:</b>	<b><u>5,899</u></b>	<b><u>7,140</u></b>	<b><u>87</u></b>	<b><u>2,020</u></b>	<b><u>965</u></b>

(1) Billing EDUs are based on 15,000 gallons per quarter per EDU, or 165 GPD/EDU.  
 Planning EDUs are based on 350 GPD/EDU.

City of Lancaster Customers:

Fairfield Acres	243 EDUs
Conestoga Gardens	23 EDUs
Conestoga Landing	72 EDUs
<b>Total</b>	<b><u>338 EDUs</u></b>

**SUBURBAN LANCASTER SEWER AUTHORITY  
CONNECTION PERMIT LOG  
JUNE 2020**

<b>No.</b>	<b>Date Issued</b>	<b>Owner's Name</b>	<b>Connection Location</b>	<b>MP Code</b>	<b>Twp.</b>	<b>Start Date</b>
6223	03/20/19	Millfield Construction	705 Danforth Circle (GP C-68)	Misc	P	06/05/20
6224	03/20/19	Millfield Construction	703 Danforth Circle (GP C-69)	Misc	P	06/05/20
6225	03/20/19	Millfield Construction	701 Danforth Circle (GP C-70)	Misc	P	06/05/20
6261	09/19/19	L. Savitch & G. Konat	114 Country Meadows Drive	44	W	06/02/20
6275	10/17/19	Willow Valley Communities	480 Millwood Rd - Lot 11 (GP C-72)	Misc	P	06/17/20
6288	02/18/20	Garman Builders	16 Southside Drive	136	P	06/02/20
6289	02/18/20	Garman Builders	17 Southside Drive	136	P	06/01/20
6290	02/18/20	Garman Builders	18 Southside Drive	136	P	06/01/20
6291	02/18/20	Garman Builders	19 Southside Drive	136	P	06/01/20
6296	03/02/20	Berks Homes	13 Stoneway Path	131	W	06/04/20
6297	03/27/20	C&F Contracting	12 Verbena Drive	147	W	06/02/20
6300	06/05/20	C&F Contracting	10 Verbena Drive	147	W	
6301	06/10/20	Garman Builders	11 Southside Drive	136	P	
6302	06/10/20	Garman Builders	12 Southside Drive	136	P	
6303	06/10/20	Garman Builders	13 Southside Drive	136	P	
6304	06/10/20	Garman Builders	14 Southside Drive	136	P	
6305	06/10/20	Garman Builders	15 Southside Drive	136	P	
6306	06/30/20	Building Forward Partners	598 Millwood Rd - Lot 1	Misc	P	

## **SUBURBAN LANCASTER SEWER AUTHORITY**

### **Development Plan Status Report July 2020**

#### Grouse Pointe Farm

CDM Smith reviewed development plans and issued an approval letter in August 2009. Chris Falencki and Jill Nagy attended the September 2017 and January 2018 SLSA meetings to discuss a cost sharing proposal with the Board. Frank Mincarelli drafted a revised Sewer Extension and Reimbursement Agreement that was sent to the developer in April 2018. CDM Smith contacted the developer on the status of this development in January 2019 and was informed that there is still no schedule for construction of this development.

#### Penn Grant Commons

Construction of Phases 1 and 2 has been completed and sewer facilities were dedicated to SLSA at the September 2016 SLSA meeting. The Developer's Agreement for Phases 3 and 4 was signed by SLSA at the March 22, 2018 SLSA meeting. CDM Smith provided inspection services during construction. For Phase 4, CDM Smith reviewed record plans and issued an initial approval letter dated March 12, 2019. Further revised record plans (with final rim elevations) were received June 5, 2019 and AutoCAD and Mylar copies of the approved/final record plans were received on June 12, 2019.

#### CJPS, LLC (New Danville Pike Apartments)

CDM Smith reviewed development plans for this grinder pump project and issued an approval letter dated July 17, 2013.

#### Willow Acres

CDM Smith reviewed sanitary sewer plans and easement documents and issued a development approval letter in November 2014.

CDM Smith reviewed the pumping station fourth revised plans and issued an approval letter dated July 21, 2015. A Water Quality Permit was received in a letter from PADEP dated April 10, 2015.

CDM Smith was contacted by the developer to construct the portion of the force main in the PENNDOT right-of-way in Millwood Road. Frank Mincarelli drafted a specific and inspection and legal escrow. Construction on this portion of the force main was completed on April 25, 2016. Manhole No. 1442 was not addressed at that time, but will need to be lined when the project proceeds. 85 percent of the financial security cash escrow was reimbursed to Millwood Land Co. at the September 2016 SLSA meeting.

A Developer's Agreement for Stage 1 and the pumping station was executed by SLSA at the December 15, 2016 meeting.

CDM Smith was contacted in March 2020 regarding a possible ownership change to Vanguard Development Group for this development. In coordination with Blakinger Thomas we have subsequently responded to several inquiries from Vanguard on the approval status of the project with SLSA and on forms/documents/permits that would need to be transferred or reissued to the potential new owner.

### Willow Run (597 Millwood Road Tract)

Phase 1 was dedicated to SLSA on June 30, 2016. A Developer's Agreement for Phases 2 and 3 was executed by the Authority at the April 26, 2018 meeting. CDM Smith provided inspection services during construction. Record plans were reviewed and an approval letter dated August 6, 2018 was issued. Dedication documents were conveyed to the Developer on September 17, 2018 and executed by SLSA at the December 20, 2018 meeting. The last building (with six dwelling units) was connected to SLSA's system in July 2019. Remaining inspection escrow (\$5,892) was refunded in September 2019. The Letter of Credit (LOC) amount was reduced to 15% of the original amount during the 18-month guarantee and maintenance period that expires on June 20, 2020. The final wearing course for the private streets was inspected by CDM Smith on November 20, 2019 and found to be satisfactory. Prior to the expiration of the LOC, CDM Smith conducted a final inspection of sewage facilities on June 8, 2020 and identified some minor defects that were satisfactorily repaired by DH Funk on June 18, 2020. Blakinger Thomas issued a letter to Mid Penn Bank on June 26, 2020 for approval of release of the LOC.

### Stone Meadow Place

CDM Smith received and reviewed revised plans and issued an approval letter dated July 20, 2017. A Developer's Agreement was signed by SLSA at the May 24, 2018 meeting. CDM Smith provided inspection services during construction. We reviewed record plans, issued an approval letter dated January 24, 2019, and subsequently received required copies of the approved record plans. At the Developer's request, the Letter of Credit was reduced to 15 percent of the construction cost estimate, as approved by the Authority at the March 2019 meeting.

