

REQUEST FOR BOARD ACTION

**HENDERSON COUNTY
BOARD OF COMMISSIONERS**

MEETING DATE: September 2, 2014

SUBJECT: City of Hendersonville Water and Sewer System Update

PRESENTER: John Connet, Hendersonville City Manager

ATTACHMENTS: Yes
1. PowerPoint presentation

SUMMARY OF REQUEST:

Hendersonville City Manager John Connet, and Utilities Director Lee Smith, will provide the Board with an update on the city's water and sewer system.

BOARD ACTION REQUESTED:

No specific Board action is requested. This presentation is for informational purposes only.

Suggested Motion(s):

No motion suggested.

Hendersonville

Water and Sewer System Update

John Connet, City Manager

Lee Smith, Utilities Director



Water System

- 619-miles of water mains.
- 26,446 - total water customers
- 514-miles of water mains are located outside of Hendersonville
- 19,041 - customers outside of Hendersonville (72% of total)
- 37-customers per mile of water main outside of Hendersonville

- 105- miles of water main inside Hendersonville.
 - 7,405- customers inside Hendersonville (28% total).
 - 70- customers per mile of water main inside Hendersonville.
- ❖ Largest water CIP (capital improvements plan) projects have been outside of Hendersonville.

Sewer System

- 152-miles of gravity sewer mains.
- 8,751 - total sewer customers
- 52-miles of sewer mains are located outside of Hendersonville
- 2,282 - customers outside Hendersonville (26% of total)
- 32-customers per mile of sewer main outside of Hendersonville

- 100-miles of sewer main inside of Hendersonville.
 - 6,469 - customers inside Hendersonville (74% total).
 - 65-customers per mile of water main inside Hendersonville.
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- ❖ Largest sewer CIP (capital improvements plan) projects have been inside of Hendersonville.

Treatment Facilities

Water Treatment Plant

- Current Daily Average Demand = 7.5-MGD (million gallons per day).
- Current daily treatment capacity is 12.0-MGD.
- Future expansion available up to 18.0-MGD (12.0-MGD from Mills River and 6.0-MGD from French Broad River; with an additional 12-MGD in capacity available from the FBR) with existing sources and infrastructure.

Wastewater Treatment Plant

- Current daily average flow is 3.0-MGD.
- Current daily treatment capacity is 4.8-MGD with a permit to expand to 6.0- MGD.
- Future expansion up to 9.0-MGD at current site.

Current Projects

Academy Road Water System Improvements

- Extending water services to over 70-residents, many of which had wells contaminated with Dieldrin.
- ~85% complete; will probably finish ahead of schedule.
- Estimated completion date – November 22, 2014.

Jackson Park Sewer Interceptor

- Project will eliminate largest sewer pump station and replaces a portion of old gravity sewer main.
- Estimated completion date – July 24, 2015.
- Project also includes:
 - ☐ ~4,800-lf of 30-inch gravity sewer.
 - ☐ ~7,800-lf of 36-inch gravity sewer.

Wolfpen Sewer Interceptor Project

- Adding future capacity to east side of sewer system.
- Estimated completion date – July 24, 2015.
- Project includes:
 - ❑ ~7,900-lf of 18-inch gravity sewer.
 - ❑ ~3,000-lf of 24-inch gravity sewer.
 - ❑ Elimination of 2 Hendersonville owned pump stations and one privately owned package treatment plant.

Shepherd Creek/ Atkinson Sewer Outfall

- Currently adding sewer service to Atkinson Elementary School and opening the area around Osceola Lake for future sewer expansion.
- Replacing a failing septic system at the school.
- Estimated completion date – June 17, 2015.

Shepherd Creek/ Atkinson Sewer Outfall, cont.

➤ Project includes:

- New sewer pump station at school.
- ~4,600-lf of 4-inch pressure sewer.
- ~1,600-lf of 8-inch gravity sewer.
- ~600-lf of 10-inch gravity sewer.
- ~9,600-lf of 12-inch gravity sewer.
- Elimination of 2 Hendersonville owned pump stations and one privately owned station.

Future Projects and Expansion Plans

- Etowah Water System Improvements – Expand water systems
- Water Distribution System Hydraulic Modeling- contract to complete a hydraulic model of the entire water distribution system partly funded by the Henderson County Fire and Rescue Association; to be awarded in September 2014.
- Fletcher Area Water System Improvements will be done in 2014.



Hendersonville Water and Sewer wants to be your regional water and sewer utility.

We Are Here For You!

Thank you for allowing us to join you!

John Connet, City Manager

jconnet@cityofhendersonville.org

Lee Smith, Utilities Director

lsmith@cityofhendersonville.org



Questions and Comments