

County of Louisa
Monthly Report



Louisa County Water Authority
February 2026



Background/History:

Louisa County Water Authority (LCWA) was created in 1968 by the Louisa County Board of Supervisors to engage in water and wastewater treatment in the County. The County has provided financial assistance as necessary since the Authority’s inception as LCWA works to build a sufficient user and revenue base.

LCWA is comprised of several separate subsystems:

- The Northeast Creek Water Treatment Plant produces water for the Towns of Louisa and Mineral as well as surrounding areas, and utilizes conventional treatment followed by Nanofiltration. This plant uses raw water from the Northeast Creek Reservoir; treated water is delivered via a distribution system which connects end users outside of the Towns as well as Town-managed distribution systems within the Towns.
- The Regional Wastewater Treatment Plant, which is owned by the Town of Louisa and the County and serves the same areas as the Northeast Creek Plant above. LCWA operates this system under contract.
- The Zion Crossroads water system consists of eight (8) potable production wells, and thirteen (13) monitoring wells and serves the Zion Crossroads/Fernclyff areas through a distribution system.
- The Zion Crossroads Wastewater Treatment Plant and collection system serves the same area as the Zion Crossroads Water System above.
- The Bowlers Mill raw water system is owned by the County and operated by LCWA to provide raw water to Old Dominion Electric Cooperative.
- The New Bridge System at Lake Anna provides water and wastewater services to the development area near Lake Anna on Rt. 208.

Projects, Maintenance and Action Items:

Northeast Creek Water Treatment Plant:

Decking around generator – Footers dug, concrete poured 01-04-2024	
Shower Replacement – acquiring quotes / estimates	
Continue to build critical inventory	
Security fencing around backwash tank	
Chlorination Maintenance	
PFAS Sampling	
Disinfection Byproducts – regain compliance	
Rapid mixer replacement	
Clear well cleaning – confined space entry	
Isolation valve replacement	
3 rd Nanofiltration skid	
Gate valve – discharge pit	
Backwash valve replacement	
Forklift	
Rebuild high service pumps	
VFDs	
Float control valve	
Rewash flow meters	
Filter flow meters	
Fit test for respirators	
Chemical spill containment area work	
Distilled water	
Raw line inserter valve	
Check valve at IDA	

Louisa Regional Wastewater Treatment Plant:

Water leak	
Wet Well Fall Protection	
Implementing Optimization Study recommendations underway	
Continue to build critical inventory	
Acid bath tank for UV bulb cleaning	

Auger for septage receiving station – budgetary price received – order placed	
Influent pump failure on Christmas Eve – possible warranty coverage	
Repair septage receiving flow reader – March – April before tech can do site visit	
Gear box bearing for rotor in ditch #3	
New Gorman Rupp T3 pump for old RAS building	
Replace cloth disc filters	
Belt press overhaul	
New Gorman Rupp pumps for old influent building	
New chain for grit collector	
UV overhaul	
Metal building for tractor	

Zion Crossroads Well System:

Negotiations with Fluvanna County on a rate to purchase water – agreement drafted	
Clean and paint Zion Crossroads Water Tank – interior	

Zion Crossroads WWTP:

Cut drainage ditch and regrade slope behind generator and lab building	
Asphalt seal coat – acquiring pricing	
Security gate – FY2026	
Equipment - Truck	
UV System upgrade – equipment is obsolete	
Replace Influent pumps within the next two years	
Truck FY2027	
Xylem vertical turbine pump for inventory	
Roof over UV to protect exposed equipment from elements	
Replace return activated sludge (RAS) motor	
Replace reuse and effluent pumps	

Dam work – Bowers Mill and Northeast Creek:

Bowers Mill – quote received, contract signed, funding is available – demo work complete	
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New Bridge Water / Sewer System:

Shoreline Sign – being evaluated	
Build critical inventory	
Upgrade design and PER underway – 95% plans review scheduled for late May 2026	
Upgrades to maintain consistent compliance - underway	
Pressure vessel inspection	COMPLETE
New effluent pump	
Spare HP air pump blowers	
Spare chemical feed pump	

Distribution / Collection System:

