

Annual Report
Sturgis Water Department
Date: January 11, 2018

This report will include the Year End Report, which shows the water usage and revenue generated during the current year. It will cover water projects that are within the five year plan. These projects will change as the needs of the community and the Water Department's water demands change.

The report will be approved by the Sturgis Municipal Utility Board (MUB) and then used in calculating the next fiscal water budget.

THE 2017 YEAR END REPORT

This report starts off with the monthly usage that is measured in gallons, and then shows the corresponding water revenue. The total water usage and revenue will follow the monthly breakdown.

Next in the report will be the Coin Machine Sales (the Waterman), Bulk Sales (Key accounts), Metered Sales (Homes and businesses), and Non-Billed water accountable (the water shop, etc.).

Then at the end of this report is the water pumped, water metered, gallon's different with percentage of water loss. Losses can be from main or service lines breaks and leaks with in the water system. (YEAR END REPORT BELOW)

2017 YEAR END REPORT

MONTH	CURRENT USAGE	METER WATER BILLING	WATERMAN COIN / MONTH
January	13,145,150	\$ 78,204.23	\$ 443.28
February	16,268,570	\$ 86,339.25	\$ 354.50
March	14,703,800	\$ 82,272.71	\$ 499.53
April	13,956,780	\$ 80,890.00	\$ 351.50
May	16,179,370	\$ 86,517.16	\$ 492.75
June	31,363,900	\$ 126,164.00	\$ 795.00
July	44,156,220	\$ 159,695.80	\$ 920.00
August	52,492,380	\$ 181,964.97	\$ 900.25
September	35,404,090	\$ 137,619.91	\$ 678.25
October	18,146,000	\$ 92,392.57	\$ 444.50
November	13,680,990	\$ 80,339.93	\$ 478.25
December	14,713,100	\$ 82,784.17	\$ 408.25
TOTAL	284,210,350	\$ 1,275,184.70	\$ 6,766.06

	GALLONS (-KEY USAGE)	REVENUE
Coin Machine (waterman)	1,744,000	\$ 6,766.06
Bulk Sales - misc	607,000	\$ 1,669.25
Bulk Sales - Jackpine	291,000	\$ 1,201.83
Metered Sales	284,210,350	
Non-billed accountable water (water leaks, main flush, street sweep)	30,990,340 est.	
TOTAL	317,842,690	\$ 9,637.14

	1-Jan-17	31-Dec-17	2017 usages
Well #1	76,608,000	84,204,000	7,596,000 GAL
Well #2	67,213,000	73,569,000	6,356,000 GAL
Well #3	46,281,000	63,134,000	16,853,000 GAL
Well #4	2,491,000	3,093,000	602,000 GAL
Well #5	776,131,000	784,414,000	8,283,000 GAL
Well #6	25,238,000	70,159,000	44,921,000 GAL
Well #7	1,460,085,000	1,717,371,000	257,286,000 GAL
TOTAL	2,454,047,000	2,795,944,000	341,897,000 GAL

	GALLONS
Total Pumped	341,897,000
Total Accountable Water	317,842,690
Gallons Different	24,054,310
Loss Percent	7%

bulk sales are jackpine gypsies, construction sites,
meade co. when they use our hydrants to get water for roads

Availability Fees – units		1	2	3	4	6	8
Meter Size	<= 1"	1 1/4"	1 1/2"	2"	3"	4"	
Water Avail	\$17	\$34	\$51	\$68	\$102	\$136	
Sewer Avail	\$18	\$36	\$54	\$72	\$108	\$144	

2018 RATES

Line Size	# Units	Wtr Base 2017	Wtr Base 2018	Wtr Surcharge	Sewer 2017	Sewer 2018
5/8" – 1"	1	11.68	11.68	9.18	31.60	31.60
1 1/4"	2	23.36	23.36	18.36	63.20	63.20
1 1/2"	3	35.04	35.04	27.54	94.80	94.80
2"	4	46.72	46.72	36.72	126.40	126.40
3"	6	70.08	70.08	55.08	189.60	189.60
4"	8	93.44	93.44	73.44	252.80	252.80

WATER USAGE:
 Residential - \$2.52/1,000 gal
 Commercial - \$2.83/1,000 gal

Sewer – Residential
 \$26.66

Sewer Commercial – \$31.60
 Allows 9,000 gal
 .58/1000 gal over 9,000

WASTEWATER FACILITY SURCHARGE - \$17.63 (effective 7/1/2017)

