

Lake Arlington Lift Station Gravity Main - Part 1 & Part 2
WebEx virtual community design meeting
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Key Fort Worth Staff:

Pratima Poudyal, senior P.E., project manager/Water Capital Delivery

- 817-392-6149; Pratima.Poudyal@FortWorthTexas.gov

Tony Sholola, P.E., assistant water director/Water Capital Delivery

Laura Wilson, P.E., deputy water director/Water Capital Delivery

Sally Ellertson, project communications/Water Capital Delivery

Engineering Design Consultant: Brian Darby, James DeOtte Engineering Inc.

City Council

District 5 Councilmember Gyna Bivens

District Director Sandi Breaux

- 817-392-8805; District5@FortWorthTexas.gov
- Gravity Main Part 2

District 8 Councilmember Kelly Allen Gray

District Director Maribeth Ashley

- 817-392-8808; District8@FortWorthTexas.gov
- Gravity Main Part 1

97 mailers sent; 2 attended the WebEx meeting

What is a gravity main?

A gravity main moves wastewater/sewage using gravity, or Mother Nature. This project has an upstream gravity main and a downstream gravity main.

Why are we doing this project?

Portions of the existing wastewater collection system serving the Village Creek Wastewater Basin are at capacity. Increased capacity is necessary to handle projected growth within the basin, which also includes the wholesale customer cities of Burleson and Crowley. A map of the Village Creek wastewater basin is linked to the project page, <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-lift-station-gravity-main>.

What happens if the sewer system reaches capacity?

When it rains, the Village Creek wastewater system can experience sanitary sewer overflows, or wet weather overflows. This happens when untreated sewage in the city's underground sewer main overflows and raw sewage is released.

What area is impacted by the construction and improvements?

The Lake Arlington Lift Station Gravity Main has two parts, the upstream gravity main (Part 1) and the downstream gravity main (Part 2). The design includes a 5,000 foot 78-inch sewer main (upstream gravity main Part 1) as well as a 3,000 foot 42-inch to 72-inch new sewer main (downstream gravity main Part 2).

Part 1 is in Council District 8. It starts just south of Lon-Stephenson Road where it links with another Fort Worth sewer project. Part 1 ends at the connection to the Lake Arlington lift station/Part 3 of the Lake Arlington Lift Station and Force Main project near Freeman Drive.

Part 2 is the downstream sanitary sewer gravity main. It is on the northern end and is in Council District 5. Part 2 connects with Part 2 of the Lake Arlington Force Main and extends from the western point between Arkansas Lane and East Rosedale Street/West Pioneer Parkway eastward to Cooks Lane. Part 2 will connect with an existing 60-inch sewer main near Cooks Lane and Lancaster Avenue.

Is this part of a larger project?

Yes, the gravity main links up to the Lake Arlington Force Main Part 1 and Part 2 segments. The gravity main also links to Fort Worth's Upper and Middle Village Creek project, depicted as M-257-Part 2 on the map on the project page on the City website, <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-lift-station-gravity-main>.

The gravity main, lift station and force main will increase the sanitary sewer capacity to handle projected growth which includes the Tarleton campus. This system will be constructed along the west shore of Lake Arlington and will move those peak flows to existing wastewater collection lines located north of Lake Arlington.

The lift station, force main, and the upstream gravity main and the downstream gravity main are depicted on the project map (see fifth bullet below).

- <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-lift-station-gravity-main>
- <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-lift-station>
- <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-force-main-part1>
- <https://www.fortworthtexas.gov/projects/cfw-lake-arlington-force-main-part2>
- <https://www.fortworthtexas.gov/files/assets/public/projects/documents/cip-lakearlingtonliftstationgravitymain/map-lake-arlington-lift-station-gravity-main.pdf>

What is a force main?

Force mains move wastewater/sewage using pressure. Pumps and compressors in a lift station have the energy that is needed to push/force the wastewater/sewage through. The future proposed force main will move the wastewater or sewage from the homes, businesses and properties to the Village Creek Water Reclamation Facility, also known as a wastewater treatment plant.

Part 1 of the force main starts at the lift station and ends east of the Cravens Road and Berry Street intersection. It is approximately 4.76 miles in length. Part 2 of the force main picks up at the Cravens Road and Berry Street intersection and extends to just south of Rosedale Street. It is approximately 2.21 miles in length. The lift station and both parts of the force main are shown on the project map for this project.

The force main is 42-inches in diameter and will extend from the lift station, around Lake Arlington, and discharge into the existing Village Creek collection system north of Lake Arlington near the intersection of US. 180/Lancaster Avenue.

What is a lift station?

A lift station is used to pump wastewater or sewage from a lower level or elevation to a higher level. It is basically an oversized grinder pump. The Lake Arlington lift station is being constructed just north of Freeman Drive, south of I-20 and east of Anglin Drive. The lift station will have an ultimate capacity of 80 million gallons per day.

What is the proposed timeline for this project?

This is the design stage. The next steps include advertising for bids for construction, opening bids, city council approval to award the bid to the contractor, pre-construction meeting with the contractor and inspector, WebEx community construction meeting to update those impacted by the project, then, construction starts!

How will I be notified that construction is starting? Fort Worth Water will host a community construction meeting to update those impacted. The contractor utilizes 7-day and 1-day door hangars to alert affected customers that construction is starting.

How do I get more information about the Lake Arlington Lift Station Gravity Main?

Progress will be updated on the City of Fort Worth website at <https://www.FortWorthTexas.gov/projects/cfw-lake-arlington-lift-station-gravity-main>. You can also go to www.FortWorthTexas.gov and enter "101311" in the search bar. The link to this meeting video, the project map, and the project summary/frequently asked questions will be linked to the project page.

Sally Ellertson

Project Communications

Capital Project Delivery

Office: 817-392-6260

Email: Sally.Ellertson@fortworthtexas.gov