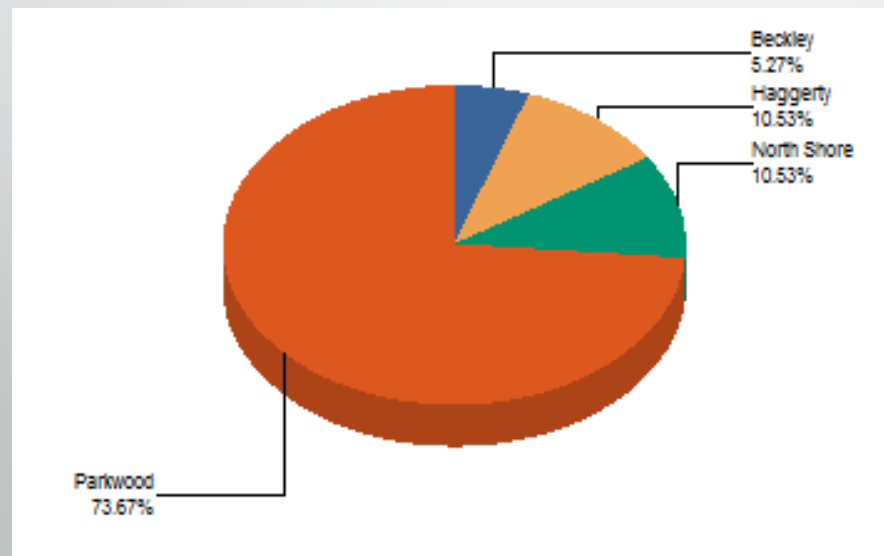
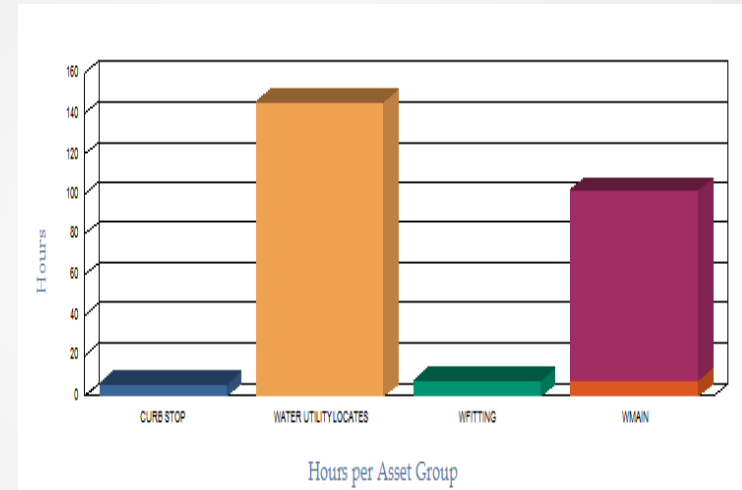
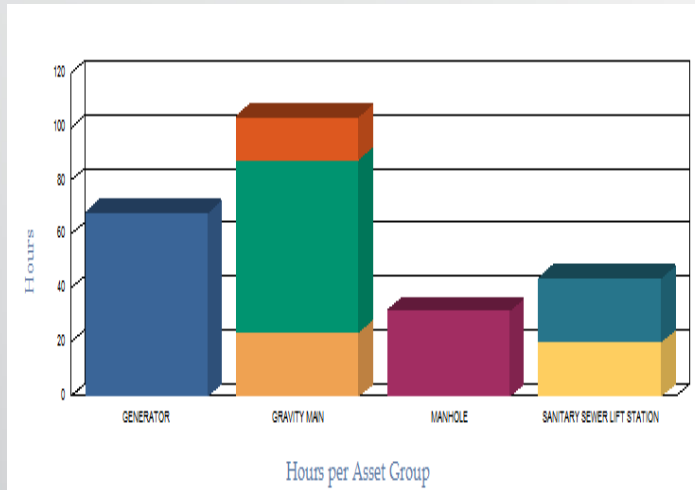


