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GEOTECHNICAL • ENVIRONMENTAL • HYDROGEOLOGICAL • BUILDING SCIENCE

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March 20, 2024

Reference No. 1911-W057

Page 1 of 3

Highlen Homes Limited
10148 Warden Avenue
Markham, Ontario
L6C 1N3

Attention: Mr. Johan Perciasepe

**Re: Spring Season Groundwater Level Monitoring
Proposed Residential Development
230 Finch Avenue. Part 4, Plan # 40 R-29767
Town of Pickering**

Dear Sir:

Soil Engineers Ltd. (SEL) conduct a spring groundwater table monitoring program at the captioned property located, at 230 Finch Avenue, Town of Pickering (the Subject Site). This letter presents the results for the Spring, seasonal high groundwater table monitoring program.

Background Review

A spring season groundwater level monitoring program was carried out at the Subject Site, at the location shown on **Drawing No. 1**. The study was authorized in support of a proposed residential development. The purpose of the groundwater monitoring program is to verify the seasonal spring high groundwater levels and their associated fluctuations beneath the Subject Site.

Shallow groundwater level monitoring program was conducted at the monitoring wells, that were previously installed on the Subject Site by SEL as a part of the geotechnical investigation (SEL Reference No.: 1911-S057), and the hydrogeological assessment (SEL Reference No.: 1911-W057).



The groundwater levels within the monitoring wells were manually recorded during six (6) monitoring events, including three (3) monitoring events conducted for the hydrogeological assessment in January 2020, and three (3) monitoring events completed during the spring 2023 (between April 14 and June 19, 2023). A summary of the groundwater monitoring program is presented in **Table 1**. The locations of the monitoring wells are shown on **Drawing No. 2**.

Table 1-Groundwater Level Monitoring Details

Well ID		Jan. 8, 2020	Jan. 14, 2020	Jan. 28, 2020	April 14, 2023	May 15, 2023	June 19, 2023
BH/MW 1	mbgs	3.79	3.40	3.67	3.64	3.86	4.0
	masl	137.81	138.2	137.93	137.96	137.74	137.6
BH/MW 2	mbgs	3.53	2.96	3.2	2.96	3.3	3.6
	masl	137.97	138.54	138.3	138.54	138.2	137.9
BH/MW 3	mbgs	2.92	2.58	2.43	2.3	2.59	2.84
	masl	136.78	137.12	137.27	137.4	137.11	136.86
BH/MW 4	mbgs	3.34	2.96	2.86	2.51	2.91	2.91
	masl	135.76	136.14	136.24	136.59	136.19	136.19
BH/MW 5	mbgs	3.39	3.01	2.9	2.6	2.91	2.91
	masl	135.91	136.29	136.4	136.7	136.39	136.39

mbgs: metres below ground surface

masl : metres above sea level

Discussion

The measured groundwater levels elevations ranged from 136.19 to 138.54 metres above sea level (masl) during the three (3) spring monitoring events. The highest shallow groundwater level was measured in BH/MW 2 on April 14, 2023.

The groundwater levels were at their lowest during the April 14, 2023 monitoring event for all the monitoring wells.

We trust that this correspondence addresses your current requirements and ask that you contact us should you have any questions or require additional information.



Yours truly,
SOIL ENGINEERS LTD.

Bhawandeep Singh Brar

Bhawandeep Singh Brar, B.Sc

narjes

Narjes Alijani, M.Sc., P.Geo.



BB/NA

ENCLOSURES

- Site Location Plan..... Drawing No. 1
- Borehole and Monitoring Well Location Plan Drawing No. 2

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

648800

Source: Ministry of Natural Resources and Forestry
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- Approximate Boundary of Subject Site
- ▶ Watercourse
- Local Road

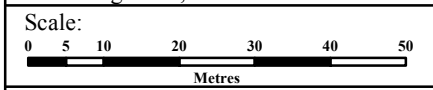


Title: Site Location Plan

Project:
 Groundwater Monitoring
 Proposed Residential Development
 230 Finch Avenue
 City of Pickering

Reference No. 1911-W057

Date: August 18, 2023



Drawing No. 1



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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Source: Ministry of Natural Resources and Forestry
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- Approximate Boundary of Subject Site
- + Borehole with Monitoring Well
- ▶ Watercourse
- Local Road



Title: Borehole and Monitoring Well Location Plan

Project:
Groundwater Monitoring
Proposed Residential Development
230 Finch Avenue
City of Pickering

Reference No. 1911-W057

Date: August 18, 2023



Drawing No. 2