



**St. Lawrence Testing
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March 24, 2024

Mr. Jordan Lupovici
Halo Car Wash
1010 Ontario Street
Stratford, ON
N5A 6Z3

**RE: Halo Car Wash 585 West Hunt Club Rd., Nepean, Ontario
Geotechnical Subsurface Investigation
Report No. 25C038R2**

Dear Mr. Lupovici:

As requested by you, this report is submitted on the geotechnical subsurface investigation at the property just North of West Hunt Club Rd. in Ottawa, Ontario.

A) DESCRIPTION OF FIELD WORK

Prior to starting the field drilling, locates were requested through Ontario One Call. When we initially visited the site, the whole site was covered with more than 300 mm of snow throughout.

The drilling was done on March 18, 2025. At the time of drilling, a lot of the snow had melted but there were still drifts of snow over close to half of the site. The drill was from Eastern Ontario Diamond Drilling or Hawkesbury, Ontario. Supervision was by the undersigned geotechnical engineer.

A total of 4 boreholes were put down at the site. The boreholes were advanced by split spoon sampling. Standard Penetration tests were carried out along with the split spoon sampling. The recovered samples were placed in glass jars while on the site. The jars were returned to our lab for later detailed lab examination and one gradation test. While on site we paid close attention for potential fuel contamination odours. None were noted.

A sketch showing the borehole locations is attached to this report.

B) STRATIGRAPHY

The stratigraphy at the 4 boreholes is fairly similar.

The surface is covered with 50 mm of asphalt. Below the asphalt is gravel fill that extends between 0.48 to 0.53 m.

Below the gravel is a brown, moist, compact silty sand. With depth the brown becomes grey brown, generally around 1.5 m and grey, generally around 2.3 m. The moisture becomes very moist generally between 1.8 m to 2.3 m. The silty sand was noted to be wet between 2.3 m to 3.0 m at Boreholes 2, 3 and 4. The ground water was noted at 2.3 m at Boreholes 2 and 3 and at 3.0 m at Boreholes 1 and 4.

We hit bedrock at 3.28 m at Borehole 2 and 2.44 m at Borehole 3.

For the specific information at each borehole, the borehole logs should be referred to.

C) GEOTECHNICAL DISCUSSION

1. General

It is our understanding that a one storey car wash building is to be built near the centre of the lot in an East West direction.

2. Foundations

The foundations for the building can be footings designed with a bearing capacity of 150 KPa S.L.S. and 225 KPa U.L.S at 1.5 m below the surface. The seismic factor is Site Class C. The building design frost depth in this area is 1.5 m below the final exterior surface.

3. Slab on Grade

The soil conditions are acceptable for a normal slab on grade.

The upper asphalt should be removed. The upper gravel should also be lowered.

The gravel below the new slab should be 150 mm of Granular "A" compacted to 95% Standard Proctor Density. If the loading will exceed 25 KPa S.L.S. the compaction should be to 100% Standard Proctor Density.

4. New Sewers and Watermain

The bedrock depths at Boreholes 2 and 3 should be noted in case the sewers or watermains are coming in from the West end. The frost design depth in asphalted areas is 2.3 m.

For any new sewers and watermains, the sewers and watermains must be just below 2.3 m.

The bedding for the services should be 150 mm of Granular "A" compacted to 95% Standard Proctor Density. The cover material should be 150 mm of Granular "A" compacted to 95% Standard Proctor Density.

The backfill for the trench can be the site silty sand. This should be compacted in maximum 300 mm lifts to 95% Standard Proctor Density.

When it is time to restore the gravel subbase and base in the trench areas, the subgrade should be recompacted to 95% Standard Proctor Density prior to applying the subbase course.

5. New Parking Lot

For light vehicle parking areas, the subbase should consist of 300 mm of Granular "B" Type 2 and the base should consist of 150 mm of Granular "A" each compacted to 100% Standard Proctor Density.

The asphalt should consist of 50 mm of HL3 compacted to 96% Marshall Density.

For heavy duty access roads, the subbase should consist of 400 mm of Granular "B" Type 2 and the base should consist of 150 mm of Granular "A" each compacted to 100% Standard Proctor Density.

The asphalt should consist of 50 mm of HL4 base and 40 mm of HL3 surface, each compacted to 96% Marshall Density.

D) CONSTRUCTION CONTROL

In order to ensure that the recommendations for footings, backfill and compaction are adhered to, it is recommended that our firm be retained to inspect, test and report accordingly.

Respectfully submitted,

ST. LAWRENCE TESTING & INSPECTION CO. LTD.



