ASSET MANAGEMENT INVENTORY

FOR

CITY OF GALESBURG

Prepared By, / Asset Management Team
Joe VanDommelen, Michigan Rural Water Association

Mission Statement for City of Galesburg Water System

We commit to improving and maintaining the public health protection and performance of our drinking water plant and distribution utility assets, while minimizing the long-term cost of operating those assets. We strive to make the most cost-effective renewal and replacement investments and provide the highest-quality customer service possible.

MRWA Quality On Tap! Michigan Rural Water Association

ASSET MANAGEMENT PLAN

FOR

CITY OF GALESBURG

SECTION

Asset Management Plan

CITY OF GALESBURG

2024

Current Population	2,049
Number of Water Department Employees	2.0
Number of Wells	2
Number of Water Towers	1
Capacity of Tower Gallons	500,000
Number of Standby Generators	1
Feet of Water Main	74,816
Type of Treatment	Limited
Number of Fire Hydrants	139
Number of Distribution Valves	206

Level of Service CITY OF GALESBURG

Level of Service Statement

Level of Service (LOS) defines the way in which the utility stakeholders want the utility to perform over the long term. The LOS plan below was completed and should become a fundamental part of how the utility is operated, through the setting of practical goals for the City's water system.

Areas	GOALS / OBJECTIVES	LEVEL OF SERVICE
Safe Drinking Water	All federal and state water quality regulations will be met	Preform all required monitoring
Health, Safety	To provide a safe and injury free work place	Conduct regular safety meetings No MIOSHA safety violations
Security	Secure all water installations from break ins / intrusions'	Make sure all water installations have two barriers of security
Operator certification	Must have operator in charge & backup operator on staff	Have two certified water operators Each must have a S-3 & D-3 State Drinking Water Certifications The City will employee (3) three in the DPW / Water Dept, full time
Customer complaints	To provide excellent customer service	All customer complaints will be investigated within 2 business days of reporting the complaint. Results of complaint will be reported to customer verbally, via the phone, in person, or in writing
Upcoming regulatory changes	Be aware of regulatory changes and comply with changes as they occur	Attend industry conferences and training sessions to stay abreast of changes and requirements Request annual meeting with local EGLE representative to insure compliance

Response time	To provide excellent customer service	Customer emergency response time within 2 hours Customers will receive written notice 24 hours in advance of any planned interruption in service.

Operating Reserves	Have enough reserves to cover all anticipated major expenses and potential unexpected breakdowns	

Wells -Supply water	Maintain all well related equipment, focusing on preventative maintenance to prevent unscheduled breakdown	Inspections of wells on bi-annual basis by Well Specialist Documentation of all maintenance performed Documentation of all scheduled maintenance to be preformed List all aspect of wells in equipment maintenance fund that is adequately supported by rates (user fees) Source water pumps will be functional 99% of the time. Spare parts will be maintained to the extent possible to repair source water pumps quickly.
	Maintain all well buildings	Keep building painted, and clean

Alternative Power Source	Goals - all wells have a permanent generator or back up power? - or portable generator - generator service contract	Annual inspections of generators by outside professionals?
	Maintain all well buildings	Keep building painted, and clean

Quality Drinking Water	To provide high quality good tasting drinking water	Comply with EGLE testing requirements Flush water mains (1) once per year

Distribution System	Maintain system, pipes, valves, hydrants to insure that all are in good working condition, and that money is set aside to replace as needed.	
	Distribution System Valves	Exercise water valves on rotating 5 year program. To insure all valves are exercised every five years.
		Provide adequate manpower to perform valve exercise program
		Have written documentation of valve exercising
		Insure that %?? of valves function properly
	Fire Hydrants	Insure that % ?? Of fire hydrants are in good working order
	Water Main Flushing	Flush water mains (1) once per year
		Provide adequate manpower to perform water main flushing
		Have written documentation of water main / hydrant flushing
		Under normal conditions, pressures will be maintained between 30 and 70 psi.
	General System Maintenance	Insure water rates and budget are adequate to provide manpower to perform valve exercising, hydrant maintenance, water main flushing and replacement if necessary
	Water loss will be maintained below 12%	

CITY OF GALESBURG

SUMMARY RESERVE FUNDING APPLIED TO WATER RATE BUDGET

2016

TYPE OF RESERVE FUND	ANNUAL FUNDING	STARTING BALANCE IN SAVINGS
EQUIPMENT REPLACEMENT 1	$50,000	$0
TOTAL MAINTENANCE RESERVE	$50,000	$0
CAPITAL IMPROVEMENT SUMMARY	$65,000	$ -
TOTAL SYSTEM IMPROVEMENT RESERVE	$65,000	$0
TOTAL ANNUAL RESERVE	**$115,000**	**$0**

THE RUNNING BALANCE GOES TO THE NEGATIVE QUICKLY. FIRST THE RATE STUDY THAT CALCULATED THE RESERVE FUNDING AMOUNTS WAS DONE BEFORE THE MOST RECENT CIP WAS COMPLETED AND ADDED PROJECTS TO THE LIST IN THE RATE STUDY. THE SECOND REASON IS THE UPDATED PRICING IN THE NEW CIP IS HIGHER THAN WHAT THE THE OLD CIP HAD FOR PRICING. A NEW RATE STUDY WILL BE COMPLETED USING THE NEW CIP AND PRICING WHEN THE 2024/2025 BUDGET IS COMPLETED.

YEAR	EQUIPMENT REPLACEMENT 1		CAPITAL IMPROVEMENT SUMMARY		SUMMARY ANNUAL RESERVE	SUMMARY ANNUAL EXPENDITURES	RESERVE RUNNING BALANCE
	ANNUAL FUNDING	ANNUAL EXPENDITURES	ANNUAL FUNDING	ANNUAL EXPENDITURES			
2023	$50,000	$0	$65,000	$0	$115,000	$ -	**$180,050**
2024	$50,000	$28,875	$65,000	$0	$115,000	$ 28,875.00	**($51,457)**
2025	$50,000	$5,500	$65,000	$317,682	$115,000	$ 323,182.00	**($78,136)**
2026	$50,000	$193,200	$65,000	$136,250	$115,000	$ 329,450.00	**($156,220)**
2027	$50,000	$18,000	$65,000	$0	$115,000	$ 18,000.00	**($59,247)**
2028	$50,000	$6,250	$65,000	$0	$115,000	$ 6,250.00	**($500,255)**
2029	$50,000	$9,750	$65,000	$549,762	$115,000	$ 559,512.00	**($394,956)**
2030	$50,000	$57,375	$65,000	$0	$115,000	$ 57,375.00	**($337,242)**
2031	$50,000	$32,200	$65,000	$0	$115,000	$ 32,200.00	**($258,044)**
2032	$50,000	$89,900	$65,000	$3,683	$115,000	$ 93,583.00	**($232,845)**
2033	$50,000	$7,500	$65,000	$0	$115,000	$ 7,500.00	**($300,098)**
2034	$50,000	$42,625	$65,000	$174,813	$115,000	$ 217,437.67	**($227,621)**
2035	$50,000	$74,800	$65,000	$0	$115,000	$ 74,800.00	**($187,311)**
2036	$50,000	$37,950	$65,000	$0	$115,000	$ 37,950.00	**($146,068)**
2037	$50,000	$0	$65,000	$35,892	$115,000	$ 35,891.64	**($30,971)**
2038	$50,000	$0	$65,000	$0	$115,000	$ -	**$84,176**
2039	$50,000	$22,500	$65,000	$0	$115,000	$ 22,500.00	**$79,206**
2040	$50,000	$16,650	$65,000	$97,667	$115,000	$ 114,317.25	**$177,781**
2041	$50,000	$62,700	$65,000	$0	$115,000	$ 62,700.00	**($36,249)**
2042	$50,000	$0	$65,000	$266,588	$115,000	$ 266,588.36	**$78,998**
2043	$50,000	$20,000	$65,000	$0	$115,000	$ 20,000.00	**$326,631**
2044	$50,000	$25,625	$65,000	$0	$115,000	$ 25,625.00	**$351,332**
2045	$50,000	$21,000	$65,000	$0	$115,000	$ 21,000.00	**$380,684**
2046	$50,000	$318,200	$65,000	$0	$115,000	$ 318,200.00	**$112,864**
2047	$50,000	$147,400	$65,000	$0	$115,000	$ 147,400.00	**$15,577**
2048	$50,000	$48,938	$65,000	$0	$115,000	$ 48,937.50	**$16,655**
2049	$50,000	$5,750	$65,000	$0	$115,000	$ 5,750.00	**$60,922**
2050	$50,000	$0	$65,000	$0	$115,000	$ -	**$110,983**
TOTALS					**$3,220,000**	**$2,875,024**	

GAIN OF **$344,976**

BASED ON CURRENT KNOWN EXPENSES

Water Storage	Maintain water tower for longer life span	Professionally Inspect every five years for integrity Complete all maintenance as suggested in inspection reports Insure Rates and Budget are adequate to support major maintenance actives (painting) as recommended through inspection process All storage requirements will be met as indicated under EGLE Reliability Study Guidelines
Administrative	Provide excellent customer service Insure customers bills are accurate	Follow up on all complaints to insure a finite outcome Review any discrepancy
Financial	Be financially solvent & operate water system in the black including reserve funding	Review Water Rates every XX years. Adopt sufficient rates to meet adopted budget Insure adopted annual budget includes results of asset management program Maintain XX dollars in reserve accounts at all times
Rules and Regulations	Monitor & enforce	Update & review rules annually - Cross connections, Site sampling plan, Required Lab analysis, Consumer confidence report, Safety program,
Cross Connections	Annually review cross connection progam and update as needed Comply with adopted ordinance	Perform inspections as required with in house staff Attend seminars to keep staff up-to-date with any changes in rule.

