

## Archaeological Assessments (AA) and an Environmental Site Assessment (ESA) near Yonge Street and Royal Orchard Blvd.

**Scheduled work period:** **December 2:** Private locates, **December 11 – 12:** Drilling, and **December 16 and 17:** Groundwater monitoring and sampling.

**Timing:** 8:00 a.m. to 6:00 p.m. (Monday to Friday)

### Yellow, Stage 2:

The team will locate utilities, conduct Stage 1-2 AA, document any findings, and restore the area.

### Green, Stage 3:

Stage 3 AA will investigate the locations of two prior archaeological sites with Euro-Canadian artifacts from the 19th to early 20th century through test unit excavation.

**Blue, three boreholes:** Top (BH24-10), middle (BH24-09), bottom (BH24-08).

(The map is a visual representation and is not to scale.)



### What is happening?

Contractors working on behalf of Metrolinx will be conducting an archaeological field assessment at 7994–8000 Yonge Street as part of the environmental due diligence work for the Yonge North Subway Extension project. The assessment includes Stage 1-2 AA at one location on the property and Stage 3 AA at another on the green space near 7994 Yonge Street. The assessment involves hand digging to identify any potential archaeological resources. The purpose of the Phase 2 ESA is to assess the environmental conditions of the soil and groundwater as well as collect baseline environmental soil samples for excess soil management.

### About the Yonge North Subway Extension

The Yonge North Subway Extension will transform the commute in York Region, Toronto and beyond by extending the TTC's Line 1 subway service north from Finch Station into Vaughan, Markham, and Richmond Hill. This extension includes five new subway stations along an extension of roughly eight kilometers.

Still have questions? Ask us! [YongeSubwayExt@metrolinx.com](mailto:YongeSubwayExt@metrolinx.com), or 416-202-7000.

✉ Visit us at: **295 High Tech Road Unit 4, Richmond Hill**

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## OVERVIEW OF ARCHAEOLOGICAL ASSESSMENT

- **(Stage 1&2AA)** The assessment will involve hand digging test pits roughly the size of a bucket in a grid pattern. The pattern may change due to changes in archaeological potential in different parts of the study area.
- **(Stage 3AA)** An estimated 17, 1x1m square shovel dug excavation units will dug to a depth of 30cm below current grade, the number and placement can vary depending on archaeological findings. The area required is approx. 1,200 square metres.
- If archaeological resources are found, further investigation may be needed. Additional notice and information would be provided at that time.

## OVERVIEW OF ESA PHASE 2 INVESTIGATION

- Involves advancing three boreholes, installing three monitoring wells and collecting soil and groundwater samples.

## WHAT TO EXPECT

- During this work, crews will be operating a truck or track-mounted drilling rig, using hand tools, and storing soil cuttings and groundwater in drums.
- There may be brief periods of increased noise during the drilling process. Noise and vibration levels will be closely monitored, and measures will be taken to reduce disturbances where necessary.
- Operations at Thornhill Golf Club will continue as normal.
- Work may be rescheduled due to weather conditions or unforeseen circumstances.

## IMPACT MITIGATION

- Pylons or fencing will secure the work area.
- Drill rig will be moved daily to avoid traffic interference on the property.
- Traffic and Sidewalk access on between 7994 - 8000 Yonge Street will not be impacted.
- Test pits will be backfilled with sod, but re-seeding or further remediation is not part of the archaeology scope.
- No test pits will be dug in parking or asphalt areas.

## METHODOLOGY OF ARCHAEOLOGICAL ASSESSMENT

- Archaeologists will use hand tools (shovels, trowels, etc.) to excavate rows of small holes down to sterile subsoil at regular intervals.
- The soil will be sifted to look for artifacts.
- At the conclusion of the survey, the soil will be replaced in each hole, and the sod cap replaced.

## METHODOLOGY OF ESA PHASE 2 INVESTIGATION

- Drilling borehole BH24-08 to 16 metres will take 4-6 hrs., BH24-09, BH24-10 to 6 metres will take 3-4hrs using a conventional truck/track mounted drill rig equipped with hollow stem augers and a split spoon sampling system.
- Installation of a 50mm PVC monument casing monitoring wells will be installed in BH24-08, BH24-09 & BH24-10 to investigate the quality of the groundwater at the property.

## WORK DETAILS

- The anticipated drilling activities will require two days to complete. Prior to drilling, underground utilities will be marked using spray paint after consultation with private and public utility locators.
- The investigation work will span across two weeks, and field personnel may not be on-site continuously during those weeks.
- Drill cuttings & purged groundwater generated during field activities will be stored on-site in drums and removed following completion of ESA Phase 2 Investigation.
- Restoration of site upon completion of drilling and removal of monitoring well.

### Contact Us:

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