

Jamesville

2021 ▾

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1. System Information

Contact Information

Water System Name: **Jamesville** PWSID: **04-59-030**
 Mailing Address: **PO Box 215** Ownership: **Municipality**
Jamesville, NC 27846
 Contact Person: **Neal Lilley** Title: **Supervisor**
 Phone: **252-792-5006** Cell/Mobile: **252-809-2174**
 Secondary Contact: **Mike Houston** Phone: **919-812-6088**
 Mailing Address: **, NC 28525** Cell/Mobile: **--**

Complete

Distribution System

Line Type	Size Range (Inches)	Estimated % of Lines
Asbestos Cement	12	2.00 %
Polyvinyl Chloride	2-12	98.00 %

What are the estimated total miles of distribution system lines? **8 Miles**

How many feet of distribution lines were replaced during 2021? **0 Feet**

How many feet of new water mains were added during 2021? **0 Feet**

How many meters were replaced in 2021? **6**

How old are the oldest meters in this system? **50 Year(s)**

How many meters for outdoor water use, such as irrigation, are not billed for sewer services? **0**

What is this system's finished water storage capacity? **0.1000 Million Gallons**

Has water pressure been inadequate in any part of the system since last update? *Line breaks that were repaired quickly should not be included.* **No**

Programs

Does this system have a program to work or flush hydrants? **Yes, Semi-Annually**

Does this system have a valve exercise program? **Yes, Annually**

Does this system have a cross-connection program? **No**

Does this system have a program to replace meters? **Yes**

Does this system have a plumbing retrofit program? **No**

Does this system have an active water conservation public education program? **No**

Does this system have a leak detection program? **Yes**

As employees ride throughout the system they are looking for leaks and monitor the meter at the water facility. The Town also utilizes NCRWA for leak detection on an as needed bases.

Water Conservation

What type of rate structure is used? **Flat/Fixed**

How much reclaimed water does this system use? **0.0000 MGD** For how many connections? **0**

Does this system have an interconnection with another system capable of providing water in an emergency? **No**

Martin County Water System is 3 miles away across Gardner Creek from town.

2. Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
Roanoke River (14-1)	100 %	Martin	100 %

What was the year-round population served in 2021? **438**

Has this system acquired another system since last report? **No**

Water Use by Type

Type of Use	Metered Connections	Metered Average Use (MGD)	Non-Metered Connections	Non-Metered Estimated Use (MGD)
Residential	148	0.0164	0	0.0000
Commercial	14	0.0040	0	0.0000
Industrial	3	0.0016	0	0.0000
Institutional	10	0.0005	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? **0.0046 MGD**

3. Water Supply Sources

Monthly Withdrawals & Purchases

Average Daily Use (MGD)	Max Day Use (MGD)	Average Daily Use (MGD)	Max Day Use (MGD)	Average Daily Use (MGD)	Max Day Use (MGD)
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Jan	0.0274	May	0.0299	Sep	0.0326
Feb	0.0294	Jun	0.0304	Oct	0.0324
Mar	0.0296	Jul	0.0319	Nov	0.0321
Apr	0.0298	Aug	0.0312	Dec	0.0343



Ground Water Sources

Name or Number	Average Daily Withdrawal (MGD)		Max Day Withdrawal (MGD)	12-Hour Supply (MGD)	CUA Reduction	Year Offline	Use Type
	MGD	Days Used					
Well 1	0.0309	365		0.1440	CUA0		Regular
Well 2	0.0000	0		0.1220	CUA0		Emergency

Ground Water Sources (continued)

Name or Number	Well Depth (Feet)	Casing Depth (Feet)	Screen Depth (Feet)		Well Diameter (Inches)	Pump Intake Depth (Feet)	Metered?
			Top	Bottom			
Well 1	200	120	120	192	8	100	Yes
Well 2	200	130	130	197	8	40	No

Are ground water levels monitored? **Yes, Weekly**
 Does this system have a wellhead protection program? **Yes**

