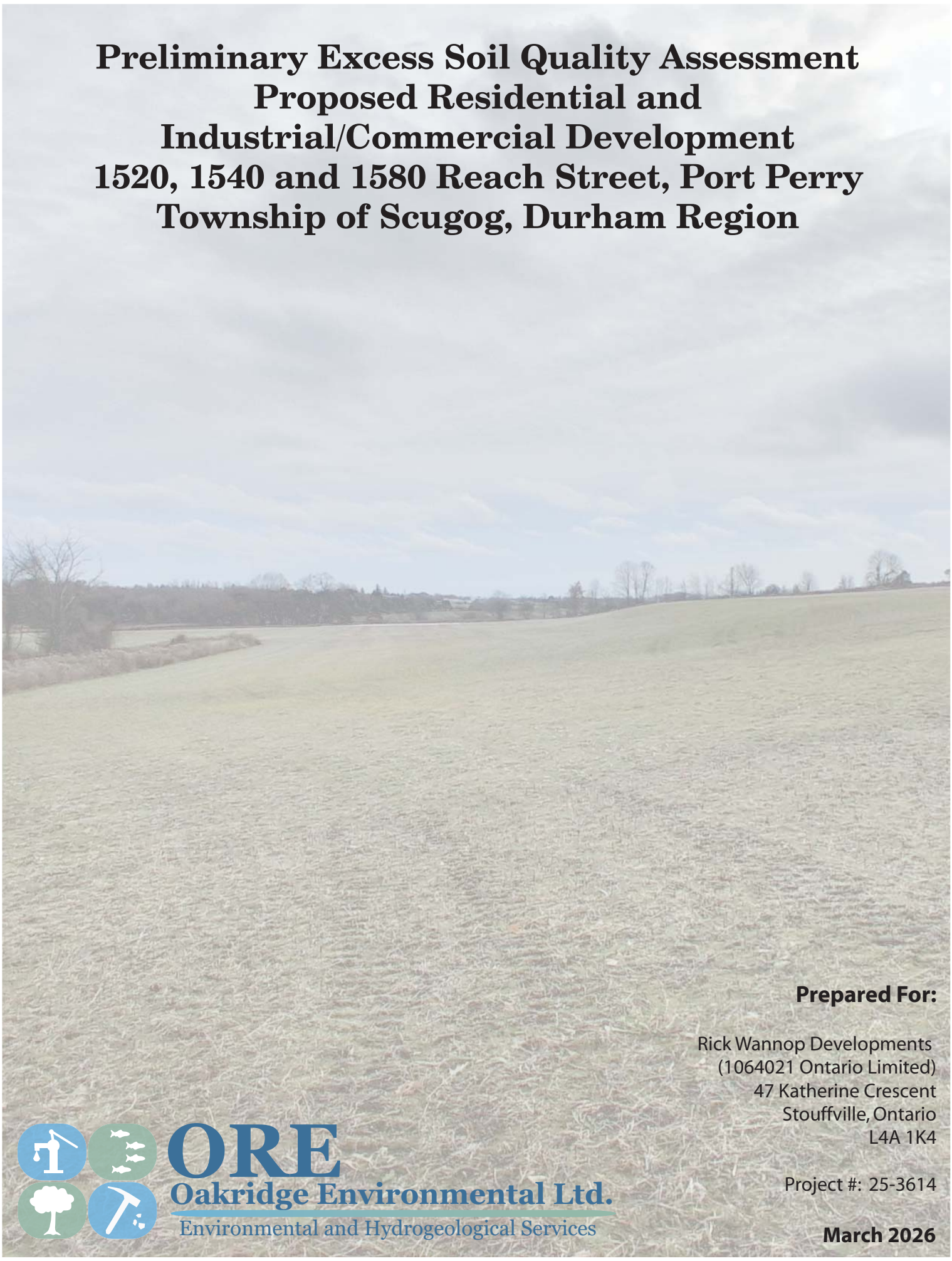
Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region



Prepared For:

Rick Wannop Developments
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47 Katherine Crescent
Stouffville, Ontario
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Project #: 25-3614

March 2026

ORE
Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

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March 9, 2026

Rick Wannop Developments (1064021 Ontario Limited)
47 Katherine Crescent
Stouffville, Ontario
L4A 1K4

Attention: **Richard (Rick) Wannop**, Owner

Re: Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region
ORE File No. 25-3614

Dear Mr. Wannop:

In accordance with our revised proposal October 30, 2025, we are pleased to present our preliminary report in support of the above-referenced development project.

As you will see, our investigations have not identified any significant constraints that would physically prohibit the proposed development.