Commercial Meter Replacement – received ¾," 1," 1 ½," and 2" meters and ERTZ - ongoing	
Bush-hogging rights-of-way (preparing for smoke testing) - ongoing	
Smoke testing	
Replacing meter setters for UVA Dialysis and McDonald's	
St. Francis, Lagoon and High School pump station control panel replacement	
CTE Building at the High School	
Ferncliff water / sewer line extension – currently four boring crews are working	
Spring Creek Section L under construction – phase 1 complete – phase 2 under construction	
Crossing Point construction	
Pump Station preventative maintenance – significant repairs and replacement work will need to be completed	
Replace pumps & motors at St. Francis pump station	
Inline valves for Town of Mineral vault	
Truck for new maintenance employee FY2027	
Lagoon pump station waterline installation	
Walmart / Stonegate manhole top section replacement	
Maintenance shop	
Fire hydrant and air relief valve replacement (water and sewer)	
6" Godwin pump with lay flat hose and fittings	

Miscellaneous:

Utility Standards - underway	
Amazon	
Cybersecurity	
Safety Manual – rewrite / update	
Safety training	
Accounting Policies	
Regional Water Supply Planning	
American Water Infrastructure Act updates	
Asset Management / Mean time analysis	
Master Planning	

February Income & Expenditures:

The Authority’s O & M Expenditures exceeded O & M Revenues by \$114,398 for the month of February 2026. The Authority has a negative O & M cash flow of \$28,416 for FY2026 through February 28, 2026.

Capital Revenues exceed Capital Expenditures by \$742,096 for the month of February 2026. The Authority has a positive Capital cash flow of \$1,020,556 for FY2026 through February 28, 2026.

O & M and Capital Revenues together exceeded O & M and Capital Expenditures by \$627,698 for the month of February 2026. The Authority has a positive combined O & M and Capital cash flow of \$992,140 for FY2026 through February 28, 2026.

Fund Balance:

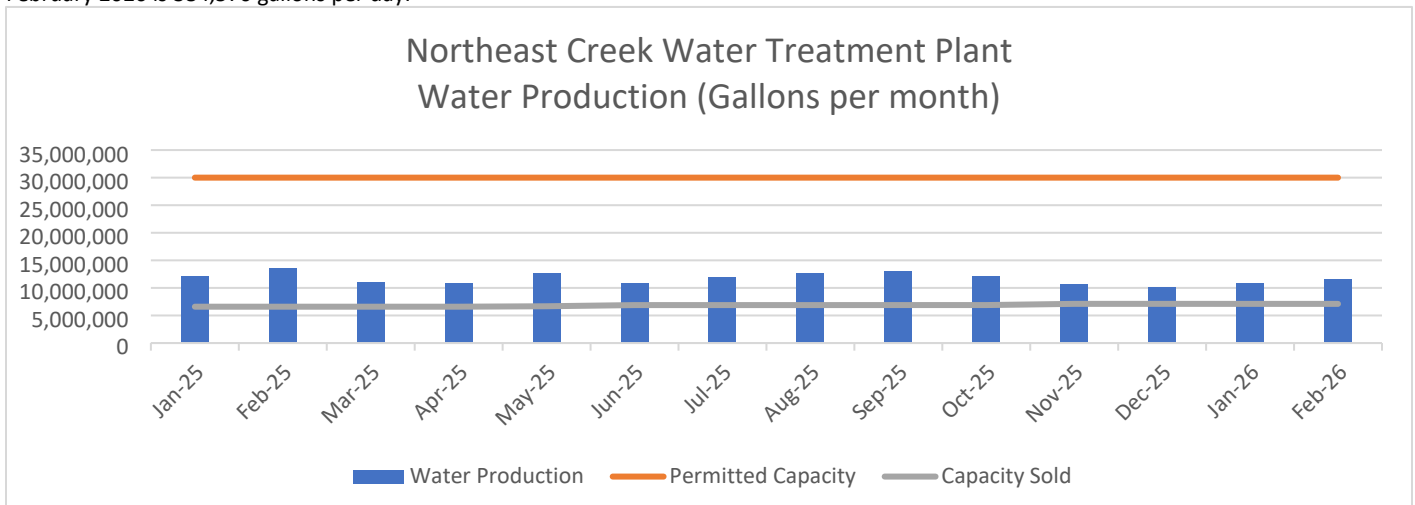
VIP Stable NAV Liquidity Pool	\$342,133
VIP 1-3 Year High Quality Bond	\$874,600
Total Reserve Fund Balance (\$742,352 of these funds are restricted and not available for use for O&M Expenditures)	\$1,216,733

Restricted funds we are obligated to have on hand: **Included in the fund balance**