Galesburg Water

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

2023

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

YOUR ANTICIPATED NORMAL INTENDED USEFUL LIFE OR YEARS BETWEEN REHAB SHOULD BE BASED ON PAST MAINTENANCE HISTORY, WELL MAINTENANCE RECORDS AND WATER TOWER INSPECTION REPORTS. - A COPY OF THESE REPORTS SHOULD BE INCLUDED IN YOUR RATE EVALUATION AS AN ATTACHMENT OR APPENDIX --- ALSO NOTE; IF YOU ARE APPLYING FOR A USDA RURAL DEVELOPMENT GRANT OR HOPE TO GET A USDA GRANT - THE REMAINING YEARS OF LIFE FOR ANY EQUIPMENT CAN NOT EXCEED 15 YEARS. FOR ANYTHING - WATER METERS WATER TOWER PAINTING ETC. ONCE THE USEFUL LIFE OR NEXT ANTICIPATED MAINTENANCE IS LESS THAN 15 YEARS AWAY IT CAN BE LISTED HERE,

FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR LAST REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE-YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	REPLACEMENT MONEY RESERVED ANNUALLY
WELL 1	Installed 1948								
WELL 1 PUMP		2015	20	8	2035	12	$20,000	60%	$1,000
WELL 1 MOTOR	50hp motor	1994	30	29	2024	1	$20,000	3%	$667
WELL 1 CONTROL PANEL		2006	30	17	2036	13	$5,000	43%	$167
WELL 1 BUILDING - Original building built 1948, add it ional addn 2023	Roof, doors, windows, heaters, etc.	2023	20	0	2043	20	$10,000	100%	$500
WELL 1 PIPING & VALVES		2006	50	17	2056	33	$10,000	66%	$200
WELL 1 MASTER METER		2023	17	0	2040	17	$9,000	100%	$529
WELL 1 CLEANING		2017	15	6	2032	9	$17,000	60%	$1,133
CHEMICAL FEED SYSTEM		2023	2	0	2025	2	$5,000	100%	$2,500
VFD		2017	15	6	2032	9	$20,000	60%	$1,333
WELL 2	Installed 1957								
WELL 2 PUMP		2014	20	9	2034	11	$20,000	55%	$1,000
WELL 2 MOTOR		2014	30	9	2044	21	$10,000	70%	$333
WELL 2 CONTROL PANEL		2006	20	17	2026	3	$15,000	15 %	$750
WELL 2 BUILDING	Roof, doors, window, etc.	2007	20	16	2027	4	$10,000	20%	$500
WELL 2 PIPING & VALVES		2007	50	16	2057	34	$10,000	68%	$200
WELL 2 MASTER METER		2021	30	2	2051	28	$9,000	93%	$300
CHLORINE FEED SYSTEM		2022	2	1	2024	1	$5,000	50%	$2,500
WELL 2 CLEANING		2021	5	2	2026	3	$17,000	60%	$3,400
VFD		2017	15	6	2032	9	$20,000	60%	$1,333
WATER TOWER - BURGESS DR	Installed 2006, cost $1.6M								
WATER TOWER EXTERIOR PAINTING		2006	20	17	2026	3	$50,000	15%	$2,500
WATER TOWER INTERIOR PAINTING	WET	2006	20	17	2026	3	$50,000	15%	$2,500
WATER TOWER INSPECTION		2019	5	4	2024	1	$2,500	20 %	$500
WATER TOWER CONTROLS		2006	20	17	2026	3	$15,000	15%	$750
CATHOTIC PROTECTION		2019	20	4	2039	16	$10,000	80%	$500
PORTABLE GENERATOR	split 75% water and 25% sewer	1995	35	28	2030	7	$37,500	20 %	$1,071
TAPPING MACHINE		1965	80	58	2045	22	$10,000	28 %	$125

Galesburg Water

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS

2023

SHORT LIVED ASSETS SOMEWHERE BETWEEN 0-15 OR 20 YEARS

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FIXED ASSET INVENTORY		ASSET REPLACEMENT SCHEDULE							
EQUIPMENT LIST / MAINTENANCE ACTIVITY	DESCRIPTION / MAINTENANCE HISTORY	ORIGINAL INSTALLATION YEAR OR LAST REHAB YEAR	ESTIMATED NORMAL INTENDED USEFUL LIFE	CURRENT AGE	NEXT ANTICIPATED REPLACEMENT YEAR	REMAINING LIFE - YEARS BEFORE REPLACEMENT	TOTAL REPLACEMENT COST	PERCENT OF ASSET LEFT	REPLACEMENT MONEY RESERVED ANNUALLY
WATER METERS - 675 3/4" METERS @ $200 EACH REPLACEMENT COST Last wholesale meter changout done in 2006. New plan is to replace 10% per year instead of another wholesale meter changeout.	METERS LAST AN AVERAGE OF 20 YEARS - ESTIMATE AVERAGE METER AT 10 YRS OLD - SOME NEWER SOME OLDER								
WATER METERS - LARGER SIZES - 80 LARGER METERS FRM 1" - 4" - = 139 METER EQUIVALENETS @ $200 PER METER EQUIVALENT	METERS LAST AN AVERAGE OF 20 YEARS - ESTIMATE AVERAGE METER AT 10 YRS OLD - SOME NEWER SOME OLDER								
HAND HELD METER READER and BILLING SOFTWARE		2011	15	12	2026	3	$15,000	20%	$1,000
RELIABILITY STUDY / GENERAL PLAN		2021	5	2	2026	3	$1,000	60%	$200
SCADA	split 75% to water and 25% to sewer-total cost for SCADA upgrades in 2022 was about $29000	2022	13	1	2035	12	$21,750	92%	$1,673
							$444,750	51%	$ 29,166

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS - RUNNING BALANCE SHEET

COST OF LIVING INCREASE	5.00%
CURRENT RESERVE BALANCE APPLIED TO THIS ACCOUNT - INCLUDES RRI BALANCE	$0
AVG. INTEREST RATE IN SAVINGS	0.10%
ANNUAL COLA ADJUSTMENT AS ADOPTED BY COUNCIL	0.00%
Annual Funding Applied to Budget / Rates	**$50,000**

YEAR	PURPOSE	ANNUAL REPLACEMENT EXPENDITURES WITH C.O.L.	FUNDING WITH COLA	RUNNING BALANCE
2023	**SEE EQUIPMENT LIST FOR DETAILS OF ANTICIPATED PURCHASES**	$0	$50,000	$50,050
2024		$28,875	$50,000	$71,225
2025		$5,500	$50,000	$115,796
2026		$193,200	$50,000	($27,288)
2027		$18,000	$50,000	$4,685
2028		$6,250	$50,000	$48,439
2029		$9,750	$50,000	$88,738
2030		$57,375	$50,000	$81,452
2031		$32,200	$50,000	$99,333
2032		$89,900	$50,000	$59,532
2033		$7,500	$50,000	$102,092
2034		$42,625	$50,000	$109,569
2035		$74,800	$50,000	$84,879
2036		$37,950	$50,000	$97,014
2037		$0	$50,000	$147,111
2038		$0	$50,000	$197,258
2039		$22,500	$50,000	$224,955
2040		$16,650	$50,000	$258,530
2041		$62,700	$50,000	$246,088
2042		$0	$50,000	$296,334
2043		$20,000	$50,000	$326,631

EQUIPMENT REPLACEMENT SHORT LIVED ASSETS - RUNNING BALANCE SHEET		
COST OF LIVING INCREASE		5.00%
CURRENT RESERVE BALANCE APPLIED TO THIS ACCOUNT - INCLUDES RRI BALANCE		$0
AVG. INTEREST RATE IN SAVINGS		0.10%
ANNUAL COLA ADJUSTMENT AS ADOPTED BY COUNCIL	0.00%	
		$0

Galesburg Water	2023					
CAPITAL IMPROVEMENT PROJECTS SUMMARY				PERCENT DOWNPAYMENT		10%
CAPITAL IMPROVEMENT IDEAS WERE GENERATED FROM		PREIN & NEWHOF CIP AND PREVIOUS CIP DONE IN 2017 BY A DIFFERENT ENGINEERING COMPANY. PREIN CIP IS PICTURED BELOW. ALL PROJECTS FROM THE 2017 CIP NOT INCLUDED IN THE NEW CIP HAVE 10 YEARS ADDED TO THE COMPLETION YEAR.				

MRWA DOES NOT RECOMMEND OR SUGGEST FINANCING OPTIONS. IT IS UP TO THE COMMUNITY AND THEIR ADVOCATES TO DECIDE WHAT FINANCING OPTIONS WORK BEST FOR THEM AND THEIR FUTURE PROJECTS.