# **WATER & SEWER COMMISSION**

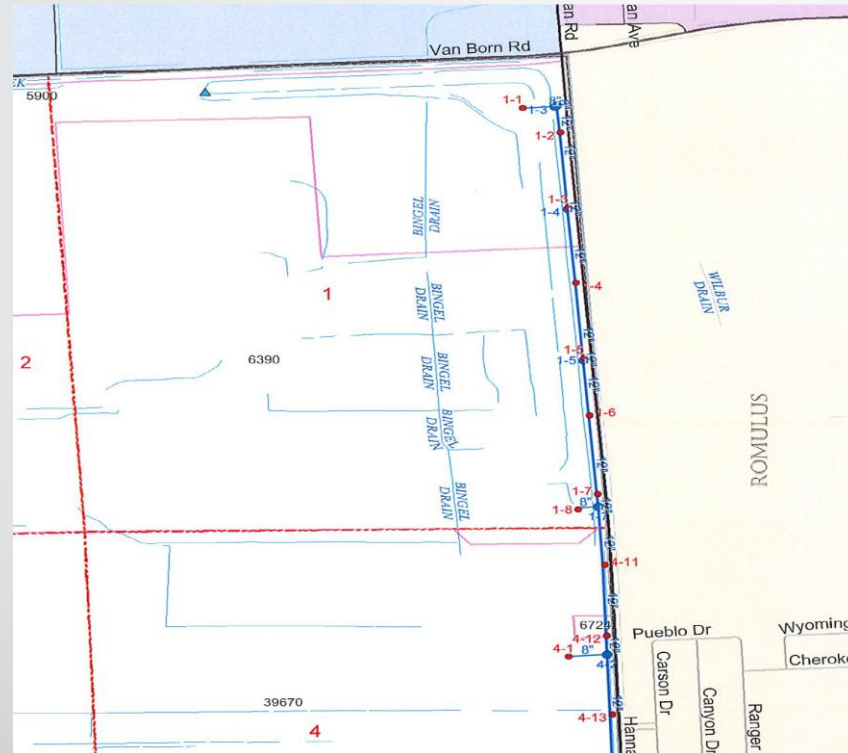
## **March 26, 2019**

# JANUARY - MARCH OPERATIONS REPORT



# WATER MAIN BREAK REPORT

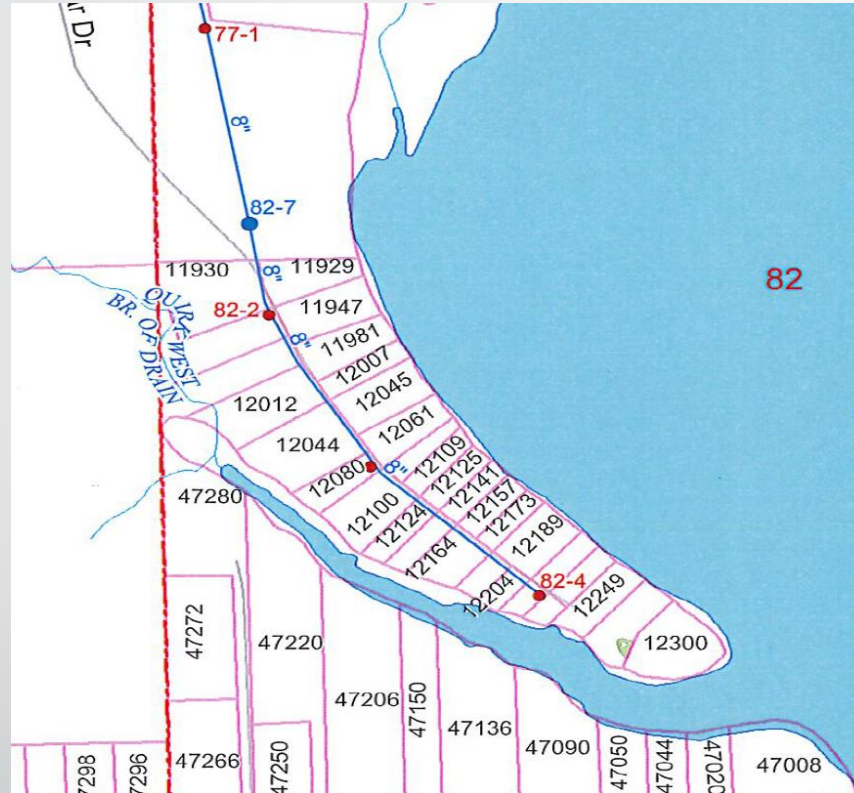
## 6390 HANNAN



- 12" Ductile Iron Pipe – installed 1993 (26 years old)
- Second break in six years
- Severe pitting identified on pipe exterior – not poly-wrapped upon installation
- **Total Repair Cost: \$1,958.64**

# WATER MAIN BREAK REPORT

## 12044 Ryznar



- 8" Asbestos Cement Pipe – installed 1967 (52 years old)
- No break history
- Contractor assistance required
- **Total Repair Cost: \$5,855.24**

- 8" Ductile Iron Pipe – installed 1993 (26 years old)
- 3 breaks occurred during event
- Contractor assistance required (light pole removed to complete repair)
- **Total Repair Cost: \$14,311.45**

# ADMINISTRATIVE REPORT

## GLWA Update

- On February 27, 2019 The GLWA Board of Directors ***postponed*** a vote on the recommended 4.2% rate increase for Van Buren Township to take effect July 1, 2019. This is lower than the 5.0% rate increase we had anticipated from GLWA. They are taking up the question at the March 27<sup>th</sup> meeting.

