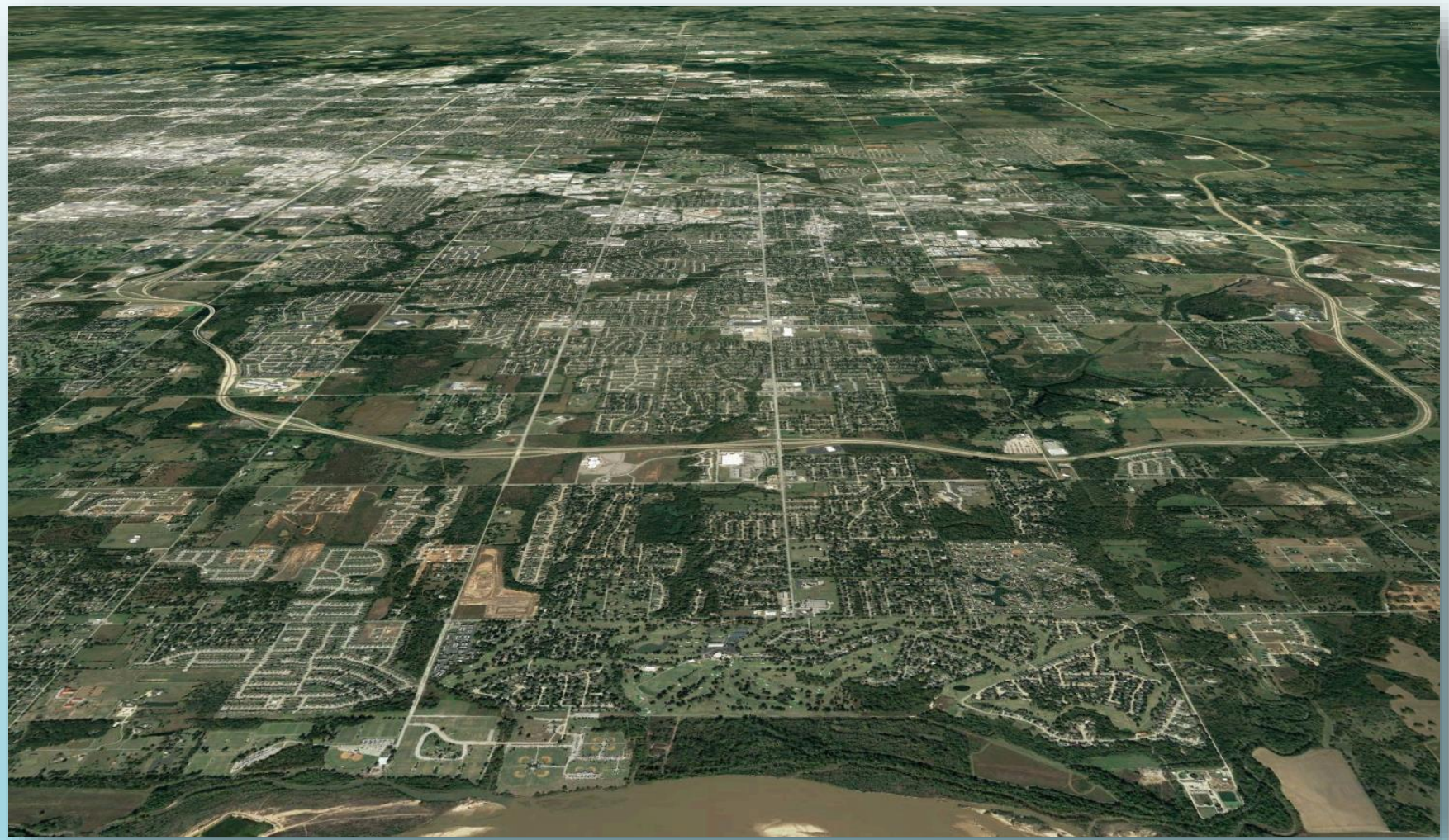




BROKEN ARROW  
*Municipal Authority*

# Adams Creek Wastewater System Feasibility Study

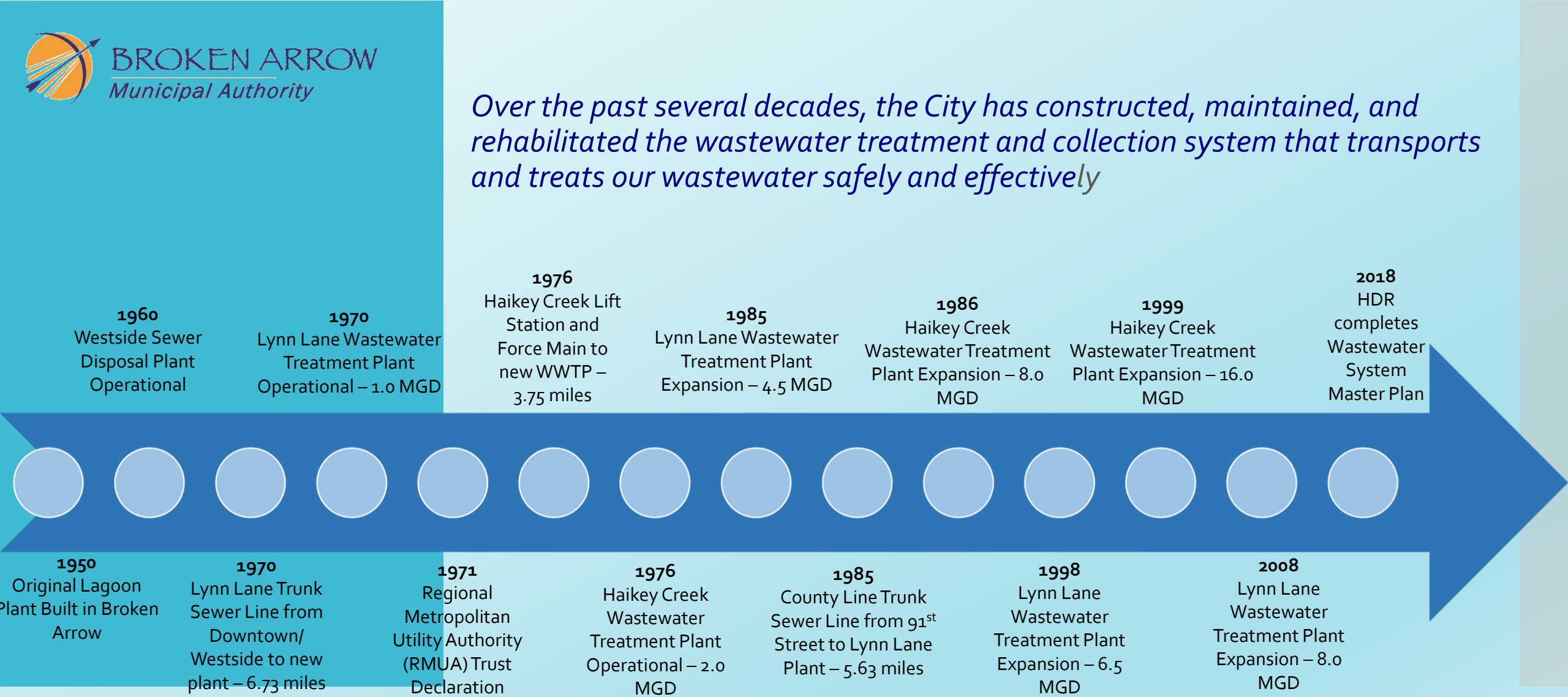


