

## **APPENDIX D**

# **COLLECTION DEPARTMENT REPORT**

SWDCMA																			
Collection System Contract Summary																			
11/1/17-10/31/18																			
	CONTRACT ALLOWANCES/REQUIREMENTS							ADDITIONAL COST - PO REQUIRED				GENERAL INFORMATION							
<u>Month Service Provided</u>	<u>Labor (annual hours)</u>	<u>CAP REQUIRED Line Televising and Flushing (Per Priority List)</u>	<u>CAP REQUIRED Line Televising and Flushing (Miscellaneous Allowance)</u>	<u>CONTRACT ALLOWANCE Routine Maintenance Lines</u>	<u>Grinder Pump Cores/Electrical Control (units per year)</u>	<u>PA One Calls (after hours)</u>	<u>Pump Station Wet Wells Cleaned</u>	<u>CAP INCLUDED Line Televising and Flushing (As Requested)</u>	<u>ADDITIONAL Routine Maintenance - Cleaning</u>	<u>ADDITIONAL Routine Maintenance - Inspections</u>	<u>ADDITIONAL Routine Maintenance - Root Cutting</u>	<u>Completion of Prior Year CAP Work (videos were insufficient or incomplete)</u>	<u>Jetter Truck (36 days per year @ 8 hours per day)</u>	<u>Television Camera Van (25 days per year @ 8 hours per day)</u>	<u>Hi-Vac (3 days per year @ 8 hours per day)</u>	<u>Vacuum Tanker (25 days per year @ 8 hours per day)</u>	<u>Customer Trouble Calls (day shift)</u>	<u>Linear Feet Cleaned as part of Trouble Call</u>	<u>PA One Call Responses (day shift)</u>
11/1/2017	4,000.00	30,000	5,000	11,500	7	40	4	-	10,063				288.00	200.00	24.00	200.00			
11/30/17	413.00	-		-									44.50	2.00			1		
12/31/17	501.75	1,028.2		2,933									50.00	26.00			5	450	1
1/31/18	454.50	-		8,018	1		1						80.25	2.00			10	800	1
2/28/18	453.25	3,548.1		549			1		1,070			2,075.00					2		1
3/31/18	484.25	106.0			1				2,793		225	1,604.50					7	320	1
4/30/18	253.50	2,110.0							740		1,404	1,089.00					4	300	2
5/31/18	358.50	6,630								575		399.00					3		2
6/30/18	354.50	16,095			1								7.00				6	501	1
7/31/18	331.00	483	1,937.0						2,817		225						3		1
8/31/18			247.0					200									5		2
9/30/18							2		755.0								6		
10/31/18			2,808						228								3		2
Remaining Events/Hours	395.75	(0)	8	-	4	40	-	200	1,660	575	1,854	5,167.50	106.25	170.00	24.00	200.00	55	2,371	14

SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																								
Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP																								
Initials	Date	Mgr App	Task Description/Job Name	Truckloads of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH- CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments	
AB/JM/TN	11/1/2017		CAP WORK	1	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2604	2603	108.5	11.00	12.01	FAIR	FAIR	PC		108.5				STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV.	
AB/JM/TN	11/2/2017		CAP WORK	3	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2604	2603	108.5	11.00	12.01	FAIR	FAIR	PC		108.5				STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV.	
AB/JM/TN	11/3/2017		CAP WORK	1	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2604	2603	108.5	11.00	12.01	FAIR	FAIR	PC		108.5				STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV.	
JM/JM/RH	11/17/2017		CAP WORK	2	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2603	2602				FAIR	FAIR	PC						STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV.	
AB/JM/TN	11/24/2017		CAP WORK	3	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2605	2604				FAIR	FAIR	PC						STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV.	
AB/JM/TN	11/29/20107		CAP WORK	2	SA01-01	MOUNT ROAD R.O.W.			CLEANING	2602	2601	300.0	6.00	8.02	FAIR	FAIR	PC		300.0					STILL CLEANING LINE, NOT DONE, HEAVY CLEANING. WILL GET FOOTAGE/DEPTH OF MH'S WHEN JOB IS DONE/TV. CLEANING R.O.W. IN BACK OF EAGLE PUMP STATION, LINE NOT DONE.
11/17 Monthly Totals for 2018 CAP																			625.5	0.0			0.0	
AB/JM	12/5/2017		CAP WORK	2	SA03-05	POWELL ROAD R.O.W	8	TRS	CLEANING/TV	1232-1	1233	152.7	10.00	7.09	POOR	POOR	PC	12/5/2017	152.7	152.7	YES		MH 1231-1 NEEDS TO BE RAISED, MH1233 LEAKING GROUND WATER MH1232 NEED REPAIR BRENCH/CHANNEL, MH1232-1 NOT ON SEWER MAP, NEED TO BE RAISED.	
AB/JM	12/6/2017		CAP WORK	2	SA03-05	POWELL ROAD R.O.W	8	TRS	CLEANING/TV	1232	1232-1	267.2	10.00	10.00	POOR	POOR	PC	12/5/2017	267.2	267.2	YES			
AB/JM	12/7/2017		CAP WORK		SA01-01	MOUNT ROAD R.O.W.	10	PVC	TV	2604	2603	108.5	11.00	12.01	FAIR	FAIR	PC	11/3/2017		108.5	YES			
AB/SC	12/18/2017		CAP WORK	1	SA05-04	DUTTON MILL ROAD			CLEANING	321-2	321-1	172.8	7.00	7.05	FAIR	FAIR	B		172.8					
AB/SC	12/18/2017		CAP WORK		SA05-04	DUTTON MILL ROAD			CLEANING	321-1	320-5A	327.0	7.05	8.00	FAIR	FAIR	B		327.0					
AB/SC	12/20/2017		CAP WORK		SA05-04	DUTTON MILL ROAD	8	TC	TV	321-2	321-1	172.8	7.00	7.05	FAIR	FAIR	B	12/18/2017		172.8	YES			
AB/SC	12/20/2017		CAP WORK		SA05-04	DUTTON MILL ROAD	8	TC	TV	321-1	320-5A	327.0	7.50	8.00	FAIR	FAIR	B	12/18/2017		327.0	YES			
AB/SC	12/20/2017		CAP WORK		SA05-04	IN FRONT BUILDING IMC	8	PVC	TV	320-4A	320-4	344.5	6.09		FAIR		B			0.0	YES		NEED TO LOCATE MH320-4; FOOTAGE NOT COUNTED DUE TO NO RECORD OF LINE BEING CLEANED	
12/17 Monthly Totals for 2018 CAP																			919.7	0.0	1028.2		0.0	
JM/RH/JW	1/31/2018	X	CAP WORK	1	SA02-03A	ARCHER LANE			CLEANING	642	641	80.0	10.05	10.03	FAIR	FAIR	B		80.0					
JM/RH/JW	1/31/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE			CLEANING	634	633	258.0	7.05	7.06	POOR	FAIR	B		258.0					
JM/RH/JW	1/31/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE			CLEANING	633	632	145.0	7.06	9.02	FAIR	FAIR	B		145.0					
JM/RH/JW	1/31/2018	X	CAP WORK	1	SA02-03B	VALLEY GREEN DRIVE			CLEANING	LH632-2	632-1	149.0	6.00	8.01	FAIR	FAIR	B		149.0					
JM/RH/JW	1/31/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE			CLEANING	632-1	632	202.0	8.01	9.02	FAIR	FAIR	B		202.0					
JM/RH/JW	1/31/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE			CLEANING	620	619	70.0	11.06	8.04	FAIR	FAIR	B		70.0					
JM/RH/JW	1/31/2018	X	CAP WORK	1	SA02-04	ROBIN HOOD LANE			CLEANING	619	618	363.0	8.04	8.03	FAIR	FAIR	B		363.0					
JM/RH/JW	1/31/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE			CLEANING	615-2	615	405.0	8.05	7.07	FAIR	FAIR	B		405.0					
1/18 Monthly Totals for 2018 CAP																			1523.0	0.0			0.0	
2017 CAP Work Completed																			149.0					
JM/RH	2/1/2018	X	CAP WORK	1	SA02-05A	MILDRED LANE			CLEANING	572-3	572-2	176.0	8.06	8.04	FAIR	FAIR	B		176.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	MILDRED LANE			CLEANING	572-2	572-1	60.0	8.04	6.07	FAIR	FAIR	B		60.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	MILDRED LANE			CLEANING	572-1	572	235.0	6.07	12.05	FAIR	FAIR	B		235.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	MILDRED LANE			CLEANING	572	571	206.0	12.05	10.03	FAIR	FAIR	B		206.0					
JM/RH	2/1/2018	X	CAP WORK	1	SA02-05A	MILDRED LANE			CLEANING	571	570	58.0	10.03	12.11	FAIR	FAIR	B		58.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	NEELD LANE			CLEANING	570-1	570			12.11		FAIR	B						MH 570-1 APPEARED TO BE PAVED OVER	
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	MILDRED LANE			CLEANING	570	567	147.0	12.11	9.05	FAIR	POOR	B		147.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	SEWARD LANE			CLEANING	578-2A	578-2	69.0	6.09	6.06	FAIR	FAIR	B		69.0					
JM/RH	2/1/2018	X	CAP WORK		SA02-05A	SEWARD LANE			CLEANING	573	572	80.0	8.05	12.05	FAIR	FAIR	B		80.0					

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				Truckloads							Feet Apart	Manhole 1	Manhole 2			Manhole							
Initials	Date	Mgr App	Task Description/Job Name	of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	(CMIH-CMH)	Depth in Ft & In	Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
JM/RH	2/2/2018	X	CAP WORK	1	SA02-05B	BUNTING LANE			CLEANING	568-4	568-3	375.0	13.03	9.09	FAIR	FAIR	B		375.0				
JM/RH	2/2/2018	X	CAP WORK		SA02-06	KINGSTON TERRACE			CLEANING	540-H	540-G	130.0		7.04		GOOD	PC		130.0				MH 540-H BURIED IN MULCH AREA
JM/RH	2/2/2018	X	CAP WORK		SA02-06	FLORENCE AVENUE			CLEANING	536-2	536-1	218.0	8.02	6.08	FAIR	FAIR	B		218.0				
JM/RH	2/2/2018	X	CAP WORK		SA02-06	FLORENCE AVENUE DUTTON VIEW			CLEANING	536-1	536	133.0	6.08	5.09	FAIR	FAIR	B		133.0				
JM/RH	2/2/2018	X	CAP WORK		SA02-06	DRIVE			CLEANING	542-3	542-2	75.0	4.03	5.05	GOOD	FAIR	PC		75.0				
RAH/SC	2/7/2018	X	CAP WORK	1	SA02-07	JUDY WAY			CLEANING	507-7	507-6	69.9	9.09	9.10	GOOD	GOOD	PC		69.9				MH507-21 LID FROZEN COULD NOT GET IT OFF. WILL ADVISE ON DEPTH.
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	JUDY WAY			CLEANING	507-21	507-5	293.1		5.05	GOOD	GOOD	PC		293.1				
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	JUDY WAY			CLEANING	507-5	507-4	98.3	5.05	7.10	GOOD	GOOD	PC		98.3				
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	JUDY WAY			CLEANING	507-6	507-4	302.1	9.10	7.10	GOOD	GOOD	PC		302.1				
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	MEGAN CIRCLE			CLEANING	507-4	507-3	195.1	7.10	7.02	GOOD	GOOD	PC		195.1				
RAH/SC	2/7/2018	X	CAP WORK	1	SA02-07	MARIE CIRCLE			CLEANING	507-22A	507-22	243.3	5.08	8.04	GOOD	GOOD	PC		243.3				MH507-22A NOT ON COLLECTION MAP OR IN ESRI.
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	MARIE CIRCLE			CLEANING	507-22	507-23	302.3	8.04	6.07	GOOD	GOOD	PC		302.3				
RAH/SC	2/7/2018	X	CAP WORK		SA02-07	MARIE CIRCLE			CLEANING	507-23	507-24	260.0	6.07	7.03	GOOD	GOOD	PC		260.0				
KB/JM/RH/SC	2/8/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	572-3	572-2	176.0	8.06	8.04	FAIR	FAIR	B	2/1/2018		176.0	YES		
KB/JM/RH/SC	2/8/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	572-2	572-1	60.0	8.04	6.07	FAIR	FAIR	B	2/1/2018		60.0	YES		
KB/JM/RH/SC	2/8/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	572-1	572	235.0	6.07	6.05	FAIR	FAIR	B	2/1/2018		235.0	YES		
KB/JM/RH/SC	2/8/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	572	571	206.0	12.05	10.06	FAIR	FAIR	B	2/1/2018		206.0	YES		
KB/RH/JM/SC	2/9/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	571	570	58.0	10.03	12.11	FAIR	FAIR	B	2/1/2018		58.0	YES		
KB/RH/JM/SC	2/9/2018	X	CAP WORK		SA02-05A	MILDRED LANE	8	TC	TV	570	567	147.0	12.11	9.05	FAIR	POOR	B	2/1/2018		147.0	YES		
KB/RH/JM/SC	2/9/2018	X	CAP WORK		SA02-05A	SEWARD LANE	8	TC	TV	573	572	80.0	8.05	12.05	FAIR	FAIR	B	2/1/2018		80.0	YES		
KB/RH/JM/SC	2/9/2018	X	CAP WORK		SA02-03A	ARCHER LANE	8	TC	TV	642	641	80.0	10.05	10.03	FAIR	FAIR	B	1/31/2018		80.0	YES		
KB/RH/JM/SC	2/9/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE	8	TC	TV	634	633	258.0	7.05	7.06	POOR	FAIR	B	1/31/2018		258.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE	8	VCP	TV	633	632	145.0	7.06	9.02	FAIR	FAIR	B	1/31/2018		145.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE	8	VCP	TV	LH632-2	632-1	149.0	6.00	8.01	FAIR	FAIR	B	1/31/2018		149.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-03B	VALLEY GREEN DRIVE	8	VCP	TV	632-1	632	202.0	6.01	9.02	FAIR	FAIR	B	1/31/2018		202.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE	8	VCP	TV	620	619	70.0	11.06	8.04	FAIR	FAIR	B	1/31/2018		70.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE	8	VCP	TV	619	618	363.0	8.04	8.03	FAIR	FAIR	B	1/31/2018		363.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE	8	VCP	TV	618	617	200.0	8.04	6.04	FAIR	FAIR	B	2/13/2018		200.0	YES		
KB/JM/RH	2/13/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE DUTTON MILL	8	VCP	CLEANING	618	617	200.0	8.04	6.04	FAIR	FAIR	B		200.0		YES		
JM/RH/SC	2/14/2018	X	CAP WORK	1	SA05-04	ROAD DUTTON MILL	8	PVC	CLEANING	320-5	320-5B	252.0	4.05	12.03	FAIR	FAIR	B		252.0				MH320-5B IS A NEW FOUND MANHOLE.
JM/RH/SC	2/14/2018	X	CAP WORK		SA05-04	ROAD DUTTON MILL	8	PVC	TV	320-5	352-5B	252.0	4.05	12.03	FAIR	FAIR	B	2/14/2018		252.0	YES		MH320-5B IS A NEW FOUND MANHOLE.
JM/RH/SC	2/15/2018	X	CAP WORK	1	SA02-04	ROBIN HOOD LANE	8	VCP	CLEANING	604-12	604-11	356.0	10.00	9.10	FAIR	FAIR	B		356.0		YES		
JM/RH/SC	2/15/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE	8	VCP	TV	615-2	615	405.0	8.05	7.05	FAIR	FAIR	B	1/31/2018		405.0	YES		
JM/RH/SC	2/15/2018	X	CAP WORK		SA02-04	ROBIN HOOD LANE	8	VCP	TV	604-12	604-11	356.0	10.00	9.10	FAIR	FAIR	B	2/15/2018		356.0	YES		
JM/RH/SC	2/15/2018	X	CAP WORK		SA02-07	JUDY WAY	8	PVC	TV	507-7	507-6	69.9	9.09	9.10	GOOD	GOOD	PC	2/7/2018		69.9	YES		
JM/RH/SC	2/15/2018	X	CAP WORK		SA02-07	JUDY WAY	8	PVC	TV	507-6	507-4	293.1	9.10	7.10	GOOD	GOOD	PC	2/7/2018		293.1	YES		
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	MARIE CIRCLE	8	PVC	TV	507-22A	507-22	243.3	5.08	8.06	GOOD	GOOD	PC	2/7/2018		243.3	YES		
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	MARIE CIRCLE	8	PVC	TV	507-22	507-23	302.3	8.04	6.07	GOOD	GOOD	PC	2/7/2018		302.3	YES		
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	MARIE CIRCLE	8	PVC	TV	507-23	507-24	260.0	6.07	7.03	GOOD	GOOD	PC	2/7/2018		260.0	YES		
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	JUDY WAY	8	PVC	TV	507-21	507-5	293.1		5.05	GOOD	GOOD	PC	2/7/2018		293.1	YES		BROKEN PIPE BETWEEN MH 507-21 & 507-5, MH507-21 SEIZED
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	JUDY WAY	8	PVC	TV	507-5	507-4	98.3	5.05	7.10	GOOD	GOOD	PC	2/7/2018		98.3	YES		
RH/JM/SC	2/16/2018	X	CAP WORK		SA02-07	MEGAN CIRCLE	8	PVC	TV	507-4	507-3	195.1	7.10	7.02	GOOD	GOOD	PC	2/7/2018		195.1	YES		
KB/JM/RH	2/21/2018	X	CAP WORK		SA02-06	FLORENCE AVENUE	8	VCP	TV	536-2	536-1	218.0	8.02	6.08	FAIR	FAIR	B	2/2/2018		218.0	YES		
KB/JM/RH	2/21/2018	X	CAP WORK		SA02-06	FLORENCE AVENUE	8	VCP	TV	536-1	536	133.0	6.08	5.09	FAIR	FAIR	B	2/2/2018		133.0	YES		
KB/JM/RH	2/21/2018	X	CAP WORK		SA02-06	DUTTON VIEW DRIVE	8	PVC	TV	542-3	542-2	75.0	4.03	5.05	GOOD	FAIR	PC	2/2/2018		75.0	YES		
JM/SC/SH	2/27/2018	X	CAP WORK	1	SA02-06	NORMAN STREET KINGSTON	8	CLAY	CLEANING	546	545	105.0	6.10	7.00	FAIR	FAIR	B		105.0				
JM/SC/SH	2/27/2018	X	CAP WORK		SA02-06	TERRACE	8	PVC	CLEANING	540-H	540-G	130.0		7.00	GOOD	BAD	PC		130.0				MH540-H BURIED
JM/SC/SH	2/27/2018	X	CAP WORK	1	SA02-06	MERCER PLACE	8	CLAY	CLEANING	545	544	254.0	7.00	10.09	FAIR	FAIR	B		254.0				



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JM/SC/SH	2/27/2018	X	CAP WORK		SA02-06	PARK LANE	8	CLAY	CLEANING	529-1	529	161.0	10.02	8.10	FAIR	FAIR	B		161.0				MH529-1 NEW MANHOLE
2/18 Monthly Totals for 2018 CAP																			5184.1	3548.1		0.0	
2017 CAP Work Completed																			0.0	2075.0			
JM/RH/SH/MH	3/9/2018	X	CAP WORK		SA02-06	NORMAN STREET KINGSTON	8	CLAY	TV	546	545	135.0	6.10	7.00	FAIR	FAIR	B	2/27/2018		105.0	YES		
JM/RH/SH/MH	3/9/2018	X	CAP WORK		SA02-06	TERRACE	8	PVC	TV	540-H	540-G	130.0		7.00	GOOD	GOOD	PC	2/27/2018		130.0	YES		MH540-H BURIED
JM/RH/SH/MH	3/9/2018	X	CAP WORK		SA02-06	MERCER PLACE	8	CLAY	TV	545	544	254.0	7.00	10.09	FAIR	FAIR	B	2/27/2018		254.0	YES		
JM/RH/SH/MH	3/9/2018	X	CAP WORK		SA02-06	PARK LANE	8	CLAY	TV	529-1	529	161.0	10.02	8.10	FAIR	FAIR	B	2/27/2018		161.0	YES		MH529-1 NEW MANHOLE
JM/RH/MH/SH	3/14/2018	X	CAP WORK	1	SA02-06	PARK LANE ROW	8	CLAY	CLEANING	526	525	69.1	6.11	12.02	FAIR	FAIR	B		69.1				
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	CLEANING	525	524	92.1	12.02	18.05	FAIR	FAIR	B		92.1				
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	CLEANING	524	523	168.3	18.05	10.08	FAIR	FAIR	B		168.3				
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	CLEANING	523	522	73.1	10.08	12.07	FAIR	FAIR	B		73.1				MH523 & MH522 HAD A CLOGGED DROP.
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	CLEANING	522	521-1	42.8	12.07	9.07	FAIR	GOOD	B/PC		42.8				MH522 BRICK, MH521-1 PRECAST
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	TV	526	525	69.1	6.11	12.02	FAIR	FAIR	B	3/14/2018		69.1	YES		
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	TV	525	524	92.1	12.02	18.05	FAIR	FAIR	B	3/14/2018		92.1	YES		
JM/RH/MH/SH	3/14/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	TV	524	523	168.3	18.05	10.08	FAIR	FAIR	B	3/14/2018		168.3	YES		
JM/RH/SH	3/16/2018	X	CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	TV	526	525	69.1	6.11	12.02	FAIR	FAIR	B	3/14/2018		69.1	YES		UNCLOGGED BLOCKAGE IN DROP OF MH523 & MH522 WITH JETTER TRUCK
JM/RH/SH	3/16/2018	X	CAP WORK	1	SA02-06	PARK LANE ROW	8	CLAY	CLEANING	523	522	73.1	10.08	12.07	FAIR	FAIR	B		73.1				UNCLOGGED BLOCKAGE IN DROP OF MH523 & MH522 WITH JETTER TRUCK
JM/JW/SH	3/20/2018		CAP WORK	1	SA02-05B	MILDRED LANE ROW	8	CLAY	CLEANING	567	566	179.0	9.07	11.04	POOR	FAIR	B		179.0				
JM/JW/SH	3/20/2018		CAP WORK		SA02-05B	MILDRED LANE ROW	8	CLAY	CLEANING	566	565	129.0	11.04	18.11	FAIR	FAIR	B		129.0				
JM/JW/SH	3/20/2018		CAP WORK		SA02-05B	MILDRED LANE ROW	8	CLAY	CLEANING	565	564	61.0	18.11	16.02	FAIR	FAIR	B		61.0				MANHOLES 565 & 564 HAD CONCRETE MANHOLE TOPS.
JM/JW/SH	3/20/2018		CAP WORK		SA02-05B	MILDRED LANE ROW	8	CLAY	CLEANING	563	562	51.0	10.08	8.08	FAIR	GOOD	B/PC		51.0				MANHOLE 563 BRICK, MANHOLE 562 PRECAST
JM/JW/SH	3/20/2018		CAP WORK	1	SA02-04	VILLAGE LANE ROW	8	CLAY	CLEANING	617-1	614-1	200.0	8.05	6.08	POOR	FAIR	B		200.0				MANHOLE 617-1 HAS CROOKED FRAME ON INSIDE LIP WHERE COVER SITS.
JM/RH/SH/BB	3/28/2018		CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	684-2	605-1	43.0	8.10	10.07	FAIR	FAIR	B		43.0				MANHOLE 605-1 NEEDS CEMENT CAP
JM/RH/SH/BB	3/28/2018		CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	604	603	250.0	11.10	6.01	FAIR	FAIR	B		250.0				MANHOLE 603 HAS A DROP MORE THAN 2'
JM/RH/SH/BB	3/28/2018		CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	603	602	63.0	6.01	8.06	FAIR	FAIR	B		63.0				MANHOLE 603 HAS A DROP MORE THAN 2'
JM/RH/SH/BB	3/28/2018		CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	602	601	100.0	8.06	8.02	FAIR	FAIR	B		100.0				
JM/RH/SH/BB	3/28/2018		CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	605-1	604	52.0	10.07	11.10	FAIR	FAIR	B		52.0				MANHOLE 605-1 NEEDS CEMENT CAP
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-05B	MILDRED LANE ROW	8	CLAY	TV	567	566	179.0	9.07	11.04	POOR	FAIR	B	3/20/2018		179.0	YES		
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-05B	MILDRED LANE ROW	8	CLAY	TV	568	565	129.0	11.04	18.11	FAIR	FAIR	B	3/20/2018		129.0	YES		
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-04	VILLAGE LANE ROW	8	CLAY	TV	617-1	614-1	192.0	8.05	6.08	POOR	FAIR	B	3/20/2018		192.0	YES		MANHOLE 617-1 HAS BROKEN LIP IN MANHOLE FRAME
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	684-2	605-1	43.0	8.10	10.07	FAIR	FAIR	B	3/28/2018		43.0	YES		
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	603	602	63.0	6.01	8.06	FAIR	FAIR	B	3/28/2018		63.0	YES		
KB/JM/BB	3/29/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	605-1	604	52.0	10.07	11.10	FAIR	FAIR	B	3/28/2018		52.0	YES		
3/18 Monthly Totals for 2018 CAP																			1646.5	106.0		0.0	
2017 CAP Work Completed																			0.0	1604.5			
JM/RH/BB/SH	4/2/2018	X	CAP WORK	3	SA03-01	CHESTER CREEK ROAD	8	CLAY	ROOT CUTTING	519-3	519-2	328.0	7.03	7.03	FAIR	FAIR	B						328.0
JM/RH/BB/SH	4/5/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	605-1	604	52.0	10.06	11.10	FAIR	FAIR	B	3/28/2018		52.0	YES		
JM/RH/BB/SH	4/5/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	604	603	240.0	11.10	6.01	FAIR	FAIR	B	3/28/2018		240.0	YES		
JM/RH/BB/SH	4/5/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	602	601	98.0	8.06	8.01	FAIR	FAIR	B	3/28/2018		98.0	YES		
JM/RH/BB/SH	4/5/2018	X	CAP WORK	1	SA02-04	GARDEN LANE ROW	8	CLAY	CLEANING	604-1	604	70.0	11.03	11.10	FAIR	FAIR	B	4/5/2018	70.0			YES	
JM/RH/BB/SH	4/5/2018	X	CAP WORK		SA02-04	GARDEN LANE ROW	8	CLAY	TV	605-1	604	70.0	11.03	11.10	FAIR	FAIR	B	4/5/2018		70.0	YES		
JM/RH/BB/SH	4/6/2018	X	CAP WORK	1	SA02-04	GREENBRIAR EASEMENT	8	CI	CLEANING	604-2	604-1	135.0	7.05	11.03	FAIR	FAIR	B						

SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP																							
Initials	Date	Mgr App	Task Description/Job Name	Truckloads of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CM/H- CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
JM/RH/BB/SH	4/6/2018	X	CAP WORK		SA02-04	GREENBRIAR EASEMENT	8	CI	TV	604-2	604-1	135.0	7.05	11.03	FAIR	FAIR	B	4/6/2018		135.0	YES		
JM/RH/BB/SH	4/6/2018	X	CAP WORK	1	SA02-03A	KNOWLTOW ROAD	8	CLAY	CLEANING	658-9	658-8	395.0	9.08	7.10	FAIR	FAIR	B						
JM/RH/BB/SH	4/6/2018	X	CAP WORK		SA02-03A	KNOWLTOW ROAD	8	CLAY	TV	658-9	658-8	395.0	9.08	7.10	FAIR	FAIR	B	4/6/2018		395.0	YES		
RH/JM/BB/SH	4/9/2018	X	CAP WORK	1	SA02-06	DUTTONVIEW DRIVE	8	PVC	CLEANING	542-2	542-1	224.0	5.06	6.03	GOOD	GOOD	PC		224.0				
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-06	DUTTONVIEW DRIVE	8	PVC	TV	542-2	542-1	224.0	5.06	6.03	GOOD	GOOD	PC	4/9/2018		224.0	YES		
JM/RH/SH	4/10/2018	X	CAP WORK	1	SA02-06	DUTTONVIEW DRIVE	8	PVC	CLEANING	542-1	542	91.0	6.03	14.06	GOOD	GOOD	PC		91.0				
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-06	DUTTONVIEW DRIVE	8	PVC	TV	542-1	542	91.0	6.03	14.06	GOOD	GOOD	PC	4/10/2018		91.0	YES		
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-04	GARDEN LANE CREEK CROSSING	8	PVC/CI	CLEANING	601	582	130.0	8.01	12.01	FAIR	GOOD	B/PC		130.0				MH601 BRICK/MH582 PC
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-06	KINGSTON TERRACE	8	PVC	CLEANING	540-D	540-C	33.0	6.09	14.06	FAIR	FAIR	B		33.0				
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-06	KINGSTON TERRACE	8	PVC	CLEANING	540-C	540-B	28.0	14.06	22.06	FAIR	FAIR	B		28.0				
JM/RH/SH	4/10/2018	X	CAP WORK		SA02-06	KINGSTON TERRACE	8	PVC	CLEANING	540-B	540-A	80.0	22.06	20.08	FAIR	GOOD	B/PC		80.0				MH540-B BRICK/MH540A PC
RH/JM/BB/SH	4/11/2018	X	CAP WORK	1	SA02-04	GARDEN LANE CREEK CROSSING	8	CI/PVC	CLEANING	601	582	130.0	8.01	12.01	FAIR	GOOD	B/PC		130.0				MH601-BRICK/MH582-PC
RH/JM/BB/SH	4/11/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	CLEANING	544	543-1	128.0	10.09	7.08	FAIR	FAIR	B		128.0				MH543-1 NOT ON MAP
RH/JM/BB/SH	4/11/2018	X	CAP WORK	1	SA02-06	DUTTON MILL ROAD	8	CLAY	CLEANING	543-1	543	110.0	7.08	7.11	FAIR	FAIR	B		110.0				MH543-1 NOT ON MAP
RH/JM/BB/SH	4/11/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	CLEANING	543	542	126.0	7.11	14.06	FAIR	GOOD	B/PC		126.0				MH543-BRICK/MH542-PC
JM/BB/MW/SH	4/12/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	TV	544	543-1	128.0	10.09	7.08	FAIR	FAIR	B	4/11/2018		128.0	YES		MH543-1 NOT ON MAP
JM/BB/MW/SH	4/12/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	TV	543-1	543	110.0	7.08	7.11	FAIR	FAIR	B	4/11/2018		110.0	YES		MH543-1 NOT ON MAP
JM/BB/MW/SH	4/12/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	TV	543	542	126.0	7.11	14.06	FAIR	GOOD	B/PC	4/11/2018		126.0	YES		MH543 - 542 INFILTRATION 37' & 42' & 60' MULTIPLE CRACKS/BROKEN PIPE 24 FT.
JM/BB/SH	4/13/2018	X	CAP WORK		SA03-01	CHESTER CREEK	8	CLAY	TV	519-3	519-2	320.0	7.03	7.03	FAIR	FAIR	B	4/13/2018		320.0	YES	320.0	
JM/BB/SH	4/13/2018	X	CAP WORK		SA03-01	CHESTER CREEK	8	CLAY	ROOT CUTTING	519-3	519-2	320.0	7.03	7.03	FAIR	FAIR	B	4/13/2018					320.0
JM/BB/SH	4/13/2018	X	CAP WORK		SA02-06	KINGSTON TERRACE	8	PVC	TV	540-D	540-C	33.0	6.09	14.06	FAIR	FAIR	B	4/10/2018		33.0	YES		
JM/BB/SH/JW	4/17/2018	X	CAP WORK	1	SA02-04	CONCORD ROAD	8	CLAY	CLEANING	624	623	233.0	11.04	11.03	FAIR	FAIR	B	4/17/2018	233.0				
JM/BB/SH/JW	4/17/2018	X	CAP WORK		SA02-04	CONCORD ROAD	8	CLAY	TV	624	623	233.0	1.04	11.03	FAIR	FAIR	B	4/17/2018		233.0	YES		
JM/BB/SH/JW	4/17/2018	X	CAP WORK		SA02-04	CONCORD ROAD	8	CLAY	CLEANING	623-1	623	345.0	5.10	11.03	FAIR	FAIR	B	4/17/2018	345.0				
JM/BB/SH/JW	4/17/2018	X	CAP WORK		SA02-04	CONCORD ROAD	8	CLAY	TV	623-1	623	345.0	5.10	1.03	FAIR	FAIR	B	4/17/2018	345.0				
JM/BB/SH/JW	4/17/2018	X	CAP WORK		SA02-06	DUTTON MILL ROAD	8	CLAY	CLEANING	542	549	280.0	14.06	8.04	GOOD	FAIR	PC/B	4/17/2018	280.0				MH542 PC/MH549 B
RH/JM/BB/SH	4/18/2018	X	CAP WORK	1	SA02-06	RIDGE ROW	8	CLAY	CLEANING	550	549	30.0	8.07	8.04	FAIR	FAIR	B	4/18/2018	30.0				
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-06	RIDGE ROW	8	CLAY	CLEANING	551	550	72.0	7.04	8.07	FAIR	FAIR	B	4/18/2018	72.0				
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-06	RIDGE ROW	8	CLAY	TV	549	541	30.0	8.04	19.06	FAIR	FAIR	B	4/18/2018	30.0				
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-06	RIDGE ROW	8	CLAY	TV	549	541	30.0	8.04	19.06	FAIR	FAIR	B	4/18/2018		72.0	YES		
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-06	RIDGE ROW	8	CLAY	TV	549	541	30.0	8.04	19.06	FAIR	FAIR	B	4/18/2018		30.0	YES		
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	609-A	609	237.0	4.11	9.00	FAIR	FAIR	B	4/18/2018	237.0				
RH/JM/BB/SH	4/18/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	609-A	609	237.0	4.11	9.00	FAIR	FAIR	B	4/18/2018		237.0	YES		
JM/RH/BB/SH	4/25/2018		CAP WORK	1	SA02-03B	VALLEY GREEN DRIVE	8	CLAY	CLEANING	630-4	630-3	136.0	4.03	7.08	FAIR	FAIR	B		136.0				
JM/RH/BB/SH	4/25/2018		CAP WORK		SA02-03B	VALLEY GREEN DRIVE	8	CLAY	TV	630-4	630-3	136.0	4.03	7.08	FAIR	FAIR	B	4/25/2018		136.0	YES		
JM/RH/BB/SH	4/25/2018		CAP WORK		SA02-06	RIDGE ROW	8	CLAY	TV	550	549	30.0	8.07	8.04	FAIR	FAIR	B	4/18/2018		30.0	YES		
JM/RH/BB/SH	4/26/2018		CAP WORK	1	SA02-04	SHERWOOD ROW	8	CLAY	CLEANING	LH646-5	646	110.0		6.03		FAIR	B	4/26/2018	110.0				LH646-5 BURIED
JM/RH/BB/SH	4/26/2018		CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	CLEANING	522	521-1	43.0	12.07	9.07	FAIR	FAIR	B/PC	4/26/2018	43.0				MH522 B/MH521-1 PC
JM/RH/BB/SH	4/26/2018		CAP WORK		SA02-06	PARK LANE ROW	8	CLAY	TV	522	521-1	43.0	12.07	9.07	FAIR	FAIR	B/PC	4/26/2018		43.0	YES		MH522 B/MH521-1 PC
JM/RH/BB/SH	4/26/2018		CAP WORK	1	SA02-05B	MILDRED ROW	8	CLAY	CLEANING	563	562	51.0	10.08	8.08	FAIR	GOOD	B/PC	4/26/2018	51.0				MH563 B/MH562 PC
JM/RH/BB/SH	4/26/2018		CAP WORK		SA02-05B	MILDRED ROW	8	CLAY	TV	563	562	51.0	10.08	8.08	FAIR	GOOD	B/PC	4/26/2018		51.0	YES		MH563 B/MH562 PC
4/18 Monthly Totals for 2018 CAP																			2717.0	2110.0		968.0	
2017 CAP Work Completed																			0.0	1089.0		0.0	
JM/SH/BB/RH	5/2/2018	X	CAP WORK	1	SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	609	608-A	120.0	8.10	5.08	FAIR	FAIR	B	5/2/2018	120.0				MH 608-A NEEDS NEW COVER AND FRAME.
JM/SH/BB/RH	5/2/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	609	608-A	120.0	8.10	5.08	FAIR	FAIR	B	5/2/2018		120.0	YES		MH 608-A NEEDS NEW COVER AND FRAME.



SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP																							
Initials	Date	Mgr App	Task Description/Job Name	Truckloads		Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH-CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
JM/SH/BB/RH	5/2/2018	X	CAP WORK	1	SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	608-A	608	154.0	8.08	10.08	FAIR	FAIR	B	5/2/2018	154.0				MH 608A & 608 NEEDS NEW COVERS AND FRAMES.
JM/SH/BB/RH	5/2/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	608-A	608	154.0	8.08	10.08	FAIR	FAIR	B	5/2/2018		154.0	YES		MH 608A & 608 NEEDS NEW COVERS AND FRAMES.
JM/SH/BB/RH	5/2/2018	X	CAP WORK	1	SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	608	607	245.0	1.08	7.08	FAIR	FAIR	B	5/2/2018	245.0				MH 608 & 607 NEEDS NEW COVERS AND FRAMES.
JM/SH/BB/RH	5/2/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	608	607	245.0	1.08	7.08	FAIR	FAIR	B	5/2/2018		245.0	YES		MH 608 & 607 NEEDS NEW COVERS AND FRAMES.
JM/SH/BB/RH	5/3/2018	X	CAP WORK	1	SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	606	605	279.0	10.05	6.02	FAIR	FAIR	B	5/3/2018	279.0				MH606 NEEDS CEMENT CAP
JM/SH/BB/RH	5/3/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	606	605	279.0	10.05	6.02	FAIR	FAIR	B	5/3/2018		279.0	YES		MH606 NEEDS CEMENT CAP
JM/SH/BB/RH	5/3/2018	X	CAP WORK	1	SA02-04	SCHOOL HOUSE ROW	8	CLAY	CLEANING	605	605-1	313.0	6.02	10.03	FAIR	FAIR	B	5/3/2018	131.0				
JM/SH/BB/RH	5/3/2018	X	CAP WORK		SA02-04	SCHOOL HOUSE ROW	8	CLAY	TV	605	605-1	313.0	6.02	10.03	FAIR	FAIR	B	5/3/2018		131.0	YES		
JM/SH/BB/RH	5/4/2018		CAP WORK	1	SA02-03A	ARCHER LANE ROW	8	CLAY	CLEANING	640	639	110.0	13.06	6.09	FAIR	FAIR	B	5/4/2018	110.0				
JM/SH/BB/RH	5/4/2018		CAP WORK		SA02-03A	ARCHER LANE ROW	8	CLAY	TV	640	639	110.0	13.06	6.09	FAIR	FAIR	B	5/4/2018		110.0	YES		
JM/SH/BB/RH	5/4/2018		CAP WORK	1	SA02-03A	ARCHER LANE ROW	8	CLAY	CLEANING	639	638	150.0	6.09	6.07	FAIR	FAIR	B	5/4/2018	150.0				
JM/SH/BB/RH	5/4/2018		CAP WORK		SA02-03A	ARCHER LANE ROW	8	CLAY	TV	639	638	150.0	6.09	6.07	FAIR	FAIR	B	5/4/2018		150.0	YES		
JM/RH/SH/BB	5/10/2018		CAP WORK	1	SA02-03A	ARCHER LANE ROW	8	CLAY	CLEANING	638	637	180.0	6.07	6.06	FAIR	FAIR	B	5/10/2018	180.0				
JM/RH/SH/BB	5/10/2018		CAP WORK		SA02-03A	ARCHER LANE ROW	8	CLAY	TV	638	637	180.0	6.07	6.06	FAIR	FAIR	B	5/10/2018		180.0	YES		
JM/RH/SH/BB	5/10/2018		CAP WORK	1	SA02-03A	ARCHER LANE ROW	8	CLAY	CLEANING	637	636	300.0	6.06	5.08	FAIR	FAIR	B	5/10/2018	300.0				
JM/RH/SH/BB	5/10/2018		CAP WORK		SA02-03A	ARCHER LANE ROW	8	CLAY	TV	637	636	300.0	6.06	5.08	FAIR	FAIR	B	5/10/2018		300.0	YES		
JM/RH/BB/SH	5/11/2018		CAP WORK	1	SA02-06	DUTTON MILL ROW	8	CLAY	CLEANING	540-A	540-A1	300.0	20.08	23.00	GOOD	GOOD	PC	5/11/2018	300.0				
JM/RH/BB/SH	5/11/2018		CAP WORK		SA02-06	DUTTON MILL ROW	8	CLAY	CLEANING	540-A1	540	50.0	23.00	27.00	GOOD	GOOD	PC	5/11/2018	50.0				
JM/RH/BB/SH	5/16/2018		CAP WORK	1	SA02-03A	SHERWOOD LANE	8	CLAY	CLEANING	LH646-5	646	105.0	4.08	6.02	FAIR	FAIR	B	5/16/2018	105.0				
JM/RH/BB/SH	5/16/2018		CAP WORK	1	SA02-03A	SHERWOOD LANE	8	CLAY	ROOT CUTTING	LH646-5	646	105.0	4.08	6.02	FAIR	FAIR	B	5/16/2018		105.0	YES		105.0
JM/RH/BB/SH	5/16/2018		CAP WORK	1	SA02-03A	SHERWOOD LANE	8	CLAY	TV	LH646-5	646	105.0	4.08	6.02	FAIR	FAIR	B	5/16/2018		105.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK	1	SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-19	507-16	255.0	8.01	9.06	GOOD	GOOD	PC	5/18/2018	255.0				
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-16	507-15	300.0	9.06	7.07	GOOD	GOOD	PC	5/18/2018	300.0				
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-15	507-14	163.0	7.07	8.00	GOOD	GOOD	PC	5/18/2018	163.0				
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-14	507-13	201.0	8.00	6.05	GOOD	GOOD	PC	5/18/2018	201.0				
JM/RH/BB/SH	5/18/2018		CAP WORK	1	SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-13	507-10	118.0	6.05	7.07	GOOD	GOOD	PC	5/18/2018	118.0				
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-10	507-11	280.0	7.07	6.07	GOOD	GOOD	PC	5/18/2018	280.0				
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-11	507-12	170.0	6.07	11.10	GOOD	GOOD	PC	5/18/2018	170.0				MH507-12 NEEDS TO BE REPLACED.
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	CLEANING	507-12	507-3	280.0	11.10	13.04	GOOD	GOOD	PC	5/18/2018	280.0				MH507-12 NEEDS TO BE REPLACED.
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-19	507-16	255.0	8.01	9.06	GOOD	GOOD	PC	5/18/2018		255.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-16	507-15	300.0	9.06	7.07	GOOD	GOOD	PC	5/18/2018		300.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-15	507-14	163.0	7.07	8.00	GOOD	GOOD	PC	5/18/2018		163.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-14	507-13	201.0	8.00	6.05	GOOD	GOOD	PC	5/18/2018		201.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-13	507-10	118.0	6.05	7.07	GOOD	GOOD	PC	5/18/2018		118.0	YES		
JM/RH/BB/SH	5/18/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-10	507-11	280.0	7.07	6.07	GOOD	GOOD	PC	5/18/2018		280.0	YES		
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-11	507-12	170.0	6.07	11.10	GOOD	GOOD	PC	5/18/2018		170.0	YES		REPLACED MANHOLE 507-12 WITH NEW FRAME AND COVER.
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	BEATRICE LANE	8	PCV	TV	507-12	507-3	280.0	11.10	13.04	GOOD	GOOD	PC	5/18/2018		280.0	YES		REPLACED MANHOLE 507-12 WITH NEW FRAME AND COVER.
JM/RH/BB/SH	5/22/2018		CAP WORK	1	SA02-07	MEGAN CIRCLE	8	PVC	CLEANING	507-3	507-2	156.0	13.04	9.10	GOOD	GOOD	PC	5/22/2018	156.0				
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	MEGAN CIRCLE	8	PVC	CLEANING	507-2	507-1	153.0	9.10	9.00	GOOD	GOOD	PC	5/22/2018		153.0			
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	MEGAN CIRCLE	8	PVC	CLEANING	507-1	507-A	248.0	9.00	16.06	GOOD	GOOD	PC	5/22/2018		248.0			
JM/RH/BB/SH	5/22/2018		CAP WORK	1	SA02-07	MEGAN CIRCLE	8	PVC	CLEANING	507-A	507	124.0	16.06	9.10	GOOD	GOOD	PC	5/22/2018		124.0			
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	KRISTINE WAY	8	PVC	CLEANING	507-18	507-17	163.0	5.05	7.04	GOOD	GOOD	PC	5/22/2018		163.0			
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	KRISTINE WAY	8	PVC	CLEANING	507-17	507-16	224.0	7.04	9.06	GOOD	GOOD	PC	5/22/2018		224.0			
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	MEGAN CIRCLE	8	PVC	TV	507-3	507-2	156.0	13.04	9.10	GOOD	GOOD	PC	5/22/2018		156.0	YES		
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	MEGAN CIRCLE	8	PVC	TV	507-2	507-1	153.0	9.10	9.00	GOOD	GOOD	PC	5/22/2018		153.0	YES		
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	ROW	8	PVC	TV	507-1	507-A	248.0	9.00	16.06	GOOD	GOOD	PC	5/22/2018		248.0	YES		
JM/RH/BB/SH	5/22/2018		CAP WORK		SA02-07	ROW	8	PVC	TV	507-A	507	124.0	16.06	9.10	GOOD	GOOD							

SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
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Initials	Date	Mgr App	Task Description/Job Name	Truckloads		Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper	Lower	Feet Apart	Manhole 1	Manhole 2	Condition/Type	Condition/Type	Manhole	Date Last	Total Feet	Total Feet	Video	Total Feet	Comments
				of Water	Water Shed					Manhole 1 #	Manhole 2 #	(CMH)- CMH)	Depth in Ft & In	Depth in Ft & In			Type (B=Brick, PC=Precast)		Cleaned	Cleaned	TV'd	Provided	
JM/RH/BB/SH	5/23/2018		CAP WORK	2	SA06-02	ANVIL ROAD	8	CLAY	CLEANING	493-1	493	302.0	11.05	10.07	FAIR	FAIR	BRICK	5/23/2018	302.0				
JM/RH/BB/SH	5/23/2018		CAP WORK		SA06-02	ANVIL ROAD	8	CLAY	TV	493-1	493	302.0	11.05	10.07	FAIR	FAIR	BRICK	5/23/2018		302.0	YES		
JM/RH/BB/SH	5/23/2018		CAP WORK	1	SA02-07	MERCEDES DRIVE	8	PVC	CLEANING	507-8	507-9	172.0	6.00	8.01	GOOD	GOOD	PC	5/23/2018	172.0				
JM/RH/BB/SH	5/23/2018		CAP WORK		SA02-07	MERCEDES DRIVE	8	PVC	TV	507-8	507-9	172.0	6.00	8.01	GOOD	GOOD	PC	5/23/2018		172.0	YES		
JM/RH/BB/SH	5/23/2018		CAP WORK		SA02-07	MERCEDES DRIVE	8	PVC	CLEANING	507-9	507-10	174.0	8.01	7.07	GOOD	GOOD	PC	5/23/2018	174.0				
JM/RH/BB/SH	5/23/2018		CAP WORK		SA02-07	MERCEDES DRIVE	8	PVC	TV	507-9	507-10	174.0	8.01	7.07	GOOD	GOOD	PC	5/23/2018		174.0	YES		
JM/RH/BB/SH	5/23/2018		CAP WORK		SA02-07	ROMAINE WAY	8	PVC	CLEANING	507-20	507-19	216.0	7.07	9.06	GOOD	GOOD	PC	5/23/2018	216.0				
JM/RH/BB/SH	5/23/2018		CAP WORK		SA02-07	ROMAINE WAY	8	PVC	TV	507-20	507-19	216.0	7.07	9.06	GOOD	GOOD	PC	5/23/2018		216.0	YES		
JM/RH	5/24/2018		CAP WORK	1	SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-14	519-13	255.0	7.01	6.08	FAIR	FAIR	B	5/24/2018	255.0				
JM/RH	5/24/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-13	519-12	140.0	6.08	6.10	FAIR	FAIR	B	5/24/2018	140.0				
JM/RH	5/24/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-12	519-11	257.0	6.10	5.06	FAIR	FAIR	B	5/24/2018	257.0				
JM/RH	5/24/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-11	519-10	303.0	5.06	8.03	FAIR	FAIR	B	5/24/2018	303.0				
JM/RH	5/24/2018		CAP WORK	1	SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-10	519-9	298.0	8.03	8.01	FAIR	FAIR	B	5/24/2018	298.0				
JM/RH	5/24/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-9	519-8	303.0	8.01	7.08	FAIR	FAIR	B	5/24/2018	303.0				
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-14	519-13	255.0	7.01	6.08	FAIR	FAIR	B	5/24/2018		255.0	YES		
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-13	519-12	140.0	6.08	6.10	FAIR	FAIR	B	5/24/2018		140.0	YES		
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-12	519-11	257.0	6.10	5.06	FAIR	FAIR	B	5/24/2018		257.0	YES		
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-11	519-10	303.0	5.06	8.03	FAIR	FAIR	B	5/24/2018		303.0	YES		
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-10	519-9	298.0	8.03	8.01	FAIR	FAIR	B	5/24/2018		298.0	YES		
JM/BB/SH	5/25/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-9	519-8	303.0	8.01	7.08	FAIR	FAIR	B	5/24/2018		303.0	YES		
5/18 Monthly Totals for 2018 CAP																		7379.0	6630.0		105.0		
2017 CAP Work Completed																		0.0	399.0		0.0		
JM/RH/BB/SH	6/1/2018		CAP WORK	5	SA03-01	ADAMS DRIVE	8	CLAY	ROOT CUTTING	519-8	519-7	258.0	7.08	8.09	FAIR	FAIR	B				258.0		
JM/RH/BB/SH	6/1/2018		CAP WORK	1	SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-8	519-7	258.0	7.08	8.09	FAIR	FAIR	B	6/1/2018	258.0				
PULLED OUT 2- 5 GALLON BUCKETS OF ROOT BALLS BETWEEN MH519-8 - MH519-7																							
JM/RH/BB/SH	6/4/2018		CAP WORK	5	SA03-01	ADAMS DRIVE	8	CLAY	ROOT CUTTING	519-8	519-7	258.0	7.08	8.09	FAIR	FAIR	B				258.0		
JM/RH/BB/SH	6/4/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-8	519-7	258.0	7.08	8.09	FAIR	FAIR	B	6/1/2018		258.0	YES		
JM/RH/BB/SH	6/5/2018		CAP WORK	3	SA03-01	ADAMS DRIVE	8	CLAY	ROOT CUTTING	519-7	519-6	151.0	8.09	7.10	FAIR	FAIR	B				151.0		
JM/RH/BB/SH	6/5/2018		CAP WORK	1	SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-7	519-6	151.0	8.09	7.10	FAIR	FAIR	B	6/5/2018	151.0				
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-7	519-6	151.0	8.09	7.10	FAIR	FAIR	B	6/5/2018		151.0	YES		
JM/RH/BB/SH	6/5/2018		CAP WORK	1	SA03-01	ADAMS DRIVE	8	CLAY	ROOT CUTTING	519-6	519-5	199.0	7.10	8.05	FAIR	FAIR	B				199.0		
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	CLEANING	519-6	519-5	199.0	7.10	8.05	FAIR	FAIR	B	6/5/2018	199.0				
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	ADAMS DRIVE	8	CLAY	TV	519-6	519-5	199.0	7.10	8.05	FAIR	FAIR	B	6/5/2018		199.0	YES		
JM/RH/BB/SH	6/5/2018		CAP WORK	1	SA03-01	GRANT DRIVE	8	CLAY	CLEANING	519-50	519-49	270.0	4.07	9.02	FAIR	FAIR	B	6/5/2018	270.0				
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	GRANT DRIVE	8	CLAY	TV	519-50	519-49	270.0	4.07	9.02	FAIR	FAIR	B	6/5/2018		270.0	YES		
JM/RH/BB/SH	6/5/2018		CAP WORK	1	SA03-01	GRANT DRIVE	8	CLAY	CLEANING	519-49	519-48	251.0	9.02	8.00	FAIR	FAIR	B	6/5/2018	251.0				
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	GRANT DRIVE	8	CLAY	TV	519-49	519-48	251.0	9.02	8.00	FAIR	FAIR	B	6/5/2018		251.0	YES		
JM/RH/BB/SH	6/5/2018		CAP WORK		SA03-01	GRANT DRIVE	8	CLAY	ROOT CUTTING	519-49	519-48	251.0	9.02	8.00	FAIR	FAIR	B				251		
JM/RH/BB/SH	6/5/2018		CAP WORK	1	SA03-01	GRANT DRIVE	8	CLAY	CLEANING	519-46	519-47	303.0	6.03	8.11	FAIR	FAIR	B	6/5/2018	303.0				
JM/RH/BB/SH	6/6/2018		CAP WORK		SA03-01	GRANT DRIVE	8	CLAY	TV	519-46	519-47	303.0	6.03	8.11	FAIR	FAIR	B	6/5/2018		303.0	YES		
JM/RH/BB/SH	6/6/2018		CAP WORK	1	SA03-01	GRANT DRIVE	8	CLAY	CLEANING	519-47	519-48	336.0	8.11	8.00	FAIR	FAIR	B	6/6/2018	336.0				
JM/RH/BB/SH	6/6/2018		CAP WORK		SA03-01	GRANT DRIVE	8	CLAY	TV	519-47	519-48	336.0	8.11	8.00	FAIR	FAIR	B	6/6/2018		336.0	YES		
JM/RH/BB/SH	6/6/2018		CAP WORK		SA03-01	JACKSON DRIVE	8	CLAY	CLEANING	519-48	519-44	277.0		6.05	FAIR	FAIR	B	6/6/2018	277.0				
JM/RH/BB/SH	6/6/2018		CAP WORK		SA03-01	JACK																	



<p align="center"><b>SWDCMA</b>  <b>Collection System - Cleaning &amp; Televising CAP</b>  <b>11/1/17-10/31/18</b></p>	
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Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP

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SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP																							
Initials	Date	Mgr App	Task Description/Job Name	Truckloads		Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH-CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	MARIANNE DRIVE	8	CLAY	TV	516-21	516-20	300.0	3.07	4.00	FAIR	FAIR	B	6/19/2018		300.0		YES	
JM/RH/BB/SH	6/19/2018		CAP WORK	1	SA03-02	SIR GALAHAD DRIVE	8	CLAY	CLEANING	516-20	516-17	325.0	4.00	9.06	FAIR	FAIR	B	6/19/2018	325.0				
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	CLAY	TV	516-20	516-17	325.0	4.00	9.06	FAIR	FAIR	B	6/19/2018		325.0		YES	
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	SCHOOL LANE	8	CLAY	CLEANING	516-19	516-18	225.0	3.03	6.10	FAIR	FAIR	B	6/19/2018	225.0				
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	SCHOOL LANE	8	CLAY	TV	516-19	516-18	225.0	3.03	6.10	FAIR	FAIR	B	6/19/2018		225.0		YES	
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	SCHOOL LANE	8	CLAY	CLEANING	516-18	516-17	201.0	6.10	9.06	FAIR	FAIR	B	6/19/2018	201.0				
JM/RH/BB/SH	6/19/2018		CAP WORK		SA03-02	SCHOOL LANE	8	CLAY	TV	516-18	516-17	201.0	6.10	9.06	FAIR	FAIR	B	6/19/2018		201.0		YES	
JM/RH/BB/SH	6/19/2018		CAP WORK	1	SA03-02	SIR GALAHAD DRIVE	8	CLAY	CLEANING	516-17	516-16	298.0	9.06	8.04	FAIR	FAIR	B	6/19/2018	298.0				
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	CLAY	TV	516-17	516-16	298.0	9.06	8.04	FAIR	FAIR	B	6/20/2018		298.0		YES	
JM/RH/BB/SH	6/20/2018		CAP WORK	1	SA03-02	SIR GALAHAD DRIVE	8	CLAY	CLEANING	516-16	516-14	162.0	8.04	7.09	FAIR	FAIR	B	6/20/2018	162.0				
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	CLAY	TV	516-16	516-14	162.0	8.04	7.09	FAIR	FAIR	B	6/20/2018		162.0		YES	
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	LANCELOT PLACE	8	AC	CLEANING	516-15	516-14	235.0	9.05	7.09	FAIR	FAIR	B	6/20/2018	235.0				
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	LANCELOT PLACE	8	AC	TV	516-15	516-14	235.0	9.05	7.09	FAIR	FAIR	B	6/20/2018		235.0		YES	
JM/RH/BB/SH	6/20/2018		CAP WORK	1	SA03-02	SIR GALAHAD DRIVE	8	AC	CLEANING	516-14	516-13	174.0	7.09	7.01	FAIR	FAIR	B	6/20/2018	174.0				
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	AC	TV	516-14	516-13	174.0	7.09	7.01	FAIR	FAIR	B	6/20/2018		174.0		YES	
JM/RH/BB/SH	6/20/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	AC	CLEANING	516-13	516-12	166.0	7.01	7.00	FAIR	FAIR	B	6/20/2018	166.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	AC	TV	516-13	516-12	166.0	7.01	7.00	FAIR	FAIR	B	6/20/2018		166.0		YES	
JM/RH/BB/SH	6/21/2018		CAP WORK	1	SA03-02	CAMELOT DRIVE	8	CLAY	CLEANING	516-12	516-11	306.0	7.00	10.05	FAIR	FAIR	B	6/21/2018	306.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	CLAY	TV	516-12	516-11	306.0	7.00	10.05	FAIR	FAIR	B	6/21/2018		306.0		YES	
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	CLAY	CLEANING	516-11	516-10	324.0	10.05	7.06	FAIR	FAIR	B	6/21/2018	324.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	CLAY	TV	516-11	516-10	324.0	10.05	7.06	FAIR	FAIR	B	6/21/2018		324.0		YES	
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	TRS	CLEANING	516-24	516-23	171.0	8.11	9.02	FAIR	FAIR	B	6/21/2018	171.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	TRS	TV	516-24	516-23	171.0	8.11	9.02	FAIR	FAIR	B	6/21/2018		171.0		YES	
JM/RH/BB/SH	6/21/2018		CAP WORK	1	SA03-02	CAMELOT DRIVE	8	TRS	CLEANING	516-23	516-22	278.0	9.02	8.00	FAIR	FAIR	B	6/21/2018	278.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	TRS	TV	516-23	516-22	278.0	9.02	8.00	FAIR	FAIR	B	6/21/2018		278		YES	
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	TRS	CLEANING	516-22	516-10	172.0	8.00	7.06	FAIR	FAIR	B	6/21/2018	172.0				
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	TRS	CLEANING	516-24	516-23	306.0	6.02	9.02	FAIR	FAIR	B	6/21/2018	306.0				MANHOLE 515-7 NEEDS REPLACING.
JM/RH/BB/SH	6/21/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	TRS	CLEANING	515-7	516-23	306.0	6.02	9.02	FAIR	FAIR	B	6/21/2018		306		YES	MANHOLE 515-7 NEEDS REPLACING.
RH/BB/SH/DP	6/22/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	TRS	CLEANING	516-22	516-10	172.0	8.00	7.06	FAIR	FAIR	B	6/22/2018	172.0				HAD TO REDO LINES DUE TO EQUIPMENT PROBLEMS.
RH/BB/SH/DP	6/22/2018		CAP WORK		SA03-02	SIR GALAHAD DRIVE	8	TRS	CLEANING	516-24	516-23	171.0	8.11	9.02	FAIR	FAIR	B	6/22/2018	171.0				HAD TO REDO LINES DUE TO EQUIPMENT PROBLEMS.
RH/BB/SH/DP	6/22/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	AC	CLEANING	516-13	516-12	166.0	7.01	7.00	FAIR	FAIR	B	6/22/2018	166.0				HAD TO REDO LINES DUE TO EQUIPMENT PROBLEMS.
JM/BB/SH/DP	6/25/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	CLAY	TV	516-12	516-11	306.0	7.00	10.05	FAIR	FAIR	B	6/21/2018		306.0		YES	HAD TO REDO LINES DUE TO EQUIPMENT PROBLEMS.
JM/BB/SH/DP	6/25/2018		CAP WORK		SA03-02	CAMELOT DRIVE	8	CLAY	TV	516-11	516-10	324.0	10.05	7.06	FAIR	FAIR	B	6/21/2018		324.0		YES	HAD TO REDO LINES DUE TO EQUIPMENT PROBLEMS.
JM/BB/SH/DP	6/26/2018		CAP WORK	2	SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-10	516-9	101.0	7.06	11.06	FAIR	FAIR	B	6/26/2018	101.0				
JM/BB/SH/DP	6/26/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-10	516-9	101.0	7.06	11.06	FAIR	FAIR	B	6/26/2018		101.0		YES	
JM/BB/SH/DP	6/26/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-9	516-8	132.0	11.06	7.08	FAIR	FAIR	B	6/26/2018	132.0				
JM/BB/SH/DP	6/26/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-9	516-8	132.0	11.06	7.08	FAIR	FAIR	B	6/26/2018		132.0		YES	
JM/BB/SH/DP	6/26/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-7	516-6	85.0	7.08	8.04	FAIR	FAIR	B	6/26/2018	85.0				
JM/BB/SH/DP	6/26/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-7	516-6	85.0	7.08	8.04	FAIR	FAIR	B	6/26/2018		85.0		YES	
BB/SH/DP	6/29/2018		CAP WORK	1	SA03-02	CAMELTO DRIVE ROW	8	AC	CLEANING	516-2	516-1	247.0	7.09	10.08	FAIR	FAIR	B	6/30/2018	247.0				
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELTO DRIVE ROW	8	AC	TV	516-2	516-1	247.0	7.09	10.08	FAIR	FAIR	B	6/30/2018		247.0		YES	
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-5	516-4	155.0		10.01	FAIR	FAIR	B	6/30/2018	155.0				MH 516-6 BURIED
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-5	516-4	155.0		10.01	FAIR	FAIR	B	6/30/2018		155.0		YES	
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-7	516-6	156.0	8.04		FAIR	FAIR	B	6/30/2018	156.0				

SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
Highlighted rows are lines from 2017 that needed to be redone/completed in 2018; footage should not be included in 2018 CAP																							
Initials	Date	Mgr App	Task Description/Job Name	Truckloads of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH- CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-4	516-3	270.0	10.01	5.09	FAIR	FAIR	B	6/30/2018	270.0				
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-4	516-3	270.0	10.01	5.09	FAIR	FAIR	B	6/30/2018		270.0		YES	
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	CLEANING	516-3	516-2	305.0	5.09	7.09	FAIR	FAIR	B	6/30/2018	305.0				
BB/SH/DP	6/29/2018		CAP WORK		SA03-02	CAMELOT DRIVE ROW	8	AC	TV	516-3	516-2		5.09	7.09	FAIR	FAIR	B	6/30/2018		305.0		YES	
6/18 Monthly Totals for 2018 CAP 2017 CAP Work Completed																			16302.0 0.0	16095.0 0.0			5027.0 0.0
JM/BB/DP/SH	7/2/2018		CAP WORK	1	SA03-03	CAMELTO DRIVE	8	TRUSS	CLEANING	515-6	515-5	61.0	9.02	8.09	FAIR	FAIR	B	7/2/2018	61.0				
JM/BB/DP/SH	7/2/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	TV	515-6	515-5	61.0	9.02	8.09	FAIR	FAIR	B	7/2/2018		61.0		YES	
JM/BB/DP/SH	7/2/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	CLEANING	515-9	515-8	231.0	13.02	13.03	FAIR	FAIR	B	7/2/2018	231.0				
JM/BB/DP/SH	7/2/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	CLEANING	515-8	515-5	208.0	13.03	8.09	FAIR	FAIR	B	7/2/2018	208.0				
JM/BB/DP/SH	7/2/2018		CAP WORK	1	SA03-03	CAMELOT DRIVE	8	TRUSS	CLEANING	515-9A	515-9	299.0	8.07	13.02	FAIR	FAIR	B	7/2/2018	299.0				MANHOLE 515-9A IS NOT ON COLLECTION MAP OR ESRI MAP.
JM/BB/DP/SH	7/2/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	TV	515-9A	515-9	299.0	8.07	13.02	FAIR	FAIR	B	7/2/2018		299.0		YES	
BB/SH	7/5/2018		CAP WORK	2	SA03-03	CAMELOT DRIVE	8	TRUSS	ROOT CUTTING	515-9	515-8	231.0	13.02	13.03	FAIR	FAIR	B					231.0	
BB/SH	7/5/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	TV	515-9	515-8	231.0	13.02	13.03	FAIR	FAIR	B	7/2/2018		231.0		YES	
BB/SH	7/5/2018		CAP WORK		SA03-03	CAMELOT DRIVE	8	TRUSS	TV	515-8	515-5	207.0	13.03	8.09	FAIR	FAIR	B	7/2/2018		207.0		YES	
BB/DP/SA	7/6/2018		CAP WORK	1	SA03-04	CLEARWATER LANE	8	CLAY	CLEANING	509-17	509-16	101.0	8.04	8.09	FAIR	FAIR	B	7/6/2018	101.0				
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	TV	509-17	509-16	101.0	8.04	8.09	FAIR	FAIR	B	7/6/2018		101.0		YES	
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	CLEANING	509-16	509-15	154.0	8.09	8.03	FAIR	FAIR	B	7/6/2018	154.0				
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	TV	509-16	509-15	154.0	8.09	8.03	FAIR	FAIR	B	7/6/2018		154.0		YES	
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	CLEANING	509-15	509-14	254.0	8.03	8.07	FAIR	FAIR	B	7/6/2018	254.0				
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	TV	509-15	509-14	254.0	8.03	8.07	FAIR	FAIR	B	7/6/2018		254.0		YES	
BB/DP/SA	7/6/2018		CAP WORK		SA03-04	CLEARWATER LANE	8	CLAY	CLEANING	509-20	509-19	257.0	8.01	8.03	FAIR	FAIR	B	7/6/2018	257.0				
JM/BB/SH/DP	7/10/2018		CAP WORK	1	SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	CLEANING	515-5	515-4	46.0	8.09	11.00	FAIR	FAIR	B	7/10/2018	46.0				
JM/BB/SH/DP	7/10/2018		CAP WORK		SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	TV	515-5	515-4	46.0	8.09	11.00	FAIR	FAIR	B	7/10/2018		46.0		YES	
JM/BB/SH/DP	7/11/2018		CAP WORK	1	SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	CLEANING	515-3A	515-3	246.0		11.00		FAIR	B	7/11/2018	246.0				MAMHOLE 515-3A BURIED.
JM/BB/SH/DP	7/11/2018		CAP WORK		SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	TV	515-3A	515-3	246.0		11.00		FAIR	B	7/11/2018		246.0		YES	MAMHOLE 515-3A BURIED.
JM/BB/SH/DP	7/11/2018		CAP WORK	1	SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	CLEANING	515-3	515-2A	114.0	11.00	12.02	FAIR	FAIR	B	7/11/2018	114.0				
JM/BB/SH/DP	7/11/2018		CAP WORK		SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	TV	515-3	515-2A	114.0	11.00	12.02	FAIR	FAIR	B	7/11/2018		114.0		YES	
JM/BB/SH/DP	7/11/2018		CAP WORK		SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	CLEANING	515-2A	515-2	14.0	12.02	14.08	FAIR	FAIR	B	7/11/2018	14.0				
JM/BB/SH/DP	7/11/2018		CAP WORK		SA03-03	E. CAMELOT DRIVE ROW	8	TRUSS	TV	515-2A	515-2	14.0	12.02	14.08	FAIR	FAIR	B	7/11/2018		14.0		YES	
JM/BB/DP/SH	7/13/2018		CAP WORK	1	SA03-04	NORTH CLEARWATER LANE	8	TRUSS	CLEANING	509-17A	509-17	60.0		8.04	FAIR	FAIR	B	7/13/2018	60.0				MH509-17A SEIZED.
JM/BB/DP/SH	7/13/2018		CAP WORK		SA03-04	NORTH CLEARWATER LANE	8	TRUSS	TV	509-17A	509-17	60.0		8.04	FAIR	FAIR	B	7/13/2018		60.0		YES	MH509-17A SEIZED.
JM/BB/DP/SH	7/13/2018		CAP WORK		SA03-04	NORTH CLEARWATER LANE	8	TRUSS	CLEANING	509-17B	509-17A	69.0	8.00		FAIR	FAIR	B	7/13/2018	69.0				MH509-17A SEIZED.
JM/BB/DP/SH	7/13/2018		CAP WORK		SA03-04	NORTH CLEARWATER LANE E. CAMELOT DRIVE	8	TRUSS	TV	509-17B	509-17A	69.0	8.00		FAIR	FAIR	B	7/13/2018		69.0		YES	MH509-17A SEIZED.
JM/BB/SH	7/20/2018		CAP WORK	1	SA03-03	ROW E. CAMELOT DRIVE	8	TRUSS	CLEANING	515-1A	515-1	269.0	13.03	9.09	FAIR	FAIR	B/PC	7/20/2018	269.0				MH515-1A BRICK, MH515-1 PC
JM/BB/SH	7/20/2018		CAP WORK		SA03-03	ROW E. CAMELOT DRIVE	8	TRUSS	TV	515-1A	515-1	269.0	13.03	9.09	FAIR	FAIR	B/PC	7/20/2018		269.0		YES	MH515-1A BRICK, MH515-1 PC
JM/BB/SH	7/20/2018		CAP WORK		SA03-03	ROW E. CAMELOT DRIVE	8	TRUSS	CLEANING	515-2	515-1A	17.0	14.08	13.03	FAIR	FAIR	B	7/20/2018	17.0				
JM/BB/SH	7/20/2018		CAP WORK		SA03-03	ROW W. CAMELOT DRIVE	8	TRUSS	TV	515-2	515-1A	17.0	14.08	13.03	FAIR	FAIR	B	7/20/2018		17.0		YES	
JM/BB/SH	7/20/2018		CAP WORK		SA03-03	ROW	8	AC	TV	516-6	516-5	156.0	8.04	BURIED	FAIR	FAIR	B	6/30/2018		156.0		YES	MH516-6 BURIED



SWDCMA Collection System - Cleaning & Televising CAP 11/1/17-10/31/18																							
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Initials	Date	Mgr App	Task Description/Job Name	Truckloads		Location or Street	Pipe Size	Pipe Type	Type of Work (CAP)	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH- CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
				of Water	Water Shed																		
JM/BB/SH	7/30/2018		CAP WORK			SA02-03A	ARCHER ROW	8	CLAY	CLEANING	635	630	122.0	6.09	12.09	FAIR	FAIR	B	7/30/2018	122.0			
JM/BB/SH	7/30/2018		CAP WORK			SA02-03A	ARCHER ROW	8	CLAY	TV	635	630	122.0	6.09	12.09	FAIR	FAIR	B	7/30/2018		122.0	YES	
7/18 Monthly Totals for 2018 CAP																			2522.0	2420.0			231.0
2017 CAP Work Completed																			0.0	0.0			0.0
RAH/BB/SH	8/24/2018		CAP WORK			SA03-02	CAMELOT DRIVE ROW	8	PVC	TV	516-2	516-1	247.0	7.09	10.08	FAIR	FAIR	B	6/30/2018		247.0	YES	
8/18 Monthly Totals for 2018 CAP																			0.0	247.0			0.0
2017 CAP Work Completed																			0.0	0.0			0.0
JM/RH/SH/FG	10/16/2018		CAP WORK	1		SA03-04	N. CLEARWATER	8	CLAY	RC	509-19	509-18	301.0	8.04	8.07	FAIR	FAIR	B					301.0
JM/RH/SH/FG	10/16/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	CLEANING	509-19	509-18	301.0	8.04	8.07	FAIR	FAIR	B	10/16/2018	301.0			
JM/RH/SH/FG	10/16/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	TV	509-19	509-18	301.0	8.04	8.07	FAIR	FAIR	B	10/16/2018		301.0	YES	
JM/RH/SH/FG	10/16/2018		CAP WORK	1		SA03-04	N. CLEARWATER	8	CLAY	CLEANING	509-18	509-14	303.0	8.07	8.05	FAIR	FAIR	B	10/16/2018	303.0			
JM/RH/SH/FG	10/16/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	CLEANING	509-28	509-27	131.0	6.11	7.07	FAIR	FAIR	B	10/16/2018	131.0			
JM/RH/SH/FG	10/16/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	CLEANING	509-26	509-27	112.0	7.01	7.07	FAIR	FAIR	B	10/16/2018	112.0			
JM/RH/SH/FG	10/17/2018		CAP WORK	1		SA03-04	VICTOR AVE.	8	CLAY	CLEANING	509-27	509-25	301.0	7.07	6.02	FAIR	FAIR	B	10/16/2018	301.0			
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	VICTOR AVE.	8	CLAY	CLEANING	509-25	509-24	301.0	6.02	5.05	FAIR	FAIR	B		301.0			
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	VICTOR AVE.	8	CLAY	CLEANING	509-24	509-23	282.0	5.05	7.00	FAIR	FAIR	B		282.0			
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	TV	509-18	509-14	303.0	8.07	8.05	FAIR	FAIR	B	10/16/2018		303.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	TV	509-28	509-27	131.0	6.11	7.07	FAIR	FAIR	B	10/16/2018		131.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	N. CLEARWATER	8	CLAY	TV	509-26	509-27	112.0	7.01	7.07	FAIR	FAIR	B	10/16/2018		112.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	VICTOR AVE.	8	CLAY	TV	509-27	509-25	301.0	7.07	6.02	FAIR	FAIR	B	10/16/2018		301.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	VICTOR AVE.	8	CLAY	TV	509-25	509-24	301.0	6.02	5.05	FAIR	FAIR	B	10/16/2018		301.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	VICTOR AVE.	8	CLAY	TV	509-23	509-22	162.0	7.00	12.02	FAIR	FAIR	B	10/17/2018		162.0	YES	
JM/RH/SH/FG	10/17/2018		CAP WORK	1		SA03-04	VICTOR- CLEARWATER	8	CLAY	CLEANING	509-23	509-22	162.0	7.00	12.02	FAIR	FAIR	B		162.0			
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	CLEARWATER	8	CLAY	CLEANING	509-22	509-14	193.0	12.02	8.05	FAIR	FAIR	B		193.0			
JM/RH/SH/FG	10/17/2018		CAP WORK			SA03-04	TRIMBLE RUN	8	CLAY	CLEANING	509-14	509-13	204.0	8.05	8.06	FAIR	FAIR	B		204.0			
RH/SH	10/18/2018		CAP WORK			SA03-04	VICTOR AVE. VICTOR-	8	CLAY	TV	509-24	509-23	282.0	5.05	7.00	FAIR	FAIR	B	10/17/2018		282.0	YES	
RH/SH	10/18/2018		CAP WORK			SA03-04	CLEARWATER	8	CLAY	TV	509-22	509-14	193.0	12.02	8.05	FAIR	FAIR	B	10/17/2018		193.0	YES	
RH/SH	10/18/2018		CAP WORK			SA03-04	TRIMBLE RUN	8	CLAY	TV	509-14	509-13	204.0	8.05	8.06	FAIR	FAIR	B	10/17/2018		204.0	YES	
RH/SH	10/18/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	RC	509-10	509-9	191.0	8.04	8.02	FAIR	FAIR	B					191.0
RH/SH	10/18/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	CLEANING	509-10	509-9	191.0	8.04	8.02	FAIR	FAIR	B		191.0			
RH/SH	10/18/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	TV	509-10	509-9	191.0	8.04	8.02	FAIR	FAIR	B	10/18/2018		191.0	YES	
RH/SH	10/18/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	RC	509-9	509-8	169.0	8.02	11.03	FAIR	FAIR	B					169.0
RH/SH	10/18/2018		CAP WORK			SA033-04	JOHN DR.	8	CLAY	CLEANING	509-9	509-8	169.0	8.02	11.03	FAIR	FAIR	B		169.0			
RH/SH	10/18/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	TV	509-9	509-8	169.0	8.02	11.03	FAIR	FAIR	B	10/18/2018		169.0	YES	
RH/SH	10/19/2018		CAP WORK	1		SA03-04	JOHN DR.	8	CLAY	RC	509-11	509-8	61.0	8.01	11.03	FAIR	FAIR	B					61.0
RH/SH	10/19/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	CLEANING	509-11	509-8	61.0	8.01	11.03	FAIR	FAIR	B		61.0			
RH/SH	10/19/2018		CAP WORK			SA03-04	JOHN DR.	8	CLAY	TV	509-11	509-8	61.0	8.01	11.03	FAIR	FAIR	B	10/19/2018		61.0	YES	
RH/SH	10/19/2018		CAP WORK			SA03-04	TRIMBLE RUN	8	CLAY	CLEANING	509-13	509-12	97.0	8.06	4.01	FAIR	FAIR	B		97.0			
RH/SH	10/19/2018		CAP WORK			SA03-04	TRIMBLE RUN	8	CLAY	TV	509-13	509-12	97.0	8.06	4.01	FAIR	FAIR	B	10/19/2018		97.0	YES	
10/18 Monthly Totals for 2018 CAP																			2808.0	2808.0			722.0

SWDCMA																									
Collection System - Cleaning & Televising Routine, Non-Routine and Trouble Call Maintenance																									
11/1/17-10/31/18																									
Initials	Date	Mgr App	Task Description/Job Name	Truckloads of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work NR, TC)	(R, )	Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH- CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments	
AB	12/19/2017		CLEANING	1	SA03-05	ADAIR ROAD			TC		1234-1C	1234-1D	175.0	7.09	8.00	FAIR	FAIR	B		175				NO PROBLEM WITH MAIN LINE. LINE FLOWING, NO BLOCKAGE IN MAIN LINE	
AB/SC	12/21/2017		CLEANING	1	SA05-01	PARK LANE			R		217	216	175	6.05	6.06	FAIR	FAIR	B		175					
AB/SC	12/21/2017		CLEANING	1	SA05-01	PARK LANE			R		216	215	320	6.06	6.09	FAIR	FAIR	B		320					
AB/SC	12/22/2017		CLEANING	1	SA05-01	PARK LANE			R		215	214	200	6.09	10.08	FAIR	FAIR	B		200					
AB/SC/	12/22/2017		CLEANING	1	SA05-01	PARK LANE			R		214	213-1	130	10.08	13	FAIR	FAIR	B		130					
AB/SC	12/27/2017		CLEANING	1	SA06-02	GERALD DRIVE			TC		428-2	428-1	275	7.04	7.06	FAIR	FAIR	B		275					
AB/SC	12/27/2017		CLEANING	1	SA03-01	ADAMS DRIVE			R		519-10	519-9	300	6.03	7.01	FAIR	FAIR	B		300					
AB/SC	12/27/2017		CLEANING	1	SA03-01	ADAMS DRIVE			R		519-9	519-8	305	7.01	7.05	FAIR	FAIR	B		305					
AB/SC	12/27/2017		CLEANING	1	SA03-01	ADAMS DRIVE			R		519-8	519-7	310	7.05	7.09	FAIR	FAIR	B		310					
AB/SC	12/27/2017		CLEANING	1	SA03-01	ADAMS DRIVE			R		519-7	519-6	240	7.09	8	FAIR	FAIR	B		240					
AB/SC	12/29/2017		CLEANING	1	SA02-04	GARDEN LANE			R		690	689	202.5	6.08	7.02	FAIR	FAIR	B		202.5					
AB/SC	12/29/2017		CLEANING	1	SA02-04	GARDEN LANE			R		689	688	310	7.02	7.07	FAIR	FAIR	B		310					
AB/SC	12/29/2017		CLEANING	1	SA02-04	GARDEN LANE			R		688	687	240	7.07	7.09	FAIR	FAIR	B		240					
AB/SC	12/29/2017		CLEANING	1	SA02-04	GARDEN LANE			R		687	686	200	7.09	8	FAIR	FAIR	B		200					
12/17 Monthly Totals - Routine Maintenance																				2933	0		0		
12/17 Monthly Totals - Trouble Calls																					450	0		0	
AB/SC	1/3/2018		TV		SA02-04	CREEK ROAD	18	AC	TC		583	582	175			FAIR	POOR	B			175			EMERGENCY TV SEWER MAIN 18" FRED HAS DVD TAPED	
AB/SC	1/12/2018		CLEANING	1	SA06-02	COLONIAL CIRCLE			TC		434-6	434-5	300		7.06		FAIR	B		300				NEEDS LOCATED	
AB/SC	1/12/2018		ROOT CUTTING	1	SA03-01	LINCOLN DRIVE			R		519-3	519-2	305	7.04	5.02	FAIR	FAIR	B					305		
AB/SC	1/12/2018		CLEANING	1	SA05-05	LAMPOST LANE			R		158-7	158-6	280	6.08	8.07	FAIR	FAIR	B		280					
AB/SC	1/12/2018		CLEANING	1	SA05-04	EDGAR AVENUE			R		355	355-1	315	7	6.09	FAIR	FAIR	B		315					
AB/SC/JM	1/16/2018	X	CLEANING	1	SA05-04	EDGAR AVENUE			R		351	350	110	8.07	11	FAIR	FAIR	B		110					
AB/SC/JM	1/16/2018	X	CLEANING	3	SA05-02	CRYSTAL ROAD			R		260	259	390	12	6.09	FAIR	FAIR	B		390				BLOCKAGE IN LINE FROM MH260 TO MH259 CRYSTAL ROAD. PULLED OUT GREASE/ROOTS.	
AB/SC/JM	1/16/2018	X	CLEANING	1	SA05-02	CRYSTAL ROAD			R		259	158	340	11.06	8.04	FAIR	FAIR	B		340				HAD TO CLEAN SEWER LINE MH259 TO MH258 CRYSTAL ROAD, WAS BACKING UP WHEN CLEANING SEWER LINES MH260 TO MH259 PULL OUT TREE ROOTS.	
AB/SC/JM	1/17/2018	X	CLEANING	1	SA03-05	ADAIR ROAD			R		1234-3C	1234-3B	180	7	7.04	FAIR	FAIR	B		180					
AB/SC/JM	1/17/2018	X	CLEANING		SA03-05	ADAIR ROAD			R		1234-3B	1234-3A	171	7.04	7.09	FAIR	FAIR	B		171					
AB/SC/JM	1/17/2018	X	CLEANING		SA03-05	ADAIR ROAD			R		1234-3C	1234-3D	227	7.01	7.04	FAIR	FAIR	B		227					
AB/SC/JM	1/17/2018	X	CLEANING		SA03-05	ADAIR ROAD			R		1234-3D	1234-3E	185	7.04	7.06	FAIR	FAIR	B		185					
AB/SC/JM	1/17/2018	X	ROOT CUTTING	3	SA03-05	HARSHAW ROAD			R		1234-4-1C	1234-4-1D	150	7.03	7.07	FAIR	FAIR	B					150		
AB/SC/JM	1/17/2018	X	ROOT CUTTING		SA03-05	HARSHAW ROAD			R		1234-4-1B	1234-4-1A	197	7.05	7.06	FAIR	FAIR	B					197		
AB/SC/JM	1/17/2018	X	ROOT CUTTING		SA03-05	HARSHAW ROAD			R		1234-4-1C	1234-4-1B	230	7.03	7.05	FAIR	FAIR	B					230		
AB/SC	1/18/2018	X	ROOT CUTTING		SA03-05	ELSON ROAD			R		1234-6-2	1234-6-1	225	7.05	8	FAIR	FAIR	B					225		
AB/SC	1/18/2018	X	ROOT CUTTING		SA03-05	ELSON ROAD			R		1234-6-1	1234-6	220	8	8.02	FAIR	FAIR	B					220		
AB/SC	1/18/2018	X	ROOT CUTTING		SA03-05	ELSON ROAD			R		1244-F	1244-E	110	7.04	7.06	FAIR	FAIR	B					110		
AB/SC	1/18/2018	X	ROOT CUTTING		SA03-05	ELSON ROAD			R		1244-E	1244-D	155	7.06	7.07	FAIR	FAIR	B					155		
AB/SC	1/18/2018	X	ROOT CUTTING	4	SA03-05	ELSON ROAD			R		1244-D	1244-C	200	7.07	7.04	FAIR	FAIR	B					200		
AB/SC	1/18/2018	X	EMERGENCY TV		SA02-02	PENNELL MANOR	8	TC	TC		662	661	200	6.3	6.05	FAIR	FAIR	PC			200	YES		MOBILE DREDGING CLEANED	
AB/SC	1/19/2018	X	ROOT CUTTING	1	SA03-05	ELSON ROAD			R		1242-1H	1242-1G	130	7.01	7.04	FAIR	FAIR	B					130		
AB/SC	1/19/2018	X	ROOT CUTTING	1	SA03-05	ELSON ROAD			R		1242-1G	1247	241	7.04	7.07	FAIR	FAIR	B					241		
AB/SC	1/20/2018	X	CLEANING	1	SA05-05	LAMPPOST LANE			TC		158-14	158-15	300	6.09	7.02	FAIR	FAIR	B		300				EMERGENCY SEWER CALL.	
AB/SC/JM	1/23/2018	X	CLEANING	5	SA03-05	RAINER ROAD			R		1243-11	1243-10	318.9	7.09	7.06	FAIR	FAIR	B		318.9					
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1243-10	1243-9	165.1	7.06	7.11	FAIR	FAIR	B		165.1				MH1243-9 ON RAINER ROAD, HAD TO BE REPLACED MANHOLE COVER WAS CRACKED.	
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1243-9	1243-8	177.1	7.11	6.09	FAIR	FAIR	B		177.1				MH1243-9 ON RAINER ROAD, HAD TO BE REPLACED MANHOLE COVER WAS CRACKED.	
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1243-8	1234-7	218.7	6.09	6.04	FAIR	FAIR	B		218.7					
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1234-7	1234-6	168.2	6.04	6	FAIR	FAIR	B		168.2					
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1234-6	1234-5	244.8	6	5.02	FAIR	FAIR	B		244.8					
AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1234-4	1234-3	216.8	7	9.07	FAIR	FAIR	B		216.8					

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AB/SC/JM	1/23/2018	X	CLEANING		SA03-05	RAINER ROAD			R		1244-D	1243-5	190	5.08	5.02	FAIR	FAIR	B		190				
AB/SC/JM	1/24/2018		CLEANING	5	SA03-05	RAINER ROAD			R		1234-7-3	1234-7-2	197	6.09	7	FAIR	FAIR	B		197				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	RAINER ROAD			R		1234-7-2	1234-7-1	240	7	7	FAIR	FAIR	B		240				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	RAINER ROAD			R		1234-7-1	1234-7	95	7	7.04	FAIR	FAIR	B		95				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	RAINER ROAD			R		1243-3	1243-2	145	7.09	7.07	FAIR	FAIR	B		145				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	POWELL ROAD			R		1243-2	1243-1	160	7.07	7.08	FAIR	FAIR	B		160				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	POWELL ROAD			R		1243-1	1243	65	7.08	7.07	FAIR	FAIR	B		65				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	POWELL ROAD			R		1243	1242	52	7.07	7.06	FAIR	FAIR	B		52				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	TOBY FARMS PUMP STATION			R		1242	1241-A	180	7.06	4	FAIR	FAIR	B		180				
AB/SC/JM	1/24/2018		CLEANING		SA03-05	TOBY FARMS PUMP STATION			R		1241-A	1241	15	4	4	POOR	POOR	B		15				
AB/SC/JM	1/25/2018	X	ROOT CUTTING	5	SA03-05	WORRILOW ROAD			R		1234-6-4	1234-41E	216	6.09	8.05	FAIR	FAIR	B		216				
AB/SC/JM	1/25/2018	X	ROOT CUTTING		SA03-05	WORRILOW ROAD			R		1234-4-1E	1234-3E	240	8.05	7.06	FAIR	FAIR	B		240				
AB/SC/JM	1/25/2018	X	ROOT CUTTING		SA03.05	TOBY FARMS R.O.W.			R		1239	1240	210	4.1		FAIR		B		210				NEEDS LOCATED
AB/SC/JM	1/25/2018	X	ROOT CUTTING		SA03.05	TOBY FARMS R.O.W.			R		1240	1241	240	4.1	4		POOR	B		240				NEEDS LOCATED
AB/SC/JM	1/25/2018	X	CLEANING		SA02-04	GREENBRIER PLACE			R		604-4	604-5	230	10.05	9.1	FAIR	FAIR	B		230				
AB/SC/JM	1/26/2018	X	CLEANING	5	SA05-01	N. LEE LANE			R		213-1	213-2	250	4.07	7.03	FAIR	FAIR	B		250				
AB/SC/JM	1/26/2018	X	GREASE CUT		SA05-04	PENNELL ROAD			R		347-1A	347	365	9	9.03	FAIR	FAIR	B		365				
AB/SC/JM	1/26/2018	X	CLEANING		SA02-06	RIDGE ROAD			R		552-A	552	110	7.01	7.03	FAIR	FAIR	B		110				
AB/SC/JM	1/26/2018	X	CLEANING		SA02-01	OLD PENNELL ROAD			R		889	890	30	5.08	6	FAIR	FAIR	PC		30				
AB/SC/JM	1/26/2018	X	CLEANING		SA05-01	BRIDGE WATER ROAD			R		217	218	300	6.08	7	FAIR	FAIR	PC		300				
AB/SC	1/27/2018	X	CLEANING	1	SA03-01	LINCOLN DRIVE			TC		519-21	519-19	200	7.03	7.05	FAIR	FAIR	B		200				EMERGENCY SEWER CALL, 712 LINCOLN DRIVE ASTON, PA REMOVED BLOCKAGE IN 8" MAIN HEAVY ROOTS AND GREASE. PULLED OUT ROCKS.
AB/SC/JM	1/29/2018	X	CLEANING/ROOT CUT	1	SA03-04	TRIMBLE RUN APTS. R.O.W.			R		509-13	509-12	100	6.09	4	FAIR	FAIR	B		100				
AB/JM	1/30/2018	X	CLEANING	3	SA05-05	LAMPOST LANE			R		158-14	158-17	300	6.09	7.02	FAIR	FAIR	B		300				THIS IS LINE THAT HAD BLOCKAGE IN IT ON 1/20/2018 PULLED OUT ROOTS, LINE FLOWING GOOD AT THIS TIME.
JM/RH/JW	1/31/2018	X	CLEANING	1	SA05-02	CRYSTLE ROAD			R		260	259	380	12.07	6.09	FAIR	FAIR	B		380				
	1/18 Monthly Totals - Routine Maintenance																			8018	0			2163
	1/18 Monthly Totals - Trouble Calls																			800	375			0
JM/RH/SC	2/14/2018	X	CLEANING		SA02-01	VILLAGE GREEN TRAILER PARK	8	VCP	R		890-7B	890-7A	159	8.01	9.08	POOR	GOOD	B		159				
RH/JM/SC	2/22/2018	X	CLEANING	1	SA01-03	PENNELL ROAD	8	CI	R		594-5	594-4	200	8.01	9.11	GOOD	GOOD	PC		200				BALLINCHINCH SIPHON
RH/JM/SC	2/22/2018	X	CLEANING		SA01-03	PENNELL ROAD	8	CI	R		594-5	594-4	200	8.01	9.11	GOOD	GOOD	PC		200				BALLINCHINCH SIPHON
RH/JM/SC	2/22/2018	X	CLEANING		SA02-01	MT ALVERNO ROAD	6	CI	R		882	881	105	5.04	6.1	GOOD	GOOD	PC		105				TRUE VALUE SIPHON
RH/JM/SC	2/22/2018	X	CLEANING		SA02-01	MT ALVERNO ROAD	6	CI	R		882	881	105	5.04	6.1	GOOD	GOOD	PC		105				TRUE VALUE SIPHON
RH/JM/SC	2/22/2018	X	CLEANING	1	SA02-04	CREEK ROAD	8	PVC	R		601	582	130	8.01	12.01	NEW	NEW	PC		130				GARDEN LANE CREEK CROSSING
RH/JM/SC	2/22/2018	X	CLEANING		SA03-05	TOBY FARMS PUMP STATION	8	CLAY	R		1241-A	1241	15	4.05	4	POOR	P	B		15				TOBY FARMS PUMP STATION
RH/JM/SC	2/22/2018	X	CLEANING		SA03-05	TOBY FARMS PUMP STATION	8	CLAY	R		1242	1241-A	135	7	4.05	FAIR	FAIR	B		135				TOBY FARMS PUMP STATION
JM/RH/SC	2/23/2018	X	CLEANING	2	SA02-07	BRIDGEWATER ROAD	6	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				BRIDGEWATER SIPHON
JM/RH/SC	2/23/2018	X	CLEANING		SA02-07	BRIDGEWATER ROAD	6	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				BRIDGEWATER SIPHON
JM/RH/SC	2/23/2018	X	CLEANING		SA02-07	BRIDGEWATER ROAD	8	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				BRIDGEWATER SIPHON
JM/RH/SC	2/23/2018	X	CLEANING		SA02-07	BRIDGEWATER ROAD	18	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				BRIDGEWATER SIPHON