## SHVUA Update

- Based on the lookback calculations recently completed, Van Buren Township will receive a check for \$80,241.00. This is to reimburse the Township for overpayment for FY2018.(see documents included in packet.)

# ADMINISTRATIVE REPORT

## **DUWA Update**

- Veolia's sludge hauler, Custom Ecology, received notice from Brent Run landfill on January 18, 2019 that they need to reduce DUWA's loads from 4 to 1 load per day (see notice included in packet). This restriction significantly affects DUWA's ability to dispose of solids at historical costs. The solids will be disposed of at Woodland Meadows, but at a premium cost. The potential cost impact to DUWA is an additional \$100,000.00 per month. Veolia, OHM and the DUWA Technical Committee are working on cost effective, short and long term solutions for biosolids disposal.

## **RVSDS Update**

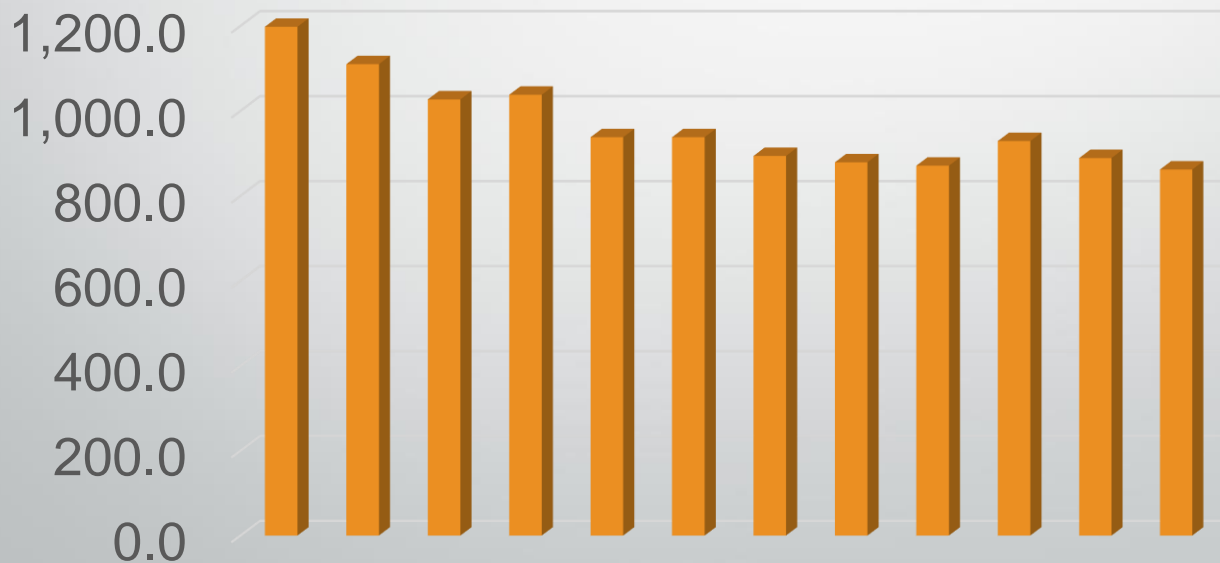
- The communities of the Rouge Valley Sanitary Disposal System have decided to end discussions of forming an authority until answers from Wayne County are provided for a number of questions of concern. (see letter included in packet)