PLANNING FOR THE FUTURE

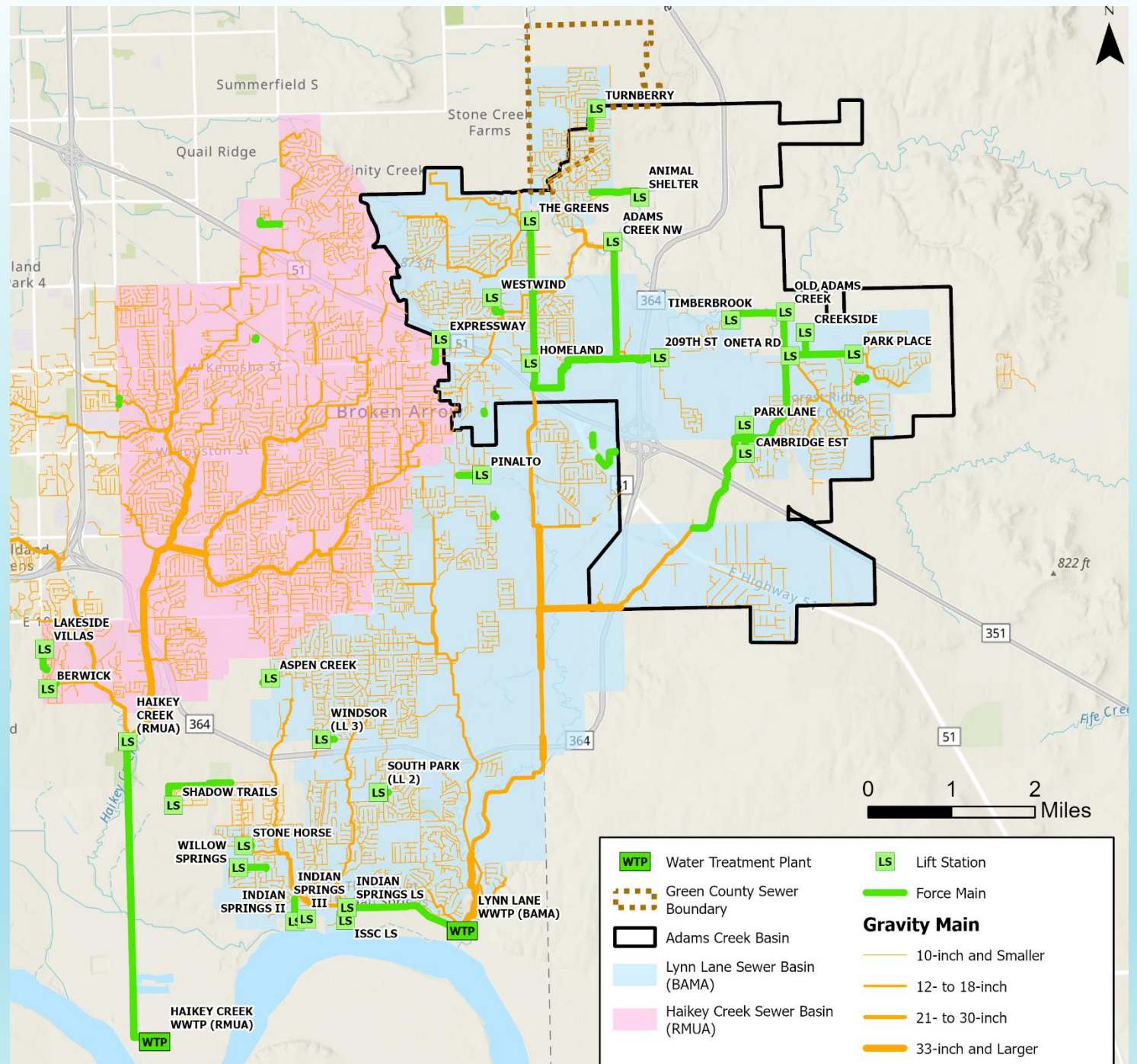
# A History of Dependable Service



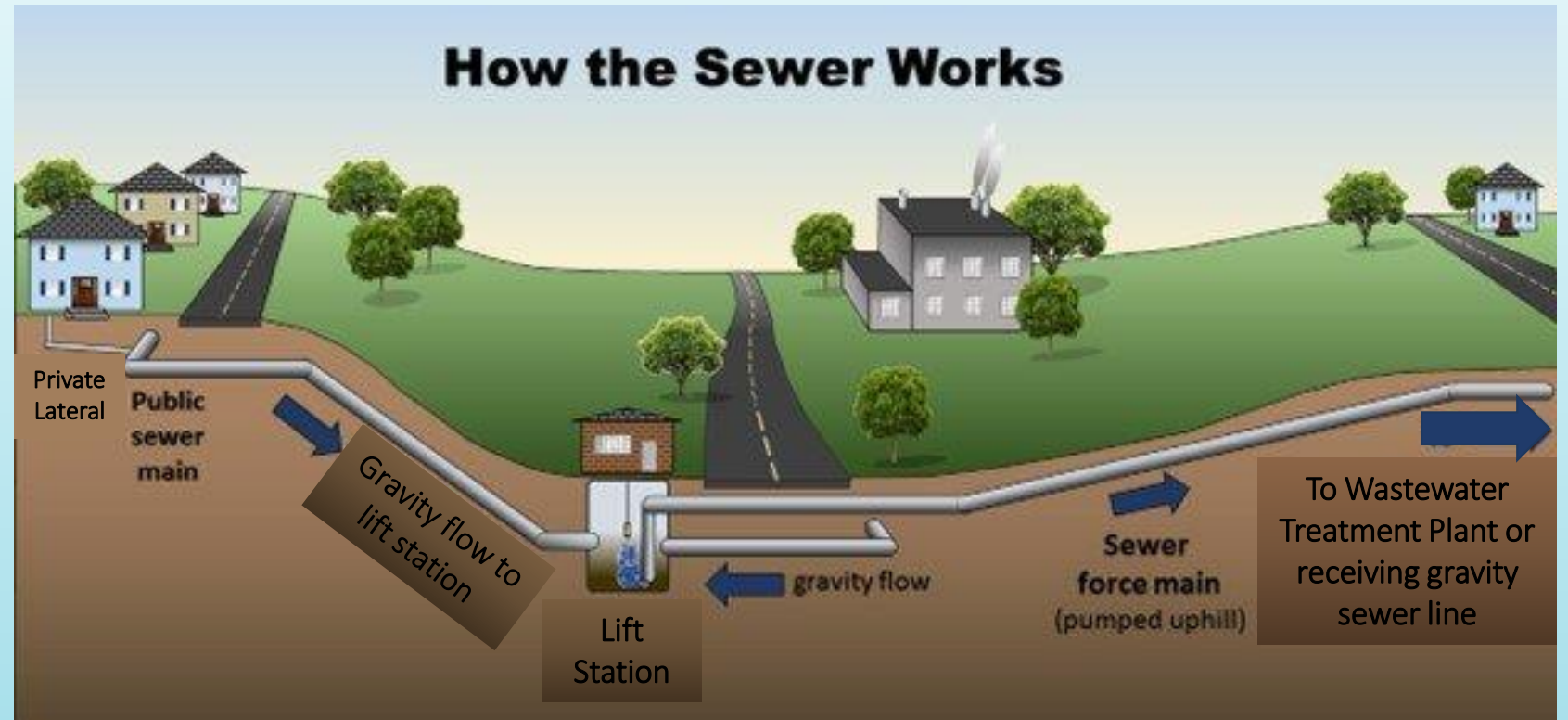
*Over the past several decades, the City has constructed, maintained, and rehabilitated the wastewater treatment and collection system that transports and treats our wastewater safely and effectively*