### Willow Valley Crossroads

*Turkey Hill* - CDM Smith reviewed revised plans for the service connection for the proposed Turkey Hill and issued an approval letter dated August 18, 2016. CDM Smith provided inspection services during construction. Connection to sewer was made on June 29, 2018. CDM Smith has reviewed initial record plans received on January 31, 2020 and is coordinating with Willow Valley on our comments, including reconnecting with Willow Valley in June to finalize the record plans.

*CVS and Fulton Bank* - CDM Smith reviewed revised plans and issued an approval letter dated March 28, 2017. CDM Smith provided inspection services during construction. We reviewed record plans and issued an approval letter dated January 24, 2019. We received digital copies of the approved record plans on December 18, 2019.

*Morr Outdoors* - CDM Smith provided inspection services during construction of this private sewer extension. We received digital copies of the approved record plans on December 18, 2019.

*Phase 3 – Mick's Pub, Starbucks, and Chapel Relocation* - CDM Smith reviewed plans and issued a comment letter dated January 16, 2018. We reviewed revised plans and issued an approval letter dated April 4, 2018. CDM Smith is providing inspection services during construction. CDM Smith has reviewed initial record plans received on January 31, 2020 and is coordinating with Willow Valley on our comments, including reconnecting with Willow Valley in June to finalize the record plans.

### Willow Woods Village

CDM Smith reviewed plans for this sewer connection and issued a comment letter dated August 8, 2018. We reviewed revised plans and issued an approval letter dated November 29, 2018. We reviewed revisions to the approved plans and issued a new approval letter dated January 10, 2019. CDM Smith provided inspection services during construction, which was completed in the 2019. Although no sewer facilities will be dedicated to the SLSA for this project (which involved

the installation of a private 150 LF service lateral/line), we requested record plans from CCS Building Group in June 2020.

#### Willow Valley – Addition to the Glen

CDM Smith provided inspection services during construction. We are awaiting receipt of record plans.

#### Elam Miller – Bird-In-Hand Pet Structures

CDM Smith reviewed plans for the installation of an additional grinder pump unit in the commercial part of the property (does not require additional capacity) and a grinder pump unit for a residential use on the property, and issued an approval letter dated September 30, 2016. CDM Smith will provide inspection services during construction.

#### Country Meadows Estates Phase 4

CDM Smith reviewed plans and issued comment letters dated June 1 and July 13, 2017, and March 15, 2018. We reviewed revised plans and issued an approval letter dated June 12, 2018. A bonafide bid was provided, and CDM Smith issued a letter dated November 26, 2018 establishing the Letter of Credit and construction inspection escrow amounts. A Developer's Agreement was executed by the Authority at the December 20, 2018 SLSA meeting. Construction inspection escrow and the Letter of Credit have both been provided. We received and reviewed record plans in May 2019 from en Value Engineering LLC. On June 3, 2019, the excavation contractor (B.R. Kreider) notified us that some previously installed sewer laterals needed to be extended, which was done in June and inspected by CDM Smith. Numerous iterations of revised record plans were received from November 19, 2019 through February 5, 2020. The revised record plans of February 5, 2020 were approved and final copies of the plans (mylar, paper, PDF, and CADD) were provided to CDM Smith.

#### 1266 Gypsy Hill Road Subdivision (Keener Tract)

CDM Smith reviewed plans for this sewer connection and issued a comment letter dated March 2, 2018. We reviewed revised plans and issued an approval letter dated March 16, 2018.

#### Village Park

CDM Smith reviewed plans for this sewer connection and issued an approval letter dated October 25, 2018. A Developer's Agreement dated November 15, 2018 was executed by the Township and the Authority. CDM Smith is providing inspection services during construction, which is nearing completion. We requested record plans in July 2020.

#### Millwood Road Lot 11 (laundry facility for Willow Valley)

CDM Smith reviewed plans for this sewer connection and issued comment letters dated October 15 and November 29, 2018. We reviewed revised plans and issued an approval letter dated December 27, 2018. The 5-EDU sewer permit was issued on October 18, 2019. The builder (CCS Building Group) notified CDM Smith that the existing private low-pressure forcemain serving the adjacent commercial lot (Bird-in-Hand Pet Structures) will need to be excavated and set deeper to accommodate proposed grading for Lot 11. CDM Smith met with CCS and Bird-in-Hand on this matter on October 17, 2019. We subsequently reviewed plans from David Miller/Associates for the relocation of the existing private low-pressure forcemain and eventually issued plan approval on November 8, 2019. CDM Smith inspected this sewer construction work, including installation and cycling of the grinder pump system on June 17, 2020. We requested record plans in July 2020.

Millwood Road Lot 1 (office and warehouse building for CCS Building Group)

CDM Smith reviewed plans for this sewer connection and issued a comment letter dated December 27, 2018. We reviewed revised plans and issued an approval letter dated February 1, 2019. A request of April 24, 2020 from CCS Building Group to reduce the requested sewage capacity amount from 6 EDUs to 3 EDUs was conditionally approved by the Authority at the April 2020 meeting, pending receipt of a revised capacity approval documentation from Pequea Township. A revised final capacity approval letter was issued on June 18, 2020 after receiving capacity approval documentation from the Township that same day.

SouthPointe at Lakes (formerly called Herr Farm at Willow Valley)

CDM Smith reviewed development plans from RGS Associates and issued a comment letter dated February 25, 2019. We received revised plans on April 15, 2019 and issued an email with comments on May 3, 2019. Due to the unusual alignments of the proposed sanitary sewers (as shown on the original plans and revised plans with inadequately adjusted alignments, the Author expressed a preference for the sewers to remain private rather than be dedicated to SLSA. CDM Smith informed the builder (CCS Building Group) of this decision on July 3, 2019. Revised plans were received on July 30, 2019 that are being reviewed. CDM Smith subsequently reviewed revised plans of August 25 and September 4, 2019. A plan approval letter was issued on October 1, 2019, along with developer's agreement prepared by Blakinger Thomas. The signed agreement and estimated inspection escrow amount were received from Willow Valley on October 7, 2019. CDM Smith is providing inspection services during construction. Construction of the sewer extension was completed in April 2020. We requested record plans in July 2020.