G.G. McIntee, P. Eng.

GGM:mm



<img alt="A detailed site plan for a property in Block 28, Plan 4M-601. The plan shows various buildings, roads, and easements. Key features include a large building labeled 'ONTARIO INC.' with address '14 R 15 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995 1000 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050 1055 1060 1065 1070 1075 1080 1085 1090 1095 1100 1105 1110 1115 1120 1125 1130 1135 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St. Lawrence Testing
Report 256038
March 2025



St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

CLIENT Halo Car Wash BOREHOLE NO. TNE
LOCATION 585 West Hunt Club Rd., Nepean CASING HS Auger
DATE OF BORING March 18, 2025 DATE OF WL READING March 18, 2025 DATUM



**St. Lawrence Testing
& Inspection Co. Ltd.**

OFFICE BOREHOLE RECORD

CLIENT Halo Car Wash
LOCATION 585 West Hunt Club Rd., Nepean
DATE OF BORING March 18, 2025 DATE OF WL READING March 18, 2025 DATUM

REPORT NO. 25C038

BOREHOLE NO. 2NW

CASING HS Auger

| SOIL PROFILE | | | SAMPLES | | | | | LABORATORY TESTS PERFORMED | LAB | TEST | RESULTS | | |
|--------------|-----------|-------|--|-------------|------------------|-----------|------|----------------------------|----------|-----------|-----------------------------------|---|----|
| DEPTH | ELEVATION | DEPTH | SOIL DESCRIPTION | STRAT. PLOT | WATER CONDITIONS | CONDITION | TYPE | NUMBER | RECOVERY | N - VALUE | | | |
| 0 | | | 50 mm Asphalt Gravel Fill | | | | | | | | WATER CONTENT & ATTERBERG LIMITS. | | |
| 0.51 | | | Silty Sand Brown, moist, compact, becoming grey brown below 1.7 m and very moist below 1.8 m and grey and wet below 2.3 m | | | | SS | 1 | 60 | 22 | WP | W | WL |
| 2 | | | | | | | SS | 2 | 75 | 10 | | | |
| 3 | | | | | | | SS | 3 | 60 | 18 | | | |
| 3.28 | | | Auger refusal on bedrock | | | | SS | 4 | 60 | 50+ | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| | | | | | | | | | | | APPENDIX | | |



St. Lawrence Testing & Inspection Co. Ltd.

OFFICE BOREHOLE RECORD

| | | | | | |
|----------------|--------------------------------|--------------------|----------------|-------|--|
| CLIENT | Halo Car Wash | BOREHOLE NO. | 3SW | | |
| LOCATION | 585 West Hunt Club Rd., Nepean | CASING | HS Auger | | |
| DATE OF BORING | March 18, 2025 | DATE OF WL READING | March 18, 2025 | DATUM | |



**St. Lawrence Testing
& Inspection Co. Ltd.**

OFFICE BOREHOLE RECORD

25C038

CLIENT Halo Car Wash

LOCATION 585 West Hunt Club Rd., Nepean

DATE OF BORING March 18, 2025

DATE OF WL READING March 18, 2025

REPORT NO.

4SE

BOREHOLE NO.

HS Auger

CASING

DATUM

SOIL PROFILE

SAMPLES

LAB TEST RESULTS

WATER CONTENT & ATTERBERG LIMITS.

WP W WL

DYNAMIC PENETRATION TEST BLOWS PER FOOT.. K...

0 20 40 60 80

| DEPTH | ELEVATION | DEPTH | SOIL DESCRIPTION | STRAT. PLOT | WATER CONDITIONS | CONDITION | TYPE | NUMBER | RECOVERY | N - VALUE | LABORATORY TESTS PERFORMED | LAB | TEST | RESULTS |
|-------|-----------|-------|--|-------------|------------------|-----------|------|--------|----------|-----------|----------------------------|-----|------|---------|
| 0.0 | | | 50 mm Asphalt Gravel Fill | | | | | | | | | | | |
| 0.53 | | | Silty Sand Brown, moist, compact, becoming brown grey below 1.5 m and very moist below 2.3 m and grey and wet below 3.0 m | | | | SS | 1 | 75 | 23 | | | | |
| 1.1 | | | | | | | SS | 2 | 50 | 21 | | | | |
| 2.2 | | | | | | | SS | 3 | 75 | 27 | | | | |
| 3.0 | | | | | | | SS | 4 | 70 | 17 | | | | |
| 3.66 | | | Termination of borehole | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | | | | |

APPENDIX