# Sewer Basins

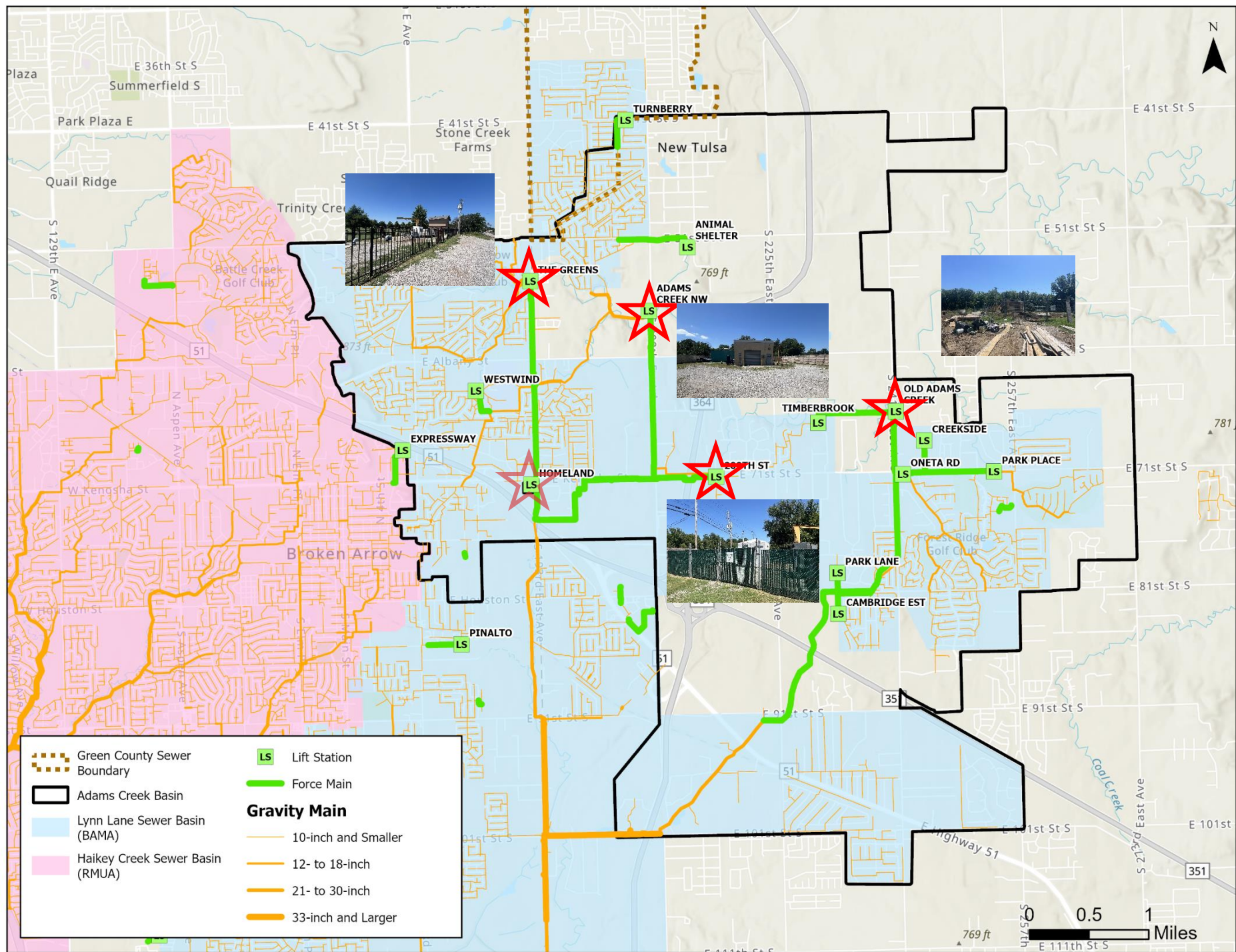


# Lift Station Explanation



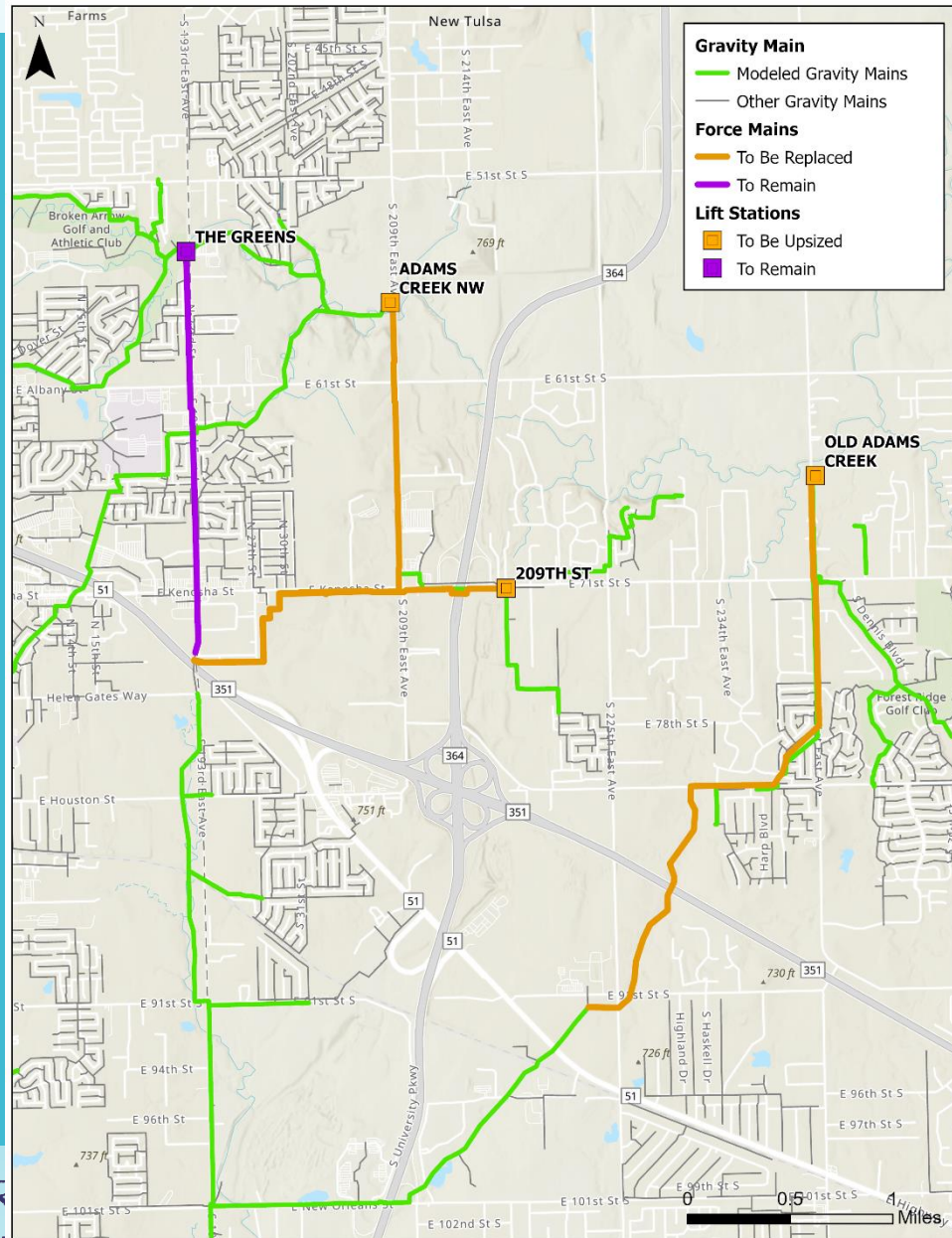
[https://noloveov.shop/product\\_details/1499840.html](https://noloveov.shop/product_details/1499840.html)