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JM/RH/SC	2/23/2018	X	CLEANING	2	SA02-07	BRIDGEWATER ROAD	18	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				BRIDGEWATER SIPHON, 18" BARRELL ON LEFT WAS CLOGGED. COULD NOT OPEN. WILL GO OUT AGAIN.
2/18 Monthly Totals - Routine Maintenance																				1619	0		0	
JM/RH/SC /SH	3/8/2018	X	CLEANING	1	SA03-05	GIDEON ROAD	8	CLAY	R		1242-1F	1242-1E	225	10.06	8.02	FAIR	FAIR	B		225				
JM/RH/SC /SH	3/8/2018	X	ROOT CUTTING		SA03-05	GIDEON ROAD	8	CLAY	R		1242-1F	1242-1E	225	10.06	8.02	FAIR	FAIR	B					225	
JM/RH/SC /SH	3/8/2018	X	CLEANING	4	SA02-07	BRIDGEWATER ROAD	18	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				18" BARRELL AT BRIDGEWATER SIPHON OPEN AND RUNNING.
JH/RH/MH /SH	3/13/2018	X	CLEANING	1	SA02-05 A&B	MILDRED SIPHON	6	CI	R		562	561	125	8.1	9.07	GOOD	GOOD	PC		125				
JH/RH/MH /SH	3/13/2018	X	CLEANING		SA02-05 A&B	MILDRED SIPHON	6	CI	R		562	561	125	8.1	9.07	GOOD	GOOD	PC		125				
JH/RH/MH /SH	3/13/2018	X	CLEANING	1	SA02-06	DEEP SIPHON	6	CI	R		521-1	521	74	15.02	9.06	GOOD	GOOD	PC		74				
JH/RH/MH /SH	3/13/2018	X	CLEANING		SA02-06	DEEP SIPHON	6	CI	R		521-1	521	74	15.02	9.06	GOOD	GOOD	PC		74				
JM/SM/DS	3/27/2018		CLEANING	1	SA02-02	KNOWLTON ROAD SIPHON	6	CI	R		595	594	125	12.1	9.03	GOOD	GOOD	PC		125				
JM/SM/DS	3/27/2018		CLEANING		SA02-02	KNOWLTON ROAD SIPHON	6	CI	R		595	594	125	12.1	9.03	GOOD	GOOD	PC		125				
JM/RH/SH /BB	3/28/2018		CLEANING	1	SA02-01A&B	GREENBRIAR SIPHON	6	CI	R		629	591	185	8.09	10.03	GOOD	GOOD	PC		185				
JM/RH/SH /BB	3/28/2018		CLEANING		SA02-01A&B	GREENBRIAR SIPHON	6	CI	R		629	591	185	8.09	10.03	GOOD	GOOD	PC		185				
JM/RH/SH /BB	3/28/2018		CLEANING	2	SA02-07	BRIDGEWATER SIPHON	18	CI	R		509	508	114	8.06	10	GOOD	GOOD	PC		114				
JM/RH/BB /SH	3/28/2018		CLEANING	3	SA03-01	CHESTER CREEK ROAD	8	CLAY	TC		519-3	519-2	320	7.03	7.03	FAIR	FAIR	B		320				
JM/BB/SH	3/30/2018	X	CLEANING	1	SA03-05	TOBY FARMS STATION	8	CLAY	R		1242	1241-A	135	7	4.05	POOR	POOR	B		135				
JM/BB/SH	3/30/2018	X	CLEANING		SA03-05	TOBY FARMS STATION	8	CLAY	R		1241-A	1241	15	4.05	4	POOR	POOR	B		15				
JM/BB/SH	3/30/2018	X	CLEANING		SA05-02	CRYSTLE ROAD	8	CLAY	R		242-1	242	150	7.07	7.09	FAIR	FAIR	B		150				
																								WE INSPECTED CRYSTLE ROAD BECAUSE OF BLOCKAGE ISSUES IN PAST AND FOUND ANOTHER BLOCKAGE BETWEEN MH260 - MH259.
JM/BB/SH	3/30/2018	X	CLEANING	1	SA05-02	CRYSTLE ROAD	8	CLAY	R		260	259	380	12.07	6.09	FAIR	FAIR	B		380				
JM/BB/SH	3/30/2018	X	CLEANING		SA02-03A	ALLENDALE ROAD	8	CLAY	R		653	652	192	6.02	6.08	FAIR	FAIR	B		192				
JM/BB/SH	3/30/2018	X	CLEANING	1	SA02-03A	ALLENDALE ROAD	8	CLAY	R		654	653	200	8.01	6.02	FAIR	FAIR	B		200				
JM/BB/SH	3/30/2018	X	CLEANING		SA02-04	VIRGINIA LANE	8	CLAY	R		687-3	687-2	250	8.09	6.02	FAIR	FAIR	B		250				
3/18 Monthly Totals - Routine Maintenance																				2793	0		225	
3/18 Monthly Totals - Trouble Calls																				320	0		0	
JM/RH/BB /SH	4/2/2018	X	ROOT CUTTING	1	SA06-03	CLEARVIEW ROAD	8	CLAY	R		480-5	480-4	331	5.06	6	FAIR	FAIR	B					331	
JM/RH/BB /SH	4/2/2018	X	ROOT CUTTING		SA02-05B	GREEN LANE	8	CLAY	R		569-1	596	158	8.09	9.01	FAIR	FAIR	B					158	
JM/RH/BB /SH	4/4/2018	X	ROOT CUTTING	1	SA03-05	TOBY FARMS ROW	8	CLAY	R		1239	1240	240	5		FAIR		B					240	MANHOLE # 1240 IN TOBY FARMS ROW IS BURIED.
JM/RH/BB /SH	4/4/2018	X	ROOT CUTTING		SA03-05	TOBY FARMS ROW	8	CLAY	R		1240	1241	240		4		POOR	B					240	MANHOLE # 1240 IN TOBY FARMS ROW IS BURIED.
JM/RH/BB /SH	4/4/2018	X	ROOT CUTTING		SA03-05	HARSHAW ROAD	8	CLAY	R		1234-4-1D	1234-4-1E	175	8.03	9.02	FAIR	FAIR	B					175	
JM/RH/BB /SH	4/4/2018	X	ROOT CUTTING		SA05-05	LAMPPPOST LANE	8	CLAY	R		158-14	158-15	260	7.01	6.05	FAIR	FAIR	B					260	
JM/RH/BB /SH	4/4/2018	X	CLEANING	1	SA02-04	VIRGINIA LANE	8	CLAY	R		687-2	687-1	140	6.02	4.03	FAIR	FAIR	B		140				
JM/RH/BB /SH	4/4/2018	X	CLEANING		SA02-04	VIRGINIA LANE	8	CLAY	R		687-1	687	220	4.03	7	FAIR	FAIR	B		220				
JM/RH/BB /SH	4/4/2018	X	CLEANING		SA03-04	BRIDGEWATER SIPHON	8	CLAY	R		509-1	509	15	6.07	7.08	FAIR	GOOD	B/PC		15				MANHOLE 509-1 BRICK MANHOLE 509 PRECAST
JM/BB/M W/SH	4/12/2018	X	CLEANING		SA05-04	PENNELL ROAD	8	CLAY	R		347-1A	347	365	8.1	9.09	FAIR	FAIR	B		365				
JM/RH	4/25/2018		JET/CLEAN		SA05-03	MILTON DRIVE	8	CLAY	TC		302-2	302-1	300	8.04		GOOD		PC		300				MH302-1 BURIED, SEE TROUBLE CALL
4/18 Monthly Totals - Routine Maintenance																				740	0		1404	
4/18 Monthly Totals - Trouble Calls																				300	0		0	
RH/JM	5/17/2018		INSPECTION		SA01-01	CROZERVILLE ROAD BETWEEN 156 & 159	8	CLAY	R		2003-8A	1158B	320	10	4.08	FAIR	FAIR	B						
RH/JM	5/17/2018		INSPECTION		SA05-05	SPRINGBROOK BLVD	10	CLAY	R		144	143	255	12.1	11.02	FAIR	FAIR	B						MHT44 FRAME AND COVER NEEDS REPLACING.
5/18 Monthly Totals - Routine Maintenance																				0	0		0	
RH/BB/JM /SH	6/14/2018		CLEANING	1	SA01-03	MORIA PLACE	8	CLAY	TC		594-11	594-10	154	10.1	14.5	FAIR	FAIR	B		154				
JM/SH/BB/ RH	6/15/2018		CLEANING	1	SA05-04	MARIANVILLE ROAD	8	CLAY	TC		347	345	397	9.09	6.03	FAIR	FAIR	B	6/15/2018	347				TROUBLE CALL SEWER BLOCKAGE

SWDCMA																							
Collection System - Cleaning & Televising Routine, Non-Routine and Trouble Call Maintenance																							
11/1/17-10/31/18																							
Initials	Date	Mgr App	Task Description/Job Name	Truckloads of Water	Water Shed	Location or Street	Pipe Size	Pipe Type	Type of Work NR, TC)	(R, Upper Manhole 1 #	Lower Manhole 2 #	Feet Apart (CMIH-CMH)	Manhole 1 Depth in Ft & In	Manhole 2 Depth in Ft & In	Condition/Type Manhole 1	Condition/Type Manhole 2	Manhole Type (B=Brick, PC=Precast)	Date Last Cleaned	Total Feet Cleaned	Total Feet TV'd	Video Provided	Total Feet Root Cut	Comments
6/18 Monthly Totals - Trouble Calls																			501	0		0	
JM/BB/SH/DP	7/10/2018		CLEANING	1	SA02-07	BRIDGEWATER SIPHON	24	PVC	R	508	507	378	10	9.08	GOOD	GOOD	PC	7/10/2018	378				
JM/SH/DP	7/12/2018		CLEANING	1	SA03-05	TOBY FARMS PUMP STATION	8	CLAY	R	1242	1241	135	7	4.05	FAIR	POOR	BRICK	7/12/2018	135				
JM/SH/DP	7/12/2018		CLEANING		SA03-05	TOBY FARMS PUMP STATION	8	CLAY	R	1241-A	1241	15	4.05	4	POOR	POOR	BRICK	7/12/2018	15				
JM/SH/DP	7/12/2018		CLEANING		SA03-05	GIDEON ROAD	8	CLAY	R	1242-1F	1242-1E	225	10.06	8.02	FAIR	FAIR	BRICK	7/12/2018	225				
JM/SH/DP	7/12/2018		ROOT CUTTING		SA03-05	GIDEON ROAD	8	CLAY	R	1242-1F	1242-1E	225	10.06	8.02	FAIR	FAIR	BRICK					225	
JM/SH/DP	7/12/2018		CLEANING	1	SA03-05	RAINER ROAD	8	CLAY	R	1234-7-4	1234-7-5	340	6.06	6.04	FAIR	FAIR	BRICK	7/12/2018	340				
JM/SH/DP	7/12/2018		CLEANING		SA03-04	BRIDGEWATER ROAD	8	CLAY	R	509-2	509-1	180	7.06	7.05	FAIR	FAIR	BRICK	7/12/2018	180				
JM/BB/DP/FG	7/18/2018		CLEANING	1	SA02-07	BRIDGEWATER ROAD	6	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	7/18/2018	114				5 RUNS BRIDGEWATER SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-07	BRIDGEWATER ROAD	6	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	7/18/2018	114				5 RUNS BRIDGEWATER SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING	1	SA02-07	BRIDGEWATER ROAD	8	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	7/18/2018	114				5 RUNS BRIDGEWATER SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	7/18/2018	114				5 RUNS BRIDGEWATER SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	7/18/2018	114				5 RUNS BRIDGEWATER SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING	1	SA01-01	ROLLING HILLS	6	CI	R	2211-19	2211-18	112	4.03	5	GOOD	GOOD	PC	7/18/2018	112				2 RUNS ROLLING HILLS SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA01-01	ROLLING HILLS	6	CI	R	2211-19	2211-18	112	4.03	5	GOOD	GOOD	PC	7/18/2018	112				2 RUNS ROLLING HILLS SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING	1	SA02-02	KNOWLTON CONST. SIPHON	6	CI	R	593-4	593-3	115	6.06	8.09	GOOD	GOOD	PC	7/18/2018	115				3 RUNS KNOWLTON CONSTRUCTION SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-02	KNOWLTON CONST. SIPHON	8	CI	R	593-4	593-3	115	6.06	8.09	GOOD	GOOD	PC	7/18/2018	115				3 RUNS KNOWLTON CONSTRUCTION SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-02	KNOWLTON CONST. SIPHON	12	CI	R	593-4	593-3	115	6.06	8.09	GOOD	GOOD	PC	7/18/2018	115				3 RUNS KNOWLTON CONSTRUCTION SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING	1	SA02-07	CRUM RUN	6	CI	R	593-11	593-10	135	5.11	6.01	GOOD	GOOD	PC	7/18/2018	135				3 RUNS CRUM RUN SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-07	CRUM RUN	8	CI	R	593-11	593-10	135	5.11	6.01	GOOD	GOOD	PC	7/18/2018	135				3 RUNS CRUM RUN SIPHON
JM/BB/DP/FG	7/18/2018		CLEANING		SA02-07	CRUM RUN	12	CI	R	593-11	593-10	135	5.11	6.01	GOOD	GOOD	PC	7/18/2018	135				3 RUNS CRUM RUN SIPHON
7/18 Monthly Totals - Routine Maintenance																			2817	0		225	
JM/SH/BB	8/2/2018		CLEANING	1	SA06-02	WOODBROOK WAY	8	CLAY	TC	157	157-1A	200.0	5.05	6.03	FAIR	FAIR	B	8/2/2018	200.0				
JM/SH/BB	8/2/2018		TV		SA06-02	WOODBROOK WAY	8	CLAY	TC	157	157-1A	200.0	5.05	6.03	FAIR	FAIR	B	8/2/2018	200.0	200.0	YES		
8/18 Monthly Totals - Trouble Calls																			200	200		0	
JM/RH/SH/JW	9/5/2018		CLEANING	2	SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	9/5/2018	114				
JM/RH/SH/JW	9/5/2018		CLEANING		SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	9/5/2018	114				
JM/RH/SH/FG	9/19/2018		CLEANING	2	SA01-02	TEAM ROAD PUMP STATION	12	CI	R	2001-6	2001-4	97	9.03	7.08	GOOD	GOOD	PC	9/19/2018	97				
JM/RH/SH/FG	9/19/2018		CLEANING		SA01-02	TEAM ROAD PUMP STATION	12	CI	R	2001-4	2001-3	75	7.08	8.02	GOOD	GOOD	PC	9/19/2018	75				
JM/RH/SH/FG	9/19/2018		CLEANING		SA01-02	TEAM ROAD PUMP STATION	12	CI	R	2001-3	2001-2	240	8.02	13.02	GOOD	GOOD	PC	9/19/2018	240				
JM/RH/SH/FG	9/19/2018		CLEANING		SA01-02	TEAM ROAD PUMP STATION	12	CI	R	2001-2	2001-1	115	13.02	18	GOOD	GOOD	PC	9/19/2018	115				
9/18 Monthly Totals - Routine Maintenance																			755	0		0	
JM/RH/FG/SH	10/2/2018		CLEANING	3	SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	9/5/2018	114				
JM/RH/FG/SH	10/2/2018		CLEANING		SA02-07	BRIDGEWATER ROAD	18	CI	R	509	508	114	8.06	10	GOOD	GOOD	PC	9/5/2018	114				
10/18 Monthly Totals - Routine Maintenance																			228	0		0	

SWDCMA						
Collection System - Trouble Calls						
11/1/17-10/31/18						
Initials	Date	Mgr App	Address	Comment	Trouble Call (office hours)	Trouble Call (non-office hours)
FT	11/27/2017		209 WEST KNOWLTON ROAD, MEDIA PA. 19063	CALL CAME IN AS SEWER SMELL IN THE HOUSE. CALLED HOMEOWNER AND SHE EXPLAINED A SEWER SMELL OUTSIDE OF THE HOUSE. SHE WAS HAVING PROBLEMS WITH THE STATIONARY TUB DRAINING AFTER A LOAD OF WASH AND LOW WATER LEVEL IN THE TOILET BOWLS EVEN IF THEY WERE NOT USED. THE HOMEOWNER WAS INSTRUCTED TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL FROM THE HOUSE TO THE SEWER MAIN IN THE STREET.	X	
FT	12/8/2017		54 GREEN LANE, ASTON PA 19014	CALL CAME IN AS SEWER BACKIN UP IN YARD VENT WHEN RUNNING WATER IN HOUSE. CALLED HOMEOWNER BACK AND WAS TOLD THAT THE VENT IN FRONT YARD OVERFLOWS WHEN THEY RUN WATER IN THE HOUSE. THE HOMEOWNER WAS INSTRUCTED TO CALL A PLUMBER AND HAVE THEM ROD THE VENT FROM THE HOUSE TO THE SEWER MAIN IN THE STREET.	X	
FT/AB	12/19/2017		1324 ADAIR ROAD, BROOKHAVEN ,PA 19015	CALL CAME IN AS WATER BACKING UP IN HOUSE. RAN 8" MAIN FROM MH1234-1C TO MH1234-1B PULLED SOME ROOTS OUT OF LINE. LINE FLOWING GOOD. TOLD HOME OWNER MAIN LINE FLOWING GOOD, BLOCKAGE ON OWNER SIDE LATERAL.	X	
AB	12/26/2017		717 ADAMS DRIVE, BROOKHAVEN, PA 19015	CALL CAME IN AS SEWER BACKING UP IN VENT IN FRONT YARD. CHECK MAIN SEWER LINE IN STREET, FLOWING GOOD AT THIS TIME. HAD TO WORK ON GETTING U.S. MANHOLE OFF. BLOCKAGE IS FROM SEWER VENT IN FRONT YARD, OUT TO MAIN SEWER LINE. HOMEOWNERS PROBLEM.	X	
AB/SC	12/27/2017		128 GERALD DRIVE, ASTON, PA 19014	CALL CAME IN SEWAGE BACKING UP IN VENT IN FRONT YARD. SET UP AND RAN 8" MAIN IN FRONT OF HOUSE. PULLED ROOTS OUT OF MAIN LINE MH428-2 TO MH428-1. HOME OWNERS LINE IS STILL BACKED UP, BLOCKAGE IS ON OWNERS SIDE.	X	
AB/SC	12/29/2017		717 ADAMS DRIVE, BROOKHAVEN, PA 19015	CALL CAME IN FROM CHRIS HAYTER BROOKHAVEN TOWNSHIP, HAD TO CHECK MANHOLE FROM SEWER CALL ON 12/26/2017. GOING TO PUT COLD PATCH DOWN AROUND MANHOLE FRAME/COVER, IF NEED TO WILL REPATCH FRAME/COVER.	X	
AB/SC	1/9/2018		BRIDGEWATER ROAD R.O.W. ASTON, PA 19014	EMERGENCY SEWER CALL IN R.O.W. AREA OFF OF BRIDGEWATER ROAD. MH509-2 WAS OVERFLOWING. REMOVED BLOCKAGE, GREASE. CALL D.E.P. DID SPILL REPORT.	X	
AB/SC	1/12/2018	X	34 COLONIAL CIRCLE ASTON ASTON, PA 19014	BLOCKAGE IN 8" MAIN IN FRONT OF HOUSE. CLEANED LINE FROM MH434-6 TO MH434-5 300.0 FEET, PULLED OUT TREE ROOTS IN LINE, REMOVED BLOCKAGE. LINE FLOWING GOOD AT THIS TIME.	X	
FT	1/12/2018		41 WEATHERVAINE ROAD ASTON, PA 19014	CALL CAME IN AS PLUMBER SNAKED LATERAL AND PULLED BACK DISPOSABLE WIPES THAT WERE NOT THE HOMEOWNERS. CALLED THE HOMEOWNER BACK AND WAS TOLD THAT THERE WAS A BLOCKAGE AND THE PLUMBER REMOVED ROOTS AND WIPES FROM THE LINE. MR DIDONATO STATED THEY DO NOT USE DISPOSABLE WIPES IN THEIR HOUSE. HE ALSO STATED THAT THE PLUMBER DID UNCLOG HIS LINE, AND EVERYTHING IS FLOWING GOOD AT THIS TIME. HIS QUESTION IS WHERE DID THE WIPES COME FROM AND DID THEY CAUSE THE BLOCKAGE. I TOLD THE HOMEOWNER THE BLOCKAGE WAS CAUSE BY ROOTS IN THE LATERAL AND THE WIPES WERE SNAGGED BY THE PLUMBER AFTER THEY RAN THEIR SNAKE INTO THE MAIN. HOMEOWNER WOULD LIKE US TO CONFIRM THAT THE MAIN IS OK.	X	
FT	1/15/2018		221 ROBIN HOOD LANE ASTON, PA 19014	CALL CAME IN AS DOWN STAIRS TOILET OVER FLOWED AND HOMEOWNER WANTED TO KNOW IF WE COULD FIND THEIR VENT FOR THEM. CALLED BACKED AND SPOKE TO HOMEOWNERS DAUGHTER WHO STATED THAT THE DOWN STAIRS TOILET OVERFLOWED, AND THEY RAN A SNAKE FROM THE CLEAN OUT AT THE BACK OF THE HOUSE AND FOUND NO BLOCKAGE TO THE VENT IN THE FRONT YARD. THE BLOCKAGE IS BETWEEN THE VENT AND THE MAIN IN THE STREET. I TOLD THEM TO USE A METAL DETECTOR TO LOCATE THE BURIED VENT AND IT SHOULD BE IN THE SAME AREA OF THEIR YARD AS THE NEIGHBORS.	X	
AB/SC/JM	1/15/2018	X	193 LENNI ROAD ASTON, PA 19014	WESCOTT ELECTRIC, GRINDER PUMP NOT PUMPING. HAD TO PULL PUMP #76472 NOT PUMPING REPLACE WITH NEW PUMP #DH612419. TEST NEW PUMP, WORKING GOOD AT THIS TIME.	X	
JM/RH/JW	1/18/2018	X	PENNELL MANOR EASEMENT OFF KNOWLTON ROAD	SA02-02 PENNELL MANOR EASEMENT 8"GRAVITY MAIN REPAIR BETWEEN MH661 & MH662, EXCAVATE TO REPLACE 5' STICK OF - 8" SDR 35, ONE 8" CLAY X 8" PLASTIC FERNCO AND ONE 8" PLASTIC X 10" PLASTIC FERNCO.	X	
AB/SC	1/20/2018	X	644 LAMPOST LANE ASTON, PA 19014	SEWAGE RUNNING OUT OF VENT IN FRONT YARD, 8" MAIN HAD A BLOCKAGE IN IT. RAN 8" MAIN TO REMOVE BLOCKAGE,TREE ROOTS & GREASE. MH-158-14 TO MH-58-15. HAD S.S.O. SEWAGE RUNNING DOWN STREET INTO STORM SEWER AT LAMPOST LANE & WEATHERVAINE LANE. FLUSH DOWN STREET WITH WATER AND STORM SEWER. CALLED D.E.P. DID SPILL REPORT. WILL BE GOING BACK TO ROOT CUT/GREASE CUT THIS LINE.		X
AB/SC	1/26/2018	X	1672 Powell Road Brookhaven, PA 19015	CALL CAME IN AS A BACK UP IN WASHER TUB. CHECK BOTH MANHOLES IN FRONT OF HOUSE 1672 POWELL ROAD. SEWER MAIN FLOWING GOOD AT THIS TIME. NO PROBLEM WITH MAIN LINE. BLOCKAGE ON OWNER SIDE OF LATERAL.	X	
AB/SC	1/27/2018	X	712 LINCOLN DRIVE ASTON, PA 19014	BLOCKAGE IN MAIN LINE IN FRONT OF HOUSE. REMOVED BLOCKAGE IN 8" MAIN ON LINCOLN DRIVE, FROM MH519-19 TO MH519-21, 200 FEET, PULLED OUT TREE ROOTS, GREASE & ROCKS. DID NOT OVER FLOW OUT OF VENT AT HOUSE.		X
FT	1/29/2018		3240 CONCORD ROAD ASTON, PA 19014	CALL CAME IN AS WATER COMING UP IN BASEMENT FLOOR DRAIN. CALLED BACK HOMEOWNER AND DETERMINED TO BE HOMEOWNER'S PROBLEM. NO OTHER INFORMATION IS AVAILABLE FOR THE CALL.	X	
FT	1/31/2018		716 ADAMS DRIVE BROOKHAVEN, PA 19015	CALL CAME IN AS SEWAGE COMING UP OUT OF VENT BY CURB. HOMEOWNER STATED THAT OVER THE WEEKEND HE NOTICED SEWAGE AND PAPER AROUND THE VENT. MR LUCAS THEN CLEANED THE MESS UP BUT NOTICED IT AGAIN TODAY. HE COULD NOT CONFIRM IF IT ONLY OVERFLOWED WHEN RUNNING WATER IN THE HOUSE. I INSTRUCTED HIM TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL FROM THE HOUSE TO THE MAIN IN THE STREET.	X	
FT	1/31/2018		2780 CONCORD ROAD ASTON, PA 19014	CALL CAME IN AS TOILET BACKING UP. TENANT HAD A PLUMBER TRY TO SNAKE THE LINE BUT COULDN'T GO ANY FURTHER THE 97 FEET. THE PLUMBER COULD NOT LOCATE THE TRAP IN PARKING AREA. INSTRUCTED TENANT TO HAVE A PLUMBER LOCATE THE TRAP AND ROD THE LATERAL FROM THE BUILDING TO THE VENT THEN FROM THE VENT TO THE SEWER MAIN.	X	
JM/RH/SC	2/12/2018		CROZERVILLE RD EASEMENT	MANHOLE REPORTED TO BE OFFSET OR KNOCKED OFF CONE. RECENTERED MANHOLE FRAME AND CLEARED OUT DIRT FROM BRECH, FRAME AND COVER NEEDS TO BE BOLTED DOWN.	X	