Water Treatment Plants

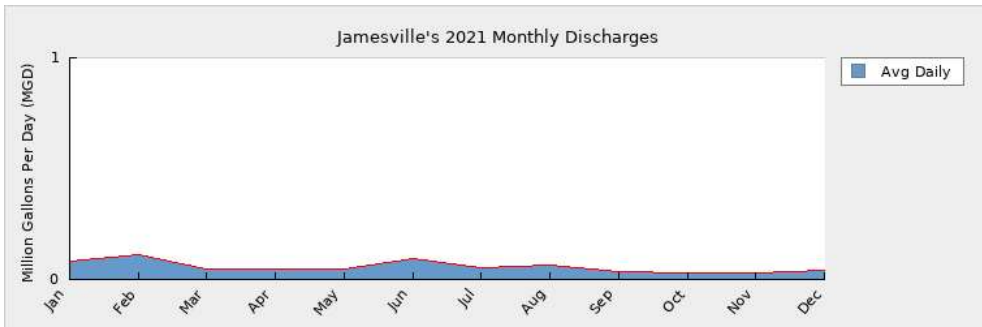
Plant Name	Permitted Capacity (MGD)	Is Raw Water Metered?	Is Finished Water Output Metered?	Source
Jamesville Water Plant	0.1000	No	Yes	Groundwater

Did average daily water production exceed 80% of approved plant capacity for five consecutive days during 2021? **No**
 If yes, was any water conservation implemented? **No**
 Did average daily water production exceed 90% of approved plant capacity for five consecutive days during 2021? **No**
 If yes, was any water conservation implemented? **No**
 Are peak day demands expected to exceed the water treatment plant capacity in the next 10 years? **No**

4. Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.0803	May	0.0466	Sep	0.0382
Feb	0.1121	Jun	0.0952	Oct	0.0319
Mar	0.0445	Jul	0.0510	Nov	0.0307
Apr	0.0458	Aug	0.0624	Dec	0.0390



How many sewer connections does this system have? **193**
 How many water service connections with septic systems does this system have? **2**
 Are there plans to build or expand wastewater treatment facilities in the next 10 years? **No**

No official plans as of yet, however the Town may be seeking grant funding in the near future for possible upgrades.

Wastewater Permits

Permit Number	Permitted Capacity (MGD)	Design Capacity (MGD)	Average Annual Daily Discharge (MGD)	Maximum Day Discharge (MGD)	Receiving Stream	Receiving Basin
NC0035858	0.1500	0.1500	0.0560		Roanoke River	Roanoke River (14-1)

5. Planning

Projections

	2021	2030	2040	2050	2060	2070
Year-Round Population	438	518	474	437	402	371
Seasonal Population	0	0	0	0	0	0
Residential	0.0164	0.0194	0.0177	0.0163	0.0150	0.0138
Commercial	0.0040	0.0047	0.0043	0.0040	0.0037	0.0034
Industrial	0.0016	0.0019	0.0017	0.0016	0.0015	0.0014
Institutional	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
System Process	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046
Unaccounted-for	0.0038	0.0044	0.0040	0.0038	0.0035	0.0033

Demand v/s Percent of Supply

	2021	2030	2040	2050	2060	2070
Surface Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ground Water Supply	0.1440	0.1440	0.1440	0.1440	0.1440	0.1440
Purchases	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	0.1440	0.1440	0.1440	0.1440	0.1440	0.1440
Service Area Demand	0.0309	0.0355	0.0328	0.0308	0.0288	0.0270
Sales	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Future Sales		0.0000	0.0000	0.0000	0.0000	0.0000
Total Demand (MGD)	0.0309	0.0355	0.0328	0.0308	0.0288	0.0270
Demand as Percent of Supply	21%	25%	23%	21%	20%	19%



The purpose of the above chart is to show a general indication of how the long-term per capita water demand changes over time. The per capita water demand may actually be different than indicated due to seasonal populations and the accuracy of data submitted. Water systems that have calculated long-term per capita water demand based on a methodology that produces different results may submit their information in the notes field.

Your long-term water demand is **37** gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. conduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered elsewhere in your plan, indicate where the practices are discussed here.

Are there other demand management practices you will implement to reduce your future supply needs?

What supplies other than the ones listed in future supplies are being considered to meet your future supply needs?

How does the water system intend to implement the demand management and supply planning components above?

Additional Information

Has this system participated in regional water supply or water use planning? **Yes, Yes, CCPCUA**

What major water supply reports or studies were used for planning? **CCPCUA**

Please describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ability to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance issues: **Radio read meters, new treatment facility, and distribution upgrades are needed.**

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