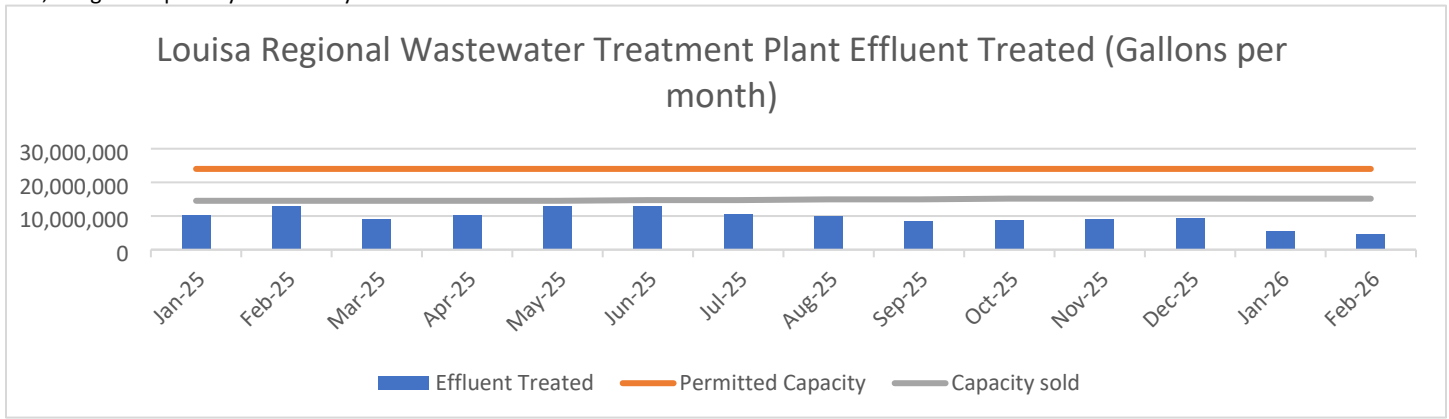
Customer Deposits	\$153,221
Accumulated Regional Sewer Connection Fees (restricted) less approved expenditures	\$528,352
Other Post-Employment Benefits	\$165,639

Production/Treatment Information:

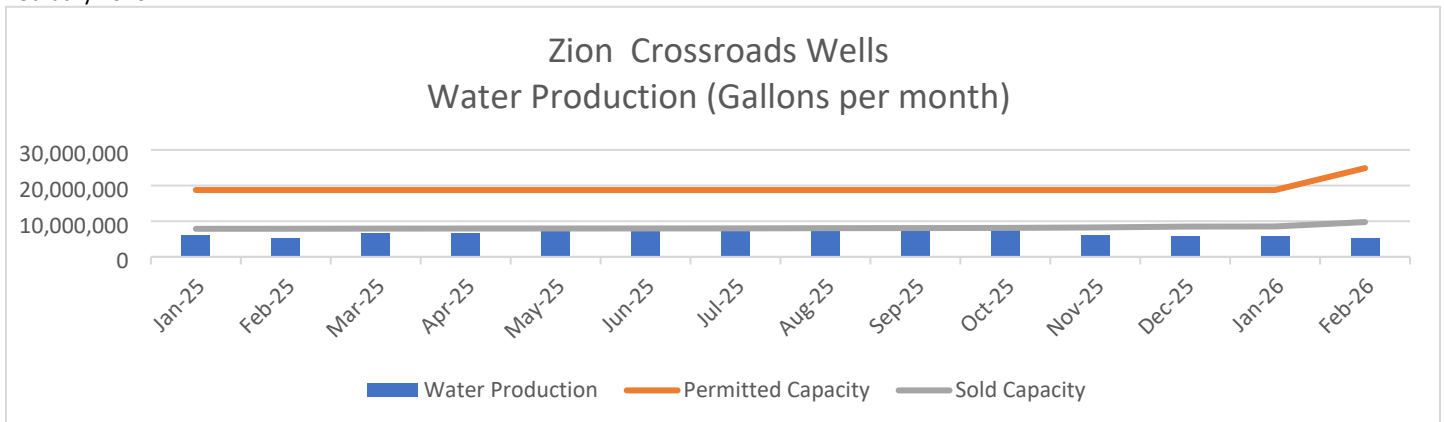
The permitted capacity sold is 236,800 gallons per day. The total permitted capacity is 1 million gallons per day. Average daily treatment in February 2026 is 384,570 gallons per day.