# ADMINISTRATIVE REPORT

## VBT ANNUAL PUMPAGE TOTALS 2007-2018

The 2.36 MGD is the lowest daily averages during the past 11 years.





# SAW Sanitary Asset Management Project - Update

Van Buren Sewer  
Business Risk Exposure Summary  
Updated: 3/27/19

Pipe is > 30 years old  
info populated based on GIS

Current Year: 2019  
Inflation Rate: 3%

No.	Asset Name	Asset Class	Pipe Material	Pipe Diameter	Pipe Length	TV's Length	Year Installed	Age	Useful Life				Theoretical Year to be Replaced	Replacement Cost	MACIPACAP		Probability of Failure (POF)				Consequence of Failure (COF)				Business Risk Exposure	
									Theoretical Useful Life	Remaining Useful Life	%	%			Structural Rating	Physical Condition Rating	Effective Remaining Life Score	Weighted Overall POF	Diameter Score	Physical Location Score	Service Area Location Score	Overall COF	Televised BNE	Not Televised BNE		
224	200001011	Pipe	Reinforced Concrete	21	395.2	390.0	1972	47	85	38	45%	2017	\$ 149,008.07	4.2	3.5	3.8	3	3.4	4	3	5	1.9	12.39	-		
527	200008092	Pipe	Reinforced Concrete	10	400.4	392.0	1972	47	85	38	45%	2017	\$ 194,006.16	4.2	2.8	3.5	3	3.4	2	3	5	1.4	14.16	-		
528	200008008	Pipe	Reinforced Concrete	10	366.5	362.0	1972	47	85	38	45%	2017	\$ 95,390.02	3.8	3.5	3.6	3	3.4	2	3	5	1.3	14.86	-		
529	200008009	Pipe	Reinforced Concrete	10	368.6	352.0	1972	47	85	38	45%	2017	\$ 95,847.42	3.6	2.8	3.2	3	3.2	2	3	5	1.2	12.85	-		
551	200008003	Pipe	Clay	8	256.8	255.0	1960	54	50	0	0%	2015	\$ 66,794.88	1.0	-	-	5	3.4	1	3	6	3.09	16.00	-		
1121	200006007	Pipe	Reinforced Concrete	30	396.6	380.0	1960	50	85	35	41%	2014	\$ 180,457.08	4.2	3.5	3.8	3	3.4	6	3	5	1.9	10.13	-		
1132	200006030	Pipe	Reinforced Concrete	30	209.4	196.0	1960	50	85	35	41%	2014	\$ 95,271.16	4.2	2.7	3.4	3	3.4	6	3	5	1.4	11.61	-		
1154	200006044	Pipe	Reinforced Concrete	30	402.0	392.0	1960	50	85	35	41%	2014	\$ 181,903.18	4.2	3.3	3.8	3	3.4	6	3	5	1.9	12.60	-		
1245	200008005	Pipe	Reinforced Concrete	12	349.9	348.0	1960	54	85	31	36%	2010	\$ 90,574.62	2.5	4.3	3.4	3	3.4	2	3	5	3.05	13.80	-		
1405	200007005	Pipe	Clay	10	178.5	174.0	1975	44	50	6	12%	2025	\$ 98,431.53	4.4	3.5	3.9	4	3.4	2	1	5	1.00	13.80	-		
1480	200007003	Pipe	Clay	8	174.1	N/A	1972	47	50	3	6%	2022	\$ 45,256.15	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1481	200007002	Pipe	Clay	8	202.8	N/A	1972	47	50	3	6%	2022	\$ 39,790.04	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1482	200007003	Pipe	Clay	8	203.0	N/A	1972	47	50	3	6%	2022	\$ 52,517.82	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1481	200007004	Pipe	Clay	10	126.1	N/A	1972	47	50	3	6%	2022	\$ 32,774.09	-	-	-	4	3.4	2	1	1	2.00	-	8.00		