Eshelman Mill Road Subdivision

CDM Smith received development plans on May 10, 2019, followed by plan review escrow on May 28, 2019, from the developer's engineer (Harbor Engineering) that are being reviewed. We responded to Harbor Engineering on June 14, 2019 with our comments on the plans. Harbor Engineering provided revised plans on June 17, 2019. We issued a plan approval letter to Harbor on July 16, 2019 and developer's agreement on September 12, 2019. The signed developer's agreement was returned for SLSA execution in December 2019. Agreed inspection escrow and a letter of credit were provided on January 15, 2020. CDM Smith is providing inspection services during construction, which was started by Custom Home Group on June 15, 2020.

Weis Markets Gas-N-Go (1 EDU business with Kendig Square)

CDM reviewed development plans dated April 4, 2019 for this small project within Kendig Square and issued an email with comments on May 6, 2019 to Weis' engineer (HRG). Review escrow was received on April 26, 2019. Revised plans were received on May 22, 2019 and June 7, 2019. CDM Smith reviewed the revised plans and issued a plan approval letter to HRG on June 21, 2019.

Signature Stone Inc./Going for the Green LLC (2 EDU business)

Development plans and engineering review escrow (\$750) for this 2 EDU development were received by CDM Smith from Rettew Associates on July 15, 2019. We issued plan review comments by email on August 1, 2019. The signed developer's agreement was returned on August 9, 2019 and inspection escrow was provided on October 16, 2019. CDM Smith reviewed several iterations of revised plans (August 2 and September 23) and eventually issued a plan approval letter on October 4, 2019. CDM Smith will provide inspection services during construction. CDM Smith reviewed and approved a Highway Occupancy Permit for the project in early February 2020.

### Sheetz, Inc.

A final capacity approval letter was issued on July 16, 2019. A draft developers agreement was sent to Sheetz' engineer (RGS Associates) from Blakinger Thomas on August 1, 2019. Development plans were initially received on August 16, 2019, and engineering review escrow (\$750) was received on September 3, 2019. After several iterations of plan reviews through plans of February 7, 2020, CDM Smith issued a plan approval letter on February 11, 2020. Subsequently, the signed developer's agreement (as revised by Blakinger Thomas) and inspection escrow (\$4,850) were received on June 24, 2020. CDM Smith is providing inspection services during construction.

### 1891 Windy Hill Road Subdivision (1 EDU residence)

A final capacity approval letter was issued on July 23, 2019. Development plans from PennTerra Engineering, Inc. and engineering review escrow (\$750) were received on August 14, 2019. We responded to PennTerra on September 9, 2019 with our plan review comments. We subsequently reviewed revised plans and issued a plan approval letter on October 10, 2019, along with a short-form developer's agreement prepared by Blakinger Thomas. The signed developer's agreement and inspection escrow were received on February 6, 2020. CDM Smith provided inspection services during construction, which was completed on May 18, 2020. We requested record plans in June 2020 for new sewer lateral installed for this project.

### Stuedler Tract Commercial Development (23 EDUs)

A final capacity approval letter was issued on September 30, 2019.

### Penn Grant Commons West (194 EDUs)

A final capacity approval letter was issued on December 13, 2019. Blakinger Thomas sent a draft developer's agreement to the developer on December 17, 2019. Engineering escrow \$5,820 was received on February 12, 2020. On April 10, 2020, CDM Smith provided requested Component 3 sewage planning input on SLSA's system to the developer's engineer (RGS Associates). We reviewed the land development plans received on February 12, 2020 and responded with review comments on May 6, 2020. CDM Smith issued a response letter on June 19, 2020 to the Downstream Stormwater Discharge Notice letter of April 13, 2020 from RGS Associates. SLSA officials subsequently met with Pequea Township officials on July 8, 2020 regarding SLSA's stormwater concerns, as documented in a letter of July 20 from Blakinger Thomas to the Township.

### KFG Holdings

This project is a redevelopment of the former car wash property at 1004 Willow Street Pike to be a trucking facility. The facility includes a truck wash bay and a grit-oil interceptor. Revised land development plans by dH Enterprises were approved by CDM Smith in March 2020. CDM Smith is providing inspection services during construction. Connection was made to SLSA's system on May 21, 2020, including installation of a new sewer lateral because the existing sewer lateral was found to be severed and capped. The grit-oil interceptor was installed and inspected on June 4, 2020. We requested record plans in July 2020.

### Development Projects with Sanitary Sewer Extensions Awaiting Final Dedication

SLSA is awaiting final dedication of the sanitary sewer extensions for the following developments:

- Country Meadows Estates Phases II and III – CDM Smith sent a letter to the developer on June 14, 2019 requesting an update on the status of this project.
- Mill Creek Community –
  - Phase 4 - Streets not yet dedicated. CDM Smith sent a letter to the developer (Charter Homes) on June 21, 2019 requesting an update on the status of this project.
  - Phase 5 – Streets will be privately owned (not dedicated to West Lampeter Township). After final paving is completed, SLSA will be granted an easement for the streets and sewer facilities will be dedicated to SLSA.
- Conestoga Reserve - Streets not yet dedicated, as reconfirmed with Lancaster Township on June 5, 2019. JPM Keller contacted CDM Smith on June 23, 2020 to notify us that the wearing course will be installed soon and then they will coordinate with SLSA to dedicate the sewage facilities.
- River View Estates (Ketterline Builders Development) - Streets not yet dedicated to West Lampeter Township.
- Greenleaf Estates Phase 2 - Streets will be privately owned (not dedicated to West Lampeter Township). After final paving is completed, SLSA will be granted an easement for the streets and sewer facilities will be dedicated to SLSA. The last unit for this development was connected to SLSA's system on August 1, 2019. CDM Smith conducted a final inspection on January 24, 2020 and confirmed that the condition of the sewage facilities is acceptable. Blakinger Thomas is coordinating with the developer on SLSA's acceptance of dedication of the sewage facilities. A letter of credit was provided to SLSA on May 18, 2020 for the 18-month maintenance/warranty period.
- Willow Ridge Manor - Streets not yet dedicated to West Lampeter Township.
- Peony Road Tract (Spring Meadow) – Streets not yet dedicated to West Lampeter Township. Sewer extension construction was completed in 2018.
- Penn Grant Commons Phase 4 – Streets will be privately owned (not dedicated to Pequea Township). Sewer extension construction was completed in 2019. After final paving is completed, SLSA will be granted an easement for the streets and sewer facilities will be dedicated to SLSA. The developer (Oak Hill Partners) submitted a request to SLSA on June 22, 2020 to reduce the letter of credit.