Laboratory analysis of the soils tested as part of this investigation were found to satisfy the Table 1 criteria of Ontario Regulation 406/19, indicating that any excess soils generated from the site should be suitable for any beneficial reuse site. However, should excavations for the purpose of removing excess soil occur immediately downgradient of the neighbouring industrial uses to the south, that area is expected to require additional soils analysis for confirmatory purposes.

Should you have any questions, please contact the undersigned.

Yours truly
Oakrige Environmental Ltd.

Brian R. King, P. Geo.

Table of Contents

Page No.

1.0 Introduction . . . 1
- 1.1 General . . . 1
- 1.2 Scope of Work . . . 1
- 1.3 Proposed Development . . . 2

2.0 Physical Setting . . . 3
- 2.1 Topography, Drainage and Surrounding Use . . . 3
- 2.2 Surficial Geology . . . 4

3.0 Assessment of Past Uses . . . 4
- 3.1 Subject Site . . . 4
- 3.2 Surrounding Up-Gradient Uses . . . 5

4.0 Sampling and Analysis Plan . . . 6
- 4.1 Sampling and Analysis Plan . . . 6
- 4.2 Media Investigated . . . 7
- 4.3 Rationale for Exclusion of Topsoil from Testing . . . 7
- 4.4 Rationale for Exclusion of Parameters . . . 8
- 4.5 Deviations from Sampling and Analysis Plan . . . 8
- 4.6 Impediments . . . 8

5.0 Current Soil Quality Investigations . . . 9
- 5.1 Field Methods and Protocols . . . 9
- 5.2 Analytical Testing . . . 10
- 5.3 Shallow Soil Stratigraphy . . . 10

6.0 Soil Quality and Re-Use Options . . . 12
- 6.1 Quantity of Excess Soil . . . 12
- 6.2 Shallow Soil Quality . . . 12
  - 6.2.1 Soil Texture . . . 12
  - 6.2.2 Soil Gas . . . 12
  - 6.2.3 Soil Quality . . . 13
  - 6.2.4 Guidelines for Off-Site Reuse of Excess Soil . . . 14

7.0 Conclusions and Recommendations . . . 15

List of Figures

Figure 1	General Location
Figure 2	Topography & Drainage
Figure 3	LiDAR Topography
Figure 4	Surficial Geology
Figure 5	Physical Features
Figure 6	W-E Local Cross Section
Figure 7	N-S Local Cross Section
Figure 8	Shallow Water Table

List of Appendices

Appendix A	Pre-consultation Letter
Appendix B	Preliminary Concept & Grading Plans
Appendix C	Preliminary Excess Soils Sampling and Analysis Plan
Appendix D	Field Logs and On-site Monitoring Well Records
Appendix E	Combustible Gas Summary
Appendix F	Soil Quality Data
Appendix G	Grain Size Distribution Curves
Appendix H	OSSGA Source Site Flow Chart

Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

1.0 Introduction

1.1 General

Oakridge Environmental Ltd. has been retained by the Applicant, Rick Wannop Developments (1064021 Ontario Limited) to complete a preliminary excess soil quality (management) assessment of the above referenced development site in Port Perry, Ontario (Figure 1). This report has been completed in accordance with the requirements outlined by the Township of Scugog's Pre-consultation letter of March 4, 2025 (Appendix A).

We are also providing (under separate cover) reports that address the following related matters:

1. Preliminary Hydrogeological Study (requested by Township of Scugog - Engineering);

2. D-4 Land Use on or Near Landfills and Dumps Study (requested by Township of Scugog - Planning), and

3. A Site Screening Questionnaire (SSQ) or an RSC compliant Phase I Environmental Site Assessment Report.

The location of the proposed development site is illustrated on Figure 1.

1.2 Scope of Work

This excess soil quality assessment was completed in general accordance with O. Reg. 406/19, On-Site and Excess Soil Management. As the development concept is still preliminary, it is not possible to determine with any certainty the future volume of excess soil to be generated (if any) or the extent of any excavations on the Site. As such, the intent herein is to characterize the overall conditions on a preliminary basis and to identify any relevant issues that might arise with respect to the generation and disposal of excess soils. More detailed testing could be required in the future, to address location-specific conditions.

In conducting this study, the following general tasks were completed:

- Compilation and review of background information;

- Review of previous uses and information obtained during the Phase I

Environmental Site Assessment (ESA);

- Preparation of a geo-referenced base plan;
- Preparation of a sampling and analysis plan;
- Sampling of boreholes and test pits about the site, with laboratory soil quality analyses (in concert with the hydrogeological study);
- Preparation of technical illustrations;
- Data interpretation, and report preparation.

1.3 Proposed Development

The proposed development site comprises a total of ~63.88 ha (~157.8 acres), situated within three parcels with addresses 1520, 1540 and 1580 Reach Street (Port Perry), on Part of Lots 15 & 16, Concession 8, Township of Scugog. The development site fronts onto Reach Street which follows the northern property boundary.