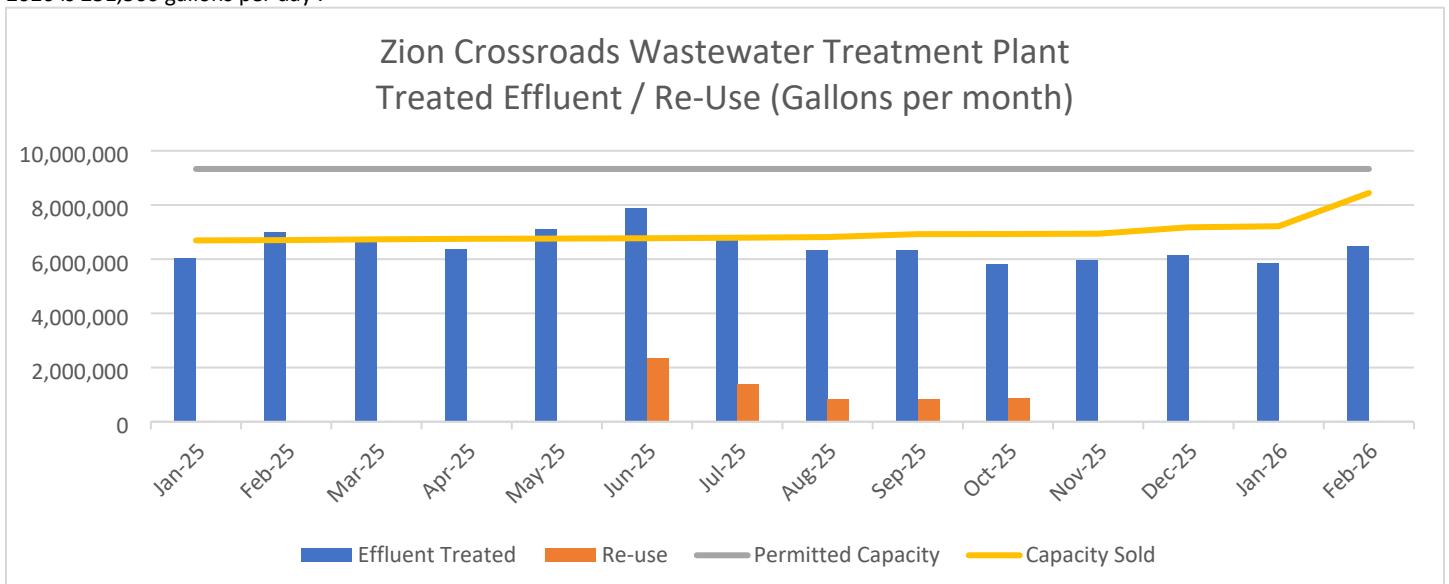
The permitted capacity sold or allocated is 505,330 gallons per day. The permitted capacity is 800,000 gallons per day. Average daily treatment 168,460 gallons per day in February 2026.



The permitted capacity sold or allocated is 325,330 gallons per day. The permitted capacity is 829,600 gallons per day. Average daily treatment 180,770 gallons per day in February 2026. Increase in permitted capacity because permit was updated to include Spring Creek Wells #1 & #2 in February 2026.