**SUBURBAN LANCASTER SEWER AUTHORITY**  
**ANALYSIS OF REMAINING SEWAGE CAPACITY AT CITY PLANT (1)**  
**HYDRAULIC BASIS**  
**JUNE 2020**

	3rd Quarter 2019	4th Quarter 2019	1st Quarter 2020	2nd Quarter 2020
Gross SLSA Sewage Flow (2)	170,573,000	186,663,000	213,048,000	208,971,000
Quarterly Precipitation (inches) (3)	7.8	10.6	9.1	10.6
Adjustment for Strasburg Borough Actual Usage	16,612,053	15,889,816	16,026,417	18,414,182
Net SLSA Sewage Flow	153,960,947	170,773,184	197,021,583	190,556,818
Allotted SLSA Capacity at City Plant (4)	366,730,000	366,730,000	366,730,000	366,730,000
Net Available SLSA Sewage Capacity	212,769,053	195,956,816	169,708,417	176,173,182
Net Available SLSA Sewage Capacity (GPD) (5)	2,338,121	2,153,372	1,864,928	1,935,969
Net Available SLSA Sewage Capacity (EDUs) (6)	6,680	6,152	5,328	5,531
Committed Unused EDUs (7)	208	211	217	214
Committed Reserved EDUs (8)	108	103	95	95
EDU's Available After Commitments	6,364	5,838	5,016	5,222
GPD Available After Commitments	2,227,521	2,043,472	1,755,728	1,827,819

**Notes:**

- (1) All figures are in gallons per quarter unless otherwise specified.
- (2) Based on City billing records.
- (3) Precipitation data from Millersville University's Weather Information Center website.
- (4) Based on split of 4.03 MGD to SLSA and 0.45 MGD to Strasburg Borough of total 4.48 MGD City Plant capacity. (4.03 MGD x 91 days/quarter = 366,730,000 gallons/quarter)
- (5) Based on 91 days/quarter.
- (6) Based on 350 gallons/day/EDU.
- (7) From SLSA Management Plan.
- (8) From SLSA Capacity Request List.

**SUBURBAN LANCASTER SEWER AUTHORITY  
ANALYSIS OF REMAINING SEWAGE CAPACITY AT CITY PLANT (1)  
NUTRIENT-LIMITED BASIS  
JUNE 2020**

	3rd Quarter 2019	4th Quarter 2019	1st Quarter 2020	2nd Quarter 2020
Gross SLSA Sewage Flow (2)	170,573,000	186,663,000	213,048,000	208,971,000
Quarterly Precipitation (inches) (3)	7.8	10.6	9.1	10.6
Adjustment for Strasburg Borough Actual Usage	16,612,053	15,889,816	17,694,417	18,414,182
Net SLSA Sewage Flow	153,960,947	170,773,184	195,353,583	190,556,818
Allotted SLSA Capacity at City Plant (4)	290,290,000	290,290,000	290,290,000	290,290,000
Net Available SLSA Sewage Capacity	136,329,053	119,516,816	94,936,417	99,733,182
Net Available SLSA Sewage Capacity (GPD) (5)	1,498,121	1,313,372	1,043,257	1,095,969
SLSA-Generated Sewage Capacity Based on Nutrient Offsets (GPD) (6)	23,600	23,600	23,600	23,600
Net Available SLSA Sewage Capacity (EDUs) (7)	4,348	3,820	3,048	3,199
Committed Unused EDUs (8)	208	211	217	214
Committed Reserved EDUs (9)	108	103	95	95
EDU's Available After Commitments	4,032	3,506	2,736	2,890
GPD Available After Commitments	1,411,121	1,227,072	957,657	1,011,419

**Notes:**

- (1) All figures are in gallons per quarter unless otherwise specified.
- (2) Based on City billing records.
- (3) Precipitation data from Millersville University's Weather Information Center website.
- (4) Based on split of 3.19 MGD to SLSA and 0.36 MGD to Strasburg Borough of total 3.55 MGD City Plant capacity. (3.19 MGD x 91 days/quarter = 290,290,000 gallons/quarter)
- (5) Based on 91 days/quarter.
- (6) Based on number of existing properties with on-lot systems that connected to sewer.
- (7) Based on 350 gallons/day/EDU.
- (8) From SLSA Management Plan.
- (9) From SLSA Capacity Request List.

# SUBURBAN LANCASTER SEWER AUTHORITY

## Operation and Maintenance Meeting

### MINUTES

Meeting Date – July 8, 2020

Attendees: Ed Mastromatteo – City of Lancaster  
~~Matt Lehr – City of Lancaster~~  
Chris Hilditch – City of Lancaster  
Adam Smith – CDM Smith

#### 1. Grease Cleaning

JG Environmental cleaned Sterling Place PS on June 24 and has been placed this station on a biweekly cleaning schedule due to increased grease accumulation that has occurred during the COVID-19 pandemic.

Lyndon PS was last cleaned on April 27. As previously reported, JG Environmental's attempted to prescreen non-grease materials (trash/debris) at their facility prior to disposal of the grease at a treatment facility (sludge digester), rather than at a landfill. This prescreening attempt was not successful due to the large portion of rags found in the grease that inhibits sufficient screening. As requested by the Authority at the April 30, 2020 meeting, we will request that JG Environmental reattempt to prescreening SLSA's grease after the current COVID-19 restrictions are lifted. This is scheduled for July 14 in coordination with a vendor trailer demonstration of a septic receiving prescreening equipment to determine if grease prescreening is possible.

#### 2. Biological Treatment Trial

CDM Smith provided a status update on the trial use of a proprietary biological additive from Kroff Chemical (Kroff) and their partner, Microbial Discovery Group (MDG), for grease (FOG) and odor (H<sub>2</sub>S) control within SLSA's system, as an alternative to SLSA's current use of Bioxide. The 2-month trial commenced on February 4 with dosing of the additive at four locations including Sterling Place, Hans Herr, Conard Road, and Summer Breeze pumping stations. During the trial, CDM Smith collected wastewater samples weekly at seven monitoring locations (pumping stations) for laboratory analyses of key wastewater parameters. We also conducted three baseline sampling events prior to commencing the trial. Kroff Chemical Company/Microbial Discovery Group also conducted weekly checks on the dosing systems and collecting additional data to further support the trial effort. At the April 7 meeting, the Board approved a request from Kroff to extend the trial for one month with a higher strength (2.5X) additive. The trial extension started in late April and dosing with the 2.5X additive has been completed. CDM Smith conducted reduced weekly sampling (for FOG and sulfate only)

during the trial extension. Kroff previously expressed that the actual FOG loading was greater than they originally estimated, therefore they expected that adding more product (dosing with higher strength additive) would yield more positive results (less FOG, less H<sub>2</sub>S/lower Bioxide usage). CDM Smith is now compiling the monitoring results/data for this trial and preparing a cost-benefit analysis for presentation to the Authority.