SWDCMA						
Collection System - Trouble Calls						
11/1/17-10/31/18						
Initials	Date	Mgr App	Address	Comment	Trouble Call (office hours)	Trouble Call (non-office hours)
JM/RH	2/19/2018		201 RAYMOND AVE.	HOMEOWNER REPORTED GROUND WATER IN BASEMENT. NOT SEWAGE. OPENED MANHOLE ABOVE AND BELOW HOME. SEWER MAIN IS FLOWING NORMALLY. TOLD HOMEOWNER IT WAS NOT SEWER RELATED.		X
RH/JM/SC	2/19/2018		2155 ARBOR LN	HOMEOWNER TRAP RUNNING OVER. CHECKED MANHOLE ABOVE AND BELOW HOME. TOLD HOMEOWNER PROBLEM WAS ON HIS PROPERTY.		X
	2/24/2018		STORY ROAD AND JEFFERSON AVENUE, ASTON, PA 19014	WOODBROOK PUMP STATION SSO: OVER FLOW OF WET WELL, SWALE AND CREEK, PARELLEL TO STORY ROAD AND UNDER RT322. BROKEN PIPE TO BUBBLER SYSTEM, SHUT VALVE, SMALL AMOUNT OF SOLIDS WERE RAKED UP AND DEPOSITED PROPERLY. REPAIR TO BUBBLER SYSTEM SCHEDULED FOR WEEK OF 2/26/2018, CLOSED OFF VALVE TO ISOLATE PROBLEM. SPOKE TO REX MILLER FROM DEP. FISH AND GAME DIDNT RESPONDED.	X	
JM/SC	3/12/2018	X	61 SCARLET AVENUE ASTON PA 19014	SLOW DRAINS IN HOME. OPEN MANHOLE ABOVE AND BELOW THE PROPERTY AND DETERMINED THE MAIN WAS CLEAR. TOLD HOMEOWNER THE SEWER MAIN WAS NOT THE PROBLEM.	X	
JM/SC/SH	3/12/2018	X	1335 ADAIR ROAD BROOKHAVEN, PA 19015	REPORTS OF ROOT BLOCKAGE IN LATERAL. OPENED MANHOLE ABOVE AND BELOW 1335 ADAIR ROAD. SEWER MAIN FLOWING NORMALLY. TROUBLE REPORT LEFT IN MAILBOX NO RESPONSE AT DOOR.	X	
JM/RH/SH/	3/13/2018	X	312 CROZERVILLE ROAD ASTON, PA 19014	NORTHWESTERN HUMAN SERVICES, GRINDER PUMP TRIPPING BREAKER, REMOVED AND REPLACED GRINDER PUMP, TOLD HER PUMP WAS REPLACED AND NOW WORKING NORMALLY.	X	
JM	3/19/2018	X	40 SCARLET AVENUE ASTON, PA 19014	CALL CAME IN AS OVERFLOWING TRAP IN DRIVEWAY, OPENED MANHOLES ABOVE AND BELOW 40 SCARLET AVENUE SEWER MAIN FLOWING NORNALLY. HOME OWNER NEEDS TO NOTIFY A PLUMBER.		X
JM	3/23/2018	X	2947 DUTTON MILL ROAD ASTON, PA 19014	CALL CAME IN AS A SINKHOLE IN THE ROAD, CUSTOMER NO SURE IF IT IS A SEWER LINE OR WATER. A SINKHOLE IN THE MAIN ENTRANCE OF BUSINESS COMPLEX IN THE ROAD. OPENED UP SWDCMA MANHOLES AND DETERMINED THE PROBLEM WAS NOT SEWER RELATED. CALLED THE CUSTOMER TO LET HIM KNOW THE PROBLEM WAS NOT SWDCMA.	X	
FRED	3/27/2018		414 CROZERVILLE ROAD ASTON, PA. 19014	CALL CAME IN AS SEWAGE OVERFLOWING VENT IN YARD. HOMEOWNER EXPLAINED THAT THEY NOTICED SEWAGE AROUND THE VENT PIPE IN THEIR BACKYARD, BUT IT WAS NOT OVERFLOWING AT THIS TIME. I INSTRUCTED THEM TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL FROM THE HOUSE TO THE SEWER MAIN IN THE BACK YARD.	X	
FRED	3/27/2018		329 KNOWLTON ROAD MEDIA. PA 19063	CALL CAME IN AS THERE WAS A SEWER BLOCKAGE FROM THE VENT TO THE STREET. THE HOMEOWNER WAS INFORMED THAT THEY ARE RESPONSIBLE FOR A SEWER BLOKAGE FROM THEIR HOUSE TO THE SEWER MAIN IN THE STREET. HE ASKED ME TO TALK TO THE PLUMBER ON SITE WHICH I TOLD HIM THE SAME THING. HOMEOWNERS PROBLEM.	X	
RH/JM/SH/BB	3/28/2018		5007 CHESTER CREEK ROAD BROOKHAVEN, PA 19015	CALL CAME IN FROM DAWN AT BROOKHAVEN BORO, CUSTOMER WAS IN HER OFFICE. MANHOLE IN BACKYARD WAS SURCHARGED. JET SEWER LINE IN BACKYARD 2 LOADS OF WATER. TOLD HOME OWNER 8" SEWER LINE WAS OPEN AND RUNNING. SCHEDULED ROOT CUT.	X	
JM	3/30/2018	X	2405 OVERLOOK DRIVE ASTON, PA 19014	CALL CAME IN AS HOMEOWNER CLAIMS WATER WAS BACKING UP INTO HIS HOUSE. PULLED MANHOLE ABOVE 2405 AND BELOW. I FOUND SEWER MAIN FLOWING NORMALLY. HOMEOWNER CHECKED HIS TRAP AND FOUND NO WATER COMING INTO IT FROM THE HOUSE. I TOLD HIM A PLUMBER SHOULD BE NOTIFIED.		X
FRED	4/5/2018		4002 WOODWORTH ROAD BROOKHAVEN, PA 19015	CALL CAME IN AS WATER BACKING UP IN STATIONARY TUB, CALLED MR MCFARLAND BACK AND WAS TOLD THAT THE STATIONARY TUB FILLS UP WITH SEWAGE EVERYTIME HE FLUSHES THE TOILET. THE HOMEOWNER WAS INSTRUCTED TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL FROM THE HOUSE TO THE SEWER MAIN IN THE STREET.	X	
JM	4/10/2018	X	5 ROLLING HEIGHTS LANE ASTON, PA 19014	HOMEOWNER CALLED AND STATED SLOW DRAINS IN HER HOME. I PULLED MANHOLES ABOVE AND BELOW AND DETERMINED SEWER MAIN WAS FLOWING NORMALLY.		X
JM/BB/SH	4/13/2018	X	MILDRED LANE SIPHON	MANHOLE 564: 11:00-1:00 PM MANHOLE LID OFF AND ROCKS IN MANHOLE. SET UP SAFETY GEAR AND ENTERED MANHOLE TO REMOVE ROCKS AND DEBRIS.		X
FRED	4/20/2018		1426 POWELL ROAD BROOKHAVEN, PA 190015	CALL CAME IN AS SEWAGE BACKING UP IN BASEMENT WASH TUB, CALLED HOMEOWNER BACK AND INFORMED THAT THE STATIONARY TUB IN THE BASEMENT BACKS UP EVERY TIME THE TOILET IS FLUSHED. THE HOME OWNER WAS INSTRUCTED TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL TO THE STREET.	X	
FRED	4/23/2018		1426 POWELL ROAD BROOKHAVEN, PA 190015	RECEIVED A MESSAGE THAT THE PLUMBER STATED THE TRAP WAS BROKE AND HOMEOWNER NEEDED DIRECTION ON WHAT NEEDS TO BE DONE. CALLED HOMEOWNER BACK AND WAS TOLD THE PLUMBER COULD NOT CLEAR BLOCKAGE AND MAY HAVE BROKEN TRAP. TOLD HOMEOWNER THAT IT IS THEIR RESPONSIBILITY TO REPAIR THE LATERAL FROM THE HOUSE TO THE CURB.	X	
FRED	4/25/2018		BRIDGEWATER BUSINESS PARK 45 MILTON DRIVE	(SERVICE TICKET) MANHOLE NEXT TO BUILING WAS SURCHARGED, JET/CLEAN MANHOLE NEXT TO BUILDING. TOLD BUSINESS OWNER PROBLEM WAS SOLVED. (FRED) MANHOLE NEXT TO BUILDING WAS PART OF BUILDING'S LATERAL AND NOT PART OF THE COLLECTION SYSTEM. THE BLOCKAGE WAS 3 FT. IN FROM THIS MANHOLE AND WAS CLEARED WITH SEWER CLEANER. OWNERS PROBLEM. KBX ALSO RAN SEWER MAIN FROM MH302-2 TO 302-1 AND IS FLOWING GOOD. 290 FT. CLEAN. NOTE: MH302-1 COULD NOT BE LOCATED AND IS BURIED IN GRASS AREA ROUGHLY 290 TO 300 FT. FROM MH 302-2.	X	
FRED	5/2/2018		1151 CHERRY TREE ROAD ASTON, PA. 19014	CALL CAME IN AS SEWAGE OVERFLOWING VENT IN FRONT YARD, CALLED MR SIMPSON BACK AND WAS INFORMED THAT HE FIRST NOTICED THE VENT OVERFLOWING DURING THE RAIN STORM LAST WEEK. THEN HE NOTICED WATER AROUND THE VENT AGAIN. I INSTRUCTED HIM TO CALL A PLUMBER AND HAVE THEM ROD HIS LATERAL FROM THE HOUSE TO THE SEWER MAIN IN THE STREET.	X	
JM	5/7/2018		404 DERRY DRIVE ASTON, PA 19014	BUILDING SEWER RISER OVER FLOWING ON GROUND. OPENED MANHOLE ABOVE AND BELOW ADDRESS. CHECKED CLEAN OUT RISERS ABOVE AND BELOW. EVERYTHING NORMAL.	X	
TG	5/9/2018		3604 N. CLEARWATER LANE BROOKHAVEN, PA. 19015	SINKHOLE ON THE HOMEOWNERS SIDE OF CURB LINE, EVALUATE SITE AND DETERMINED SINKHOLE IS A HOMEOWNER ISSUE.	X	

SWDCMA						
Collection System - Trouble Calls						
11/1/17-10/31/18						
Initials	Date	Mgr App	Address	Comment	Trouble Call (office hours)	Trouble Call (non-office hours)
FRED	6/4/2018		3900 MOUNT ROAD ASTON, PA 19014	CALL CAME IN AS PLUMBER SNAKED LATERAL AND COULD NOT CLEAR BLOCKAGE. HOMEOWNER WANTED TO KNOW WHO'S PROBLEM IT WAS. CALLED OWNER BACK AND COULD NOT DETERMINE OVER THE PHONE WHAT OR WHERE THE PROBLEMS WERE. A SITE VISIT WAS MADE AND MET THE OWNER OF THE TRAILER PARK. THE PROBLEM WAS WITH ONE TRAILER AT THE END OF THE BLOCK AND NEXT TO OUR INTERCEPTOR. THE PLUMBER WHO SNAKED THE LINE TOLD THE PLUMBER THAT HE RAN IT 30 FEET AND COULD NOT GO ANY FURTHER. 30 FEET OF DISTANCE WOULD HAVE PUT THE SNAKE IN OUR LINE BUT WAS NOT THE CASE. THE TRAILER PARK HAS TWO SEWER CONNECTIONS, AND BOTH WERE FLOWING FINE. THE OWNER WAS TOLD THAT THE PROBLEM WAS STILL IN THE LATERAL AND NOT A PROBLEM WITH THE SEWER MAIN.	X	
FRED	6/4/2018		31 SCARLET AVENUE, ASTON, PA 19014	CALL CAME IN AS A SEWER SMELL IN HOUSE. CALLED HOMEOWNER AND HE EXPLAINED THAT HE CHECKED ALL HIS DRAINS AND CONFIRMED THAT HIS SEWER WAS DRAINING PROPERLY. THE SMELL WAS ONLY COMING FROM THE KITCHEN AND THE KITCHEN PLUMBING WAS REPLACED 6 MONTHS AGO. THE HOMEOWNER WAS INSTRUCTED TO RECHECK THE TRAPS IN THE KITCHEN AND A CALL A PLUMBER IF THE SMELL PERSISTS.	X	
FRED	6/14/2018		196 MORIA PLACE, ASTON, PA 19014	CALL CAME IN AS MANHOLE WAS OVER FLOWING. MANHOLE 594-11 SURCHARGED. REMOVED MH594-11 COVER AND CLEANED TO MH594-10.	X	
FRED	6/15/2018		MARIANVILLE VILLE ROAD & PENNNELL ROAD	CALL CAME IN FROM ASTON POLICE AS RADIO CALL AS SEWER OVERFLOWING. MANHOLE 347 SURCHARGED. OPENED MH 345 AND JET TO MH 347 WASHED DOWN ROADWAY. SSO, DEP REPORT FILED, SITE PUT ON MAINTENANCE LIST. MINIMAL SPILLAGE WAS WASHED DOWN WITH JET TRUCK. RAGS AND PAPER CAUSE OF SSO.	X	
FRED	6/15/2018		1315 CHERRY TREE ROAD	CALL CAME IN AS BROKEN MANHOLE COVER. OWNER WAS TOLD THE LID WAS MONROE ENGERY PROPERTY. MONROE TOLD GHD WAS COMING IN ON MONDAY 6/18/2018 TO REPAIR LIDS.	X	
RD/TG	6/24/2018		1694 ERB DRIVE, ASTON, PA 19014	E-ONE GRINDER PUMP NOT OPERATING. REMOVED OLD E-ONE PUMP AND INSTALLED NEW PUMP. SERIAL# D27A01A01AA		X
FRED	6/25/2018		106 MARIANVILLE ROAD ASTON, PA 19014	CALL CAME IN AS ALL TOILETS IN HOUSE ARE BACKING UP. CALLED THE HOMEOWNER BACK AND SHE EXPLAINED THAT HER TOILETS HAVE BEEN CAUSING A PROBLEM FOR THE PAST TWO WEEKS OR SO. I INSTRUCTED MRS. WARREN TO CALL A PLUMBER AND HAVE THEM ROD THE LATERAL FROM THE HOUSE TO THE SEWER MAIN IN THE STREET.	X	
BB/DP/SH	7/6/2018		1 JUDY WAY, ASTON, PA 19014	SSO INTO THE PARKING LOT COMING FROM ELWYN LATERAL. CHECKED MANHOLE LATERAL FLOWS TO ENSURE IT WAS FLOWING. ASSUMED DAMAGE WAS CAUSED BY THE SUNOCO PIPE LINE. RESPONSIBILITY ELWIN.	X	
JM/DP	7/17/2018		3652 CLEARWATER LANE, BROOKHAVEN, PA 19015	MANHOLE COVER ROCKING ON FRAME CAUSING NOISE, REMOVED MANHOLE COVER AND INSTALL RING OF MASTIC.	X	
FRED	7/16/2018		580 LONGBOTHAM DRIVE ASTON, PA 19014	CALL CAME IN AS SEWAGE BACKING UP INTO BASEMENT WHEN TOILETS ARE FLUSHED. CONTACTED HOMEOWNER WHO STATED THAT THE STATIONARY TUB BACKED UP WHEN DOING WASH AND FILLED UP WHEN FLUSHING TOILETS. THE HOMEOWNER WAS INSTRUCTED TO CALL A PLUMBER AND HAVE THEM ROD THEIR LATERAL FROM THE HOUSE TO THE SEWER MAIN.	X	
JM	8/1/2018		2235 SPRINGHOUSE LANE ASTON, PA. 19014	CALL CAME IN AS SINK HOLES IN YARD. SETTLEMENT WITHIN THE SEWER EASEMENT. DETERMINED THE SETTLEMENT WAS WITHIN THE EASEMENT, FRAME AND COVER SEIZED. CAMERA AND JET THE SEWER MAIN. NOT SWDCMA RESPONSIBILITY.	X	
BB/SH	8/3/2018		86 WOODBROOK WAY ASTON, PA 19014			
JM	8/6/2018		79 SEWARD LANE, ASTON, PA 190104	HOMEOWNER STATING SLOW DRAINS IN BASEMENT AND WATER COMING IN HER BASEMENT DRAIN. OPENED MANHOLE ABOVE AND BELOW HOUSE. INSPECTED WATER HEIGHT IN TRAP. TOLD HER THE PROBLEM APPEARED TO BE IN THE HOME AND SHE NEEDED TO CALL A PLUMBER.	X	
JM/SH	8/8/2018		325 CROZERVILLE ROAD ASTON, PA 19014	PLUMBER CALLED TO REPORT A PLUG IN MANHOLE THAT NEEDS TO BE REMOVED FOR CONTRACTOR. PICKED UP CONFINED SPACE ENTRY GEAR AND ENTERED MANHOLE TO REMOVE PLUG. PLUG WAS DEAD END SIDE OF MANHOLE. HOUSE TAP WAS DOWNSTREAM.	X	
JM	8/8/2018		5 MILLRIDGE DRIVE, ASTON, PA 19014	CALL CAME IN AS THEY HAVE BEEN HAVING A PROBLEM WITH GROUND WATER IN THEIR YARD THERE WAS ALSO 2 MANHOLES IN THE YARD BETWEEN THE SPOT WHERE THE WATER IS.. UPON ARRIVAL THE TECHNICIAN FOUND GROUND WATER IN TRENCH. TECHNICIAN DID SITE EVALUATION AND DETERMINED IT TO BE GROUND WATER. TOLD HOMEOWNER WATER IN TRENCH WAS GROUND WATER.	X	
RH/BB/SH	8/24/2018		3240 CONCORD ROAD ASTON, PA 19014	INSPECTION OF 8" TRUNK LINE @ HOUSE LATERAL. LINES FOUND TO BE CLEAR.		X
JM	8/27/2018		TEAM ROAD NEAR PUMP STATION	WATER RUNNING OUT OF THE GROUND BY BRIDGE ON TEAM ROAD NEAR PUMP STATION. PERFORMED TEST ON WATER AND DETERMINED IT TO BE CWA PROBLEM. FRED CONTACTED CWA AND TOLD THEM OF THE PROBLEM.	X	
CN	9/4/2018		30 SCARLET AVE. ASTON, PA 19014	FRONT YARD IS A SWAMP, WATER AND OILY FILM BUT NO SEWAGE DETECTED; ALLIED SAID NOT AN OIL LINE. RUNNING DOWN DRIVE. MS.NELSON ADVISED THE HOMEOWNER TO CONTACT CWA TO DETERMINE IF IT IS A WATER LINE LEAK BEFORE CONTACTING A PLUMBER.	X	
	9/15/2018		420 GARDEN LN ASTON PA	HOMEOWNER STATED SEWER WAS BACKING UP. OPEN UP MANHOLE BELOW & ABOVE 420 & DETERMINED BLOCKAGE WAS IN LATERAL. A PLUMBER NEEDS TO BE CONTACTED TO CLEAN LATERAL		X
CN	9/18/2018		3604 N. CLEARWATER LANE BROOKHAVEN, PA. 19015	CALL CAME IN AS A SINK HOLE BETWEEN SIDEWALK AND STREET. SPOKE WITH MAXINE: CUSTOMER STATES NO WATER OR WET AREAS VISIBLE, HAD CALLED BROOKHAVEN BORO WHO TOLD US TO CALL SWDCMA. ADVISED HOMEOWNER THAT IF IT IS A SEWER ISSUE IT WOULD BE IN HER LATERAL AND HOMEOWNER'S RESPONSIBILITY. IF HOMEOWNER WOULD LIKE TO PURSUE, SHE SHOULD CONTACT CWA AND A PLUMBER.	X	

SWDCMA						
Collection System - Trouble Calls						
11/1/17-10/31/18						
<u>Initials</u>	<u>Date</u>	<u>Mgr App</u>	<u>Address</u>	<u>Comment</u>	<u>Trouble Call (office hours)</u>	<u>Trouble Call (non-office hours)</u>
CN	9/24/2018		4924 GRANT DRIVE BROOKHAVEN, PA 19015	HOMEOWNER CALLED ABOUT SINKHOLE ON THE HOUSE SIDE OF THE CURB; HAD CALLED BROOKHAVEN BORO WHO ADVISED HER TO CALL BOTH CWA AND SWDCMA; HOMEOWNER STATED CWA CLAIMED IT WAS NOT A WATER ISSUE; DIRT INSIDE SINKHOLE IS NOT WET AND THERE ARE NO SIGNS OF SEWAGE; ADVISED CUSTOMER THAT IT MAY POSSIBLY JUST BE SETTLING DUE TO THE WET WEATHER; BUT IF SHE WOULD LIKE TO PURSUE THE ISSUE, THEN IT WOULD BE HER RESPONSIBILITY TO CALL A PLUMBER TO TELEWISE HER LATERAL	X	
CN	9/26/2018		3604 N. CLEARWATER LANE BROOKHAVEN, PA. 19015	HOMEOWNER CALLED ABOUT SINKHOLE ON THE HOUSE SIDE OF THE CURB; HAD CALLED BROOKHAVEN BORO WHO ADVISED HER TO CALL SWDCMA; HOMEOWNER STATED DIRT INSIDE SINKHOLE IS NOT WET AND THERE ARE NO SIGNS OF SEWAGE; ADVISED CUSTOMER THAT IT MAY POSSIBLY JUST BE SETTLING DUE TO THE WET WEATHER; BUT IF SHE WOULD LIKE TO PURSUE THE ISSUE, THEN IT WOULD BE HER RESPONSIBILITY TO CALL A PLUMBER TO TELEWISE HER LATERAL	X	
CN	9/27/2018		106 MARIONVILLE ROAD ASTON, PA 19014	CALL CAME IN FROM ASTON TOWNSHIP, SEWAGE COMING OUT OF TRAP IN YARD. OPENED UP MANHOLES ABOVE AND BELOW #106 AND FOUND GRAVITY SEWER MAIN FLOWING NORMAL.	X	
CN	9/28/2018		11 TUSCANY ROAD ASTON, PA 19014	ADVISED CUSTOMER TO CALL PLUMBER AND HAVE HER LATERAL RODDED FROM HOUSE TO SEWER MAIN.	X	
JM	10/1/2018		1 CROZERVILLE ROAD ASTON, PA 19014	BUSINESS OWNER STATED A CLOG IN BUILDING. TRAP HAD A PIECE OF A 6" THREADED PLASTIC PLUG IN IT. OPENED UP MANHOLE ABOVE THE PROPERTY AND BELOW. 8" SEWER MAIN FLOWING PROPERLY. BUILDING SEWER CLOGS ARE PROPERTY OWNERS RESPONSIBILITY.		X
JM/FT	10/11/2018		144 RICHARD ROAD	PLUMBER TOLD HOMEOWNER BLOCKAGE WAS IN STREET. OPENED UP MANHOLE ABOVE & BELOW 144 AND DETERMINED THE SEWER MAIN WAS FLOWING NORMALLY. TOLD CUSTOMER TO CONTACT PLUMBER & HAVE HIM COME BACK OUT .	X	
JM/RAH	10/15/2018		307 RONALD ROAD ASTON, PA. 19014	SEWER MAIN FLOWING ABOVE AND BELOW SERVICE LATERAL. NO BLOCKAGE OF MAIN FOUND. OPENED MANHOLES UPSTREAM AND DOWNSTREAM OF SERVICE LATERAL.	X	
CN	10/19/2018		4213 BENT LANE, ASTON, PA 19014	CUSTOMER CALLED BEFORE OFFICE HOURS; COMPLAINT OF SLOW TOILET YESTERDAY AND TODAY IT BACKED UP; ROBERT CHECKED THE SEWER MAIN AND ALL WAS FLOWING FINE; CUSTOMER CALLED OFFICE BEFORE KBX COULD RETURN CALL SO CECELIA ADVISED HOMEOWNER TO HAVE PLUMBER ROD HER LATERAL ALL THE WAY TO THE STREET		X
FT	10/30/2018		801 ADAMS DRIVE, BROOKHAVEN, PA 19015	CALL CAME IN AS SEWAGE BACKING UP IN WASHER AND ON FLOOR. CALLED HOMEOWNER BACK AND SHE TOLD ME A PLUMBER WAS OUT AND SAID THE PROBLEM WAS IN THE STREET. I ASKED IF THE PLUMBER RODDED HER LINE FROM THE HOUSE TO OUR MAIN IN THE STREET OR DID THEY STOP AT THE CURB. MRS. STANGER DID NOT KNOW AND WAS INSTRUCTED TO CALL HER PLUMBER BACK AND FIND OUT IF THEY RODDED TO THE SEWR MAIN IN THE MIDDLE OF THE STREET OR STOPPED AT THE CURB AND HAVE THEM COME BACK IF THEY DID NOT.	X	



SWDCMA						
Collection System -PA One Calls						
11/1/17-10/31/18						
Initials	Date	Mgr App	Address	Comment	PA One (office hours)	PA One (non-office hours)
AB/JM	12/7/2017		3912 PENNELL ROAD	PA ONE CALL MARK OUT FORCE MAIN.	X	
AB/SC	1/19/2018		LENNI ROAD	PA ONE CALL MARK OUT, LENNI ROAD, FROM MILLRIDGE DRIVE TO NEW ROAD, LENNI ROAD TO SICKLES DRIVE, MARK OUT 8" MAIN.	X	
JM/RH/SC	2/15/2018		LENNI ROAD		X	
JM/SM/DS	3/27/2018		LENNI ROAD	PA ONE CALL ON LENNI ROAD	X	
JM/RH/BB/SH/	4/25/2018		STANLEY DRIVE & 615 CROZERVILLE ROAD	2 PA ONE CALLS, MARK OUTS STANLEY DRIVE & CROZERVILLE ROAD.	X	
JM/RH/BB/SH/	5/8/2018		CROZERVILLE ROAD & CAROLINE DRIVE	2 PA ONE CALLS	X	
JM/RH/BB/SH/	6/13/2018		LENNI ROAD	PA ONE CALL, CLEANED MANHOLE 2001-26 ON LENNI ROAD WITH JETTER.	X	
JM	7/30/2018		5 ELM AVENUE	PA ONE CALL, OPDENAKER PROPERTY - ALL CLEAR 9:19 TO 10:15 AM.	X	
JM/BB/SH	8/7/2018		CROZERVILLE ROAD	PA ONE CALL.	X	
JM/BB/SH	8/7/2018		BIRNEY HIGHWAY	PA ONE CALL.	X	
JM/RH/FG/SH	10/2/2018		LLEWELYN ROAD & CROZERVILLE ROAD	PA ONE CALL	X	
FG/SH	10/30/2018		VICTOR AVENUE	PA ONE CALL	X	

## **APPENDIX E**

# **MICROMETERING REPORTS**

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To: SWDCMA

From: Geoffrey Kolva

West Chester, PA

File: 174840200

Date: April 24, 2018

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**Reference: Sanitary Sewer Rainfall Derived Inflow and Infiltration (RDII) in SWDCMA Sewershed SA06-02**

In 2015, SWDCMA sanitary sewer lines along Tuscany Road and Wickersham Lane experienced excessive flows during extreme rain fall events. This resulted in the surcharging of some sewer lines and some residential properties experiencing sewer backups. Sanitary sewer surcharges have occurred in this area during extreme storm events in the past. It was assumed a significant source(s) of RDII was entering the sewer lines during rain events and causing the surcharges.

In September 2015 Stantec installed a series of flow meters to investigate a possible source(s) for the excessive flows. Please refer to the attached Sewershed SA06-02 map for the meter locations. SWDCMA installed a regional meter, identified as location (1) on Sewershed SA06-02 map, on the sanitary sewer line downstream of the affected area in manhole MH 412 to use as a baseline for all sewer flows. Stantec installed smaller micrometers in upstream sewer lines to isolate flows and identify possible RDII sources. Two micrometers were installed near the sewer back-ups at manholes 427 (2) and 420 (3). The micrometers were kept in places for 3 months and both meters exhibited increases in flows during wet weather events indicating the system was experiencing RDII. During storms, flows measured at MH 420 would have short but intense spikes including one event where the flow exceeded the capacity of the pipe but did not result in a sewer overflow. The RDII flows indicated a potential illicit direct connection of storm sewer or rain gutter into the sanitary sewer. At MH 427, the increases in flows were more drawn out indicating infiltration into the sewer through cracks and joints and not an illicit direct connection.

After establishing the possibility of an illicit connection upstream of MH 420 (3), micrometers (2) and (3) were removed and install further upstream at manholes MH422-A (4) and MH 422-2 (5) in December 2015. During this period, MH 422-2 (5) received minimal flow and minimal RDII was observed. At MH 422-A (4), RDII was observed during multiple storm events. After several months of the meters being in place, the data indicated the flow spikes observed at regional meter MH 412 (1) and micrometer MH420 (3) were coming from upstream of MH 422-A (4). Discussions then began with the Sisters of St. Francis (SOSF) and Neumann University about continuing the investigation to their sewer system. SOSF and the University are the largest contributors to the sanitary system with flows coming from the convent and multiple academic buildings.

SOSF hired a plumber in August 2016 to investigate and video the privately-owned system on their property. The inspection found deficiencies such as offset pipe joints, roots in the pipes, and sags. The investigation did not identify any sources of potential direct connection.

After further discussions, SWDCMA and Stantec were granted permission from SOSF to install micrometers within their system to try and identify if there were any connections. A micrometer was installed at OLA-19 (6) in March 2017. The data from OLA-19 (6) and MH 422-A (4) continued to indicate the RDII was coming from a direct connection. During March and April 2017, the SOSF hired a firm to further investigate their storm sewer and sanitary system to document all connections and overall layout. During this process, it was found the roof drains for the main convent building and surrounding storm sewer area drains were connected to a manhole, OLA-7, which in turn was connected to the sanitary sewer. This manhole also had the sanitary sewer lateral for the building.

In May 2017, a micrometer was installed at OLA-6 (7) to verify there were no further illicit connections or RDII upstream of OLA-7. This meter was installed until August 2017, during which time no RDII was observed.

**Design with community in mind**

**Reference: Sanitary Sewer Rainfall Derived Inflow and Infiltration (RDII) in SWDCMA Sewershed SA06-02**

The SOSF hired an engineer and contractor to design a storm and sanitary sewer system separation project from the Convent building, see attached plans. The project was completed on October 26, 2017.

Stantec continued to collect data from the micrometers from 422-A (5) and OLA-19 (6) until April 3, 2018. After completion of the storm and sanitary sewer system separation project, no RDII has been observed from the SOSF's system, including during several significant rain fall events.

An example of the reduction in flows during wet weather/rain fall events is in Table 1 below. On August 18, 2017, prior to the storm and sanitary separation project, 1.18" of rain fell during a storm event. During this storm the micrometer installed in OLA-19 (6) recorded a peak flow of 709 gallons per minute. The total flow for the day was 17,295 gallons, which represents a 620% increase over the average dry weather flow recorded in the same MH. This percentage increase during storm events was typical during storm events. The difference between the dry weather flows and wet weather flow was identified as RDII. On Sunday February 11<sup>th</sup>, 2018, after completion of the storm and sanitary separation project, 1.17" of rain fell during a storm event. During this storm, there was no recordable increase in flows and a peak flow rate of 8 gallons per minute. It is Stantec's opinion that the decrease in RDII is likely a result of the elimination of illicit storm sewer connections removed during SOSF's storm and sanitary separation project.