1484	200007005	Pipe	Clay	8	137.1	N/A	1972	47	50	3	6%	2022	\$ 40,844.82	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1485	200007006	Pipe	Clay	10	214.1	N/A	1972	47	50	3	6%	2022	\$ 58,710.47	-	-	-	4	3.4	2	3	5	1.00	-	10.00		
1486	200007007	Pipe	Clay	10	230.1	N/A	1972	47	50	3	6%	2022	\$ 59,038.06	-	-	-	4	3.4	2	1	5	3.00	-	12.00		
1487	200007008	Pipe	Clay	10	181.1	N/A	1972	47	50	3	6%	2022	\$ 47,098.43	-	-	-	4	3.4	2	1	5	3.00	-	12.00		
1488	200007009	Pipe	Clay	10	153.1	N/A	1972	47	50	3	6%	2022	\$ 39,805.77	-	-	-	4	3.4	2	1	1	2.00	-	8.00		
1489	200007010	Pipe	Clay	8	268.2	N/A	1972	47	50	3	6%	2022	\$ 60,793.83	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1490	200007011	Pipe	Clay	10	150.8	N/A	1972	47	50	3	6%	2022	\$ 39,218.81	-	-	-	4	3.4	2	3	5	3.00	-	10.00		
1492	200007012	Pipe	Clay	8	214.1	N/A	1972	47	50	3	6%	2022	\$ 54,077.40	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
1492	200007013	Pipe	Clay	10	43.7	N/A	1972	47	50	3	6%	2022	\$ 11,958.08	-	-	-	4	3.4	2	3	5	3.00	-	10.00		
1849	200008018	Pipe	Reinforced Concrete	30	402.6	382.6	1960	50	85	35	41%	2014	\$ 183,101.31	2.5	4.4	3.4	4	3.4	6	3	5	1.9	11.00	-		
1851	200008021	Pipe	Reinforced Concrete	30	318.0	318.0	1960	50	85	35	41%	2014	\$ 153,774.03	4.2	2.7	3.4	3	3.4	6	3	5	1.9	10.00	-		
1858	200008039	Pipe	Reinforced Concrete	30	394.4	389.0	1960	50	85	35	41%	2014	\$ 178,442.05	4.2	2.5	3.3	3	3.3	6	3	5	1.9	10.00	-		
1866	200008038	Pipe	Reinforced Concrete	30	403.1	402.0	1960	50	85	35	41%	2014	\$ 184,431.60	4.2	2.7	3.4	3	3.4	6	3	5	1.9	10.00	-		
1868	200008039	Pipe	Reinforced Concrete	30	395.1	390.0	1960	50	85	35	41%	2014	\$ 179,781.29	4.2	2.5	3.3	3	3.3	6	3	5	1.9	10.00	-		
1974	200008008	Pipe	Reinforced Concrete	30	401.7	36.1	1960	50	85	35	41%	2014	\$ 182,756.20	3.1	3.5	3.3	3	3.3	6	3	1	3.00	8.88	-		
1981	200008021	Pipe	Reinforced Concrete	30	298.1	292.0	1960	50	85	35	41%	2014	\$ 133,024.04	3.3	2.8	3.1	3	3.1	6	3	1	3.00	8.22	-		
1990	200008033	Pipe	Reinforced Concrete	30	394.4	95.6	1960	50	85	35	41%	2014	\$ 178,473.48	4.2	2.5	3.3	3	3.3	6	5	1	1.9	13.20	-		
2000	200008003	Pipe	Reinforced Concrete	30	255.3	241.0	1960	50	85	35	41%	2014	\$ 120,667.55	4.2	2.7	3.4	3	3.4	6	3	5	1.9	10.00	-		
2048	200006003	Pipe	Cl	16	150.0	N/A	1952	67	50	0	0%	2002	-	-	-	5	3.4	3	5	1	3.00	-	16.00			
2152	200008034	Pipe	Clay	8	328.6	N/A	1975	44	50	6	12%	2025	\$ 85,426.75	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
2206	200008038	Pipe	Clay	8	312.9	N/A	1975	44	50	6	12%	2025	\$ 81,347.08	-	-	-	4	3.4	1	1	1	1.00	-	4.00		
2309	200008001	Pipe	Clay	8	73.6	N/A	1975	44	50	6	12%	2025	\$ 19,193.21	-	-	-	4	3.4	1	1	1	1.00	-	4.00		