GARBAGE	TIMES PER WEEK	1 UNIT		2 UNITS		3 UNITS		4 UNITS		5 UNITS		6 UNITS		7 UNITS		8 UNITS	
		90 GAL	2 – 90 GAL	2 – 90 GAL	3 – 90 GAL	1 – 300 GAL	1 – 300 GAL	2 – 300 GAL	2 – 300 GAL	3 – 300 GAL	3 – 300 GAL	4 – 300 GAL	4 – 300 GAL	5 – 300 GAL	5 – 300 GAL	5 – 300 GAL	5 – 300 GAL
1	11.71	23.42	35.13	35.13	70.26	70.26	105.39	105.39	140.52	140.52	210.78	210.78	281.04	281.04	351.30	351.30	421.56
2	23.42	46.84	70.26	70.26	140.52	140.52	210.78	210.78	281.04	281.04	421.56	421.56	562.08	562.08	702.60	702.60	843.12
3	35.13	70.26	105.39	105.39	140.52	140.52	210.78	210.78	281.04	281.04	421.56	421.56	562.08	562.08	702.60	702.60	843.12
4	46.84	93.68	140.52	140.52	175.65	175.65	245.91	245.91	316.17	316.17	421.56	421.56	562.08	562.08	702.60	702.60	843.12
5	58.55	117.10	175.65	175.65	210.78	210.78	281.04	281.04	351.30	351.30	421.56	421.56	562.08	562.08	702.60	702.60	843.12
6	70.26	140.52	210.78	210.78	245.91	245.91	316.17	316.17	391.44	391.44	461.70	461.70	531.96	531.96	602.22	602.22	672.48
7	81.97	163.94	245.91	245.91	316.17	316.17	391.44	391.44	461.70	461.70	531.96	531.96	602.22	602.22	672.48	672.48	742.74

RESIDENTIAL RECYCLING - \$1.13

COMMERCIAL RECYCLING –

UNIT AMT	1	2	3	4 (1-300)	5 (2-300)	6 (3-300)	7 (4-300)	8 (5-300)
90 GAL	3.41	6.82	10.23					
300 GAL				13.64	17.05	20.46	23.87	27.28

Sturgis Water System Improvements

Main Street

The majority of water main and service line replacements were done in 2016 and completed the first part of 2017

Well # 7 Upgrade

Weston Engineering installed the VFD at well # 7 allowing the water department to better control the amount of water being pumped. This has eliminated almost all of the water hammer that we were getting before. We also have a larger pump and motor in inventory and ready to be installed when the current pump and motor fail that will pump around 900 gpm increasing from the current 750 gpm being produced.

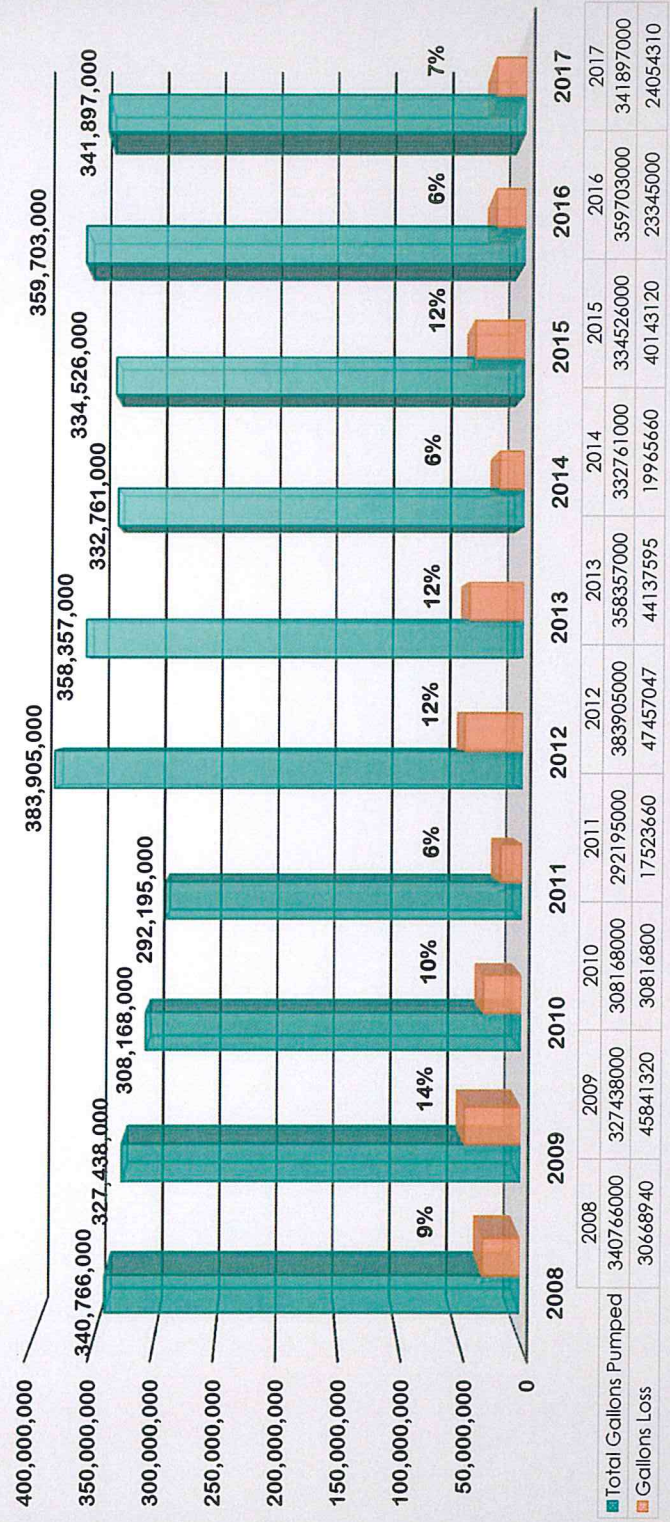
North Tank Rehab.