### **3. Mill Creek Pumping Station**

Eastern Environmental Contractors, Inc. is proceeding with Pump No. 1 replacement work and completed demolition work on February 12. CDM Smith has approved the pump resubmittal and the pump has been ordered. Shipment of the pump is set for late October.

The previously reported problem with the new PLC controls not functioning as expected with only two pumps in rotation (normally set-up for three pumps in rotation) was corrected by GES Automation and CDM Smith on July 7 by correcting the PLC programming.

### **4. Millstream Village Pumping Station**

At the November 2019 Authority meeting, the Authority authorized CDM Smith to move forward with running 3-phase power to the station as an electrical upgrade to replace the obsolete phase converter (Add-A-Phase). We subsequently prepared a scope of work to solicit cost proposals from several contractors (HEIM, Pagoda, and Garden Spot) for necessary appurtenant electrical work at the station. We received only one estimate (\$83K) from an electrical contractor (HEIM) for the appurtenant site electrical work that was much higher than we expected. Consequently, we are proceeding with preparing more detailed bid documents (construction specifications and plans) for formal bidding of this work and anticipate advertising the project on PennBid in July.

### **5. Goods Run Pumping Station OmniSite Unit**

The City reported it has not been receiving alarm calls recently via the station's OmniSite unit when alarms have occurred. CDM Smith will coordinate with Envirep to investigate and correct/repair this OmniSite issue.

### **6. Mechanical Pipe Painting**

I.K. Stoltzfus has been executing with the mechanical pipe painting work at SLSA's three largest pumping stations along with several valve vaults at these stations and others. All contract work, except the repainting work at Mill Creek PS related to the pending Pump No. 1 replacement, has been completed. The remaining work at Mill Creek PS will be completed after Eastern Environmental installs the new Pump No. 1 later this year.

### **7. Bypassing Availability at SLSA's Three Largest Pumping Stations**

The City previously expressed a concern with resiliency at pumping stations that do not have bypass connections available on associated force mains (particularly the Lyndon Pumping

Station). This type of station bypass could be utilized during construction of major station upgrades/repairs, or during an unforeseen catastrophic event at a pumping station. The City has a trailer-mounted, diesel powered pump that could be utilized with these types of connections. CDM Smith is preparing preliminary/conceptual bypass pump connection layouts and budgetary cost estimates for SLSA's three largest stations. We met with Keystone Pump and Power on May 26 to refine the conceptual designs. This information will be presented to the Authority in a draft technical memorandum for their July 23 meeting.

Keystone Pump and Power also added information into their system about the three pumping stations current configuration as an intermediate means to provide bypassing while permanent set-ups are being considered. The contact information for Keystone Pump and Power have been provided to the City should a need arise.

## **8. Emergency Plan for SLSA's Three Smallest Pumping Stations**

During recent storm events, electrical power was disrupted at Jefferson Square Pumping Station where no emergency generator is present. This is a liability for SLSA because the City is not always guaranteed to have a vactor truck available to prevent a spill. CDM Smith has begun to evaluate enhanced resiliency/redundancy alternatives for the three pumping stations (Jefferson Square, Hans Herr, and Roslyn) without a backup power supply. From further discussion with City maintenance personnel, we understand that power failures/disruptions rarely occur at more than one of these stations simultaneously. Keystone Pump and Power can supply portable generators and explained they have experience installing minor Cam-Lok lug upgrades at similar pumping stations that enable connection of backup power (generator). For sizing of a portable generator or generators for this purpose, CDM Smith requested some electrical information from the City in June for Jefferson Square and Roslyn Pump stations (voltage, phase, amperage, and pump HP).

In the interim, the City is authorized to call in a third party vactor truck vendor, if necessary, to prevent a sewage spill.

## **9. Meeting**

The next O&M meeting is scheduled for 9:00 am on Wednesday, August 12 at the City WWTP.

**June 2020 Monthly Maintenance Report.  
(For S.L.S.A.)**

**A total of 177.54 Hours Were spent maintaining S.L.S.A. equipment, these hours are the result of Daily Station checks, Preventative & Corrective Maintenance.**

**6-1 Cleaned Lyndon & Millcreek P/S Stillwells. Switched Channel Monster Grinders at Goods Run P/S.**

**6-2 Pressure washed Willow Bends, Summers Breeze & Marticville P/S exteriors.**

**6-3 Pressure washed Conard, Sterling & Roslyn P/S. Greased Channel Monster & replaced Water Sediment Filter at Lyndon P/S.**

**6-4 Cleaned Water strainers at Hans Herr P/S. Washed Generator at Marticville P/S.**

**6-6 Call in for a Low Wet Well Alarm at Jefferson Square P/S. Had to raise the stop float.**

**6-8 Drained condensation from the Bubbler system Compressors. Waxed the Generator at Marticville P/S. Checked Relief valve at Millstream P/S. Disassembled & cleaned both Check Valves at Millstream P/S.**

**6-9 Cleaned Stillwells at Lyndon & Millcreek P/S. Cleaned Inlet Screen at Lyndon P/S. Cleaned Water strainers at Hans Herr P/S. Checked Relief valves at Silver Lane P/S. The failed VFD fans were replaced at Marticville P/S.**

**6-10 Checked Lyndon, Locust Lane & Millport Rd. Air Relief valves.**

**6-16 Cleaned Lyndon & Millcreek Stillwells. Cleaned Water Strainers at Hans Herr P/S.**

**6-17 Washed & Waxed the Generator at Silver Lane P/S. Replaced broken Down Spout (From Lawnmower) at Lyndon P/S.**

**6-18 Replaced 5 broken down spout couplings (From Lawnmower) at Lyndon P/S.**

**6-22 After Hours Call-In for power & Pump Failures at Summers Breeze & Millcreek P/S.**

**6-23 Cleaned Stillwell, closed Valving to Channel Monster at Lyndon P/S for inspection purposes. Had Diesel Fuel delivered to Willow Bends, Millcreek & Silver Lane P/S.**