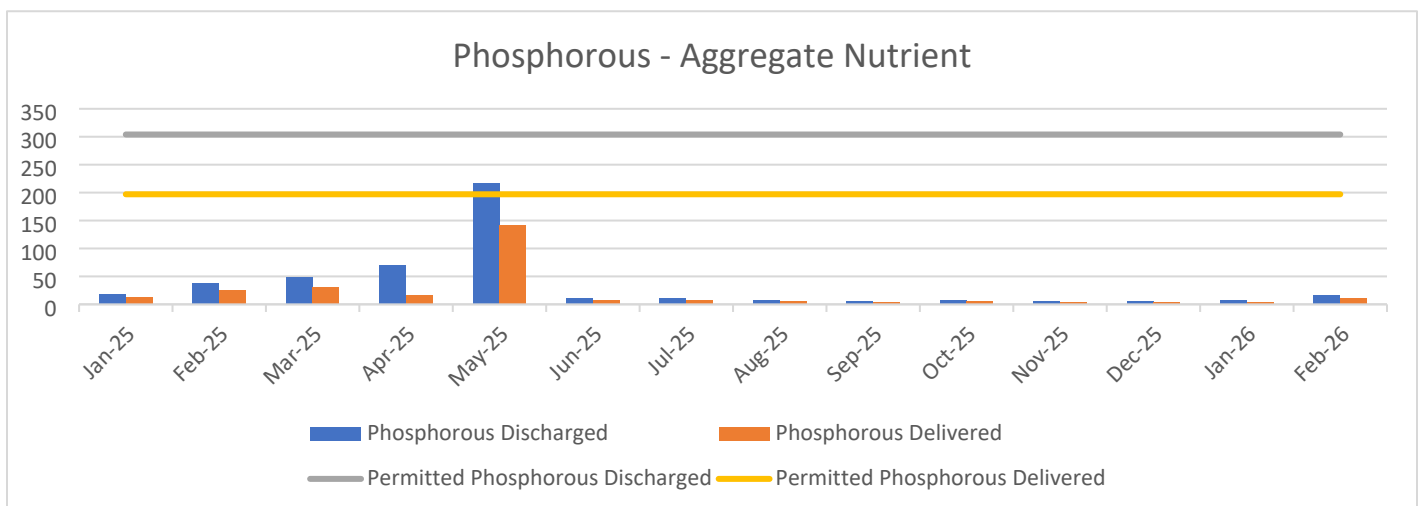
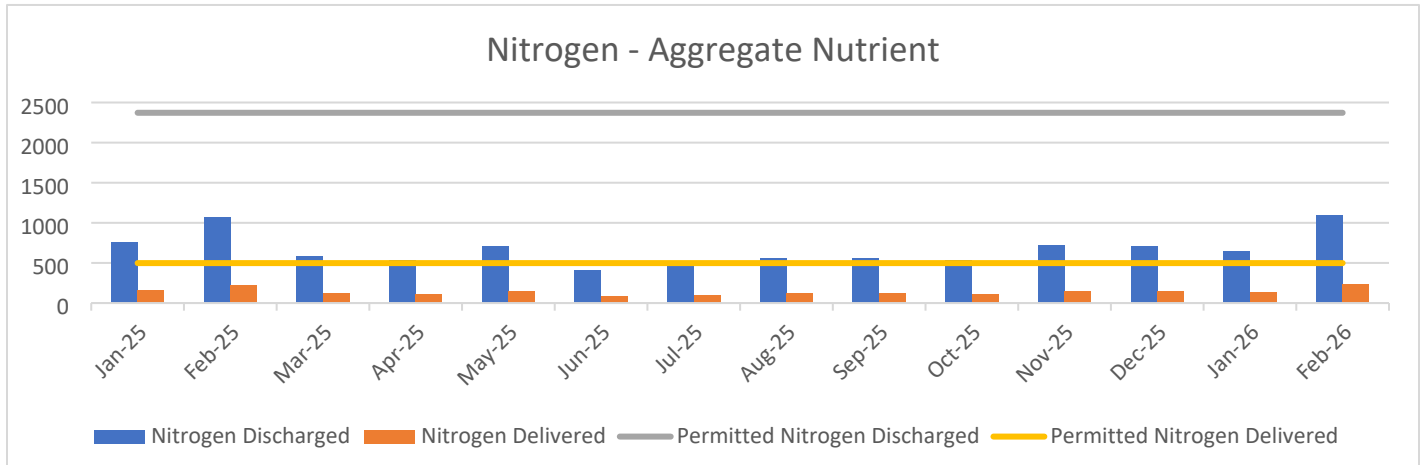
The permitted capacity sold is 281,470 gallons per day. The permitted capacity is 311,000 gallons per day. Average daily treatment in February 2026 is 231,360 gallons per day.



Nitrogen / Phosphorous:

Nitrogen and phosphorus are assigned limits on an aggregated Countywide basis which are set by the Department of Environmental Quality. Nitrogen and phosphorous each have a discharged limit (the amount discharged into the receiving stream) and a delivered limit (a calculation on the actual discharged amount that is delivered to the Chesapeake Bay).

In each graph below the gray line designates the permitted discharge amount; the blue column designates the actual discharged amount. The yellow line designates the permitted delivered amount; the orange column designates the actual delivered amount. In simplistic terms, the gray lines and blue columns go together, and the yellow lines and orange columns go together.



Total LCWA Connections:

Year	Number of Connections
2018	50
2019	26
2020	52
2021	64
2022	44
2023	38
2024	39
2025	52
2026*	26

*Through February 28, 2026