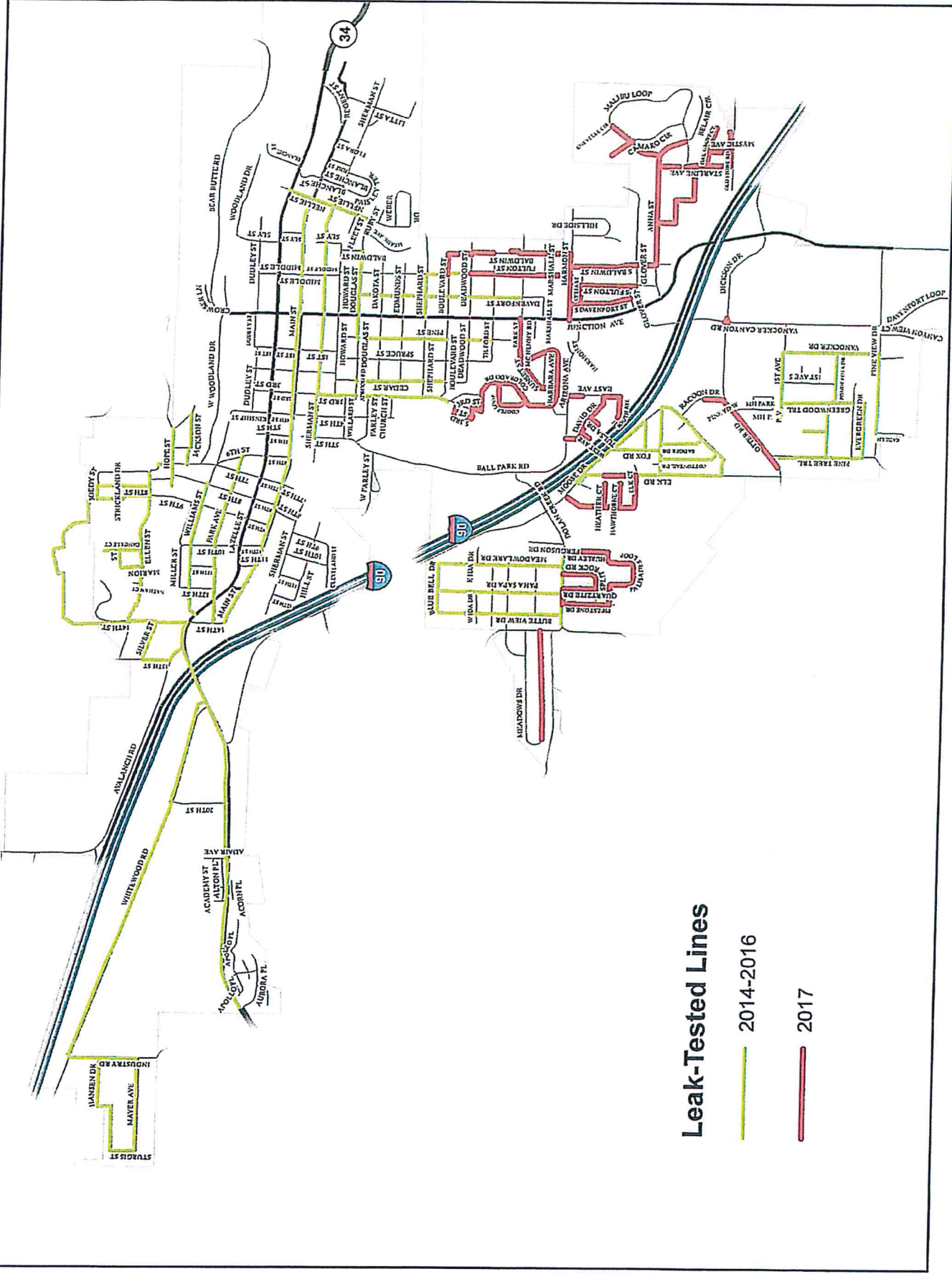
Suez completed the rehab. of the inside and outside of the North Tank and with the current contract that the City has with Suez they will be responsible for any further maintenance of the tank. If there should be a failure of the coatings that they have applied Suez will be responsible to repair or a complete new coating applied if needed.

Conclusion

There are no large projects scheduled for 2018

Water Loss





Leak-Tested Lines

2014-2016

2017