



The City of Kannapolis Wastewater Collections System Annual Report Fiscal Year July 2023 - June 2024

Why Do We Publish This Report?

On July 21, 1999, North Carolina Governor James Hunt signed a law, House Bill 1160, requiring annual reports from municipalities that operate wastewater collection and treatment systems.

The annual reports inform system users of specific items such as the number of wastewater overflows, violations of permit conditions or environmental regulations. It also requires we report the impact of any such violations on the environment and corrective measures taken to minimize recurrences.

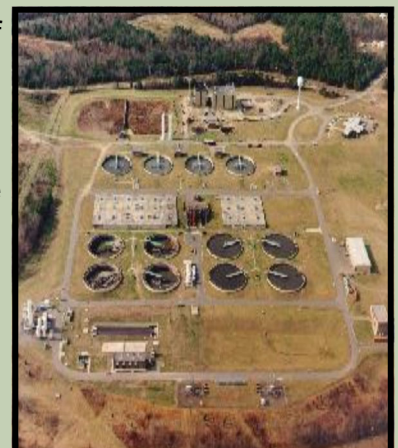
We have decided to inform you, the system user, not only of the required facts but of the stake each user has in this function and what you can do to help ensure its reliability.

The Treatment Process

The City of Kannapolis discharges its wastewater to the Water and Sewer Authority of Cabarrus County's (WSACC's) Rocky River Regional Wastewater Treatment Plant located in southern Cabarrus County.

The plant (NPDES Permit # NC0036269) has a treatment capacity of 26.5-million gallons per day (MGD) and uses a pure-oxygen activated sludge secondary treatment system that processes both domestic and industrial wastewater from both in-plant and off-site sources.

The solids processing operation relies on a combination of proven and cost effective technology available for the solids handling process.



The Wastewater Collection System

The City of Kannapolis's Wastewater Collection System was installed from the mid-1900's to the present. The system consists of approximately 336 miles of sewer pipelines and fifteen wastewater lift stations. The City of Kannapolis Public Works Department performs the operation and maintenance of the collection system that serves approximately 20,000 customers.

During our reporting year, our crews provided maintenance service to the system and its customers with professionalism and efficiency:



The Maintenance crew cleans the City's sewer system to limit the number of wastewater back-ups and overflows. A wastewater response crew responds to all calls related to potential blockages, customer back-ups and overflows within the collection system.



The Closed-Circuit TV Inspection crew uses a wheel-driven camera that records the interior of wastewater pipes to identify defects, obstructions, check effectiveness of the cleaning operations and inspects all new collection system extensions before the City accepts them for operation and maintenance.



The Pump Station crew maintains the City's fifteen wastewater lift stations. The crew performed 780 routine inspections and responded to 330 alarms at the lift stations this year.



The City's maintenance crew clears the wastewater collections system's outfalls within rights-of-way and performs semi-annual inspections of the system.



The City also has three crews that install new service connections, performs minor system expansions and provides repairs to existing wastewater infrastructure.

Contract services are utilized for the installation of any major wastewater collection system expansions, the replacement of aging deteriorating infrastructure, infrastructure inspections, and some routine outfall maintenance.

The City of Kannapolis' Engineering Staff assists collection crews by providing additional technical support to operations and periodic updates to system maps and construction drawings.

The City of Kannapolis has several construction projects underway to further enhance the level of service and quality of life to our citizens. In addition, we continually perform proactive maintenance to the collection system to prevent wastewater overflows.



The following maintenance was completed:

Manholes raised & upgraded:	18
Repairs to laterals:	29
Sewer main repairs:	4
Lateral blockages, unblocked & rodded:	523
Closed-circuit camera inspection (linear feet):	16,925
Cleanouts installed:	24
Sewer mains cleaned (linear feet):	273,866
Cleanout caps installed:	34

Collection System Overflows

The City of Kannapolis investigated approximately 721 possible municipal and private wastewater related back-ups and overflows during the fiscal year. The nineteen incidents listed below resulted in a spill or overflow of wastewater to the surface waters and were reported to the State. All locations were hydraulically cleaned up and down stream, debris was removed (if any) and were video inspected. The affected areas were flushed with fresh water, treated with lime, seeded, and straw was spread.