ENTER ITEMS ON THIS PAGE FIRST - THEN SEE INDIVIDUAL PAGES FOR ENTERING DETAILS ON EACH PROJECT -

CAPITAL PROJECTS - FOR DETAILS OF EACH PROJECT SEE INDIVIDUAL PAGES	ESTIMATED PROJECT COST	CASH CONTRIBUTION FROM RATES	AMOUNT FINANCED	COMPLETE IN YEAR OF	IS THIS YEAR FLEXIBLE?	MONEY NEEDED ANNUALLY
BLAKE MAIN REPLACEMENT	$489,000	$48,900	$440,100	2029		$8,150
BATTLE CREEK MAIN REPLACEMENT - 35TH TO GROVE	$2,440,000	$244,000	$2,196,000	2029		$40,667
REPLACE PORTABLE GENERATOR	$29,000	$2,900	$26,100	2032		$322
5-WAY INTERSECTION MAIN REPLACEMENT	$796,000	$79,600	$716,400	2029		$13,267
GROVE MAIN REPLACEMENT	$562,000	$56,200	$505,800	2029		$9,367
M-96 MAIN REPLACEMENT - GRANT TO NORMS PLACE	$358,390	$35,839	$322,551	2034		$3,258
NORMS PLACE - M-96 TO BECKWITH MAIN REPLACEMENT	$620,000	$62,000	$558,000	2034		$5,636
NEW AND E. BATTLE CREEK MAIN REPLACEMENT	$1,270,000	$127,000	$1,143,000	2025		$63,500
M-96 MAIN REPLACEMENT - BURGESS EAST PAST 12" MAIN	$335,991	$33,599	$302,392	2034		$3,054
CLOSE LOOP AT MOREHOUSE	$252,758	$25,276	$227,482	2037		$1,805
CLOSE LOOP FROM 35TH TO 36TH STREETS	$1,540,000	$154,000	$1,386,000	2025		$77,000
CLOSE LOOP FROM 36TH TO 37TH STREETS	$1,698,015	$169,802	$1,528,214	2042		$8,937
INSTALL PERMANENT NATURAL GAS GENERATOR AT WELLS	$160,000	$16,000	$144,000	2025		$8,000
ADD NEW WELL	$646,803	$64,680	$582,123	2040		$3,805
CHURCH ST. MAIN EXTENSION	$372,000	$37,200	$334,800	2029		$6,200
INSTALL MIXER IN WATER TOWER	$27,000	$2,700	$24,300	2025		$1,350
			$0			$0
REPLACE LEAD SERVICE LINES - amount depends on verification of actual replacements	$1,250,000	$125,000	$1,125,000	2026		$41,667
			$0			$0
			$0			$0
			$0			$0
	$12,846,957	**$1,284,696**	**$11,562,261**			**$295,985**

CAPITAL IMPROVEMENT RUNNING BALANCE PROJECTIONS & ANNUAL FUNDING	
ANNUAL COST OF LIVING INCREASE TO PROJECTS	3.00%
T RESERVE BALANCE APPLIED TO CAPITAL IMPROVEMENTS	$0
AVG. INTEREST RATE IN SAVINGS	0.00%
IF AN ANNUAL COLA RATE ADJUSTMENT PERCENT OF	0.00%

RUNNING BALANCE COLUMN REFLECTS THIS FUND ONLY. THE AVERAGE ANNUAL FUNDING DOES NOT REFLECT ANY EXTRA REVENUE GENERATED BY FUTURE ANNUAL RATE INCREASES. FOR A TRUE RUNNING BALANCE OF THE OVERALL HEALTH OF THE WATER SYSTEM SEE THE 10 YEAR PROJECTIONS PAGE.

YEAR	ANNUAL EXPENDITURES	AVERAGE ANNUAL FUNDING AMOUNT IN RATE BUDGET	RUNNING BALANCE
2023	$0	$65,000	$65,000
2024	$0	$65,000	$130,000
2025	$317,682	$65,000	($122,682)
2026	$136,250	$65,000	($193,932)
2027	$0	$65,000	($128,932)
2028	$0	$65,000	($63,932)
2029	$549,762	$65,000	($548,694)
2030	$0	$65,000	($483,694)
2031	$0	$65,000	($418,694)
2032	$3,683	$65,000	($357,377)
2033	$0	$65,000	($292,377)
2034	$174,813	$65,000	($402,190)
2035	$0	$65,000	($337,190)
2036	$0	$65,000	($272,190)
2037	$35,892	$65,000	($243,081)
2038	$0	$65,000	($178,081)
2039	$0	$65,000	($113,081)
2040	$97,667	$65,000	($145,749)
2041	$0	$65,000	($80,749)
2042	$266,588	$65,000	($282,337)
2043	$0	$65,000	($217,337)

CITY OF GALESBURG
WATER SYSTEM ASSETS
2024

WATER SYSTEM ASSETS ESTIMATED VALUE

	REPLACEMENT COST	AVERAGE PERCENT OF LIFE LEFT
WATER DISTRIBUTION MAINS	$13,418,920	59%
WATER DISTRIBUTION VALVES	$447,239	50%
FIRE HYDRANTS	$924,096	48%
WELLS, STORAGE, METERS, CURB STOPS ETC	$3,277,746	54%
TOTALS	**$18,068,001**	**53%**

This table shows the estimated value of the entire water system, excluding the land / property. This estimated replacement cost is in today's dollars.

CITY OF GALESBURG

2024

ASSET TIME LINE

AGE OF PIPE -YEARS	0-10	11-20'	21-30'	31-40'	41-50'	51-60'	61-70'	71-80	TOTALS
FEET OF PIPE	1,898	13,989	21,243	17,100	0	5,346	14,040	1,200	74,816
PERCENT OF PIPE	3%	19%	28%	23%	0%	7%	19%	2%	100%
ESTIMATED REPLACEMENT COST TODAY	$340,423	$2,509,053	$3,810,122	$3,067,038	$0	$958,853	$2,518,200	$215,231	13,418,920
# DISTRIBUTION VALVES	0	33	40	13	0	8	51	1	146
PERCENT OF VALVES	0%	23%	27%	9%	0%	5%	35%	1%	100%
# FIRE HYDRANTS	0	26	23	53	0	6	17	13	139
PERCENT OF HYDRANTS	0%	19%	17%	38%	0%	4%	12%	9%	100%
WELLS						1	1		
TOWER	1								

CITY OF GALESBURG WATER SYSTEM SUMMARY OF CRITICAL ASSETS

2024

ASSET NAME	LOCATION	NOTES DESCRIPTION	BUSINESS RISK EXPOSURE TO A COMPONENT OR THE ENTIRE SYSTEM	INSTALLATION YEAR	USEFUL LIFE	REMAINING LIFE	REPLACE IN YEAR OF	PERCENT OF ASSET LEFT
WELL 1	130 DIVISION ST	ONE OF TWO WELLS ON SYSTEM - 750 GPM	ENTIRE SYSTEM	1948	75	-1	2023	-1%
WELL2	130 DIVISION ST	ONE OF TWO WELLS ON SYSTEM - 750 GPM	ENTIRE SYSTEM	1957	75	8	2032	11%
WATER TOWER BURGESS DR	BURGESS DR	ONLY WATER TOWER IN TOWN 500,000 GALLONS	ENTIRE SYSTEM	2006	90	72	2096	80%
CONTROL SYSTEM	WELLS & WATER TOWER	CONTROLS WATER TOWER LEVEL AND WHEN PUMPS TURN ON & OFF	ENTIRE SYSTEM	2006	20	2	2026	10%
PORTABLE GENERATOR	KEPT IN DPW GARAGE	ONLY BACKUP SOURCE OF POWER FOR WELLS	ENTIRE SYSTEM	1995	35	6	2030	17%
CRITICAL VALVES		LINE SIZE / VALVE SIZE						
145-005-015-1	35TH IN FRT OF 411	8" line	FEEDS NURSING HOME	1958	80	22	2038	28%
040-1	WELL FEED & OLD WATER TOWER	8	FEEDS FROM WELL	1958	80	22	2038	28%
040-3	WELL FEED & OLD WATER TOWER	10	FEEDS FROM WELL	1958	80	22	2038	28%
040-4	WELL FEED & OLD WATER TOWER	8	FEEDS FROM WELL	1958	80	22	2038	28%
145-5-1	35TH FEEDING NURSING HOME	4	FEEDS NURSING HOME	1973	80	37	2053	46%
145-1-1	35TH ST	10	FEEDS NURSING HOME	1973	80	37	2053	46%
145-2-1	35TH ST	10	FEEDS NURSING HOME	1973	80	37	2053	46%
145-2-2	35TH ST	10	FEEDS NURSING HOME	1973	80	37	2053	46%
145-4-1	35TH ST	10	FEEDS NURSING HOME	1973	80	37	2053	46%
145-3-1	35TH ST APARTMENTS	6	FEEDS APT COMPLEX	1973	80	37	2053	46%
AMBLINGAVE 1	AMBLING AVE 1	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL 1	LOOP HIGH SCHOOL 1	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL 2	LOOP HIGH SCHOOL 2	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL 3	LOOP HIGH SCHOOL 3	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL 4	LOOP HIGH SCHOOL 4	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL S	LOOP HIGH SCHOOL 5	8	FEEDS SCHOOLS	2003	80	67	2084	84%
LOOP HIGH SCHOOL 6	LOOP HIGH SCHOOL 6	8	FEEDS SCHOOLS	2003	80	67	2084	84%
BURGESS DR 1	BURGESS DR 1	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 2	BURGESS DR 2	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 3	BURGESS DR 3	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 4	BURGESS DR 4	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 5	BURGESS DR 5	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 6	BURGESS DR 6	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 7	BURGESS DR 7	12	FEEDS WATER TOWER	2006	80	70	2086	88%
BURGESS DR 8	BURGESS DR 8	12	FEEDS WATER TOWER	2006	80	70	2086	88%
CRITICAL WATER MAINS								
3STH ST - FRM W MICHG NORTH TO CITY LIMITS	4250 FT	10	FEEDS NURSING HOME	1973	90	43	2063	52%
BURGESS DR - FRM - BATTLE CREEK TO NORTH CITY LIMITS	3063 FT	12	FEEDS WATER TOWER	2006	90	10	2096	89%
EASTBATTLE CREEK - DRM MCCULLUM TO 37TH ST	700 FT	12	FEEDS SCHOOLS	2003	90	13	2093	86%
SCHOOL - FRONT OF SCHOOL PARKING LOT	200 FT	8	FEEDS SCHOOLS	2003	90	13	2093	86%

CITY OF GALESBURG

2024

WATER DISTRIBUTION PIPE SUMMARY

ESTIMATED REPLACEMENT COST OF PIPE

PIPE SIZE	$ PER FOOT
2"	$154
4"	$154
6"	$154
8"	$146
10"	$350
12"	$210
16"	$346

MOST LIKELY EXISTING 2" & 4" PIPE WILL BE REPLACED WITH 6" OR GREATER DIAMETER PIPE

PRICE PER FOOT DOES NOT INCLUDE HYDRANTS OR VALVES

VALVES & HYDRANTS ARE LISTED ON SEPARATE PAGE

PRICES ARE FROM CITY OF REED CITY RELIABILITY STUDY 2014 - WITH COST OF LIVING ADDED IN.

