

The Division of Water Resources (DWR) provides the data contained within this Local Water Supply Plan (LWSP) as a courtesy and service to our customers. DWR staff does not field verify data. Neither DWR, nor any other party involved in the preparation of this LWSP attests that the data is completely free of errors and omissions. Furthermore, data users are cautioned that LWSPs labeled **PROVISIONAL** have yet to be reviewed by DWR staff. Subsequent review may result in significant revision. Questions regarding the accuracy or limitations of usage of this data should be directed to the water system and/or DWR.

System Information

Contact Information

Water System Name: **Lowell** PWSID: **01-36-060**
 Mailing Address: **101 W. First St. Lowell, NC 28098** Ownership: **Municipality**
 Contact Person: **Thomas Shrewsbury** Title: **ORC**
 Phone: **704-824-1072** Cell/Mobile: **980-241-4410**

Provisional

Distribution System

Line Type	Size Range (Inches)	Estimated % of lines
Asbestos Cement	6-12	2.00 %
Cast Iron	6-12	20.00 %
Ductile Iron	6-12	15.00 %
Galvanized Iron	2	38.00 %
Polyvinyl Chloride	2"-12	25.00 %

What are the estimated total miles of distribution system lines? **33 Miles**
 How many feet of distribution lines were replaced during 2023? **0 Feet**
 How many feet of new water mains were added during 2023? **3,400 Feet**
 How many meters were replaced in 2023? **8**
 How old are the oldest meters in this system? **25 Year(s)**
 How many meters for outdoor water use, such as irrigation, are not billed for sewer services? **112**
 What is this system's finished water storage capacity? **0.6000 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, Annually**
 Does this system have a valve exercise program? **No, As Needed**
 Does this system have a cross-connection program? **Yes**
 Does this system have a program to replace meters? **Yes**
 Does this system have a plumbing retrofit program? **Yes**
 Does this system have an active water conservation public education program? **Yes**
 Does this system have a leak detection program? **No**

Water Conservation

What type of rate structure is used? **Decreasing Block**
 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? **Yes**

Water Use Information

Service Area

Sub-Basin(s)	% of Service Population	County(s)	% of Service Population
South Fork Catawba River (03-2)	100 %	Gaston	100 %

What was the year-round population served in 2023? **3,816**

System Map: [download](#) 

Was 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	1,581	0.3030	0	0.0000
Commercial	116	0.0418	0	0.0000
Industrial	0	0.0000	0	0.0000
Institutional	3	0.0229	0	0.0000

How much water was used for system processes (backwash, line cleaning, flushing, etc.)? **0.0100 MGD**

Water Sales

Purchaser	PWSID	Average Daily Sold (MGD)	Days Used	Contract MGD	Contract Expiration	Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
McAdenville	01-36-045	0.0000	365			No	No	12	Regular

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)
Jan	0.4190		May	0.3420		Sep	0.3940	
Feb	0.3440		Jun	0.3650		Oct	0.3860	
Mar	0.3490		Jul	0.3400		Nov	0.3760	
Apr	0.3600		Aug	0.3730		Dec	0.3870	

Water Purchases From Other Systems

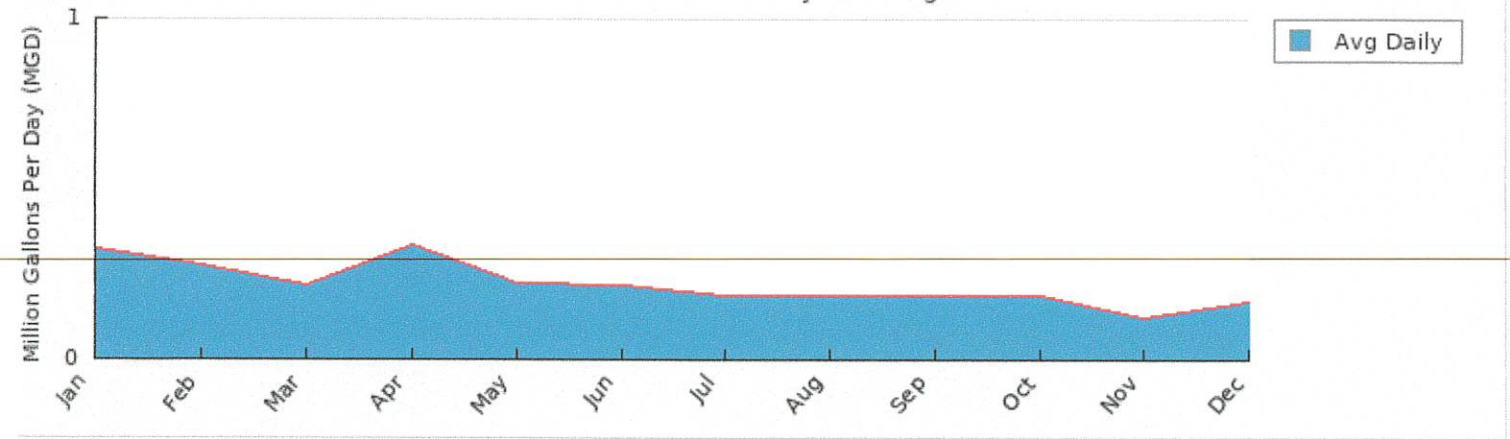
Seller	PWSID	Average Daily Purchased (MGD)	Days Used	MGD	Contract Expiration	Recurring	Required to comply with water use restrictions?	Pipe Size(s) (Inches)	Use Type
Two Rivers Utilities	01-36-010	0.4080	365	0.6000	2029	Yes	Yes	12	Emergency