**Table 1 OLA-19 Sanitary Sewer Flows in Gallon Per Day (GPD)**

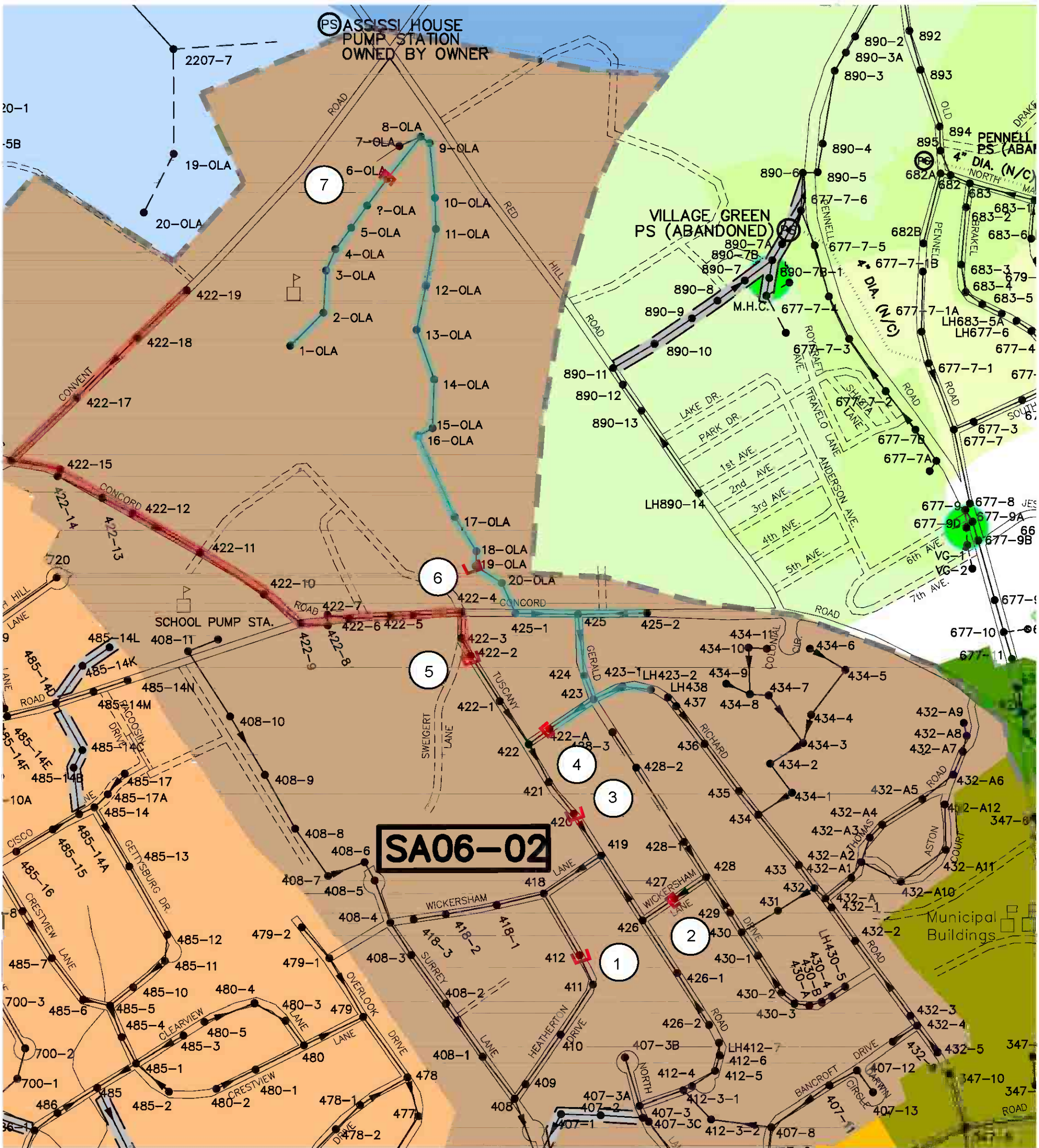
	Dry Weather (GPD)	Wet Weather (GPD)	Peak Flow Rate (GPM)	RDII (Gallons)
<b>August 18, 2017 rain event.</b> Pre- storm and sanitary sewer system separation project	2,785	17,295	709	14,510
<b>February 11, 2018 rain event</b> Post storm and sanitary sewer system separation project	6,745	5,089	8	N/A

**STANTEC CONSULTING SERVICES INC.**

Geoffrey Kolva, PE  
Civil Engineer  
Phone: (610) 840-2520  
Fax: (610) 840-2501  
Geoffrey.Kolva@stantec.com

Attachment: SA 06-02 Map, OLA-19 hydrographs (03-2017 to 04-2018), Plan of Utilities Relocation for the Property of The Sisters of St. Francis dated July 25, 2017

# SEWERSHED SA06-02 METER LOCATION MAP

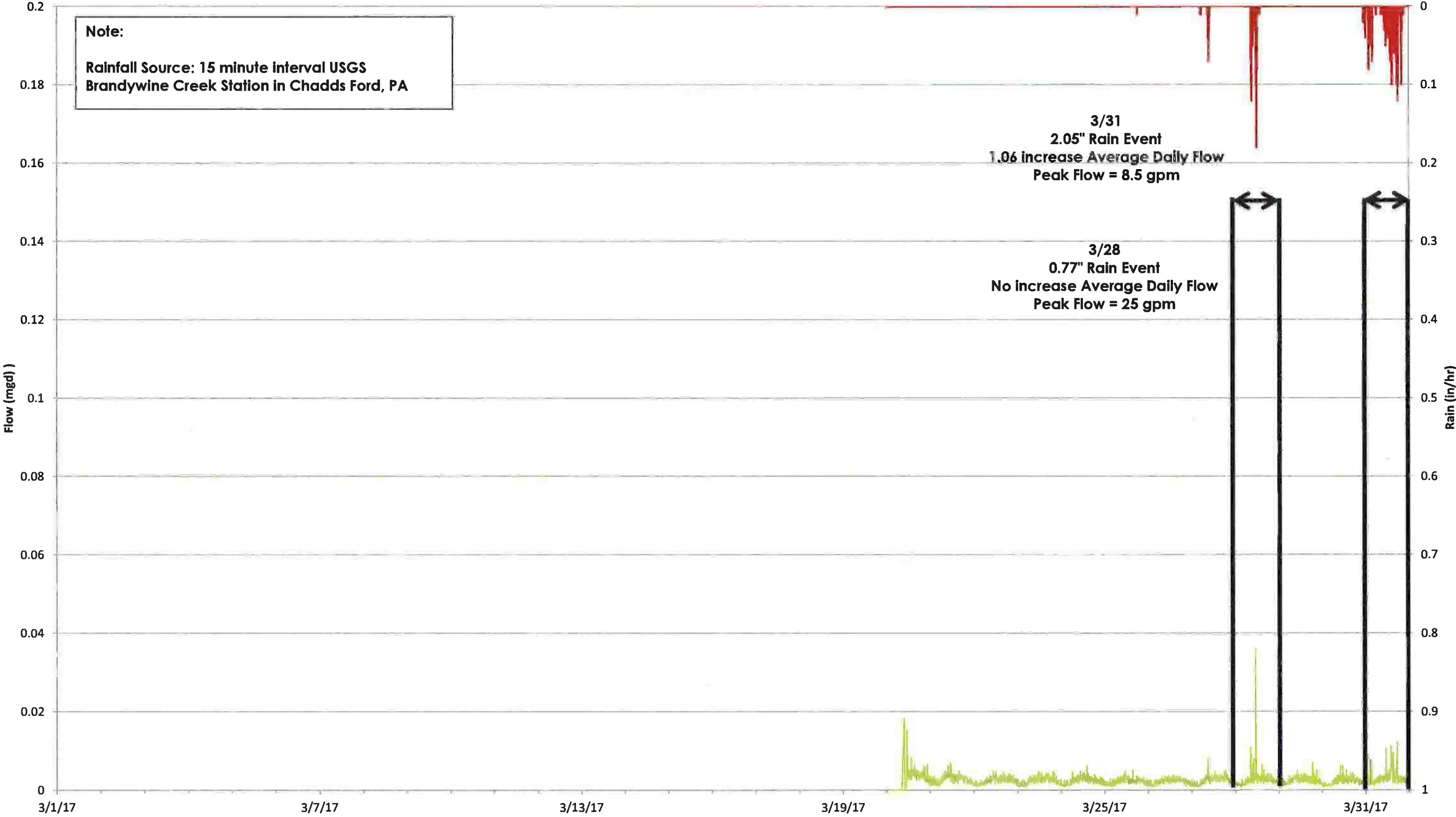


- 1 - Regional Meter installed at MH 412 on 9/21/15. RDII observed.
- 2 - Micrometer installed at MH 427 on 9/18/15, removed 12/9/2015. Low quantity of RDII observed.
- 3- Micrometer installed at MH 420 on 9/18/15, removed 12/9/2015. High quantity of RDII observed on multiple storms including Pipe Surcharge.
- 4- Micrometer installed at MH422-A on 12/9/15, removed 4/3/2018. RDII observed on multiple storms.
- 5- Micrometer installed at MH422-2 on 12/9/15, removed on 1/25/17. Minimal RDII observed.
- 6 -Micrometer installed at OLA-19 on 3/20/1, removed 4/3/2018. RDII observed on multiple storms.
- 7- Micrometer installed at OLA-6 on 5/24/17, removed 8/28/17. No RDII observed during storms.



OLA-19 Hydrograph (8"Pipe)

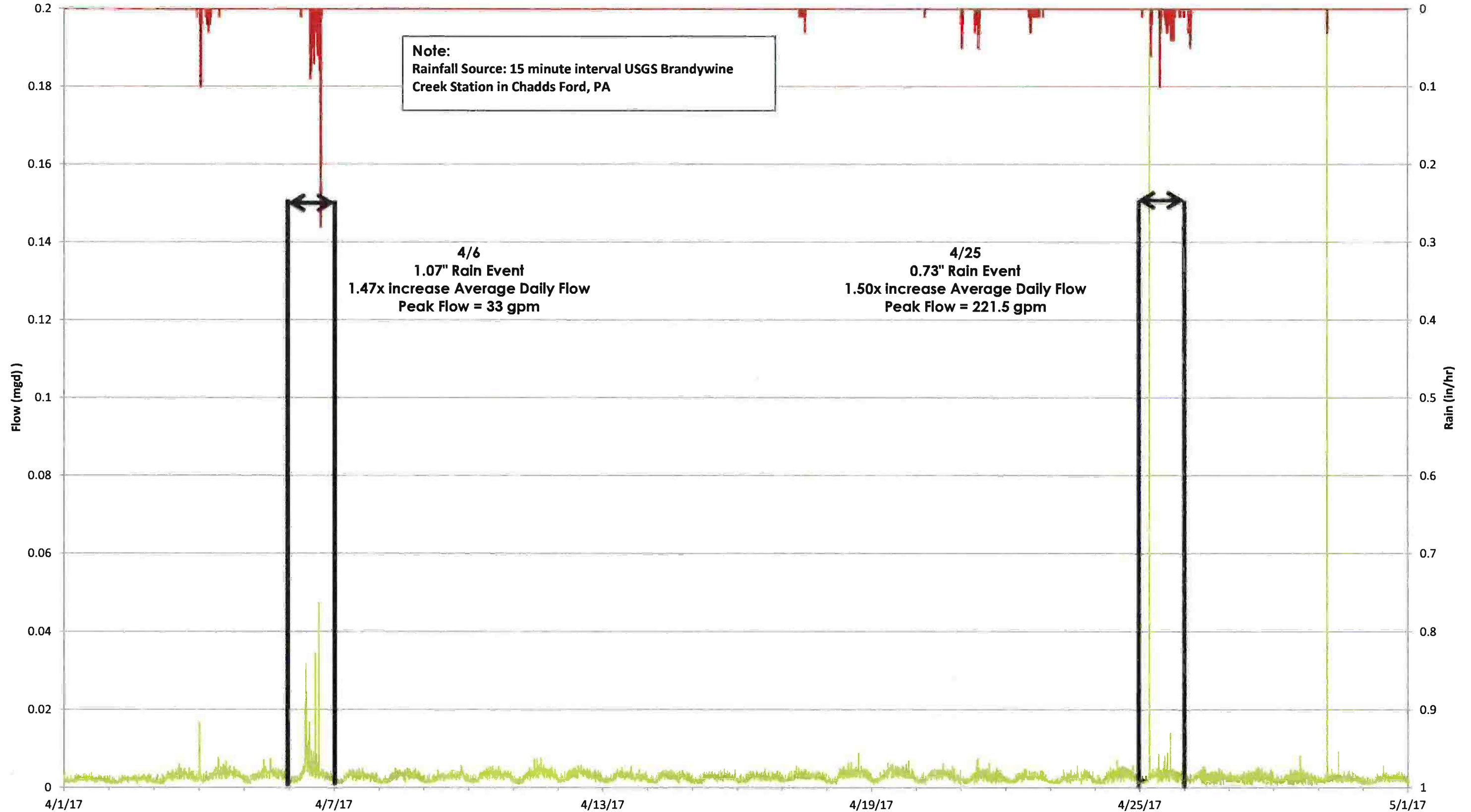
Flow Rate USGS Rain



# OLA-19 Hydrograph (8" Pipe)

Flow Rate USGS Rain

**Note:**  
Rainfall Source: 15 minute interval USGS Brandywine  
Creek Station in Chadds Ford, PA

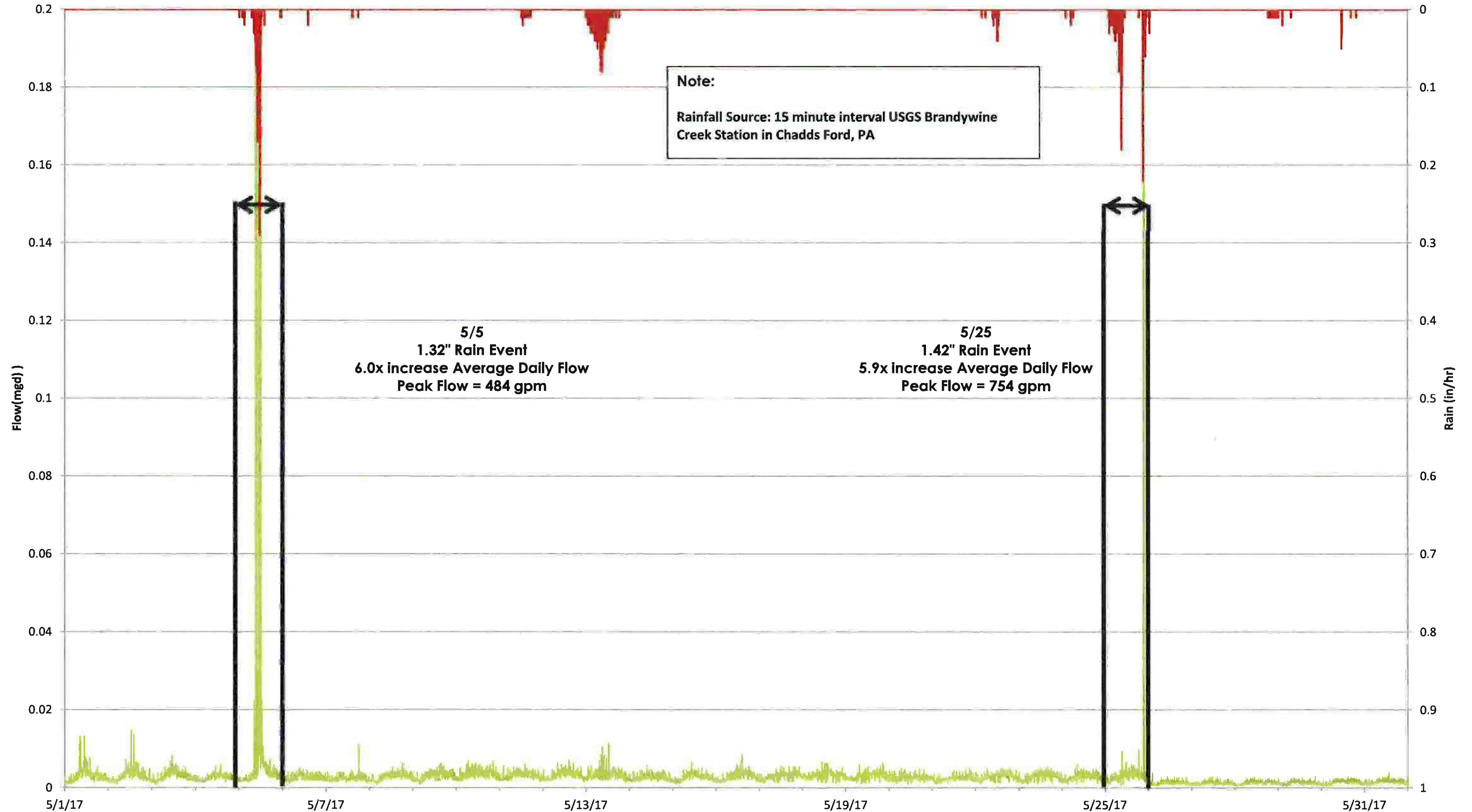


# OLA-19 Hydrograph (8"Pipe)

Flow Rate USGS Rain

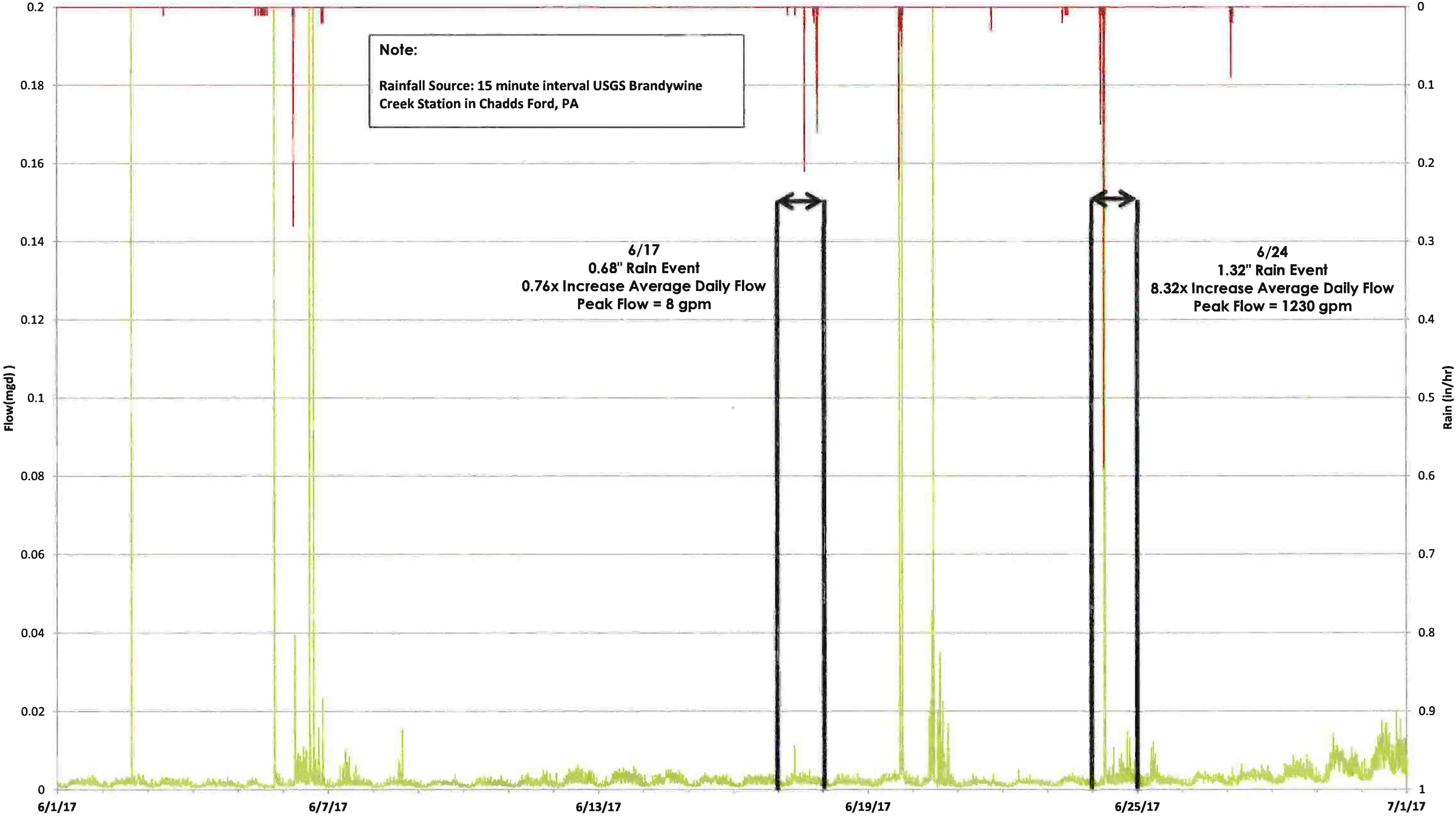
Note:

Rainfall Source: 15 minute interval USGS Brandywine  
Creek Station in Chadds Ford, PA



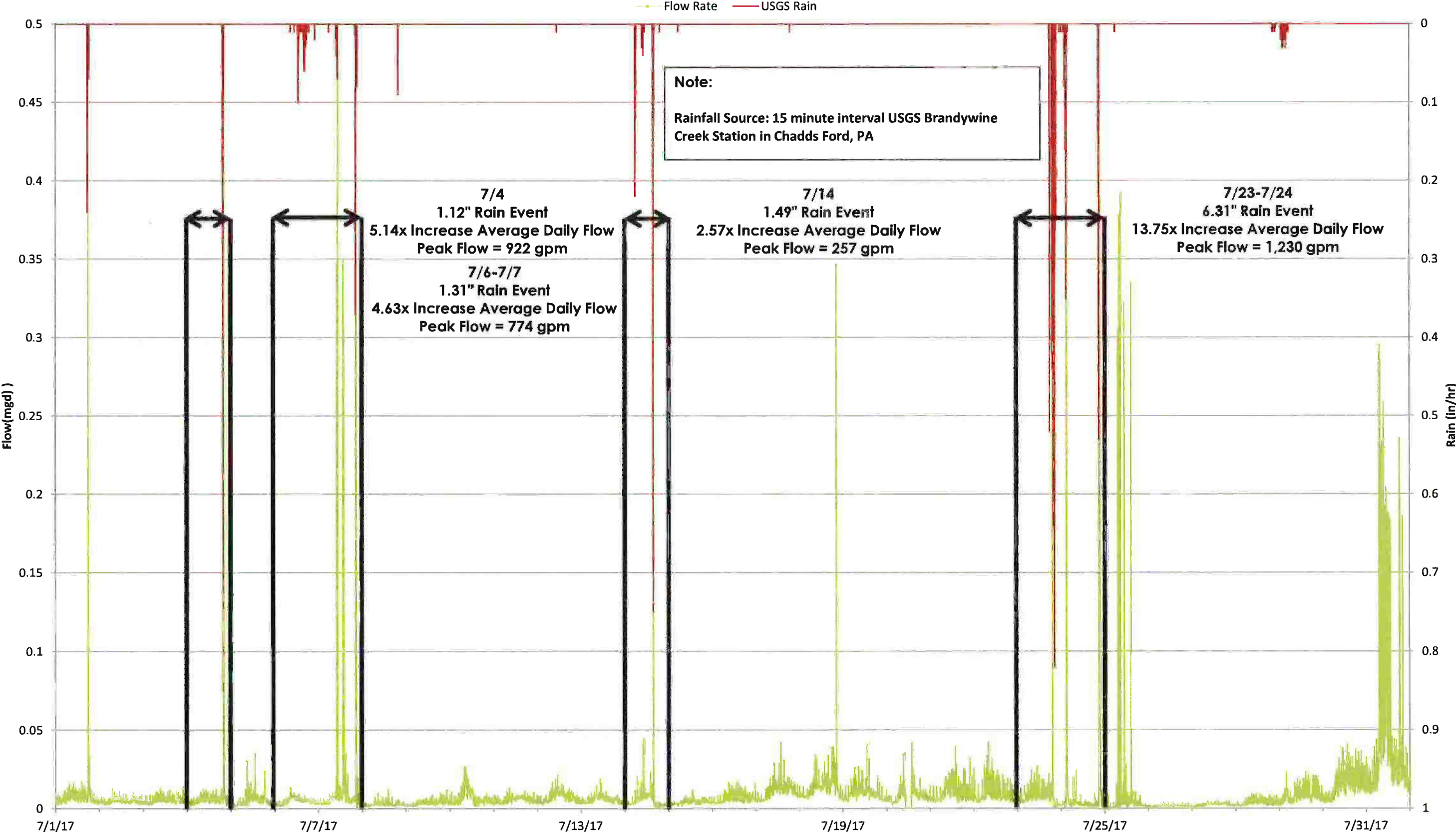
OLA-19 Hydrograph (8" Pipe)

Flow Rate USGS Rain



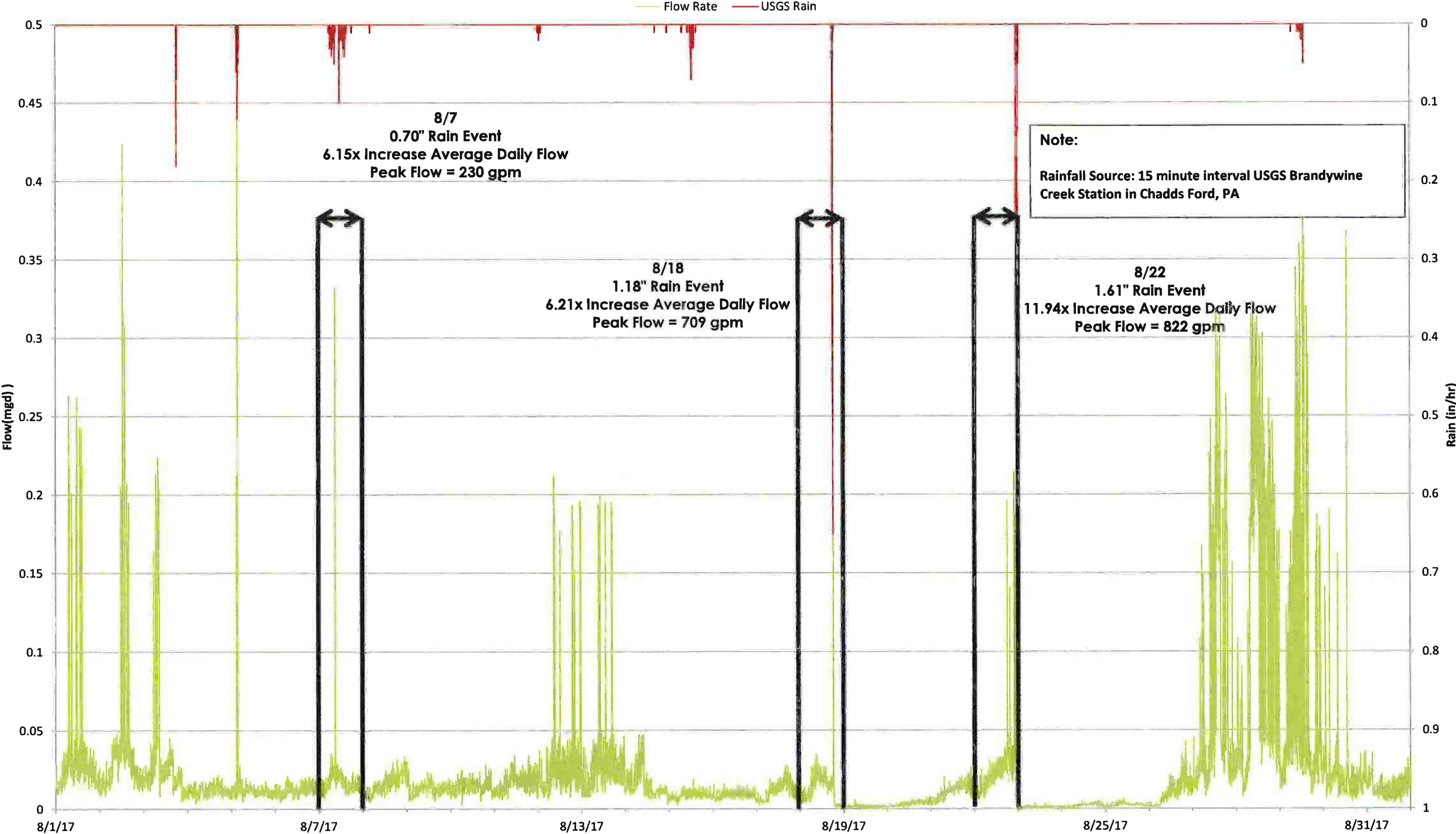


OLA-19 Hydrograph (8"Pipe)



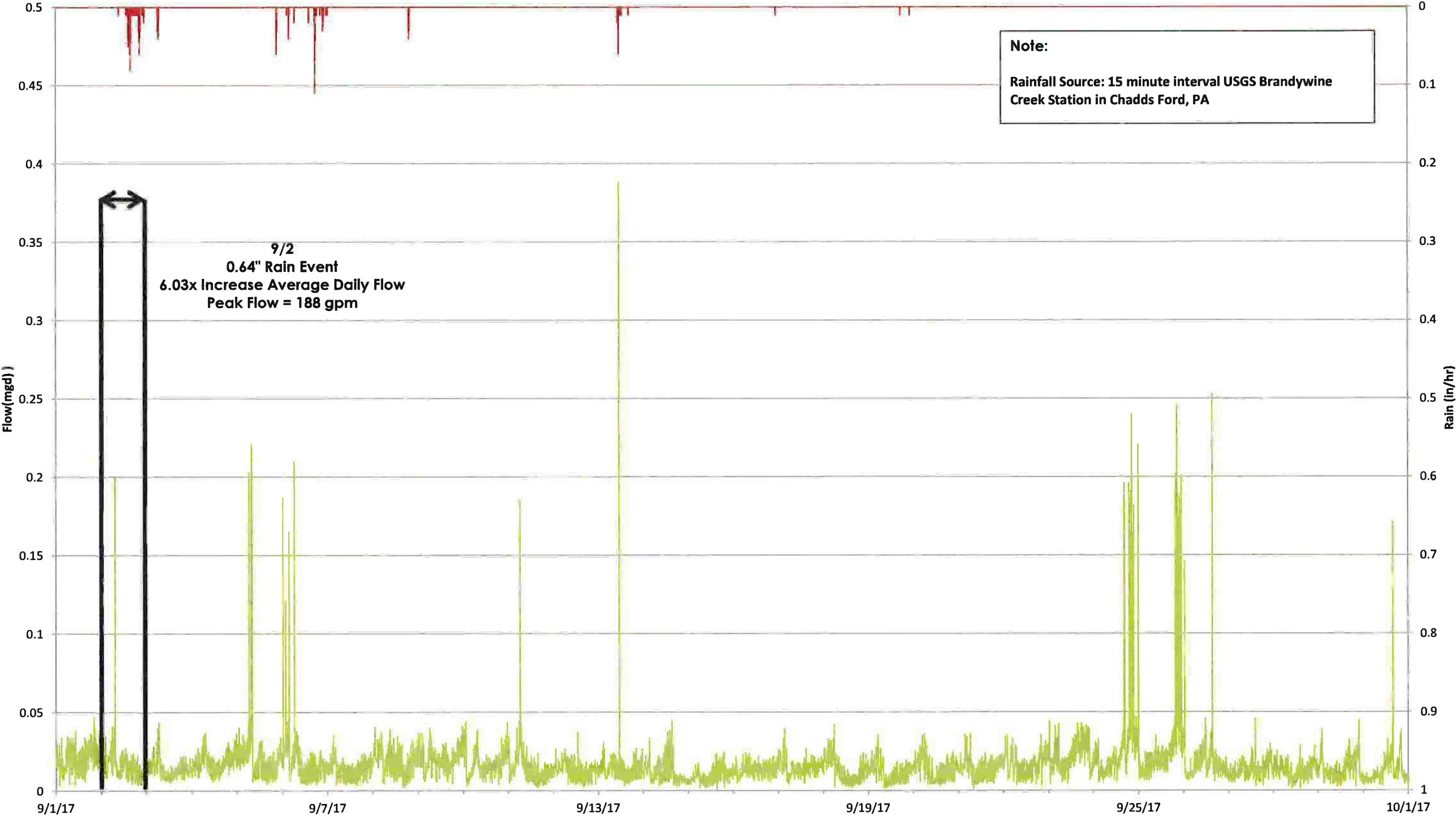


OLA-19 Hydrograph (8"Pipe)