# Water Asset Management Project - Update

Van Buren Township  
Water Asset Management Plan - Schedule

Task	Previously Completed	2019												2020											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A ASSET INVENTORY																									
1. Map of System showing location, age, and size of assets																									
a. GPS locate valves, hydrants, etc																									
2. Horizontal Asset Inventory																									
a. Develop Spreadsheet with list of Assets																									
b. Number Horizontal Assets in Spreadsheet & Dwg																									
c. Populate Spreadsheet with Age, Diameter, Material																									
3. Vertical Asset (PRV's) Inventory																									
a. Develop Equipment Inventory																									
b. Incorporate into Spreadsheet																									
c. Populate Spreadsheet with Age and Other Attributes																									
4. Condition Assessment																									
a. Hydrants																									
b. Gate Valves																									
c. PRV Stations																									
d. Water Mains																									
5. Estimate Remaining Useful Life																									
6. Replacement Costs																									
B ASSET CRITICALITY																									
1. Business Risk Evaluation																									
a. Probability of Failure																									
b. Consequence of Failure																									
c. Business Risk Evaluation																									
C LEVEL OF SERVICE GOALS																									
1. Determine Desired LOS																									
D 5 AND 20 YEAR CAPITAL IMPROVEMENT PLANS																									
1. Develop Draft 6-Year and 20-Year CIP Plans																									
2. Review by Township Board																									
3. Finalize 6-Year and 20-Year CIP Plans																									
4. Approval by Township Board																									
E FUNDING STRUCTURE AND RATE METHODOLOGY																									
1. Verify that current budget covers current needs																									
2. Generate Preliminary Revenue Structure																									
3. Review by Township Board																									
4. Finalize Revenue Structure																									
5. Revenue Structure Approval by Board																									
F REPORTING																									
1. Annual Reports to MDEQ																									
2. Present to Township Board																									
3. Final CIP/AMP Report to MDEQ																									

Planned Work

Annual Report

Planned Work

Annual Report



- Customer has requested permission to connect to the Romulus water system.
- There is no available point of connection to Van Buren's system.
- Existing well on property is no longer usable
- Romulus has granted tentative permission



# Questions?



NEXT SCHEDULED MEETING:  
April 23, 2018