WATER DISTRIBUTION PIPE SUMMARY ***PERCENT BASED ON SIZE***			
PIPE SIZE	**FEET OF PIPE**	**PERCENT OF TOTAL**	**REPLACEMENT COST**
4	1,200	**2%**	$184,800
6	14,316	**19%**	$2,204,664
8	31,731	**42%**	$4,632,726
10	4,250	**6%**	$1,487,500
12	23,229	**31%**	$4,878,090
16	90	**0%**	$31,140
TOTAL	**74,816**	100%	**$13,418,920**
	AVERAGE COST PER FOOT		$179.36

WATER DISTRIBUTION PIPE SUMMARY ***PERCENT BASED ON TYPE OF PIPE***		
TYPE OF PIPE	**FEET OF PIPE**	**PERCENT OF TOTAL**
DUCTILE IRON	54,830	73%
CAST IRON	19,986	27%
		0%
TOTAL	**74,816**	**100%**

CURRENT YEAR 2024 WATER DISTRIBUTION PIPE SUMMARY ***PERCENT BASED ON AGE***			
DATE OF INSTALLATION	**LENGTH**	**AGE OF PIPE**	**PERCENT OF TOTAL**
1948	1,200	76	2%
1958	14,040	66	19%
1973	5,346	51	7%
1989	9,400	35	13%
1990	7,700	34	10%
1994	500	30	1%
1995	8,963	29	12%
1996	1,280	28	2%
2003	10,500	21	14%
2006	13,389	18	18%
2008	600	16	1%
2023	1,898	1	3%
TOTAL	**74,816**		100%

Weighted avg. pipeline age 36

Length x age for each year, then divided by total length

AVERAGE PERCENT OF LIFE LEFT 60%

CITY OF GALESBURG
2024

WATER DISTRIBUTION PIPE - TIME LINE SUMMARY

AGE OF PIPE -YEARS	0-10	11-20'	21-30'	31-40'	41-50'	51-60'	61-70'	TOTALS
YEAR INSTALLED	2023	2006	1995'	1989	1973	1958	1948	
FEET OF PIPE	1,898	13,989	28,943	9,400	5,346	14,040	1,200	74,816
PERCENT OF TOTAL	3%	19%	39%	13%	7%	19%	2%	
REPLACEMENT YEARS	2100 - 2091	2090 - 2081	2080 - 2071	2070 - 2061	2051-2060	2041-2050	2031-2040	

ESTIMATED FUTURE REPLACEMENT COST	$ 1,065,525	$ 7,100,619	$ 13,133,702	$ 3,759,723	$ 1,850,586	$ 4,104,666	$ 286,257	
PIPE LIFE SPAN ESTIMATED AT 90 YEARS								

CITY OF GALESBURG

WATER DISTRIBUTION VALVE SUMMARY

CURRENT YEAR 2024

DISTRIBUTION VALE AGE SUMMARY

DATE OF INSTALLATION	NUMBER OF VALVES	AGE OF VALVE	PERCENT OF TOTAL
1948	1	76	1%
1958	50	66	34%
1963	1	61	1%
1973	8	51	5%
1985	1	39	1%
1989	12	35	8%
1995	15	29	10%
1996	5	28	3%
2003	20	21	14%
2006	32	18	22%
2008	1	16	1%
TOTAL	146	40	100%

ESTIMATED REPLACEMENT COST OF VALVES

VALVE SIZE	$ PER VALVE	
2"	$2,205	2" & 4" WILL BE REPLACED WITH 6" OR LARGER
4"	$2,205	
6"	$2,205	
8"	$2,846	
10"	$4,546	
12"	$4,546	
16"	$13,100	

MOST LIKELY EXISTING 2" & 4" PIPE WILL BE

REPLACED WITH 6" OR GREATER DIAMETER PIPE

VALVE COST FROM MDOT 2023 Weighted Average Item Price Report

CITY OF GALESBURG

FIRE HYDRANT SUMMARY

REPLACEMENT COST PER HYDRANT	$ 6,668
AVERAGE YEARS OF LIFE EXPENTANC	65

CURRENT YEAR 2024
FIRE HYDRANT AGE SUMMARY

DATE OF INSTALLATION	# HYDRANTS	AGE OF HYDRANT	PERCENT OF TOTAL	VALUE OF HYDRANTS		AGE OF HYDRANTS	ANTICIPATED YEARS OF LIFE REMAINING	PERCENT OF LIFE REMAINING
1958	14	66	10%	$ 93,351		66	-1	-2%
1973	17	51	12%	$ 113,168		51	14	22%
1989	21	35	15%	$ 136,920		35	30	46%
1990	14	34	10%	$ 95,771		34	31	48%
1994	1	30	1%	$ 6,219		30	35	54%
1995	17	29	12%	$ 111,480		29	36	55%
1996	3	28	2%	$ 22,588		28	37	57%
2003	20	21	14%	$ 130,597		21	44	68%
2006	25	18	18%	$ 166,530		18	47	72%
2008	1	16	1%	$ 7,463		16	49	75%
1979	6	45	4%	$ 40,008		45	20	31%
TOTAL	139		100%	$ 924,096				
					AVERAGE	34	31	48%

CITY OF GALESBURG

2016

ITEM DESCRIPTION	WELL	NAME OR NUMBER 1
LOCATION / ADDRESS	130 DIVISION ST	
DATE DRILLED	1948	
DATE LAST WELL REHAB	2015	
WELL DIAMETER	8	
DEPTH	55	
GPM	750	
REGULAR USE	YES	

LIST COMPONENTS	ORIGINAL INSTALLATION YEAR
PUMP	2015
PUMP MOTOR -	1994 - REHABED
CONTROL PANEL	2006
ALARM SYSTEM	2006
SCADA	NONE
VALVES & PIPING	2006
BUILDING / HEAT / VENTILATION ETC	1948
ONSITE GENERATOR ? PORTABLE	1995

IS WELL PROFESSIONALLY SERVICED OR INSPECTED ON A REGULAR BASIC

YES EVERY YEAR

WHAT COMPANY DOES THE INSPECTIONS

NORTHERN PUMP & WELL

WAS A WELL INSPECTION REPORT USED TO COMPLETE THIS EVALUATION?

YES

IS GENERATOR PROFESSIONALLY SERVICED THROUGH SOME TYPE OF SCHEDULED INSPECTION

N/A

CITY OF GALESBURG

2024

ITEM DESCRIPTION	NAME OR NUMBER
WELL	2

LOCATION / ADDRESS	130 DIVISION ST
DATE DRILLED	1957
WELL DIAMETER	8
GPM	750
REGULAR USE	YES

LIST COMPONENTS	ORIGINAL INSTALLATION YEAR
PUMP - REPLACED ?	2014
PUMP MOTOR - REPLACED	2014
CONTROL PANEL	2006
ALARM SYSTEM	2006
BULDING / HEAT / VENTILATION ETC	2014
ONSITE GENERATOR ?	PORTABLE

IS WELL PROFESSIONALLY SERVICED OR INSPECTED ON A REGULAR BASIC

YES

WHAT COMPANY DOES THE INSPECTIONS

NORTHERN WELL

WAS A WELL INSPECTION REPORT USED TO COMPLETE THIS EVALUATION?

YES

IS GENERATOR PROFESSIONALLY SERVICED THROUGH SOME TYPE OF SCHEDULED INSPECTION

N/A

CITY OF GALESBURG

2024

ITEM DESCRIPTION	WATER TOWER	NAME OR NUMBER: 1 TOWER

LOCATION / ADDRESS: 429 BURGESS DR

LIST COMPONENTS	ORIGINAL INSTALLATION YEAR
DATE ORIGINAL INSTALLATION	2006
LAST INTERIOR PAINT JOB	2006
LAST EXTERIOR PAINT JOB	2006
ALARM SYSTEM	2006
CONTROL PANEL	2006
ON SITE BACKUP GENERATOR	NO
CAPACITY, VOLUME	500,000
LAST INSPECTION DATE	2019
SCADA	NONE

IS TOWER(S) PROFESSIONALLY SERVICED THROUGH SOME TYPE OF SCHEDULED INSPECTION

YES - EVERY 5 YRS

WHAT COMPANY DOES THE INSPECTIONS

NELSON TANK

WAS A TOWER INSPECTION REPORT USED TO COMPLETE THIS EVALUATION?