OLA-19 Hydrograph (8"Pipe)

Flow Rate USGS Rain



OLA-19 Hydrograph (8"Pipe)

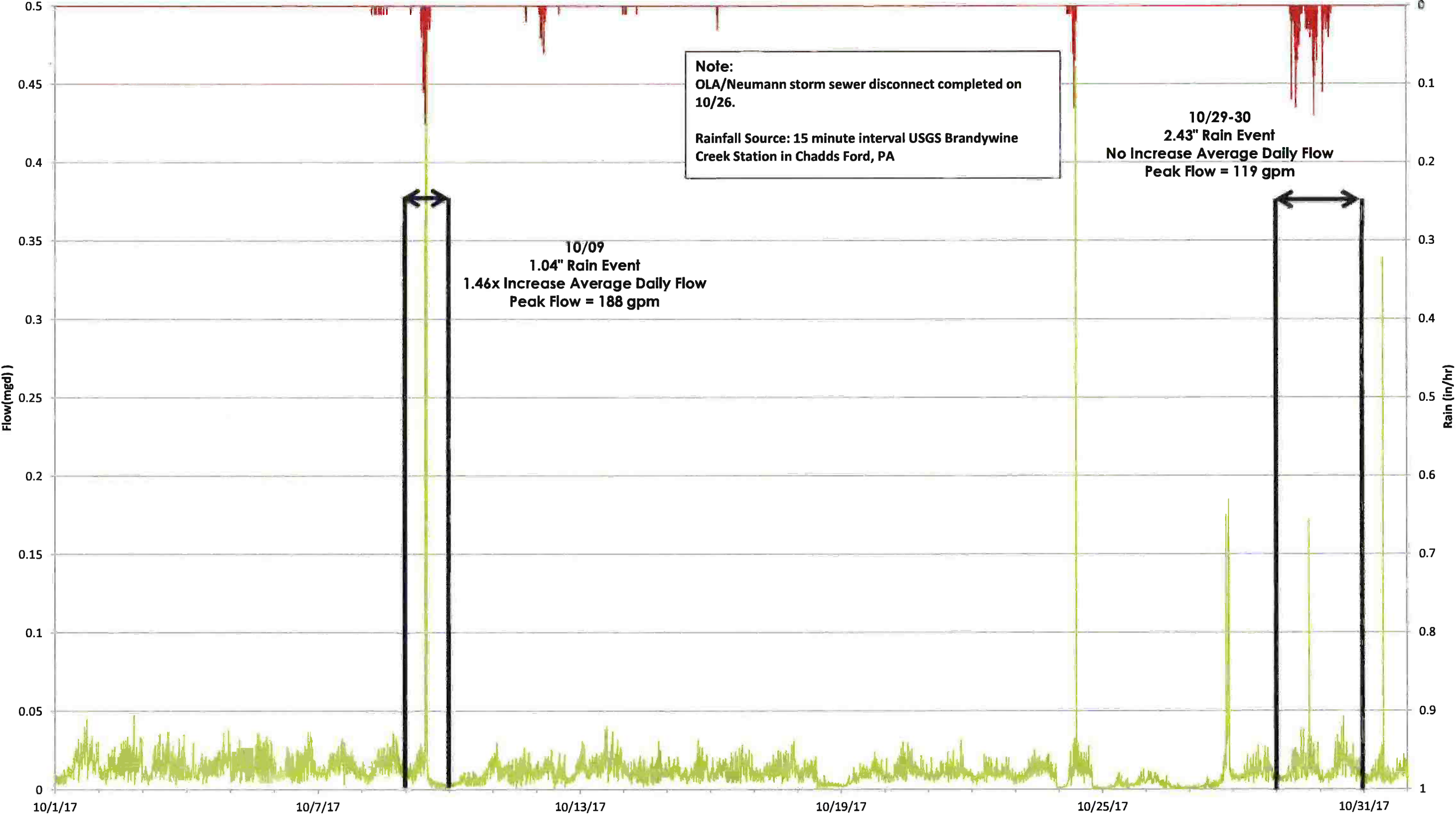
Flow Rate USGS Rain

Note:  
OLA/Neumann storm sewer disconnect completed on 10/26.

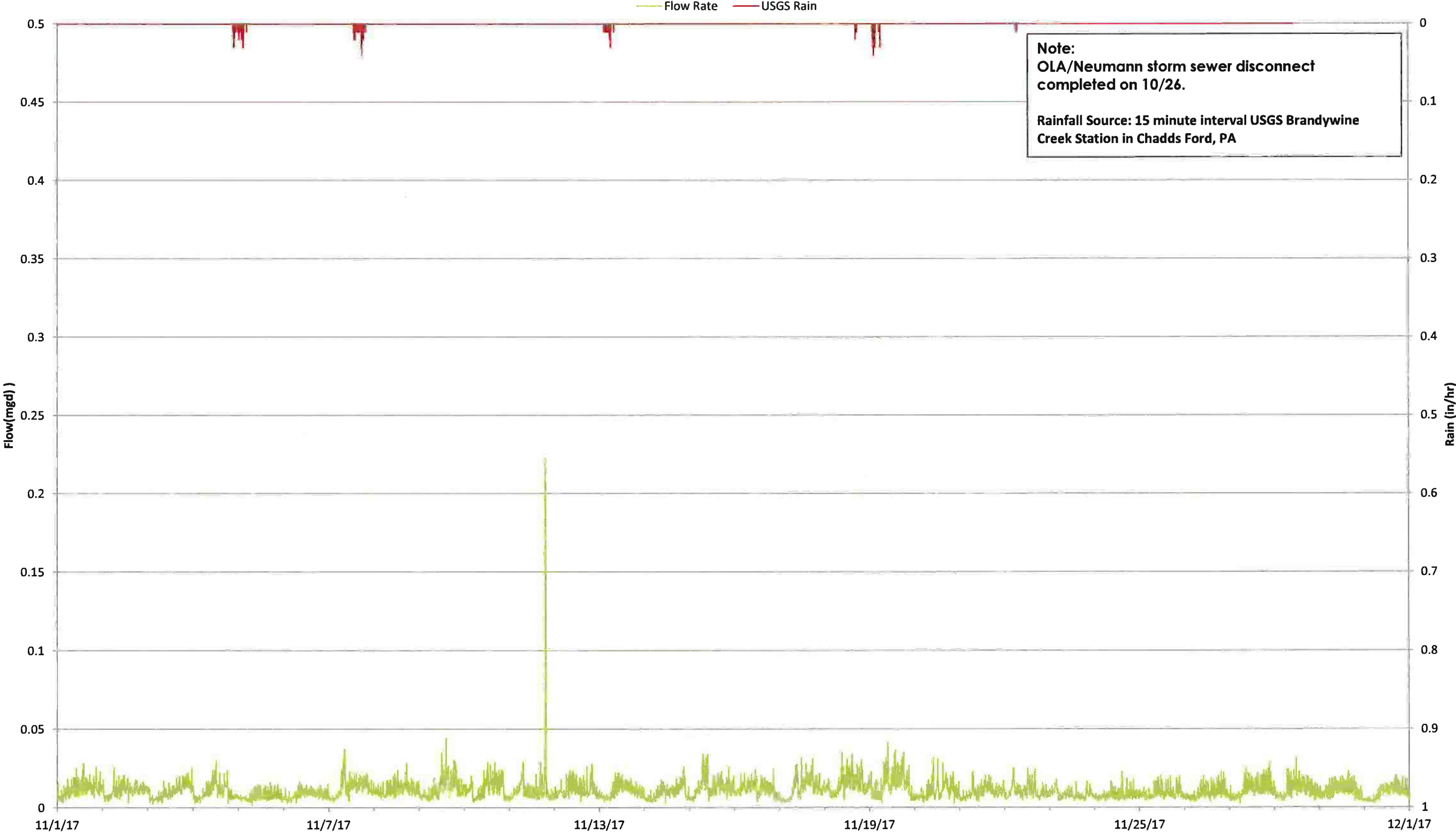
Rainfall Source: 15 minute interval USGS Brandywine Creek Station in Chadds Ford, PA

10/09  
1.04" Rain Event  
1.46x Increase Average Daily Flow  
Peak Flow = 188 gpm

10/29-30  
2.43" Rain Event  
No Increase Average Daily Flow  
Peak Flow = 119 gpm



OLA-19 Hydrograph (8"Pipe)



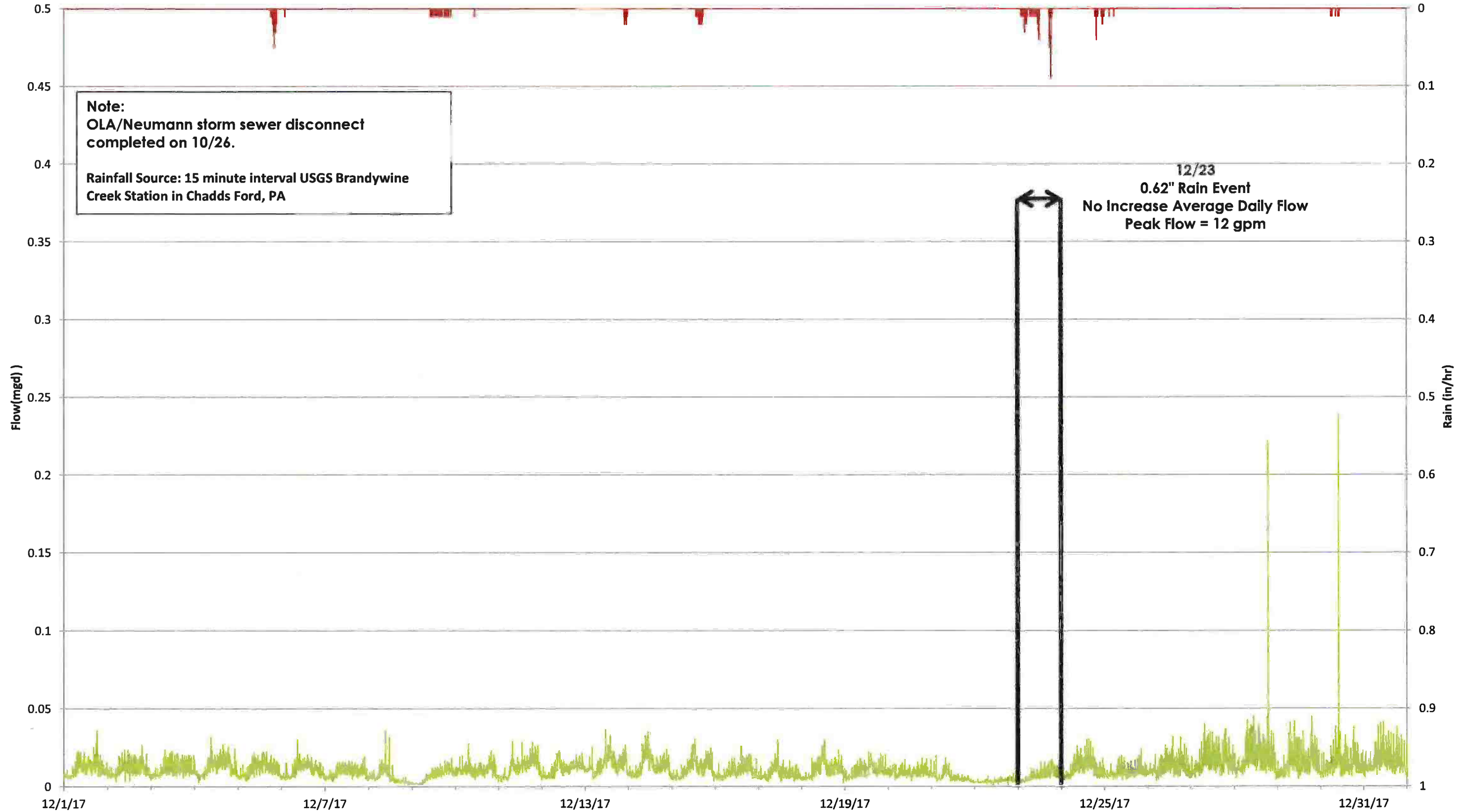
**Note:**  
OLA/Neumann storm sewer disconnect  
completed on 10/26.

Rainfall Source: 15 minute interval USGS Brandywine  
Creek Station in Chadds Ford, PA



# OLA-19 Hydrograph (8"Pipe)

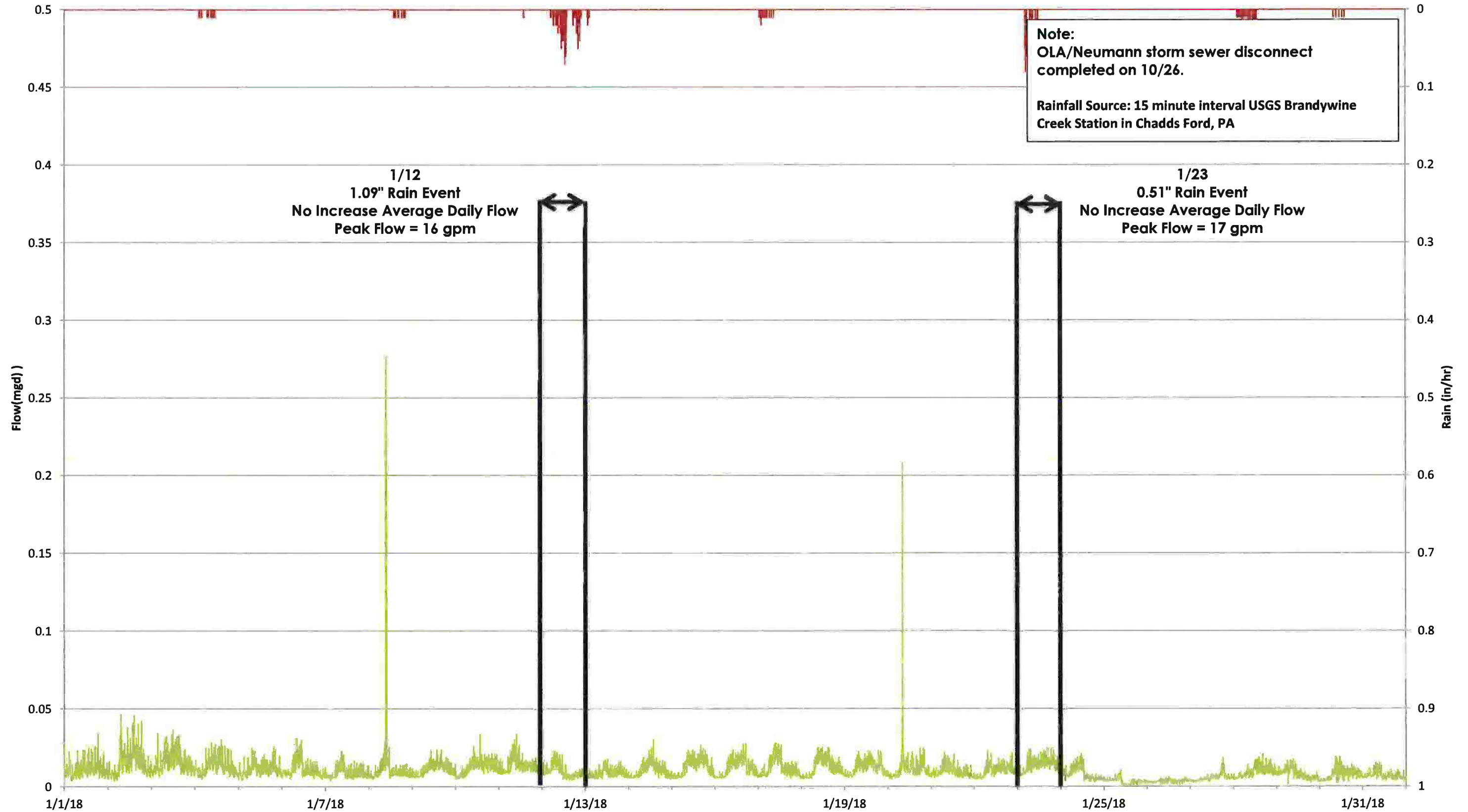
Flow Rate USGS Rain





# OLA-19 Hydrograph (8"Pipe)

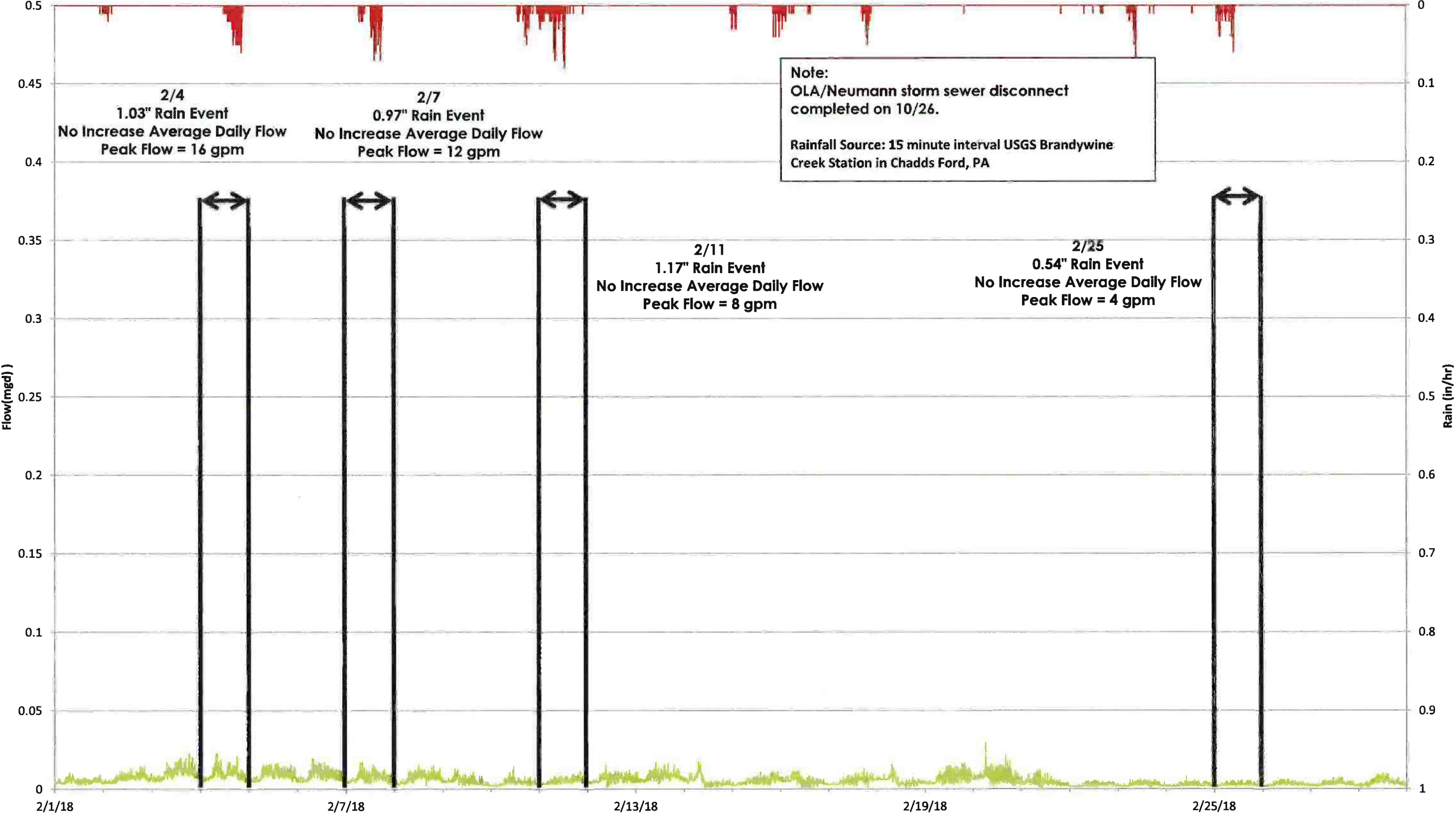
Flow Rate USGS Rain



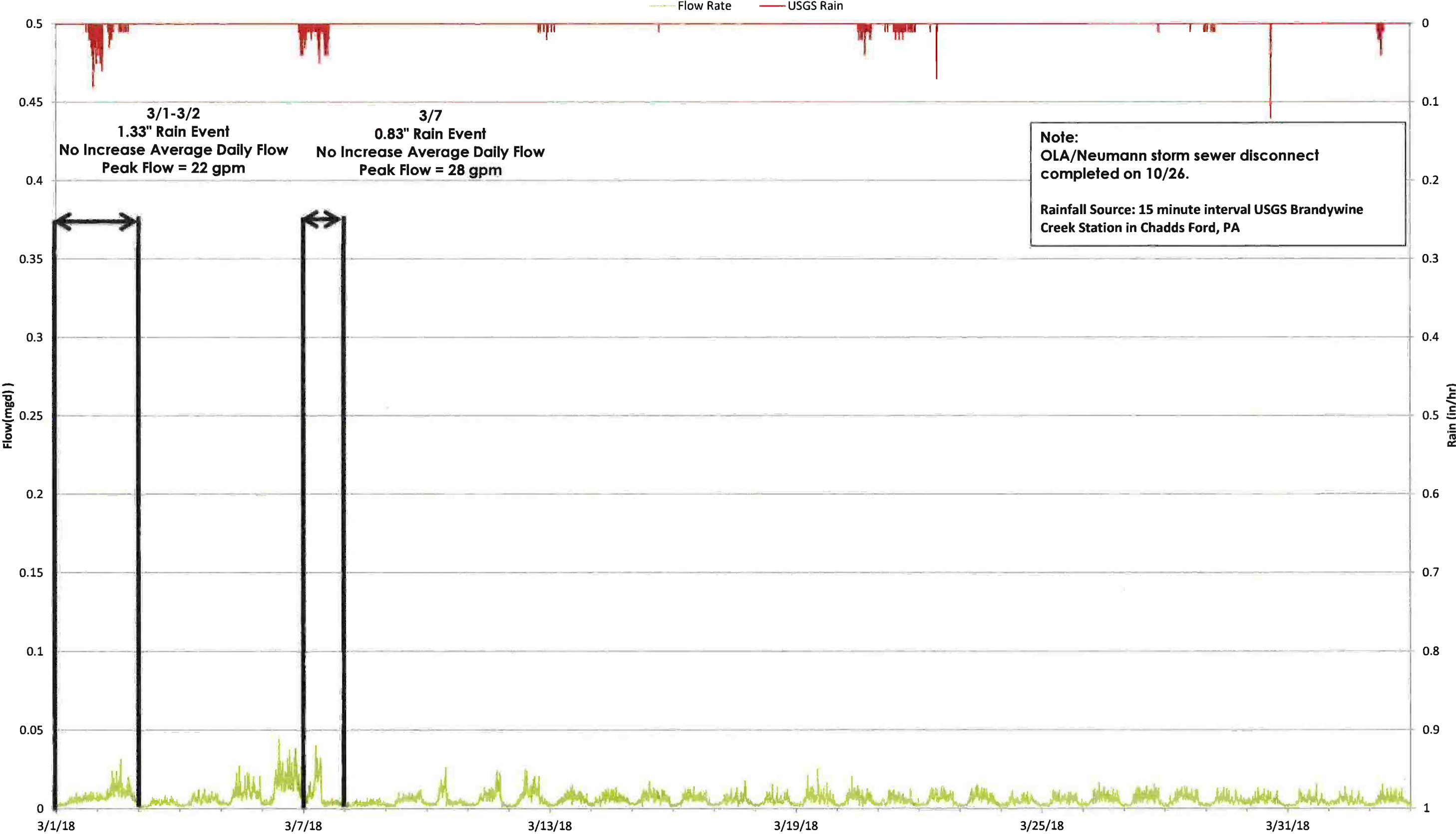
OLA-19 Hydrograph (8"Pipe)

Flow Rate USGS Rain

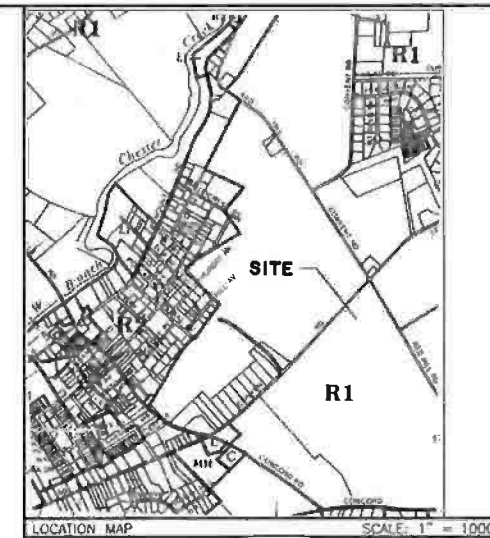
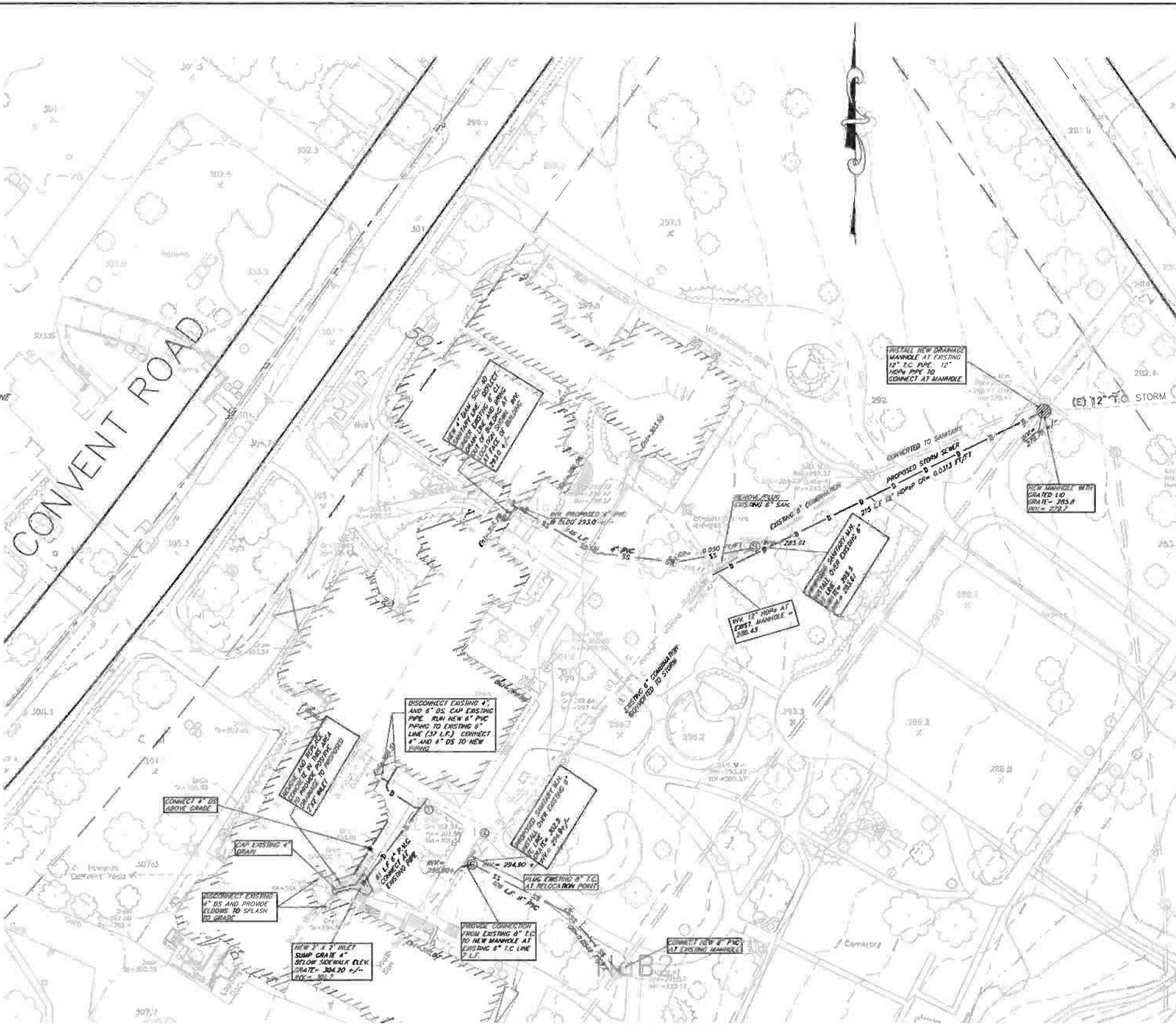
Note:  
OLA/Neumann storm sewer disconnect  
completed on 10/26.  
  