# Adams Creek Basin

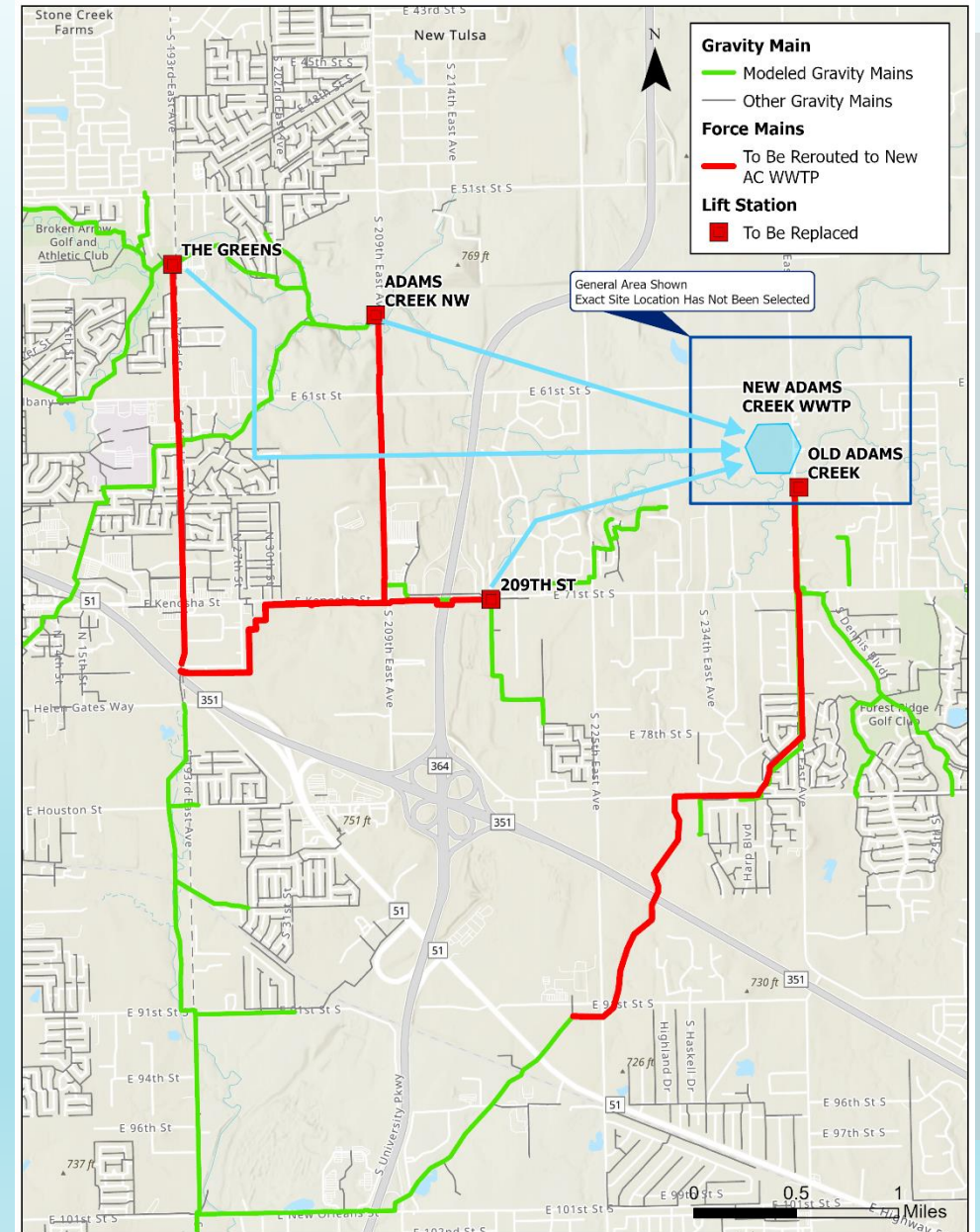


# Flow Transfer Scenarios

## Scenario 1

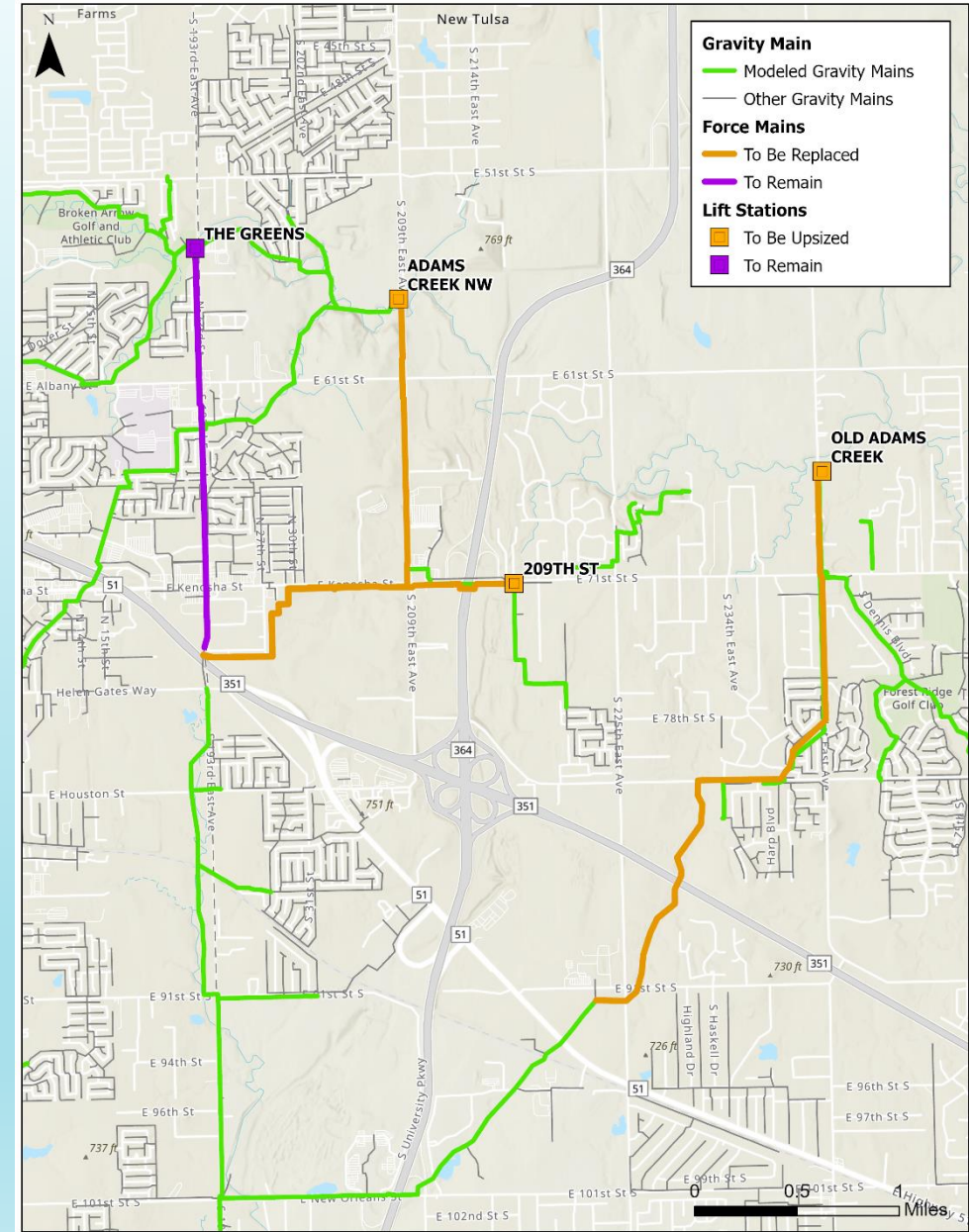


## Scenario 2



# Scenario 1

- “Status Quo” Alternative
  - Pros:
    - No change from Existing Plan
  - Cons
    - Does not necessarily address Adams Creek Basin issues
    - 2048 upsizing of Lower County Line Interceptor
    - Addition Upgrades needed at LLWWTP
- Estimated Cost in 2023 \$ is \$270M-\$290M over the time horizon out to 2050