YES

IS GENERATOR PROFESSIONALLY SERVICED THROUGH SOME TYPE OF SCHEDULED INSPECTION

N/A

WATER DISTRIBUTION LINES / MAINS

CITY OF GALESBURG

2024

											1 -GOOD 10 - UNUSEABLE	1 - UNLIKELY 5 - LIKELY	1 - INSIGNIFICANT 5 - DISASTER					
STREET	TYPE OF PIPE	PIPE SIZE	FEET OF PIPE	DATE OF INSTALLATION	AGE OF PIPE	USEFUL LIFE	REMAINING LIFE	REPLACE IN YEAR OF	PERCENT OF LIFE LEFT	PERCENT CONSUMED	CONDITION	PROBABILITY OF FAILURE 1-5	CONSEQUENCE OF FAILURE 1-5	CRITICAL FACTOR 1-25	COST PER FOOT	REPLACEMENT COST	DEPRECIATED VALUE
WASHINGTON ST FROM GRANT TO HAMILTON	DI	8	949	2023	1	90	89	2113	99%	1%	6	2	2	3	$ 146	$ 138,554	$ 137,015
WELL HOUSE 1 & 2 - TO DIVISION	DI	8	949	2023	1	90	89	2113	99%	1%	6	2	2	3	$ 146	$ 138,554	$ 137,015
35TH FRM BATTLE CREEK TO SOUTH CITY LIMITS	DI	12	600	2008	16	90	74	2098	82%	18%	2	1	2	2	$ 210	$ 126,000	$ 103,600
35TH ST - FRM - W MICHIGAN TO BLAKE ST	DI	12	600	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 126,000	$ 100,800
BECKWITH - FRM GRANT TO BURGESS DR	DI	12	2,770	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 581,700	$ 465,360
BLAKE BLVD - FRM 35TH TO GRANT ST	DI	8	1,300	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 146	$ 189,800	$ 151,840
LIMITS	DI	12	3,063	2006	18	90	72	2096	80%	20%	2	1	4	4	$ 210	$ 643,230	$ 514,584
DIVISION ST - FRM WELL 1 TO BECKWITH	DI	12	960	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 201,600	$ 161,280
FULLERTON ST - FRM MICH TO BLAKE	DI	8	630	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 146	$ 91,980	$ 73,584
GRANT ST UNDERNEATH RR TRACKS	DI	12	106	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 22,260	$ 22,260
SHERMAN ST - FRM - MICHIGAN TO BLAKE	DI	8	630	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 146	$ 91,980	$ 73,584
THOMAS ST - FRM MICHIGAN AVE TO BLAKE	DI	8	630	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 146	$ 91,980	$ 73,584
W. MICHIGAN AVE - GRANT TO 35TH	DI	12	1,300	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 273,000	$ 218,400
WASHINGTON ST - FRM - DIVISION TO HAMILTON	DI	8	600	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 146	$ 87,600	$ 70,080
WATER TOWER TO BURGESS DR	DI	12	800	2006	18	90	72	2096	80%	20%	2	1	2	2	$ 210	$ 168,000	$ 168,000
37TH ST - WEST 1000 FEET	DI	12	1,100	2003	21	90	69	2093	77%	23%	3	1	2	3	$ 210	$ 231,000	$ 177,100
AMBLING AVE	DI	8	1,700	2003	21	90	69	2093	77%	23%	3	1	2	3	$ 146	$ 248,200	$ 190,287
EAST BATTLE CREEK - DRM MCCULLUM TO 37TH ST	DI	12	700	2003	21	90	69	2093	77%	23%	3	1	4	5	$ 210	$ 147,000	$ 112,700
GALESBURG HIGH SCHOOL - AROUND BACK OF SCHOOL	DI	8	1,000	2003	21	90	69	2093	77%	23%	3	1	2	3	$ 146	$ 146,000	$ 111,933
CREEK	DI	8	1,400	2003	21	90	69	2093	77%	23%	3	1	2	3	$ 146	$ 204,400	$ 156,707
NORTH 37TH ST - FRM - E BATTLE CREEK NORTH TO DEAD END	DI	12	4,400	2003	21	90	69	2093	77%	23%	3	1	2	3	$ 210	$ 924,000	$ 708,400
SCHOOL - FRONT OF SCHOOL PARKING LOT	DI	8	200	2003	21	90	69	2093	77%	23%	3	1	4	5	$ 146	$ 29,200	$ 22,387
MORHOUSE DR - FRM - 35TH GOING EAST	DI	8	1,280	1996	28	90	62	2086	69%	31%	4	2	2	4	$ 146	$ 186,880	$ 128,740
200 E MICHIGAN AVE - CITY HALL	DI	16	90	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 200	$ 18,000	$ 12,200
BURGESS DR - FRM - MICHIGAN AVE TO BATTLE CREEK	DI	8	792	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 146	$ 115,632	$ 78,373
EAST BATTLE CREEK FROM MCCULLUM ST WEST 1700 FT	DI	12	1,700	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 210	$ 357,000	$ 241,967
ELMWOOD BLVD - FRM GANT TO DEAD END	DI	6	421	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 154	$ 64,834	$ 43,943
GRANT - FRM BLAKE TO MICHIGAN AVE	DI	8	630	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 146	$ 91,980	$ 62,342
MCCULLEM - FRM MICHIGAN AVE TO EAST BATTLE CREEK	DI	12	2,730	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 210	$ 573,300	$ 388,570
MICHIGAN AVE FRM BURGESS DR TO MCCULLUM	DI	12	2,400	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 210	$ 504,000	$ 341,600
MILL ST FRM - 200 FEET S OF BATTLE CREEK ST -	DI	6	200	1995	29	90	61	2085	68%	32%	4	2	2	4	$ 154	$ 30,800	$ 30,800
COMSTOCK SENIOR HOUSING -	DI	8	500	1994	30	90	60	2084	67%	33%	4	2	2	4	$ 146	$ 73,000	$ 48,667
BETHANN - FRM - NICHOLE TO ILENE	DI	6	300	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 154	$ 46,200	$ 28,747
BLAKE & NICHOLE CORNER - GOING NORTH	DI	8	200	1990	34	90		2080		100%	4	4	2	7	$ 146	$ 29,200	$ -
BLAKE BLVD - FRM NICHOLE TO CYNTHIA ST	DI	8	1,100	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 146	$ 160,600	$ 99,929
CORNER BLAKE & NICHOLE TO SOUTH TO DEAD END SARAH	DI	8	1,900	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 146	$ 277,400	$ 172,604
CORTNY ST - FRM BLAKE TO SHADOW LANE	DI	6	1,600	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 154	$ 246,400	$ 153,316

WATER DISTRIBUTION LINES / MAINS

CITY OF GALESBURG

2024

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STREET	TYPE OF PIPE	PIPE SIZE	FEET OF PIPE	DATE OF INSTALLATION	AGE OF PIPE	USEFUL LIFE	REMAINING LIFE	REPLACE IN YEAR OF	PERCENT OF LIFE LEFT	PERCENT CONSUMED	CONDITION (1-GOOD, 10-UNUSEABLE)	PROBABILITY OF FAILURE 1-5 (1-UNLIKELY, 5-LIKELY)	CONSEQUENCE OF FAILURE 1-5 (1-INSIGNIFICANT, 5-DISASTER)	CRITICAL FACTOR 1-25	COST PER FOOT	REPLACEMENT COST	DEPRECIATED VALUE
ILENE - FRM BLAKE TO BETHANN ST	DI	6	500	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 154	$ 77,000	$ 47,911
MIAH FRM - MILDRED TO SARAH	DI	6	300	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 154	$ 46,200	$ 28,747
MILDRED ST - FRM SHADOW TO MIAH	DI	6	700	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 154	$ 107,800	$ 67,076
SHADOW LANE FRM SARAH TO CYNTHIA ST	DI	8	1,100	1990	34	90	56	2080	62%	38%	4	2	2	4	$ 146	$ 160,600	$ 99,929
BLAKE FROM 35TH TO CYNTHIA	DI	8	1,000	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 146,000	$ 89,222
CYNTHIA ST FRM BLAKE TO SHADOW LANE	DI	8	1,600	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 233,600	$ 142,756
E. MICH AVE FROM BATTLE CREEK TO BURGES DR	Di	8	1,000	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 146,000	$ 89,222
EAST BATTLE CREEK - FRM BURGESS DR EAST 1200 FT	DI	8	1,200	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 175,200	$ 107,067
KIMBERLY ST - FRM BLAKE TO SHADOW LANE	DI	8	1,600	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 233,600	$ 142,756
SHADOW LANE FROM 35TH TO CYNTHIA	DI	8	1,000	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 146,000	$ 89,222
WOODLARK ST - FRM BLAKE ST TO SOUTH DEAD END	DI	8	2,000	1989	35	90	55	2079	61%	39%	4	2	2	4	$ 146	$ 292,000	$ 178,444
35TH ST - FRM W MICHG NORTH TO CITY LIMITS	CI	10	4,250	1973	51	90	39	2063	43%	57%	5	3	4	11	$ 350	$ 1,487,500	$ 644,583
EAGLE DR - FRM MCCULLUM ST GOING EAST TO PARK	DI	6	600	1973	51	90	39	2063	43%	57%	5	3	2	5	$ 154	$ 92,400	$ 40,040
GALE AVE - FRM BURGESS DR TO EAST	CI	6	496	1973	51	90	39	2063	43%	57%	5	3	2	5	$ 154	$ 76,384	$ 33,100
35TH FRM MICH TO BATTLE CREEK	CI	8	1,600	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 233,600	$ 62,293
BATTLE CREEK - FRM 35 TO MICHIGAN AVE	CI	6	3,680	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 154	$ 566,720	$ 151,125
BATTLE CREEK - FRM MICHIGAN TO BURGESS DR	CI	6	1,200	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 154	$ 184,800	$ 49,280
CENTER ST - FRM BECKWITH TO WASHINGTON	CI	8	417	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 60,882	$ 16,235
FULLERTON ST - FRM BATTLE CREEK TO W MICH	CI	6	1,955	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 154	$ 301,070	$ 80,285
GRANT FROM WASHINGTON TO BECKWITH	CI	8	400	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 58,400	$ 58,400
GROVE - FRM BATTLE CREEK TO MICHIGAN AVE	CI	6	764	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 154	$ 117,656	$ 31,375
HAMILTON - FROM WASHINGTON - HASTING	CI	8	413	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 60,298	$ 16,079
HASTINGS - FRM HAMILTON - DIVISION	CI	8	584	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 85,264	$ 22,737
MAPLE - FRM DIVISION - BURGES	CI	8	1,427	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 146	$ 208,342	$ 55,558
MICHIGAN AVE - FRM GRANT TO BATTLE CREEK	CI	6	1,600	1958	66	90	24	2048	27%	73%	6	3	2	7	$ 154	$ 246,400	$ 65,707
MILL ST - FRM - BATTLE CREEK GOING SOUTH	CI	4	200	1948	76	90	14	2038	16%	84%	7	4	2	8	$ 154	$ 30,800	$ 4,791
MILLS ST - GOING WEST TO DEAD END PARKING LOT	CI	4	100	1948	76	90	14	2038	16%	84%	7	4	2	8	$ 154	$ 15,400	$ 2,396
NEW ST - FRM - BATTLE CREEK WEST TO DEAD END	CI	4	900	1948	76	90	14	2038	16%	84%	7	4	2	8	$ 154	$ 138,600	$ 21,560
			0											0	$ -	$ -	
			74,816	1988			54		60%					0		$ 13,405,780	$ 8,220,191
			5,280														
			14	MILES													