**6-24 Cleaned Strainers at Hans Herr P/S. Cleaned Stillwell at Millcreek P/S.**

**6-26-20 Millstream pump #2 seal failure relay went bad & needs replaced. It was jumped out for now.**

**6-29 Cleaned strainers at Hans Herr P/S. Cleaned Stillwell at Millcreek & Lyndon P/S.**

**6-30 Millcreek P/S Starters had to be de-energized than Re-energized so the Alarms stopped coming in??**

**SUBURBAN LANCASTER SEWER AUTHORITY  
SEWAGE PUMPING STATION FLOWS  
AS OF JUNE 30, 2020**

		Lyndon			Mill Creek			Goods Run		
Capacity (GPD)		6,292,800 (1 pump)			2,275,000 (2 pumps)			2,304,000 (1 pump)		
Avg Day (12 Months)		1,539,654			550,459			478,709		
Peak Day (12 Months)		3,214,000			1,179,000			1,911,631		
Month	Rainfall	Average Daily Flow	Peak Daily Flow	Peak Factor	Average Daily Flow	Peak Daily Flow	Peak Factor	Average Daily Flow	Peak Daily Flow	Peak Factor
<b>2020</b>										
January	3.68	1,686,877	2,984,000	1.77	592,645	996,000	1.68	641,987	1,911,631	2.98
February	2.52	1,742,207	2,029,000	1.16	615,724	716,000	1.16	579,907	710,818	1.23
March	4.09	1,628,806	2,143,000	1.32	579,710	793,000	1.37	521,869	756,410	1.45
April	6.20	1,709,800	2,401,000	1.40	607,800	821,000	1.35	558,204	829,876	1.49
May	2.93	1,855,484	3,214,000	1.73	659,581	1,179,000	1.79	652,948	1,284,602	1.97
June	1.14	1,524,700	2,067,000	1.36	581,200	736,000	1.27	505,405	953,166	1.89
<b>2019</b>										
July	2.92	1,484,387	1,858,000	1.25	547,419	987,000	1.80	414,672	484,435	1.17
August	3.94	1,400,581	2,746,000	1.96	475,839	772,000	1.62	356,238	433,640	1.22
September	1.25	1,231,533	1,462,000	1.19	444,167	670,000	1.51	306,638	378,233	1.23
October	6.70	1,254,097	1,774,000	1.41	445,097	655,000	1.47	321,252	550,869	1.71
November	1.09	1,391,933	1,873,000	1.35	498,967	702,000	1.41	396,177	565,896	1.43
December	4.39	1,565,445	2,086,100	1.33	557,355	723,000	1.30	489,215	689,164	1.41
Total Rainfall (in)		40.85								
Distribution:		Annual (Avg)		%						
Lyndon (Total)		18,475,851		100						
Mill Creek		6,605,503		36						
Goods Run		5,744,512		31						
Lyndon (Gravity)		6,125,836		33						

- Notes: 1. Where Peak Day exceeds Capacity, two pumps operate.  
2. Avg Day (12 Months) = Average Daily Flow over the 12 months shown  
3. Peak Day (12 Months) = Peak Daily Flow over the 12 months shown



## Memorandum

*To: Suburban Lancaster Sewer Authority Board Members*

*From: Abraham King & Adam Smith*

*Date: July 23, 2020*

*Subject: Bypass Capability Study – Goods Run, Mill Creek & Lyndon Pumping Station*

Currently none of the Suburban Lancaster Sewer Authority's pumping stations have provisions in place to facilitate the complete bypassing of the station in the event of a catastrophic mechanical failure. CDM Smith evaluated the potential to accommodate bypass pumping at the three largest Suburban Lancaster Sewer Authority's (SLSA) sewage pumping stations. The addition of bypass pumping provisions (e.g. connections valves, etc.) would allow the Authority to be more resilient by bring in auxiliary pumps from a 3<sup>rd</sup> party and continue to pump sewage in the event that there is a complete mechanical failure at that station.

## Conceptual Design

CDM Smith presents the following regarding bypass pumping capability at Goods Run, Mill Creek and Lyndon Pumping Stations for the Authority's consideration.

### Goods Run Pumping Station

CDM Smith used GIS to evaluate the Goods Run Pumping Station. CDM Smith determined that the wet well would fill approximately seven feet before overflowing at a nearby manhole.

Due to the access to the wet well and force main being on opposite sides of the building CDM Smith proposes that the concrete wall be cored through and suction piping installed from the wet well out into the yard space. This would allow bypassing the station with easy access outside of the building.

There is no convenient access point to connect to the force main at Goods Run, therefore CDM Smith proposes that the force main be hot-tapped with a plug valve and a standpipe with blind flange coming out of the ground. bollards should be installed around the standpipe to prevent any damage.

The design point of 1,600 GPD @ 110 TDH is used for this station in determining the requirements for the bypass pumping availability. This station would utilize two Gorman Rupp PA10 Diesel Trash pumps (1 duty, 1 standby). A conceptual cost for this proposal can be seen in Table 2. See Figures No. 1 & 2 attached for plan and details associated with Goods Run Pumping Station.

### **Mill Creek Pumping Station**

From recent experience during the November 2018 overflow event, it is known that the station will overflow from the wet well, anecdotal evidence which CDM Smith confirmed using GIS. Since the wet well is the lowest point in the system it is also the ideal location to pump from for bypass pumping. A temporary suction line can be dropped into the wet well area without special connections when bypassing is required.

Review of the record drawings found that there is an existing tee connection on the force main just outside the pumping station's fence. This tee connection was used previously to bypass the station during the most recent upgrade at the station in 1999. The record drawings indicate that the tee was capped off with a blind flange and left connected to the force main. CDM Smith proposes that this tee connection be utilized again with the addition of a plug valve and having a standpipe coming out of the ground with a blind flange.

The design point of 2,275 GPD @ 225 TDH is used for this station in determining the requirements for the bypass pumping availability. This station would utilize two Gorman Rupp PAH6A60 High Head Diesel Trash pumps (1 duty, 1 standby). A conceptual cost for this proposal can be seen in Table 3. See Figure No. 3 attached for plan and details associated with Mill Creek Pumping Station.

The access points required for bypass pumping were kept out of the station in the case that the station is inaccessible for some time period and bollards should be installed around the standpipe to prevent any damage.

### **Lyndon Pumping Station**

A GIS evaluation was completed, and CDM Smith determined that the lowest point leading up to the station is an upstream manhole along the Conestoga River. While the wet well at Lyndon is deep it will not surcharge to a point making suction lift pumping a possibility. The significant suction lift capacity that would be required at the station bypass pumps is not reasonably attained, therefore it is not feasible to pump directly from the wet well.