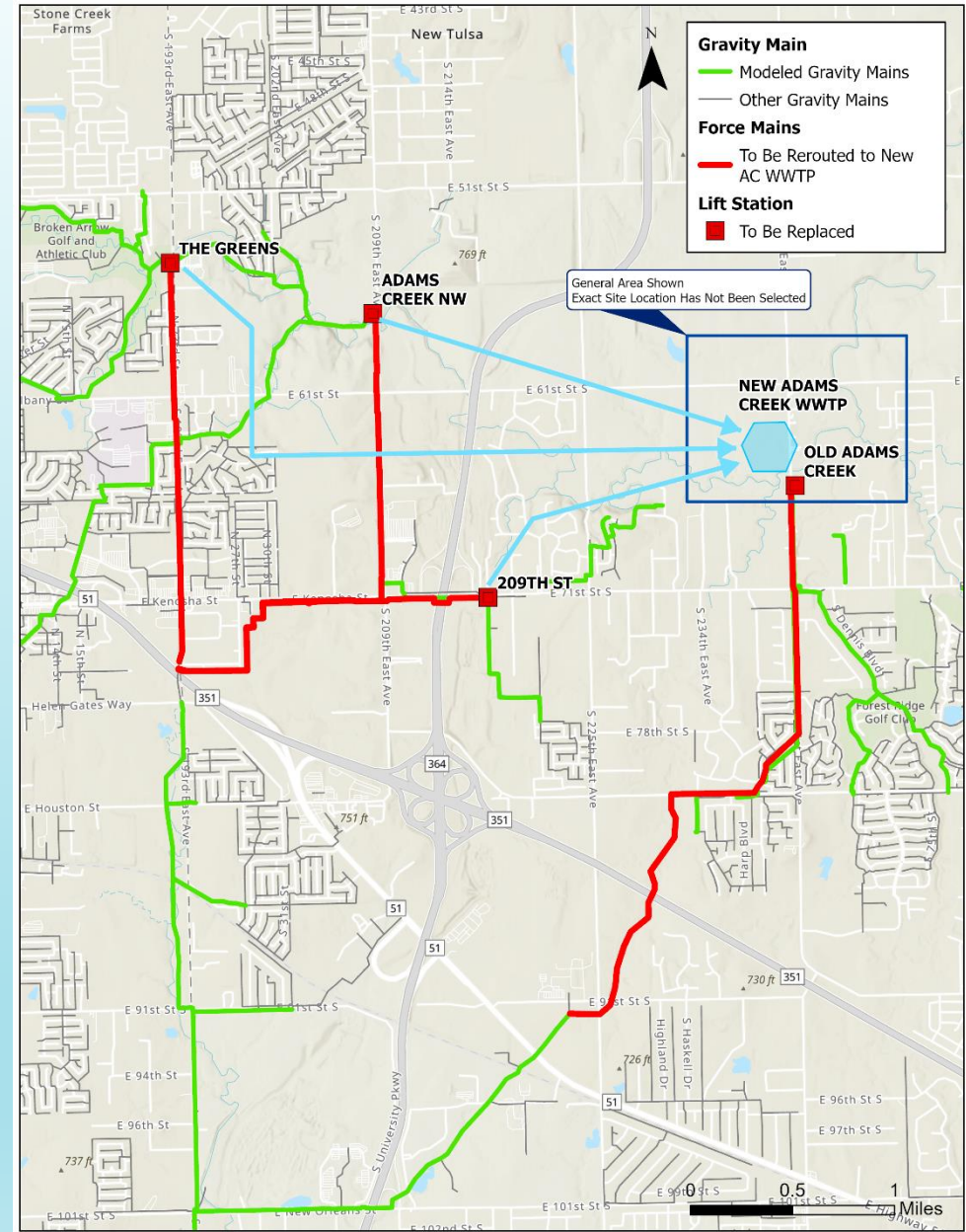


# Scenario 2

## New future Adams Creek Plant

- Pros:
  - Leverages current investments in infrastructure
  - Allows for flexibility of plant timeline/planning
  - Relieves multiple lift stations in the Adams Creek Basin
  - No significant upgrades needed at LLWWTP for capacity
  - Allows for flexibility as growth continues in east Broken Arrow
  - Water reuse benefits
- Cons
  - Requires significant \$\$ investment in a shorter period of time (depending on plant timeline)
  - Requires staffing/ Operations/Maintenance of a new Plant
  - Public perception of reuse

Estimated Cost in 2023 \$ is \$250M-\$295M over the time horizon out to 2050



★ General location shown; specific location not yet determined



# More Cost Comparison

Table 8-9: Scenario 1 Phasing & Planning Cost

Infrastructure	Year	OPCC (2023 Dollars)
ACNW New Lift Station and Force Main	2026	\$24,900,000
Lower County Line Interceptor Replacement	2048	\$28,800,000
OAC New Lift Station and Force Main	2038	\$23,000,000
Upper County Line Interceptor Replacement	2041	\$18,400,000
Lynn Lane WWTP Project I Treatment Plant Expansion	2042	\$100,000,000
209th New Lift Station and Force Main	2049	\$12,000,000
Lynn Lane WWTP Project II Treatment Plant Expansion	2054	\$77,300,000
Total Cost		\$281,300,000

Scenario 1 Estimates additional cost of \$1,875,599/year for operations & maintenance

Scenario 2 Estimates additional cost of \$1,989,000/year for operations & maintenance

Table 8-21: Scenario 2 Phasing & Planning Cost

Infrastructure	Year	OPCC (2023 Dollars)
Replacement ACNW Gravity Bypass	2028	\$24,800,000
New Regional Adams Creek Lift Station	2028	\$32,400,000
Wagoner County Interceptor Replacement	2029	\$11,700,000
New Adams Creek WWTP	2042	\$193,200,000
Reroute New Regional Adams Creek Lift Station to Adams Creek WWTP	2042	\$4,200,000
209th New Lift Station and Force Main	2049	\$12,100,000
Total Estimated Cost		\$278,400,000

# Questions & Answers

