

## Geotechnical Investigation Methods

### Drill Rig

The standard method for geotechnical investigations, a machine is used to drill below the ground surface to determine the presence of rock. This process involves drilling a hole roughly 4 inches in diameter and upward of 30 feet deep.



### Hand Auger

In areas where space is limited, this tool is used manually to determine the presence of rock. This alternative method has a depth limitation of 10 feet.



CHARLOTTE  
**WATER**

5100 Brookshire Boulevard  
Charlotte, NC 28216

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**Field Work  
Is Coming to  
Your Area Soon**  
**Hidden Valley**



**Water System**  
Improvements Project

NOVEMBER 2020

CHARLOTTE  
**WATER**



October 27, 2020

**SUBJECT: Surveying and Field Work as Part of Upcoming Water Main Project**  
(Hidden Valley Water System Improvements)

Dear Customer:

Charlotte Water is conducting preliminary engineering work in your area for an important water main project that will increase water pressure for customers.

Beginning in early November, subcontractors for Charlotte Water will be surveying and conducting field work along Tom Hunter Road from W Sugar Creek Road to N Tryon Street. This letter is to notify you that crews may be working on or near your property on one or more occasions. During this time, it may be necessary for Charlotte Water and its subcontractors to be on your property to visually confirm the location of some underground utilities. Their activities should not inconvenience you in any way. All field crew are instructed to wear identifying clothing (i.e., companies' logo or a safety vest) to identify themselves. Temporary road and/or lane closures may be in place at times to complete this work. Motorists and pedestrians are advised to follow all traffic control signs around the work.

In addition to personnel, customers could see minor clearing activities in the area, survey stakes/flags, paint markings on the ground and machinery used for geotechnical borings. These borings involve drilling a hole roughly 4 inches in diameter, and upward of 30 feet deep to determine the presence of rock in the area. In areas inaccessible for the drill rig, the hand auger method will be used (see reverse side). We also ask that residents do not remove the survey stakes and flags as they are critical to completing the design of this project. A list of companies that are involved with this project is included below:

- Froehling & Robertson, Inc.
- Stewart Engineering
- CES Group Engineers
- WSP USA
- Summit Environmental Services

This work is expected to begin in early November and take about six weeks to complete. Additional information on the project can be found on Charlotte Water's website at: [www.charlottewater.org](http://www.charlottewater.org), click on projects, then construction.

I am your source of information for this project. Please contact me at 704-336-1077, [avershel@charlottenc.gov](mailto:avershel@charlottenc.gov), or Ryan LeBlanc at 704-336-1049, [ryan.leblanc@charlottenc.gov](mailto:ryan.leblanc@charlottenc.gov) if you have questions. If we determine that this project will have any direct impact on your property, we will notify you further as the project progresses.

Regards,

A handwritten signature in black ink that reads "Amy R. Vershel". The signature is written in a cursive, flowing style.

Amy R. Vershel, P.E.

Senior Project Manager, Charlotte Water