VALVES FOR WATER DISTRIBUTION SYSTEM

CITY OF GALESBURG

2024

VALVES LOCATED IN TRAILER PARK NOT COUNTED AS CITY ASSETS - PRIVATELY OWNED

1-GOOD
10-UNUSEABLE

1 - UNLIKELY
5 - LIKELY

1 - INSIGNIFICANT
5 - DISASTER

VALVE NO.	LOCATION	LINE SIZE	DATE OF INSTALLATION	AGE OF VALVE	USEFUL LIFE YEARS	REPLACE IN YEAR	REMAINING LIFE YEARS	PERCENT OF LIFE LEFT	PERCENT CONSUMED	CONDITION	WRITTEN CONSEQUENCE OF FAILURE	BACKUP PERCENT REDUNDANCY	PROBABILITY OF FAILURE 1-5	CONSEQUENCE OF FAILURE 1-5	CRITICAL FACTOR 1-25	REPLACEMENT COST NEW VALVE	ANNUAL DEPRECIATION	ACCUMULATED DEPRECIATION	DEPRECIATED VALUE
145-005-1	S 25 BY S CITY LIMITS	8	2008	16	80	2088	64	80%	20%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 569	$2,276
010-020-1	BECKWITH & BURGESS	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-020-4	BECKWITH & BURGESS	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-040-1	BECKWITH & DIVISION	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-040-2	BECKWITH & DIVISION	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-065-2	BECKWITH & GRANT	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-065-3	BECKWITH & GRANT	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-130-1	BECKWITH & PEARL	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-025-1	BECKWITH& CENTER	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
010-025-2	BECKWITH& CENTER	6	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,205	$28	$ 496	$1,709
015-055-1	BLAKE & FULLERTON	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-055-2	BLAKE & FULLERTON	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-145-3	BLAKE & S 35TH	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-140-1	BLAKE & SHERMAN	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-140-2	BLAKE & SHERMAN	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-150-1	BLAKE & THOMAS	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
015-150-2	BLAKE & THOMAS	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
020-060- LIMITS - 1	BURGESS 264 BURGESS	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 1	BURGESS DR 1	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 2	BURGESS DR 2	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 3	BURGESS DR 3	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 4	BURGESS DR 4	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 5	BURGESS DR 5	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 6	BURGESS DR 6	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 7	BURGESS DR 7	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
BURGESS DR 8	BURGESS DR 8	12	2006	18	80	2086	62	78%	23%	2.0	FEEDS WATER TOWER	50	1	3	3	$ 4,546	$57	$ 1,023	$3,523
095-040-1	DIVISION & MAPLE	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
095-040-2	DIVISION & MAPLE	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
DIVISION & BECKWITH WTER 1	DIVISION & BECKWITH WTER 1	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
DIVISION & BECKWITH WTER 2	DIVISION & BECKWITH WTER 2	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
085-040-1	HASTINGS & DIVISION	12	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,023	$3,523
165-040-1	WASHINGTON & DIVISION	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
165-080-1	WASHINGTON & HAMILTON	8	2006	18	80	2086	62	78%	23%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 640	$2,205
AMBLING AVE 1	AMBLING AVE 1	8	2003	21	80	2083	59	74%	26%	2.0	AFFECT ELEMENTARY SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
AMBLING AVE 2	AMBLING AVE 2	8	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 747	$2,099
AMBLING AVE 3	AMBLING AVE 3	8	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 747	$2,099
AMBLING AVE 4	AMBLING AVE 4	8	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 747	$2,099
AMBLING AVE 5	AMBLING AVE 5	8	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 747	$2,099
AMBLING AVE 6	AMBLING AVE 6	8	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 1	LOOP HIGH SCHOOL 1	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 2	LOOP HIGH SCHOOL 2	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 3	LOOP HIGH SCHOOL 3	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 4	LOOP HIGH SCHOOL 4	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 5	LOOP HIGH SCHOOL 5	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
LOOP HIGH SCHOOL 6	LOOP HIGH SCHOOL 6	8	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 2,846	$36	$ 747	$2,099
NORTH 37TH ST 1	NORTH 37TH ST 1	12	2003	21	80	2083	59	74%	26%	2.0	FEEDS HIGH SCHOOL	50	1	3	3	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 2	NORTH 37TH ST 2	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 3	NORTH 37TH ST 3	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 4	NORTH 37TH ST 4	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 5	NORTH 37TH ST 5	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 6	NORTH 37TH ST 6	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353

