

2017 ANNUAL REPORT TO THE CITY COUNCIL

NARRATIVE DESCRIPTION OF DEPARTMENT

The Water Department has: Five full-time Employees plus one Utility Billing Clerk and one part-time receptionist doing collections and data entry at City Hall.

Name	Years of Service	Certificate grade and type
1. Rich Sudtelgte	12 years	Grade III Treatment/ Grade III Distribution
2. Mike Haverhals	22 years	Grade IV Treatment / Grade IV Distribution
3. Monte Brent	1 year	Grade I Treatment / Grade I Distribution
4. Scott Tillman	1 year	Grade I Treatment / Grade I Distribution
5. Curt Allen	1 year	Grade I Treatment / Grade I Distribution
6. Angie Kneip	10 years	Utility Billing and Collections

The water department operates the City of Le Mars water system which consists of over 90 miles of underground water main, 4310 water meters, 682 fire hydrants, over 1743 main line valves, 2- one-million-gallon elevated water tanks, 1 - 1.5-million-gallon underground storage tank, over 1 million gallons in the distribution system, A 6 MGD Filtration Plant, 1 - high service pump station with a total of 4 pumps, 1 booster pump station w/ 3 pumps run in alteration, and 6 - Dakota Aquifer wells.

The Water Department also: handles some locates for water and many service calls for various reasons, oversees cellular companies at the Le Mars water tower, moves snow at over 10 different locations in the downtown and surrounding areas, does small capital projects, replaces valves and fire hydrants, changes water meters, does customer service work orders, repairs emergency water main breaks and performs many other in house maintenance tasks at a great cost savings to the citizens of Le Mars.

Information of interest

Total metered water pumped from 6 wells for the year	1,035,947,000 gallons
Backwashes @ approximately 70,000 gallons each total	40,997,000 gallons
Backwash percentage of well water pumped	3.96%
Total metered pumped into the distribution system	994,950,000 gallons
Average daily water pumped	2,727,917 gallons
Billed metered water for 2017	934,791,600 gallons
Flushing, WTP use, Hydrant meter sales, & other	15,000,000 gallons
Water used for testing equipment	7,537,560 gallons
Leaks estimated	10,000,000 gallons
Golf Course	15,752,000 gallons
Difference between pumped and non-accountable water	27,500,000 gallons
Percentage of non-accountable	2.8%
This is an acceptable or low percentage number in the water industry.	

Work Completed

Number of Locates Total	186
Water concerns	16
Work orders completed at Water Treatment Plant	1469
Work orders completed for meters and customer service	166
Water test done	3627
Meter replacements completed	30
Number of disconnect notices	2559
Shut-off and collections	326
Water main Breaks fixed	12
Fire Hydrants repaired, moved or replaced	26
Hours of snow moved in City with 4 pieces of equip	160
Supplied one operator to Public works approximate hr.'s	10
Hours Airport manager and Sewer Dept. used equipment	17
Finals and applications done	649
Service taps completed	42
Service leaks	14
Frozen meters	4
Call Outs not including leaks	29
Service call with fee's	30

Review of Gallons Pumped

2017	Ave. Daily Produced	Monthly Water Produced	Total Pumped from well
January	2,002,000	60,716,000	62,867,000
February	2,310,000	64,679,000	67,934,000
March	2,524,000	78,234,000	79,154,000
April	2,702,000	81,061,000	83,889,000
May	2,916,000	90,396,000	92,432,000
June	3,837,000	115,106,000	119,919,000
July	3,985,000	123,522,000	127,634,000
August	3,152,000	97,698,000	104,766,000
September	2,935,000	88,062,000	91,856,000
October	2,286,000	70,877,000	75,469,000
November	2,065,000	61,935,000	65,299,000
December	2,021,000	62,664,000	64,728,000

Total 994,950,000 1,035,947,000
= 40,997,000 back wash =3.96%

Average day pumped for year = 2,727.917 gallons, up 20,084 gallons per day from 2016

Projects completed and worked on in 2017

1. Water Main from 9th Ave SW to West of Lake Ave.
2. Replaced Main from South of Mc Donald's to Dairy Queen on Business 75. Moved all services to new main.
3. Replaced Main from Business 75 to 6th St SW on 8th Ave SW.
4. Water Main KNS 3rd Addition.
5. Water Main from 4th Ave NE down Park Lane to shelter house. Services to Park house, bath house, shelter house, & new camp ground.
6. New water service to rest room at O'Toole Park
7. New service to Little League complex.
8. All mains passed flushing, pressure tests, & Bacteria tests
9. Pulled Well #9, replaced two column pipes, pump & rebuilt motor.
10. Disconnected old Booster Station from our water system.
11. 12 water main breaks
12. Replaced Beacons on both Water Towers.
13. Added 5 fire hydrants to our system.
14. Worked with several contractors shutting down, line stopping, tapping, mains.
15. DNR Sanitary Survey (once every three years).
16. Completed all required tests for DNR
17. Well & HSP tests done by Sargent Well Co.
18. Replaced last check valves in HSP building.
19. Spring and fall flushing completed.
20. Completed Hydrant maintenance.
21. Installed new 8" Check valve & meter in Well #6.
22. Completed many more tasks as mentioned in Quarterly Reports



Water main considerations and work to be done in 2018

1. More backflow awareness, compliance, testing and checks along with compiling information on computer program.
2. Continue on valve turning program and hydrant maintenance.
3. Work with developers and contractors on codes and water issues.
4. Upgrade SCATA System at the Water Treatment Plant.
5. Upgrade the Chlorine leak detection system in Water Treatment Plant.
6. Upgrade testing equipment At the Water Department.
7. Lead and Copper testing.
8. Spring and fall flushing.
9. Water main upgrades, repair and connect small mains into larger ones with valves.
10. Continue to work with contractors and other projects as they pertain to the water treatment and distribution system.
11. Water main projects in the 5-year plan.
12. Water looping from Lincoln & 18th SW across to West side of Business 75 by walking trail.
13. Loop 1st ave to Lincoln SE
14. Connect main on Industrial between 24th St SW & 27th St SW
15. Get bids for maintenance on old tower.