Wastewater Information

Monthly Discharges

	Average Daily Discharge (MGD)		Average Daily Discharge (MGD)		Average Daily Discharge (MGD)
Jan	0.3240	May	0.2260	Sep	0.1890
Feb	0.2770	Jun	0.2200	Oct	0.1870
Mar	0.2170	Jul	0.1900	Nov	0.1230
Apr	0.3370	Aug	0.1890	Dec	0.1730

Lowell's 2023 Monthly Discharges



How many sewer connections does this system have? **1,675**

How many water service connections with septic systems does this system have? **107**

Are there plans to build or expand wastewater treatment facilities in the next 10 years? **Yes**

Currently considering a merge with Two Rivers Utilities

Wastewater Permits

Permit Number	Type	Permitted Capacity (MGD)	Design Capacity (MGD)	Average Annual Daily Discharge (MGD)	Maximum Day Discharge (MGD)	Receiving Stream	Receiving Basin
NC0025861	WWTP	0.6000	0.6000	0.3960	0.2200	South Fork of Catawba River	South Fork Catawba River (03-2)

Planning

Projections

	2023	2030	2040	2050	2060	2070
Year-Round Population	3,816	0	4,150	4,325	4,565	4,798
Seasonal Population	0	0	0	0	0	0
Residential	0.3030	0.3180	0.3430	0.3700	0.3960	0.4190
Commercial	0.0418	0.0420	0.0440	0.0470	0.0490	0.0510
Industrial	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Institutional	0.0229	0.0250	0.0290	0.0340	0.0400	0.0480
System Process	0.0100	0.0170	0.0190	0.0220	0.0250	0.0280
Unaccounted-for	0.0303	0.0000	0.0000	0.0000	0.0000	0.0000

Demand v/s Percent of Supply

	2023	2030	2040	2050	2060	2070
Surface Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ground Water Supply	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Purchases	0.4080	0.4080	0.4080	0.4080	0.4080	0.4080
Future Supplies		0.0000	0.0000	0.0000	0.0000	0.0000
Total Available Supply (MGD)	0.4080	0.4080	0.4080	0.4080	0.4080	0.4080
Service Area Demand	0.4080	0.4020	0.4350	0.4730	0.5100	0.5460
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)	0.4080	0.4020	0.4350	0.4730	0.5100	0.5460
Demand as Percent of Supply	100%	99%	107%	116%	125%	134%



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 methodology that produces different results may submit their information in the notes field.

ur long-term water demand is **79** gallons per capita per day. What demand management practices do you plan to implement to reduce the per capita water demand (i.e. nduct regular water audits, implement a plumbing retrofit program, employ practices such as rainwater harvesting or reclaimed water)? If these practices are covered sewhere in your plan, indicate where the practices are discussed here. **Water audits and leak detection.**

e there other demand management practices you will implement to reduce your future supply needs? **Water leak and loss detection. More efficient systems and ccesses.**

hat supplies other than the ones listed in future supplies are being considered to meet your future supply needs? **New pipe replacement and meter audits.**

ow does the water system intend to implement the demand management and supply planning components above? **Five year planning and grant applications.**

Additional Information

is this system participated in regional water supply or water use planning? **No**

hat major water supply reports or studies were used for planning?

ase describe any other needs or issues regarding your water supply sources, any water system deficiencies or needed improvements (storage, treatment, etc.) or your ility to meet present and future water needs. Include both quantity and quality considerations, as well as financial, technical, managerial, permitting, and compliance ues:

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