VALVES FOR WATER DISTRIBUTION SYSTEM

CITY OF GALESBURG

2024

VALVES LOCATED IN TRAILER PARK NOT COUNTED AS CITY ASSETS - PRIVATELY OWNED

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VALVE NO.	LOCATION	LINE SIZE	DATE OF INSTALLATION	AGE OF VALVE	USEFUL LIFE YEARS	REPLACE IN YEAR	REMAINING LIFE YEARS	PERCENT OF LIFE LEFT	PERCENT CONSUMED	CONDITION	WRITTEN CONSEQUENCE OF FAILURE	BACKUP PERCENT REDUNDANCY	PROBABILITY OF FAILURE 1-5	CONSEQUENCE OF FAILURE 1-5	CRITICAL FACTOR1-25	REPLACEMENT COST NEW VALVE	ANNUAL DEPRECIATION	ACCUMULATED DEPRECIATION	DEPRECIATED VALUE
NORTH 37TH ST 7	NORTH 37TH ST 7	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
NORTH 37TH ST 8	NORTH 37TH ST 8	12	2003	21	80	2083	59	74%	26%	2.0	LARGER AREA AFFECTED	50	1	2	2	$ 4,546	$57	$ 1,193	$3,353
MOORESHOUSE DR VALVE 1	MOORESHOUSE DR VALVE 1	8	1996	28	80	2076	52	65%	35%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 996	$1,850
MOORESHOUSE DR VALVE 2	MOORESHOUSE DR VALVE 2	8	1996	28	80	2076	52	65%	35%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 996	$1,850
MOORESHOUSE DR VALVE 3	MOORESHOUSE DR VALVE 3	8	1996	28	80	2076	52	65%	35%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 996	$1,850
MOORESHOUSE DR VALVE 4	MOORESHOUSE DR VALVE 4	8	1996	28	80	2076	52	65%	35%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 996	$1,850
MOORESHOUSE DR VALVE 5	MOORESHOUSE DR VALVE 5	8	1996	28	80	2076	52	65%	35%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 996	$1,850
110-020-105	30.0 BLK OF E MICH AVE	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1		0	$ 4,546	$57	$ 1,648	$2,898
005-020-3	BATTLE CREEK & BURGESS	8	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 1,032	$1,814
015-065-1	BLAKE & GRANT	8	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 1,032	$1,814
015-065-2	BLAKE & GRANT	8	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 1,032	$1,814
110-020-1	BURGESS & E MICH	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
110-105-1	E MICH & McCOLLUM	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
110-105-2	E MICH & McCOLLUM	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
EAST BATTLE CREEK 1	EAST BATTLE CREEK 1	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
	EAST BATTLE CREEK 2	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
045-1	GRANT & ELMWOOD	8	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 1,032	$1,814
MCCULLUM ST 1	MCCULLUM ST 1	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
MCCULLUM ST 2	MCCULLUM ST 2	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
MCCULLUM ST 3	MCCULLUM ST 3	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
MCCULLUM ST 4	MCCULLUM ST 4	12	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 4,546	$57	$ 1,648	$2,898
110-065-3	W MICH & GRANT	8	1995	29	80	2075	51	64%	36%	2.0	LARGER AREA AFFECTED	50	1	2	3	$ 2,846	$36	$ 1,032	$1,814
005-145-135-3	SHADOW LANE	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
110-005-1	BATTLE CREEK & PEARL	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
010-020-2	BECKWITH & BURGESS	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
015-090-1	BLAKE & KIMBERLY	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
015-145-1	BLAKE & S 35TH	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
015-170-1	BLAKE & WOODLARK	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
EAST BATTLE CREEK 1	EAST BATTLE CREEK 1	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
EAST BATTLE CREEK 2	EAST BATTLE CREEK 2	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
135-90-1	SHADOW LANE & KIMBERLY	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
135-90-2	SHADOW LANE & KIMBERLY	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
135-90-3	SHADOW LANE & KIMBERLY	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
140-015-110-1	WOODLARK & SHADOW LANE	8	1989	35	80	2069	45	56%	44%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
BLOCK 1	FIRE STATION SERVICE LINE	4	1985	39	80	2065	41	51%	49%	4.0	LARGER AREA AFFECTED	50	2	2	4	$ 2,846	$36	$ 1,245	$1,601
145-5-1	35TH FEEDINGNURSING HOME	4	1973	51	80	2053	29	36%	64%	6.0	FEEDS NURSING HOME	50	3	3	9	$ 2,205	$28	$ 1,075	$1,130
145-1-1	35TH ST	10	1973	51	80	2053	29	36%	64%	6.0	FEEDS NURSING HOME	50	3	3	9	$ 2,205	$28	$ 1,406	$799
145-2-1	35TH ST	10	1973	51	80	2053	29	36%	64%	6.0	FEEDS NURSING HOME	50	3	3	9	$ 4,546	$57	$ 2,898	$1,648
145-2-2	35TH ST	10	1973	51	80	2053	29	36%	64%	6.0	FEEDS NURSING HOME	50	3	3	9	$ 4,546	$57	$ 2,898	$1,648
145-4-1	35TH ST	10	1973	51	80	2053	29	36%	64%	6.0	FEEDS NURSING HOME	50	3	3	9	$ 4,546	$57	$ 2,898	$1,648
145-3-1	35TH ST APARTMENTS	6	1973	51	80	2053	29	36%	64%	6.0	FEEDS APT COMPLEX	50	3	3	9	$ 2,205	$28	$ 1,406	$799
060-020-1	BURGESS & GAIL	6	1973	51	80	2053	29	36%	64%	6.0	LARGER AREA AFFECTED	50	3	2	6	$ 2,205	$28	$ 1,406	$799
105-005-110	EAGLE DRIVE	6	1973	51	80	2053	29	36%	64%	6.0	LARGER AREA AFFECTED	50	3	2	6	$ 2,205	$28	$ 1,406	$799
130-010-110-1	NORMS PLACE	4	1963	61	80	2043	19	24%	76%	6.0	LARGER AREA AFFECTED	50	3	2	7	$ 2,205	$28	$ 1,681	$524
120-187-1	187 NEW STREET	4	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
120-187-2	188 NEWS STREET	4	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
145-005-015-1	35THIN FRT OF 411	8	1958	66	80	2038	14	18%	83%	8.0	FEEDS NURSING HOME	50	4	3	12	$ 2,846	$36	$ 2,348	$498
005-110-120-1	BATTLE CREEK & STOP&SHOP	6	1958	66	87	2045	21	24%	76%	6.0	LARGER AREA AFFECTED	50	3	2	7	$ 2,205	$25	$ 1,673	$532
005-145-135-1	SHADOW LANE	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
005-145-135-2	SHADOW LANE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-020-1	BATTLE CREEK & BURGESS	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
005-020-2	BATTLE CREEK & BURGESS	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-020-4	BATTLE CREEK & BURGESS	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
005-115-1	& PEARL	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-115-2	& PEARL	4	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-055-1	BATTLE CREEK & FULLERTON	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-055-2	BATTLE CREEK & FULLERTON	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-075-1	BATTLE CREEK & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-075-2	BATTLE CREEK & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386

VALVES FOR WATER DISTRIBUTION SYSTEM

CITY OF GALESBURG

2024

VALVES LOCATED IN TRAILER PARK NOT COUNTED AS CITY ASSETS - PRIVATELY OWNED

1-GOOD
10-UNUSEABLE

1 - UNLIKELY
5 - LIKELY

1 - INSIGNIFICANT
5 - DISASTER

VALVE NO.	LOCATION	LINE SIZE	DATE OF INSTALLATION	AGE OF VALVE	USEFUL LIFE YEARS	REPLACE IN YEAR	REMAINING LIFE YEARS	PERCENT OF LIFE LEFT	PERCENT CONSUMED	CONDITION	WHITIN CONSEQUENCE OF FAILURE	BACKUP PERCENT REDUNDANCY	PROBABILITY OF FAILURE 1-5	CONSEQUENCE OF FAILURE 1-5	CRITICAL FACTOR 1-25	REPLACEMENT COST NEW VALVE	ANNUAL DEPRECIATION	ACCUMULATED DEPRECIATION	DEPRECIATED VALUE
005-075-3	BATTLE CREEK & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-120-1	BATTLE CREEK & NEW	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-120-3	BATTLE CREEK & NEW	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
110-005-2	BATTLE CREEK & PEARL	4	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-155-1	BATTLE CREEK & TOLAND	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
010-020-3	BECKWITH & BURGESS	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
010-065-1	BECKWITH & GRANT	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
015-055-3	BLAKE & FULLERTON	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
015-075-1	BLAKE & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
015-075-2	BLAKE & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
015-145-2	BLAKE & S 35TH	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
015-145-4	BLAKE & S 35TH	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
005-055-155-1	BATLE CREEK & SCHOOL	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
165-025-1	CENTER & WASHINGTON	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
165-025-2	CENTER & WASHINGTON	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
055-005-015 -1	FULLERTON ST 118 FULLERTON	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
085-080-1	HASTING & HAMILTON	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
085-040-2	HASTINGS & DIVISION	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
085-040-3	HASTINGS & DIVISION	10	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 4,546	$57	$ 3,750	$796
085-040-4	HASTINGS & DIVISION	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
095-020-040	MAPLE ST & ILLICK CT	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
1151	MILL ST & DEAD END	4	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
040-1	TOWER	8	1958	66	80	2038	14	18%	83%	8.0	FEEDS FROM WELL	50	4	3	12	$ 2,846	$36	$ 2,348	$498
040-3	TOWER	10	1958	66	80	2038	14	18%	83%	8.0	FEEDS FROM WELL	50	4	3	12	$ 4,546	$57	$ 3,750	$796
040-4	TOWER	8	1958	66	80	2038	14	18%	83%	8.0	FEEDS FROM WELL	50	4	3	12	$ 2,846	$36	$ 2,348	$498
130-010-110-1	PEARL ST	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
110-065-1	W MICH & GRANT	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
110-005-035-1	W MICHIGAN AVE BY MARKET	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
165-065-2	WASHINGTON & GRANT	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
165-065-3	WASHINGTON & GRANT	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
165-080-2	WASHINGTON & HAMILTON	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
165-080-4	WASHINGTON & HAMILTON	8	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,846	$36	$ 2,348	$498
105-005-110- 1	WEST MICHIGAN & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
105-005-110- 2	WEST MICHIGAN & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
105-005-110- 3	WEST MICHIGAN & GROVE	6	1958	66	80	2038	14	18%	83%	8.0	LARGER AREA AFFECTED	50	4	2	8	$ 2,205	$28	$ 1,819	$386
005-120-2	BATTLE CREEK & NEW	4	1948	76	80	2028	4	5%	95%	8.0	LARGER AREA AFFECTED	50	4	2	9	$ 2,205	$28	$ 2,095	$110
TOTALS								50%								$ 447,239	$ 5,851	$ 57,179	$252,476

CITY OF GALESBURG
2016

NUMBER OF CURB STOPS	792
ESTIMATED AVERAGE COST PER STOP	$1,063
TOTAL ESTIMATED VALUE CURB STOPS	$841,896

City of Galesburg Michigan

Water System Asset Management Program

Executive Summary

March 2024

This report contains the asset management program for the City of Galesburg's water system.

Conclusion

The City has approximately $986,838 dollars in the bank that belong to the water system.

The equipment replacement and rehabilitation annual funding levels are based on anticipated expenses for the equipment listed in the program. These anticipated expenses are based on the past maintenance history of this equipment. The better and more accurate the maintenance records are the more accurate and realistic the future anticipated replacement and rehabilitation cost will be. It is therefore recommended that the City continue to track the maintenance of the water system equipment and strive to improve the record keeping procedures. Better records equal a better asset management plan as well as increased reliability of the water system.

One of the purposes of an asset management program is to identify critical assets. One question to ask is "Do we have enough money in the bank to pay for the replacement of our most expensive critical asset if it failed tomorrow?" What if it failed in the same year that the most expensive maintenance project was taking place, (painting of the water storage tank)? While no community can predict tomorrow's unforeseen expenses it is important for a water system to be prepared for a "worst case scenario." It is better to have what might appear to be more money than necessary in the reserve accounts than not having enough money to make an emergency repair.

Notes pertaining to this report.

Replacement money reserved annually for equipment replacement is calculated using the replacement cost divided by the life of the equipment. Not the years of life remaining. The current reserve funds are sufficient to make up the difference between the life of the equipment and the years remaining. The rehab money reserved annually is calculated using the rehab cost divided by the years between rehabilitations. Again, not the years until the next rehab. The current reserve funds are sufficient to make up the difference between "years between rehab" and years to next rehab.

