

Project Dossier



PROJECT DOSSIER

TOP GOLF BALTIMORE SITE

PROJECT OVERVIEW

Topgolf is constructing a new state-of-the-art golf range near downtown Baltimore. Topgolf Baltimore will be located across nearly six acres of land in the Southern Gateway Entertainment District.

The entertainment complex venue will be developed using two feet of clean fill soil, dredged from the Port of Baltimore.

Topgolf Baltimore will feature a first-of-its-kind design as it introduces a skylit central atrium with comfortable seating, yard games, and a giant video wall to give the guests a unique technology-driven fun experience.

Project	TOP GOLF BALTIMORE SITE GROUNDWATER MONITORING PROJECT
Location	Placer County, CA, USA
Owner	Top Golf
Client	Intertek
Year	2022



WHY MONITORING ?

The excess pore water pressure dissipation in consolidating layers underlying the fill zone required monitoring. The piezometers will be buried during fill placement, so the client will be trenching cable to area(s) outside the fill zone to connect to data loggers. The client installed set of multiple level vibrating wire piezometers with wireless dataloggers for construction monitoring.

MONITORING SOLUTION

Rite Geosystems Inc. was entrusted to provide complete instrumentation and real time monitoring results for the project.

Scope of works include:

- Supply of geotechnical instruments
- Automated data on desk with advanced datalogger and software

INSTRUMENT USED

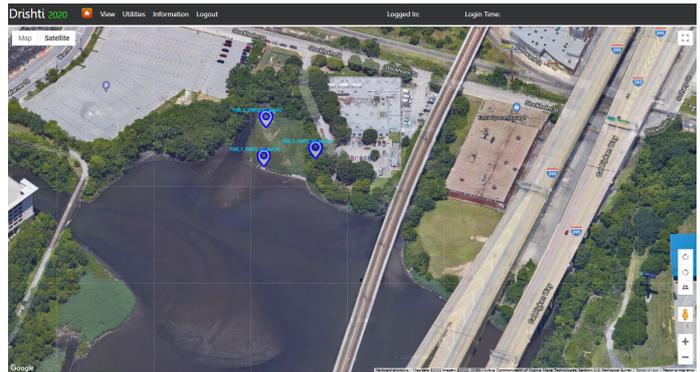
Piezometers Multi-level piezometers were used to determine the pore pressure changes due to filling and dewatering operations.

Datalogger Our advanced 4G dataloggers, model ESDL-30, were used to collect and store the data from piezometers automatically at required frequency.

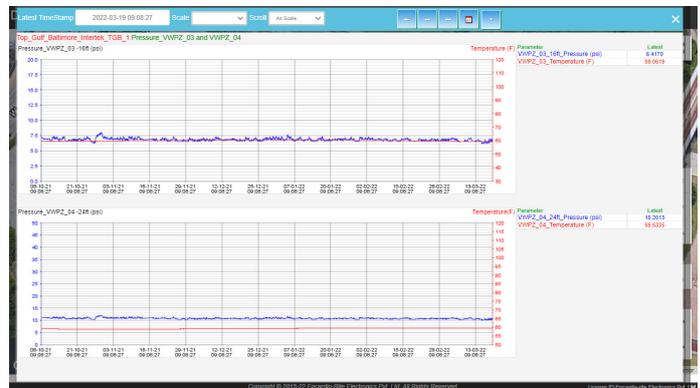


REAL TIME DATA

Our inhouse developed database management system, Drishti, was used to process and present the piezometer data online. The near-real-time data provided useful information during construction operation to all the stakeholders.



Site on Google Map view, showing instrument locations



Multilevel piezometer data



CONCLUSION

Installation of all the instruments was executed successfully, giving the client necessary information required for smooth and uninterrupted construction works.

Model EPP-30V vibrating wire piezometers were selected as these are quite rugged and suitable for this application. The datalogger was best suitable for standalone operations. Working with two 3.6 V Lion batteries, the datalogger eliminates hefty solar panel, power source requirement at the site. The dataloggers provided easy application with plug-and-play features. It easily fits inside the road box.



TUNNELS



HYDROELECTRIC



CONSTRUCTION



STRUCTURAL



METRO & RAIL



BRIDGES



MINING