Rainfall Source: 15 minute interval USGS Brandywine  
Creek Station in Chadds Ford, PA



OLA-19 Hydrograph (8"Pipe)



- LEGEND**
- EXISTING FIRE HYDRANT
  - EXISTING UTILITY POLE
  - EXISTING WATER VALVE
  - EXISTING DECIDUOUS TREE
  - EXISTING TREELINE
  - EXISTING 2' CONTOUR
  - EXISTING 10' CONTOUR
  - SOIL BOUNDARY LINE
  - EXISTING TYPE "C" INLET
  - EXISTING SANITARY MANHOLE
  - EXISTING SANITARY SEWER
  - EXISTING WATER MAIN
  - EXISTING FENCES
  - COMBINED SEWER
  - EXISTING STORM SEWER
  - PROPOSED STORM SEWER/DRAIN LINE
  - PROPOSED SANITARY SEWER



- GENERAL NOTES**
- Owner: Sisters of St Francis  
609 S Convent Rd  
Aston, PA 19014
  - Folio Number: 02-00-00607-00 Tax Map Number: 02-13-016.00 Area: 33.882 Ac.
  - Zoning Table (ID Zoning District): 2 Acres Required by Code  
Minimum Lot Area: 200 feet at Building Line  
Minimum Lot Width: 50 feet at Street Line  
Front Yard: 50 ft  
Side Yard: 30 ft each  
Rear Yard: 50 ft  
Maximum Bldg. Height: 50 ft  
Maximum Imp. Coverage: 70%
  - There is no 100-year Flood Zone located at the property per Flood Insurance Rate Maps (FIRM), Panel Numbers 89, 177, and 181 of 250 being Map Numbers 42045CD89F, 42045CD177F and 42054CD181F respectively. Each map with an effective date of November 18, 2009
  - Boundary from field survey by G.D. Houtman & Son, Inc. Contours and locations from aerial Mapping by Axis Geospatial, LLC, 8600 Brooks Drive Easton, Md. 21601, (410)822-1444. Contours based on a U.S.G.S. datum. Date of Mapping 02/05/07.
  - Benchmark is Storm Inlet Grotte at Convent Road just South of Dogwood Lane, El. = 270.76

- Utility Notes:**
- This plan has been prepared in order to separate combined (storm and sanitary sewage) flow within existing pipe networks at the Sisters of St. Francis Convent.
  - Re-routing of piping network within the existing building shall be scheduled with the Owner prior to execution. Terrazzo flooring removed for the re-routing of the pipe network as indicated shall be replaced in-kind. Coordinate with owner for the selection of the replacement Terrazzo tile prior to installation.
  - Supply interior clean-outs where indicated. Clean-outs to be J.R. Smith Manufacturing Co. with bronze-nickel finish or approved equivalent.
  - Contractor to verify existing storm sewer pipe size between locations 1 and 2 as identified on the plan. Replace pipe at this location with 6" SDR 35 PVC if existing pipe size is less than 6" diam.
  - Storm and sanitary pipe trenches to be backfilled to grade at the location of existing sidewalk. Replacement of damaged/removed sidewalk resulting from the proposed utility relocation work to be performed by the Sisters of St. Francis.
  - Pipe trenches to be backfilled and brought to grade with a minimum of 8" of topsoil in existing grass areas. Trench areas located in existing grass areas to be seeded and mulched immediately following final grading.
  - PVC pipe to be Schedule 35 unless otherwise noted.

GRAPHIC SCALE

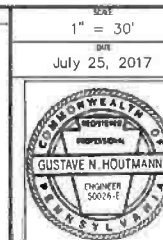


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Note: All locations of existing utilities shown on the plan have been developed from existing utility records and / or above ground examination of the site. Completeness or accuracy of locations and depth of underground utilities or structures cannot be guaranteed. Contractor must verify location and depth of all underground utilities and facilities before start of work, as per PA Act 181 as per the latest amendment of PA Act 207 of 1974, Effective April 29, 2007

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PLAN OF UTILITIES RELOCATION  
FOR PROPERTY OF  
**THE SISTERS OF ST. FRANCIS**  
ASTON TOWNSHIP  
DELAWARE COUNTY, PA

G.D. HOUTMAN & SON, INC.  
CIVIL ENGINEERS-LAND SURVEYORS  
LAND PLANNERS

Sheet 1 of 2  
PROJECT: St Francis-Storm  
DATE: 1604  
177277

130 EAST BAYVIEW PARK  
(610)565-6343  
MEDIA, PA 19063

## **APPENDIX F**

### **2018 REPAIRS PRIORITY LIST**



Southwest Delaware County Municipal Authority

Project #: 174840200

Subject : Priority List for Collection System Repairs as per CAP

Requirements - Contract Progress



CAP Priority Sewer Sheds

1st SA02  
4th SA03

2nd SA05  
5th SA04

3rd SA06  
6th SA01

Prepared By: Santosh S G

Checked By: JMG

Date: 1/22/2018

	Date Inspected	Location/ Street	Sewer Shed	Interc eptor	U/S MH	D/S MH	Distance Surveyed (ft)	Sewer Size (Inch)	Sewer Pipe Material	U/S MH Depth	D/S MH Depth	MH Mtrl	# of Repairs	Comments	NASSCO Defect Coding	Analysis	Repair Priority	Cap Priority	Type of Repair	Recommendations for Repair/Rehab
1	3/9/2016	Brakel Lane	SA02-01	CCI	683-3	-	-	-	-	7'4"	-	BRK	1	Leaking MH683-3	MH-ID	I&I	P1	1-1	MH	Grout MH
2	4/25/2016	Old Pennell Rd	SA02-01	CCI	894	893	285.8	8	PVC	6'8"	10'0"	PC	2	Leaking MH894 and MH893	MH-IR	I&I	P1	1-1	MH	2 Grout MH
3	8/23/2016	Pennell Rd	SA02-02	CCI	890-2	890-1	240	8	PVC	4'5"	5'0"	PC	2	Sag 216'-229.4'; Leaking MH 890-1	MWLS; MH-IR	NR, I&I	P1	1-1	MH, S	Grout MH
4	10/26/2016	Valley Green Dr	SA02-03A	CCI	644	643	189.8	8	VCP	9'0"	8'9"	BRK	2	Leaking Pipe @MH644; Sags 9.8'-189.8'	CM-IR; MWLS	I&I, NR	P1	1-1	MH, S	2ft Grout MH
5	3/24/2016	N Manor Drive	SA02-01	CCI	683	682	159.5	8	VCP	5'6"	7'0"	BRK	3	Cracked Pipe @11.3', 50.9'-72.0', 144.9'	CM-IW	R, RDII	P1	1-1	S	2-3ft CIPP + 21ft Slip Line
6	3/25/2016	Kevin Ln	SA02-01	CCI	683-6	683-1	200.4	8	VCP	10'0"	10'3"	BRK	1	Leaking Cracked Pipe @178.1'	CC-ID	I&I	P1	1-1	S	1-3ft CIPP
7	7/26/2016	Mildred Ln	SA02-05B	CCI	567	566	176.8	8	VCP	7'8"	BURIED	BRK	2	Heavy Roots in Jts	JS-RBB-IW	I&I, NR	P1	1-1	S	1-3ft CIPP
8	8/26/2016	N Manor Drive	SA02-02	CCI	669	668-A	269.0	8	VCP	12'1"	12'0"	BRK	1	Leaking & Broken Pipe @57.5' from MH669	BSV-ID	I&I	P1	1-1	S	1-3ft CIPP
9	9/20/2016	Pennell Rd	SA02-02	CCI	677-9C	677-9B	165.5	8	VCP	7'6"	BURIED	BRK	5	Leaking Cracked Pipe Jts @1.6', 100.5', 109.3', 118.6', 161.4'	CM-JS-ID	I&I	P1	1-1	S	5-3ft CIPP
10	9/20/2016	Pennell Rd	SA02-02	CCI	677-9	677-8	48	8	VCP	3'0"	6'2"	BRK	1	Cracked Pipe Jt 30.5'	CM-JS-ID	I&I	P1	1-1	S	1-3ft CIPP
11	9/22/2016	Brakel Lane ROW	SA02-02	CCI	664-3	664-2	128	8	VCP	6'2"	BURIED	BRK	1	Infiltration-dripper @110.2'	ID	I&I	P1	1-1	S	1-3ft CIPP
12	9/23/2016	Pennell Manor ROW	SA02-02	CCI	660	659	250.0	8	VCP	5'10"	BURIED	BRK	3	Broken Pipe Soil Visible @1.9', 246.9'; Leaking Cap Lateral @246.9'	FM-BSV; TFC-ID	R, I&I	P1	1-1	S	3-3ft CIPP
13	9/23/2016	Pennell Manor ROW	SA02-02	CCI	661	660	159.0	8	VCP	6'8"	5'10"	BRK	3	Broken Pipe @94.5', 97.9'; I&I Runner 93.7'	FM-BSV-IR	I&I	P1	1-1	S	3-3ft CIPP
14	9/23/2016	Pennell Manor ROW	SA02-02	CCI	663	662	116.1	8	VCP	9'9"	5'0"	BRK	4	Broken Pipe 2.0' (Gusher); 6' Pipe MH662 Broken/Dropped, Holding water; Roots at Jt 55.4'; Intruding Seals 98.8'	BVV-IG; BVV-XP; JS-RMB; ISSRB-ID	I&I	P1	1-1	MH, S	3-3ft CIPP
15	9/23/2016	Pennell Manor ROW	SA02-02	CCI	662	661	201	8	VCP	5'0"	5'10"	BRK	4	Broken Pipe (Runner) 125'; Cracks & Roots at Jts 56.9', 73.1', 100.9'	BVV-IR; JS-CM-RMB-ID	I&I	P1	1-1	S	4-3ft CIPP
16	9/27/2016	Village Dr. ROW	SA02-04	CCI	614-1	614	278.0	8	VCP	8'2"	8'5"	BRK	11	Sags 13'-19', 42'-51', 76'-86', 123'-142', 157'-162', 210'-217',	MWLS; CM-FM; JS-	NR, I&I	P1	1-1	S	4-3ft CIPP
17	10/19/2016	Old Pennell Rd	SA02-02	CCI	677-7	677-8	337.5	8	VCP	8'1"	7'7"	PC/BRK	12	Sags 1'-15.5', 15.5'-21.4', 91.7'-99.8', 120.9'-133.0', 151.1'-175', 283'-289', 310'-320'; Roots @51.6', 64.7', 81.3'; Multiple Fractures 179.6', 185.3'	MWLS; JS-RMB-ID; CM-FM-IW	NR, I&I, R	P1	1-1	S	5-3ft CIPP
18	10/19/2016	S Manor Dr	SA02-02	CCI	677-3	677-2	249.2	8	VCP	9'4"	7'1"	BRK	8	Jt Offset 3.0'; Jt Separated 93.4'; Cracked Pipe @123.3', 131.3', 194.5', 198.7'; Hole in Pipe 238.5'; Multiple Cracks 194'-249'	JO-IW; JS-IW; CM-ID; HSV-IW; MC-FM-ID	I&I	P1	1-1	S	8-3ft CIPP
19	10/19/2016	S Manor Dr	SA02-02	CCI	677-2	677-1	127.9	8	VCP	7'1"	7'2"	BRK	20+	Multiple cracks from 1.0'-127.9'	CM-FM-XP-ID	I&I	P1	1-1	S	Slip Line
20	10/19/2016	Brakel Lane	SA02-02	CCI	677	664-7	294.5	8	VCP	8'5"	?	BRK	20+	Multiple Cracks from 5.0'-13.5', 34.0'-283.2'	CM-FM-XP-ID	I&I	P1	1-1	S	Slip Line
21	10/25/2016	Allen Dale Rd	SA02-03A	CCI	653	652	191.0	8	VCP	6'2"	6'7"	BRK	3	25' Cracked Pipe @MH653, 10' Cracked Pipe@29', 145' Cracked Pipe@55'	CM/CL-FC	RDII	P1	1-1	MH, S	Slip line
22	9/27/2016	Knowlton Rd	SA02-02	CCI	658-1	658	285.2	8	VCP	6'5"	8'8"	BRK	36	10 Cracked/Fractured Pipe; 16 Failed Jts w/ Roots; 10' of Broken Pipe 170'-180'	CM-FM-XP; JS-RMB-ID; XP	I&I	P1	1-1	S	Slip Line
23	9/27/2016	Knowlton Rd	SA02-02	CCI	658-2	658-1	359.0	8	VCP	6'7"	6'5"	BRK	28	16 Roots @ Jts; 12 Cracks/Fractures/Broken Pipes	JS-RMB-ID; CM-FM-;	I&I	P1	1-1	S	Slip Line
24	9/27/2016	Knowlton Rd	SA02-02	CCI	658-3	658-2	284.6	8	VCP	6'6"	6'7"	BRK	30	19 Cracks/Fractures; 8 Jts Failures/Roots; 3 Jt offsets	CM-FM-XP; JS-RMB-XP-ID; JO-ID	I&I	P1	1-1	S	Slip Line

	Date Inspected	Location/ Street	Sewer Shed	Interc eptor	U/S MH	D/S MH	Distance Surveyed (ft)	Sewer Size (Inch)	Sewer Pipe Material	U/S MH Depth	D/S MH Depth	MH Mtrl	# of Repairs	Comments	NASSCO Defect Coding	Analysis	Repair Priority	Cap Priority	Type of Repair	Recommendations for Repair/Rehab
25	9/27/2016	Knowlton Rd	SA02-02	CCI	658-3	LH658-4	151.4	8	VCP	6'6"	BURIED	BRK	10	Roots @ Jts 4.2',7.9', 19.0', 55.0', 64.7', 151.4'; Cracks 29.4',70.5', 134.2', 150.9'	JS-RMB-ID; CM-FM	I&I	P1	1-1	S	Slip Line
26	9/28/2016	Knowlton Rd	SA02-02	CCI	658	657	309.0	8	VCP	8'8"	7'8"	BRK	8	Cracks 2.0'-162.6'; I&I Gusher 56.1'; Roots Jt 207'; Intruding seals @224', 244', 280'; Sag 88.7'-105.1'	CM-FM-IG; JS-RMB-IW; ISSRB-IW; MWLS	I&I, NR	P1	1-1	S	Slip Line
Total Distance Surveyed =							5,456.2													
									Reinforced Plastic Trussed Pipe	RPTP						Repairable	R			
									Vitrified Clay Pipe	VCP						Non Repairable	NR			
									Terracotta Pipe	TC						Dry Weather Inflow	I&I			
																Wet Weather Flow	RDII			

# Southwest Delaware County Municipal Authority

Project #: 174840200

Subject : **2017-18 Priority List for Collection System Repairs as per CAP Requirements - Contract Progress**



Prepared By: GKK

Checked By: JMG

Date: 2/21/2019

	Description	Unit	Contract	Actual		
				Scope within Original Contract	Change Order	Total
			Qty	Qty	Qty	Qty
	Manhole ¾ inch Cementitious lining spray applied and preparation grouting including labor, materials, traffic control, site restoration, sewage bypass pumping as described in Section 00800 - Scope of Work. Work includes grouting leaks in manhole.	Vertical Foot (VF)	38	38	8	46
	Trenchless Rehabilitation of 8inch diameter Sewer sections in selected 3 ft. sections of the pipe as shown on project drawings and as described in Section 00800 – Scope of Work, complete in place including but not limited to labor, materials, traffic control, site restoration, sewage bypass pumping.	Each 3ft sections (EA)	23	4		4
	Trenchless Rehabilitation of 8inch diameter Sewer sections in selected 3 ft. sections of the pipe as shown on project drawings and as described in Section 00800 – Scope of Work, complete in place including but not limited to labor, materials, <b>NO traffic control needed</b> , site restoration, sewage bypass pumping.	Each 3ft sections (EA)	18	18	14	32
	Trenchless Rehabilitation of 8inch diameter Sewer sections as shown on project drawings and as described in Section 00800 – Scope of Work, complete in place including but not limited to <b>18</b> lateral connection cut outs, labor, materials, traffic control, site restoration, sewage bypass pumping.	Linear Foot (LF)	2,084	2,084	72	2,156
	Chemical grout material required for repairing failures in existing brick manholes prior to rehabilitation with cementitious liner system	GAL	200	105		105
	Reconnection of laterals to 8inch diameter sewer mains encountered in the scope of trenchless rehabilitation, complete in place including labor, materials, sewage bypass pumping and safe traffic control. Provide unit price for lateral cut outs for unidentified locations within areas scoped in Items 2 & 3 above.	Each (EA)	1	4		4
	Trenchless Rehabilitation of 8inch diameter Sewer sections in selected sections of the pipe that are greater than 3ft, as discovered in Prevideos, complete in place including but not limited to labor, materials, traffic control, site restoration, sewage bypass pumping.	Linear Foot (LF)			59	59

**APPENDIX G**  
**2018 SANITARY SEWER OVERFLOW**  
**REPORTS**

# **SOUTHWEST DELAWARE COUNTY MUNICIPAL AUTHORITY**

Project No.: 174840200  
Project : Corrective Action Plan 2018  
Subject : **Sanitary Sewer Overflows**

Prepared By: GKK  
Checked By: JMG  
Date: 2/20/2019  
Revised:



Date	SSO Location	Weather	Cause of SSO	Result of SSO
1/10/2018	Brookhaven Road	Dry	Grease Blockage	Sewage flowed into tributary of Chester Creek
1/22/2018	644 Lampost Lane	Dry	Solids Blockage	Sewage flowed from homeowner vent to storm sewer
2/27/2018	Woodbrook PS	Wet	Equipment Failure	Gray Water flowed into Marcus Hook Creek
6/19/2018	Marianville Road	Dry	Solids Blockage	Sewage flowed into storm sewer
7/30/2018	Archer Lane Easement	Dry	Solids Blockage	Sewage flowed into tributary of Chester Creek
11/26/2018	Woodbrook PS	Wet	Excessive Flow	Gray Water flowed into Marcus Hook Creek



Please check the appropriate box

☒ Dry Weather Overflow☐ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	January 10, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	January 9, 2018			
		Location (Street & #):	Bridgewater & Brookhaven Rds.			
		Municipality:	Chester Township			
		County:	Delaware			
4	How was SSO discovered? By Whom	Brookhaven Borough Road Department				
5	Start and end time of SSO (actual or estimate?)	Start:	Before 10 AM on 1/9/2018			
		End:	11:30 AM			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	January 9, 2018			
		Time:	4:18pm			
		Name:	Andrew Brzezicki			
7	Description and actual or estimated volume of SSO	We do not know how long it was overflowing or at what rate it was leaving the manhole.				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc.) Please include creek name or street location.	The SSO entered a small stream next to the manhole that feeds into Chester Creek.				
9	What caused SSO?	Heavy Grease in the line				
	How was it stopped?	High pressure water from a sewer cleaner				
10	Describe extent of contamination and how it was cleaned up	The extent of the contamination was minimal. Most of the sewage entered the stream and a small area around the manhole was cleaned up with water from the sewer cleaner, then lime was put down.				
11	What actions will be taken to prevent a re-occurrence?	This has not been a problem area in the past. We will monitor the site and schedule a cleaning in one year to confirm that everything is ok.				
	When?	Will clean January 2019				
12	Other Comments?					
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	N/A				

Please check the appropriate box

☒ Dry Weather Overflow☐ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	January 22, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	January 20, 2018			
		Location (Street & #):	644 Lampost Lane			
		Municipality:	Aston			
		County:	Delaware			
4	How was SSO discovered? By Whom	Homeowner contacted us				
5	Start and end time of SSO (actual or estimate?)	Start:	Homeowner stated they noticed it the night before			
		End:	11:25am			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	January 20, 2018			
		Time:	12:16 PM			
		Name:	Andrew Brzezicki			
7	Description and actual or estimated volume of SSO	The actual volume of sewage overflowed is unknown. We do not know when it started or the rate it was overflowing.				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	The SSO ran out of the homeowners vent into the street and discharged into a storm sewer inlet roughly 600 yards away at Lampost and Cobblestone.				
9	What caused SSO?	Blockage in sewer main caused the SSO				
	How was it stopped?	Cleared blockage with high pressure sewer cleaner				
10	Describe extent of contamination and how it was cleaned up	Water from the sewer jet was used to clean street and storm water inlet.				
11	What actions will be taken to prevent a re-occurrence?	This line will be put on our annual maintenance list for cleaning.				
	When?	Jan-19				
12	Other Comments?					
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	N/C				

Please check the appropriate box

☐ Dry Weather Overflow☒ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	February 27, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	February 24, 2018			
		Location (Street & #):	Story Lane & Jefferson Ave			
		Municipality:	Twin Oaks			
		County:	Delaware			
4	How was SSO discovered? By Whom	Pump Station high level alarm called KBX Golden's Tech Mike Wallover				
5	Start and end time of SSO (actual or estimate?)	Start:	12:00PM			
		End:	12:10PM			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	February 24, 2018			
		Time:	12:55PM (Rex Miller)			
		Name:	Michael Wallover			
7	Description and actual or estimated volume of SSO	The SSO entered a storm swale out side of station. Can not determine what the estimated volume was because we do not know how long or at what rate it was leaving the station.				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	The SSO entered a storm swale out side of station that discharges into Marcus Hook Creek about 30 yards down stream.				
9	What caused SSO?	Bubbler tube seperated in wet well No.1.				
	How was it stopped?	Isolated the line and ran off bubbler tubes No.2 & 3.				
10	Describe extent of contamination and how it was cleaned up	The extent of the contamination was limited to the storm swale and sewage may have entered Marcus Hook Creek. Small amount of solids were raked-up.				
11	What actions will be taken to prevent a re-occurrence?	The bubbler tube was repaired and put back in service.				
	When?	2/26/2018				
12	Other Comments?					
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	Fish and Boat				

Please check the appropriate box

☒ Dry Weather Overflow☐ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	June 19, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	June 15, 2018			
		Location (Street & #):	Intersection of Marianville and Pennell Rds.			
		Municipality:	Aston			
		County:	Delaware			
4	How was SSO discovered? By Whom	Aston Police contacted us				
5	Start and end time of SSO (actual or estimate?)	Start:	Some time before 10AM on 6/15/2018			
		End:	Blockage cleared at 11:15AM			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	June 19, 2018			
		Time:	11:05AM			
		Name:	John Wayne McCaw			
7	Description and actual or estimated volume of SSO	Estimate; less than 50 gallons puddled in the intersection				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	The initial sso puddled in the intersection. During the clearing of the blockage a sewer vent on Marianville overflowed and ran into a storm drain further down the street. The storm drain discharge point is unknown. There are no known streams in the area.				
9	What caused SSO?	Rags and paper caused the SSO				
	How was it stopped?	Cleared blockage with high pressure sewer cleaner				
10	Describe extent of contamination and how it was cleaned up	The extent of contamination was an area around manhole at intersection of Marianville and Pennell Rds. And from a sewer vent to a storm water inlet on Marianville Rd. High pressure water from sewer cleaner was used to hose down street and storm water inlet.				
11	What actions will be taken to prevent a re-occurrence?	The line was not a problem line in the past. We will monitor it and re-clean it under maintenance in one year.				
	When?	Schedule for cleaning in one year				
12	Other Comments?					
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	N/A				

Please check the appropriate box

☒ Dry Weather Overflow☐ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	July 30, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	July 27, 2018			
		Location (Street & #):	Archer Lane Sewer Easement			
		Municipality:	Aston			
		County:	Delaware			
4	How was SSO discovered? By Whom	KBX Golden, LLC was performing maintenace within the easement and found the SSO.				
5	Start and end time of SSO (actual or estimate?)	Start:	Unknown			
		End:	7/27/2018 @ 3:45 PM			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	July 27, 2018			
		Time:	1:05 PM			
		Name:	William Marchionne			
7	Description and actual or estimated volume of SSO	We do not know how long the SSO was running or at what rate it was coming out of the ground.				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	The SSO came up out of the ground and ran 150ft into a small tributary that discharged 220ft from spill into Chester Creek.				
9	What caused SSO?	A blockage in the sewer main caused the SSO				
	How was it stopped?	High pressure water from a sewer cleaner was used to clear the blockage				
10	Describe extent of contamination and how it was cleaned up	The sewer cleaner was used to clean the cloudy water in the easement. The water flowing down the stream carried the sewage to Chester Creek.				
11	What actions will be taken to prevent a re-occurrence?	We have scheduled to have this line Tved to determined what the problem is with the sewer main.				
	When?	Weather permitting this should happen the week of July 30th				
12	Other Comments?	Fish and Boat was notified of the SSO.				
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	N/A				

Please check the appropriate box

☐ Dry Weather Overflow☒ Wet Weather Overflows

1	Date, Name, Phone # of person completing this report	Date:	November 26, 2018			
		Name:	Frederick G. Tasker			
		Phone #:	610-494-1335 ext.16			
2	Your organization name and address?	Name:	Southwest Delaware County Municipal Authority			
		County:	Delaware	Address:	P.O. Box 2466	
		Township/Municipality:	Aston/SWDCMA	Aston, Pa. 19014		
	Sewer system owner and permit number	Southwest Delaware County Municipal Authority Client ID 61921				
3	Date found and <u>specific</u> location of SSO. Including Municipality/ County (If different from #2)	Date:	November 24, 2018			
		Location (Street & #):	Jefferson Ave. & Story Ln.			
		Municipality:	Aston			
		County:	Delaware			
4	How was SSO discovered? By Whom	Tracy Gorman responded to a high level alarm				
5	Start and end time of SSO (actual or estimate?)	Start:	8:55PM			
		End:	9:03PM			
6	Date, time and name of person who called PADEP originally to notify of SSO	Date:	November 24, 2018			
		Time:	11:00PM			
		Name:	Bill Marchionne			
7	Description and actual or estimated volume of SSO	There is no way to estimate the amount of flow that discharged from the wet well. We received a High Level Alarm at 8:55PM and the SSO was over at 9:03PM; but we don't know how soon after the HLA it started overflowing or at what rate it was leaving the well.				
8	Where, <u>precisely</u> , did SSO go? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	The SSO discharged into a storm water channel about 30 yards up stream of Marcus Hook Creek.				
9	What caused SSO?	Heavy rains caused the SSO				
	How was it stopped?	The standby pump was put in hand to run with the storm and lag pumps.				
10	Describe extent of contamination and how it was cleaned up	The heavy rains and storm water run off removed any evidence of contamination from the SSO's discharge point to the creek.				
11	What actions will be taken to prevent a re-occurrence?	The Flow-Matcher service rep will be in later this week to look into removing a safety lockout switch that causes the standby pump not to run when the storm and lag pumps are running.				
	When?	By November 30, 2018				
12	Other Comments?					
13	Downstream notifications made: (All downstream users such as public water supplies must be notified)	N/A				



# **APPENDIX H**

## **2018 SWDCMA PUMP STATIONS DATA**

## **SOUTHWEST DELAWARE COUNTY MUNICIPAL AUTHORITY**

Project #: 174840200

Subject : **Chapter 94 Report for Year 2018**



Prepared By: GKK

Checked By: JMG

Date: 2/26/2019

### **SWDCMA PUMP STATION CAPACITY DATA FOR 2018**

Pump Station Name	Number of Pumps	Permitted Capacities		Present Flows			Peaking Factor	Projected Flows	
		AA Permitted Capacity	Hydraulic Design Capacity	Annual Average Flows		Peak Instantaneous (Peak Hourly)		2-Year Annual Average Flow	2-Year Maximum Flow
		GPD	GPM	GPD	GPM	GPM		GPD	GPD
Woodbrook PS	2	4,000,000	2,778	762,093	529	855	1.6	689,178	1,112,754
Eagle PS	2	887,000	616	237,177	165	259	1.6	217,039	341,036
Team Road PS	2	720,000	500	82,254	57	78	1.4	82,254	111,744
Toby Farms PS	2	2,736,000	1,900	Not Recorded					
Brookefield PS	2	27,163	19	2,672	2	3	1.7	10,000	16,619

Woodbrook and Team Road PS have Flowmeters installed on their Force Mains to record the flows.

Flows from Eagle PS is estimated calcs based on total run time of pumps multiplied by their design capacity.

The design and age of the Toby Farm PS does not provide a practical method to estimate its flows.

Brookefield PS is a new pump station serving a new residential subdivision and surrounding area. The Pump Station was put into service in March 2018.

Flows are projected to increase as additional houses are developed.

Flows projected for 2 years for the adequacy of the Collection System.

## SOUTHWEST DELAWARE COUNTY MUNICIPAL AUTHORITY

Project #: 174840200

Subject : Chapter 94 Report for Year 2018



Prepared By: GKK

Checked By: JMG

Date: 2/26/2019

### SWDCMA RECORDED PUMP STATION FLOWS FOR 2018

MONTH	Woodbrook PS		Eagle PS		Team Road		Brookefield	
	Average Flow GPD	Peak Flow GPD	Average Flow GPD	Peak Flow GPD	Average Flow GPD	Peak Flow GPD	Average Flow GPD	Peak Flow GPD
JAN	561,494	1,280,200	198,392	347,424	58,468	88,830		
FEB	718,482	1,103,100	242,748	391,776	68,929	102,900		
MAR	892,732	1,410,400	259,197	365,904	86,445	108,500	1,889	3,000
APR	795,880	1,120,600	246,523	413,952	84,050	140,800	2,200	5,000
MAY	796,645	1,085,300	234,756	328,944	84,835	105,900	2,548	4,000
JUN	703,427	1,291,600	223,115	340,032	85,220	117,500	2,500	5,000
JUL	635,248	996,700	186,350	258,720	76,690	98,100	2,271	3,200
AUG	661,368	960,000	207,334	317,856	76,961	91,900	2,355	3,900
SEP	742,250	1,504,000	246,154	447,216	81,497	105,600	2,963	4,200
OCT	728,716	1,192,900	230,225	362,208	80,723	100,300	2,977	4,400
NOV	924,971	1,352,600	279,704	447,216	95,229	128,800	3,345	5,500
DEC	983,900	1,468,400	291,626	450,912	108,003	151,800	3,668	6,200
Annual Average	762,093		237,177		82,254		2,672	
Average Peak		1,230,483		372,680		111,744		4,440
Minimum	561,494		186,350		58,468		1,889	
Maximum	983,900	1,504,000	291,626	450,912	108,003	151,800	3,668	6,200
2017 AA Flows	616,263		196,900		69,730		N/A	

2018 PS Annual Average Vs Annual Peak Flows