If a piece of equipment is replaced or rehabbed every five years the program automatically calculates this cost into the budget every five years with a five percent annual cost of living added in for each year. This higher annual cost of living is higher than usual due to the unusually high inflation rates in recent years.

The list of assets included in this evaluation are as listed below.

Water mains

Water Storage Tower

Wells that produce the water

Valves located on the water mains

Fire hydrants located within the water distribution system

Maintenance cost of the existing equipment in the system

It includes everything excluding the land, or property in which the assets are located.

For the above listed assets we have assigned the following values

WATER SYSTEM ASSETS ESTIMATED VALUE

	REPLACEMENT COST	AVERAGE PERCENT OF LIFE LEFT
WATER DISTRIBUTION MAINS	$13,418,920	59%
WATER DISTRIBUTION VALVES	$447,239	50%
FIRE HYDRANTS	$924,096	48%
WELLS, STORAGE, METERS, CURB STOPS ETC	$3,277,746	54%
TOTALS	**$18,068,001**	**53%**

A detailed list of these items is located within this report.

An asset management program also budgets for major maintenance expenses of the existing assets in the water system. Items that fall within this category would be the well pumps that pump water from the wells to the water system. The program budgets the rehabilitation of a well pump and the replacement of this pump with a new pump when the existing pump reaches the point of failure and rehabilitation is not an option.

These items are budgeted based on the past maintenance history of each item. Maintenance history is often supplemented with inspection reports from maintenance contractors.

Painting of the water tower would also fall into this major maintence category along with items like inspecting the water tower every five years. For example, a water tower is typically inspected every five years. If the cost is $5,000, then this money is collected over a five-year period, so when the inspection takes place the money is sitting in the bank ready to pay for the inspection. Several other major

maintenance items also fall into this category by the fact that they occur on an irregular basis and not on an annual basis that would be part of an annual budget.

The following table summarizes the annual reserve funding as calculated in the rate analysis program.

TYPE OF RESERVE FUND	ANNUAL FUNDING	STARTING BALANCE IN SAVINGS
EQUIPMENT REPLACEMENT 1	$50,000	$0
TOTAL MAINTENANCE RESERVE	$50,000	$0
CAPITAL IMPROVEMENT SUMMARY	$65,000	$ -
TOTAL SYSTEM IMPROVEMENT RESERVE	$65,000	$0
TOTAL ANNUAL RESERVE	**$115,000**	**$0**

A detailed list of these items is located within this report.

As is indicated in the above table the program calculated that $115,000 dollars per year could be put into the asset management program.

The capital improvement program was developed by the City's Engineer in 2024, some projects from the 2017 CIP that haven't been completed, as well as system deficiencies noted by City employees with the goal of saving a 5% - 10% down payment for most projects.

Critical Assets

While every water system has critical assets some are more critical than others. The City of Galesburg has identified the following critical assets.

Well 1 - and the related operational components

Well 2 - and the related operational components

Portable Standby Generator

Water Tower

Chlorine system

Various valves and water mains that feed the school, nursing home, water tower and wells.

These are the critical components of the water system. Yet at the same time there is some redundancy that provides a safety net so to speak. Each of the Wells is capable of running the entire water system under normal conditions. Each could supply the community with enough water under normal conditions although not indefinitely. The City has only one water tower. While the SCADA system

operates the entire system each of the pumps can be operated by hand. Each of these major components have many smaller components that are critical to the operation of it. However, for the purposes of this report we did not get into the extreme detail such as listing a fuse which may cost two dollars. Yet without it a well pump could cease to function.

This report contains the five core components in an Asset Management Program:

1) Asset Inventory

2) Level of Service

3) Critical Assets

4) Capital Improvement Plan

5) Revenue Structure

It is an inventory and assessment of operations-related fixed assets that belong to the water system and the scheduled financial funding to maintain, and replace as needed, including the financial funding of a Capital Improvement Program. Fixed assets are assets that are normally stationary (e.g., pumps, blowers, and buildings). The inventory and assessment shall be based on current conditions.

1) Asset Inventory

The Asset Inventory included in this report contains the following information

a) Brief description of the asset, its required capacity (e.g. pump: 120 gpm), level of redundancy for the asset.

b) Location of the asset;

c) Year the asset was installed;

d) Present condition of the asset (e.g. excellent, good, fair, poor);

e) Current asset (replacement) costs;

f) A "Business Risk Evaluation" that combines the probability of failure of the asset and criticality of the asset, as follows in (1)-(3):

> (1) Rate the probability of failure of the asset on a scale of 1-5 (low to high) using criteria such as maintenance history, failure history, and remaining percentage of useful life (or years remaining);
>
> (2) Rate the criticality of the asset on a scale of 1-5 (low to high) based on the consequence of failure versus the desired level of service for the facility; and
>
> (3) Compute the Business Risk factor of the asset by multiplying the failure rating from (1) by the criticality rating from (2) "plus" + ((1 - % Percent Redundancy Backup) x 10)

g) CRITICALITY Consequence of Failure

At the current time this is the rating system being used for “Criticality, Consequence of Failure” which comes from the MDEQ NPDES Wastewater Permit Asset Management Requirements.

Rating	Description	% Affected	Level
1	Minor Component Failure	0-25%	Asset
2	Major Component Failure	25-50%	Asset
3	Major Asset	0-25%	Asset
4	Multiple Asset Failure	25-50%	Facility / Sub-System
5	Major Facility Failure	50-100%	Facility

EXAMPLE:

If a "well pump" were to fail, the entire well is out of service, leaving the remaining wells to supply water. This could be listed as a # 3-5 depending on how many wells are needed for system demands.

If a single pump in a two-pump lift station were to fail this would most likely be a 2-3 as there is still one pump left and working.

If the control panel in a two-pump lift station failed and the entire pump station were down this would be a 4-5 rating

h) Probability of Failure (POF): FOR WATER MAINS AND VALVES

For this report Probability of Failure for water mains, and water valves is calculated by taking the average of:
Percent of life consumed (on a 1-5 scale)
Condition of item (on a 1-5 scale)
All items were converted to a 1-5 scale.

For all other items in this report the Probability of Failure is calculated by taking the average of the
Percent of life consumed (on a 1-5 scale)
Percent of life until next rehab (on a 1-5 scale)
Condition of item (on a 1-5 scale)
All items were converted to a 1-5 scale.

The POF can be set using the formula listed above or can be set manually using the guidelines below.

Per EGLE Guidelines - Probability of failure is rated as follows.

Imminent	5	Likely to occur in the life of the item	Continuously experienced
Probable	4	Will occur several times in the life of an item	Will occur frequently
Occasional	3	Likely to occur sometime in the life of an item	Will occur a few times
Remote	2	Unlikely but possible to occur in the life of an item	Unlikely, but can reasonably be expected to occur
Improbable	1	So unlikely, it can be assumed occurrence may not be experienced	Unlikely to occur, but possible

The following is a quote from the EGLE Asset Management Guide.
To determine the probability of failure a utility needs to look at a number of factors: asset age, condition of asset, failure history, historical knowledge, experiences with that type of asset in general, maintenance records, and knowledge regarding how that type of asset is likely to fail. Below is an example of a ranking system for probability of failure

2) Level of Service (LOS)

Level of Service (LOS) defines the way in which the utility stakeholders want the utility to perform over the long term. The LOS plan was completed for the City of Galesburg and should become a fundamental part of how the utility is operated, through the setting of practical goals for the City's water system.

3) Critical Assets

Critical Assets are those items within a community water system in which the water system would be difficult if not sometimes impossible to operate without. Such items could include a well, especially if it is the largest producing well and without it the remaining wells would struggle if not fail to supply enough water during high demand periods. This situation would put the water system in a "critical" situation in not only supplying drinking water but jeopardize the ability to fight a fire with City water. Another Critical Asset item might be a standby generator. Failure of the only alternative power source during a power outage could leave the City with no means of producing additional water. This situation would also put the water system in a "critical" situation for a variety of reasons.

This report identifies those assets that are critical to the operation of the water system, and the ability to provide safe quality drinking water to the residents of the community.

4) Capital Improvement Plan

A long-term Capital Improvement Plan (CIP) should look at the utility's needs for the future. Ideally, a planning period would be at least 20 years, with a minimum of 5 years. It is understood that the specific expenditures and needs of the utility in the latter years, say 15 to 20 years, are more speculative than the needs for the first 5 to 10 years, particularly the first 5 years. However, the inclusion of the needs for this longer time period will provide a better opportunity for the water system to plan for its capital

needs. Capital improvement projects are projects that the utility has an extended period of time to plan for and are projects that usually cover high cost, non-recurring items.

The Capital Improvement Fund is funded on an annual basis and the accumulated Capital Improvement Fund monies can be used to supplement bonding for the particular project, act as a down payment or cover the entire cost of the project as determined by the utility.

5) Revenue Structure

The Revenue Structure of this report contains the following items;

a) OM&R Budget and Rate Evaluation for the entire water system.

b) Amount in the replacement fund for current year and anticipated amount for upcoming years.

c) Replacement fund of all assets with a useful life of 25 years or less.

d) Expenditures for maintenance, corrective action, and capital improvements.

e) Rate calculation demonstrating sufficient revenues to cover OM&R expenses.

Replacement money reserved annually is calculated using the replacement cost divided by the life of the equipment. The rehab money reserved annually is calculated using the rehab cost divided by the years between rehabilitations. The current reserve funds are sufficient to make up the difference between life of the equipment and years remaining. The anticipated annual replacement and rehabilitation expenditures have a two percent cost of living added in for each year.