Instead, CDM Smith proposes that MH 168A on the pump station site be modified and a suction line be installed. This manhole can fill to have enough wastewater storage capacity within the manhole before it would overflow at the lowest upstream manhole. Modifications to this manhole would include removing the top cone and installing a flat top riser with a precast hole for the new suction line. This connection would be watertight so that in a situation where the river level is in a moderate flood stage bypass pumping could still occur. During a recent site visit at Lyndon the existing watertight manhole frame at MH-168 A was in poor condition and is no longer watertight. Replacement of this frame and cover is recommended.

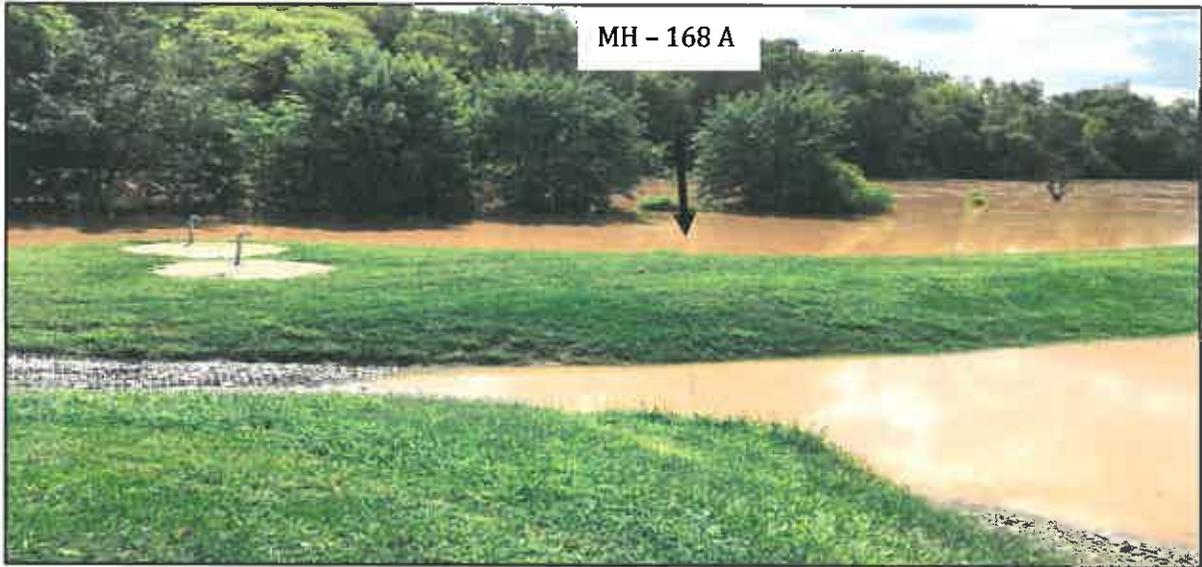
Due to the cost of installing a hot tap tee connection directly to Lyndon's force main CDM Smith recommends that the existing air release valve vault (ARVV) for one of the two force mains be modified to accommodate a bypass connection. Modifications to this vault would include removing the top of this valve vault install a tee connection on top of the existing tee, and add a precast

concrete riser section to accommodate the added height of the tee. This would allow the discharge of the bypass pumps to be made inside of the vault giving access to the shutoff valve for the discharge line.

The installation of the bypass connections associated with MH-168 and the ARVV will add resiliency to the Lyndon Pumping Station even during moderate Conestoga River flood events. Image No. 1 as seen below is from the August 22, 2018 flooding event. As can be seen in the photo MH-168 A in the pump station yard is completely submerged and the ARVVs are just above the water level. The addition of a concrete riser for the Manhole and ARVV will allow these sites to be accessed even during moderate floods. According to the National Oceanic and Atmospheric Administration’s website, the August 22, 2018 flood is the most recent historical flood event listed out of 38 major flooding events and falls into the moderate flood category (gauge height between 13 and 15 feet). The complete list of historical crests for the Conestoga River in Lancaster, PA can be seen in Table 1.

**Table No. 1: Historical Crests for Conestoga River in Lancaster, PA from NOAA’s Website**  
 (<https://water.weather.gov/ahps2/hydrograph.php?gage=lncp1&wfo=ctp>)

Ranking	Crest Height (ft)	Date	Ranking	Crest Height (ft)	Date
1	27.9	6/23/1972	20	12.84	1/27/1976
2	21.3	9/8/2011	21	12.8	7/8/1934
3	18.14	1/25/1978	22	12.69	6/2/1946
4	17.8	10/9/2005	23	12.48	4/16/1983
5	17.52	8/24/1933	24	12.27	1/20/1996
6	16.7	9/9/1987	25	12.25	1/21/1979
7	16.39	9/17/1999	26	12.11	8/19/1955
8	15.3	5/6/1989	27	12.08	2/14/1971
9	14.7	6/28/2006	28	11.92	12/13/1983
10	14.28	8/4/2018	29	11.77	9/13/1960
11	14.27	10/30/2012	30	11.74	3/27/1978
12	14.2	6/17/1982	31	11.7	6/21/2003
13	14.04	9/30/1934	32	11.63	5/1/2014
14	13.96	1/25/1979	33	11.6	8/18/1942
15	13.87	2/26/1979	34	11.38	6/19/1973
16	13.86	8/22/2018	35	11.2	10/12/2013
17	13.86	8/22/2018	36	11.18	5/19/1988
18	13.78	12/5/1993	37	10.95	1/6/1949
19	12.85	9/7/1984	38	10.95	5/23/1942



*Image No. 1: August 22, 2018 Flooding Event Lyndon Pumping Station*

The design point of 4000 GPD @ 75 TDH is used for this station in determining the requirements for the bypass pumping availability. This station would utilize two Gorman Rupp PA12 Diesel Trash pumps (1 duty, 1 standby). Driveway improvements are also recommended to provide access the lower portion of the site when the pumps are transported in. A conceptual cost for this proposal can be seen in Table 4. See Figures No. 4 & 5 attached for plan and details associated with Lyndon Pumping Station.

### **Keystone Pump & Power**

On May 26<sup>th</sup>, 2020 CDM Smith met on site with Keystone Pump & Power to aid in the design of permanent bypass pumping connections. Having Keystone Pump & Power evaluate these pump stations with CDM Smith allowed them give input during the contingency plan development for a situation where bypass pumping would be needed. Additionally, CDM Smith and Keystone Pump & Power established on-site an intermediate bypassing understanding for how bypass pumping can be achieved with the existing set-up at Mill Creek, Goods Run and Lyndon pumping Station should an issue arise prior to a more permanent bypass arrangement being established. Included in this intermediate plan are the design points for each station and equipment, fittings, etc. required to successfully bypass the pumping station. If a problem arises, the operator can now call Keystone Pump & Power, who has the information in their computer database and can then bring the necessary equipment to bypass the specific station.