Incidents that were reported to the State: July 2022 - June 2023

7/24/2023:	912 Mcknight St.	Blockage from roots	(45Gallons)
8/14/2023:	2618 Millard Fuller Way	Blockage from FOG	(175 Gallons)
8/19/2023	Dakota St. Outfall line	Blockage from FOG	(6000 Gallons)
8/21/2023	2407 Forrest Brook	Lift Station Failure	(300 Gallons)
8/30/2023	5130 Northwest Drive	Blockage from roots	(450 Gallons)
8/31/2023	5130 Northwest Drive	Blockage from debris	(1020 Gallons)
9/28/2023	703 Mooresville Rd.	Paving operations	(60 Gallons)
12/5/2023	1016 Dakota St.	Blockage from roots	(85 Gallons)
1/05/2024	1025 Kanas St.	Blockage from roots	(300 Gallons)
1/08/2024	307 Cadillac Ave.	Struck by crew	(600 Gallons)
1/09/2024	269 Esther Circle	Heavy Rains	(11160 Gallons)
1/15/2024	400 East 23rd St.	Erosion damage	(5760 Gallons)
3/16/2024	609 Grant Ave.	Blockage from FOG	(600 Gallons)
3/26/2024	1012 Dakota St.	Blockage from debris	(30 Gallons)
4/19/2024	1529 Cripple Creek	Blockage from roots	(60 Gallons)
5/02/2024	1009 Sprucewood Ave.	Private line failure	(480 Gallons)
5/21/2024	1626 Eastwood Drive	Blockage from roots	(450 Gallons)
6/17/2024	1901 Concord Lake Rd.	Force main failure	(4133 Gallons)
6/27/2024	1108 Moss Ave	Blockage from roots	(600 Gallons)

TO PREVENT WASTEWATER OVERFLOWS

- **NEVER** put oils, liquid or solid greases, fatty meat, or other food scraps down a drain - even if you use a motorized garbage disposal.
 - **NEVER** put down a drain feminine products, cotton swabs, matchsticks, convenience wipes such as baby, hygienic, cleaning and disinfectant, as well as toilet bowl scrubbers and paper towels even if labeled as "disposable or flushable".
 - **NEVER** use hot water to melt grease so it will go down the drain easier.
 - **NEVER** flush any of the items listed above down a toilet.
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- **ALWAYS** keep grease out of wash water by wiping dishes with a disposable towel before washing.
 - **ALWAYS** remove solidified grease from kitchen utensils, equipment, wares and food preparation areas with scrapers or paper towels. Dispose of scrapings and towels in trash cans.
 - **ALWAYS** allow hot liquid grease to solidify and then dispose of properly.
 - **ALWAYS** place all food scraps in trash collection containers.
 - **ALWAYS** recycle restaurant grease by using contract rendering services and have grease traps cleaned and serviced frequently.
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- **REPORT** trucks discharging liquids or other substances into open municipal sewer manholes.
 - **REPORT** acts of vandalism on manholes, sewer lines, lift stations, hydrants and other structures.
 - **REPORT** illegal dumping of toxic, corrosive, or flammable substances into manholes, drains, or toilets.

REPORT SUCH INCIDENTS TO:

**City of Kannapolis Customer Service
(704) 920-4444**

PUBLISHED BY:

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1401 Bethpage Road
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**Phone: (704) 920-4444
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**Alex Anderson
Director of Water Resources**

**Copies of this report are available at
the following locations:**

**Customer Service Center
Kannapolis City Hall
401 Laureate Way
Kannapolis, NC 28081**

**This report may also be viewed on
the City's website at:**

www.kannapolisnc.gov



CERTIFICATION

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

Alex Anderson

Alex Anderson, Director of Water Resources

Date: July 22, 2024