### **Cost Estimate**

CDM Smith developed a conceptual cost estimate for the upgrade at each of the three stations evaluated.

<b>Table 2: Goods Run Pumping Station – Conceptual Cost Estimate</b>				
<b>Suction:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
10" Flange Fitting	2	EA	\$ 500.00	\$ 1000.00
10" Link Seal	1	EA	\$ 475.00	\$ 475.00
10" DIP Suction Line	30	LF	\$ 125.00	\$ 3,750.00
10" 90 Bend	2	EA	\$ 500.00	\$ 1000.00
Coring Through Concrete Wall	1	EA	\$ 2,000.00	\$ 2,000.00
<b>Discharge:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
16"x16"x10" Hot Tap Tee	1	EA	\$ 3,000.00	\$ 3,000.00
10" Plug Valve W/ Valve box	1	EA	\$ 3,500.00	\$ 3,500.00
10" DIP Bypass Discharge Line	20	LF	\$ 125.00	\$ 2,500.00
10" Flange Fitting	1	EA	\$ 500.00	\$ 500.00
10" 90 bend	2	EA	\$ 500.00	\$ 1000.00
<b>General:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
Site Restoration	77	SY	\$ 15.00	\$ 1,155.00
Bollard's	4	EA	\$ 500.00	\$ 2,000.00
Pavement Restoration	20	SY	\$ 65.00	\$ 1,300.00
<b>Subtotal</b>				<b>\$ 23,180.00</b>
<b>30% Contingency</b>				<b>\$ 6,954.00</b>
<b>Goods Run Upgrade Total</b>				<b>\$ 30,000.00<sup>1</sup></b>

Note<sup>1</sup>: Cost estimate rounded to the nearest thousandth.

<b>Table 3: Mill Creek Pumping Station – Conceptual Cost Estimate</b>				
<b>Suction:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
<b>(Temporary Suction Piping to be Installed in Wet Well)</b>				
<b>Discharge:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
10" Plug Valve W/ Valve box	1	EA	\$4,500.00	\$ 4,500.00
10" DIP Bypass Discharge Line	20	LF	\$ 150.00	\$ 3,000.00
10" Flange Fitting	1	EA	\$ 500.00	\$ 500.00
10" 90 bend	2	EA	\$ 500.00	\$ 1000.00
<b>General:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
<b>Bollard's</b>	2	EA	\$ 500.00	\$ 1,000.00

<b>Site Restoration</b>	1	EA	\$ 1,500.00	\$ 1,500.00
<b>Subtotal</b>				\$ 11,500.00
<b>30% Contingency</b>				\$ 3,450.00
<b>Mill Creek Upgrade Total</b>				\$ 15,000.00 <sup>1</sup>

Note<sup>1</sup>: Cost estimate rounded to the nearest thousandth.

<b>Table 4: Lyndon Pumping Station – Conceptual Cost Estimate</b>				
<b>Suction:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
12" Flange Fitting	1	EA	\$ 500.00	\$ 500.00
12" DIP Suction Line	15	LF	\$ 125.00	\$ 1,875.00
12" 90 Bend	1	EA	\$ 500.00	\$ 450.00
Manhole Modification	1	EA	\$ 7,500.00	\$ 6,000.00
<b>Discharge:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
ARVV Modification	1	EA	\$ 5,000.00	\$ 5,000.00
12" Knife Valve	1	EA	\$ 3,500.00	\$ 3,500.00
12" DIP Bypass Discharge Line	20	LF	\$ 125.00	\$ 2,500.00
12" Flange Fitting	1	EA	\$ 500.00	\$ 500.00
12" 90 bend	2	EA	\$ 500.00	\$ 1,000.00
<b>General:</b>				
<u>ITEM</u>	<u>QTY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ITEM COST</u>
Site Restoration	450	SY	\$ 10.00	\$ 4,500.00
Bollard's	4	EA	\$ 500.00	\$ 2,000.00
Driveway Improvements	1	EA	\$ 7,500.00	\$ 7,000.00
<b>Subtotal</b>				\$ 34,875.00
<b>30% Contingency</b>				\$ 10,462.00
<b>Lyndon Upgrade Total</b>				\$ 46,000.00 <sup>1</sup>

Note<sup>1</sup>: Cost estimate rounded to the nearest thousandth.

Subtotal for All Three Stations	\$ 71,000.00
30% Contingency	\$ 21,300.00

Engineering Services during Construction	\$ 10,000.00
<b>Overall Total (to nearest thousandth)</b>	<b>\$ 102,000.00</b>

As can be seen from the conceptual cost estimates it is expected that work at Mill Creek Pumping Station can be done within the telephonic range. Due to the design complexity for Lyndon and Goods Run Pumping Stations it is expected that this work will need to be publicly bid.

Keystone Pump & Power provided Weekly and Monthly quote for the rental of the bypass pumping equipment, which has been summarized in table 5 below. These prices include all equipment & fittings required (hose, check valves, air release valve, auto dialer, etc.). These are rental costs only and do not include freight and labor for delivery, set-up, and removal of the pumps. Labor rates are \$85.00 per hour (straight time), \$127.50 per hour for overtime, and \$170.00 per hour for Sundays and holidays.

<b>Table 5: Quote from Keystone Pump and Power</b>			
	<b>Mill Creek</b>	<b>Goods Run</b>	<b>Lyndon</b>
<b>Pump Model</b>	2 x Gorman Rupp PAH6A60 10x6 High Head Diesel Trash Pumps	2 x Gorman Rupp PA10 Diesel Trash Pumps	2 x Gorman Rupp PA12 Diesel Trash Pumps
<b>Weekly Rate (\$/wk)</b>	\$6,315.00	\$3,315.00	\$5,525.00
<b>Monthly Rate (\$/Mon)</b>	\$18,945.00	\$9,945.00	\$16,575.00

## Conclusion

CDM Smith recommends that the Authority move forward with adding the bypass pumping projects at their three largest stations to the budgeting schedule.

Mill Creek Pumping Station work could occur quickly through obtaining cost quotes from local contractors who would utilize Figure No. 3 and SLSA’s standard specifications to complete the work. As the work for Lyndon and Goods Run Pumping Stations are expected to be above bidding thresholds, the Authority has the option to budget these for combined or separate publicly bid projects.

Once the three largest stations have been upgraded smaller facilities can be evaluated for bypass pumping additions.