The Site is proposed to be developed in two (2) parts, consisting of a 42.3 ha residential ("Community") area in the eastern approximately two thirds and a 21.58 ha industrial/ commercial ("Employment") area to the west.

Based on the preliminary conceptual plan provided by Malone Given Parsons, dated January 21, 2026, the residential component will include approximately 812 - 1,267 units of various densities with some mixed use (commercial) units incorporated. The industrial/commercial area will have about 14.57 ha available for those uses (by Plan of Subdivision) and both will include stormwater management facilities. Both development areas also include some set-aside areas to accommodate natural heritage features and parkland.

It is understood that the proposed developments will be serviced for potable water and wastewater by connecting to the municipal systems.

A copy of the draft conceptual development and grading plans are presented in Appendix B.

2.0 Physical Setting

2.1 Topography, Drainage and Surrounding Use

As illustrated by Figure 2, the Site exhibits approximately 19 m of topographic relief, with the uplands situated in the eastern third, consisting of a drumlin ridge, elongated along its roughly north-south axis. The apex of the drumlin occurs in the south-central part of the Site, extending across the southern boundary.

From the apex, the eastern flank declines about 17 m to a small meandering watercourse feature (referred to as Cawkers Creek) situated on the adjacent property. The watercourse conveys flows northward, eventually to Lake Scugog. In contrast, the western flank of the drumlin exhibits a more gentle decline of approximately 19 m across the rest of the Site, toward the adjacent property, which consists of an existing commercial development, accessed by N. Port Road. The axis of the drumlin ridge is a local drainage divide.

More detailed topographic information has also been obtained by interpreting provincially available Light Detection and Ranging (LiDAR) imagery. Raster data for the subject site has been compiled and topographic contours interpreted from the digital terrain model (DTM) elevations (i.e., raster cell values) and is presented on Figure 3. As illustrated, while the LiDAR data provides a better resolution compared to the Ontario Base Mapping (OBM) contour data presented in Figure 2, the datasets are relatively consistent.

There are no *mapped* (channelized) watercourses or wetlands on the subject Site. The closest watercourse is a small tributary feature that occurs immediately to the east (Cawkers Creek), separating the nearby residential subdivision along Roseborough Crescent from the Site. The watercourse is contained within a dedicated Natural Heritage area, likely preserved as part of the nearby subdivision development as part of its stormwater management.

A variety of uses surround the subject Site. To the east, land uses are predominantly urban residential (i.e., east of the watercourse and green space). To the south, uses are agricultural opposite the eastern two thirds of the Site, with active farming. To the west, uses include an industrial/commercial subdivision (employment lands) that are largely built-out. North of the Site (i.e., north of Reach Street), uses include agricultural, a possible small pit operation (to the northwest) and a municipal waste transfer facility (to the northeast).[1] The waste transfer location was formerly a ~7.2 ha landfill site which was closed in 1989. The former landfill is the subject of a separate study accompanying this report.

[1] Scugog Waste Management Facility - 1623 Reach Street.

The subject Site is associated with three (3) municipal addresses. These are 1520, 1540 and 1580 Reach Street. At 1520 and 1580, existing residences and old farm structures (e.g., abandoned silos and/or stone foundations) are present. A residence and a farm shop are located at 1540 Reach Street. A single residential dwelling located at 1552 Reach Street is bordered by the Site, but is not included in the proposed development.

2.2 Surficial Geology

As illustrated by Figure 4, the surficial geology of the Site and surrounding area is dominated by glaciolacustrine deposits, consisting largely of layered sand in the west and layered silt and clay in the east. These deposits represent the remnants of an ancient period of post-glacial inundation. It is unlikely that there is a sharp contact between the two types, but rather a transitional change from one to the other across the area.

In the centre of the Site and sporadically to the east, elevated areas comprised of stone-poor, sand and silt till occur, in drumlinized ridges that are typically oriented with north-south axes. The drumlins are composed of Newmarket Till, a widely recognized regional aquitard. During the post-glacial inundation, some of the drumlins were likely small islands or shoals. The on-site drumlin is mapped as having fluvial terracing around its northern flanks, suggesting a remnant beach or shoreline. Other drumlins in the area appear to be less topographically pronounced, suggesting they were water-covered at one time.

Published mapping (not illustrated) indicates the Site and surrounding area is underlain by shales of the Whitby Formation. Local well records (e.g., No. 7108816) suggest that the bedrock occurs below a depth of at least 76 m below the Site.

The results of recent borehole drilling have, for all intents and purposes, confirmed the regional geology.

3.0 Assessment of Past Uses

3.1 Subject Site

Past uses of the subject Site have been catalogued as part of the Phase I ESA also being prepared by our firm in support of the application, under separate cover. While the Phase One Property only comprises the eastern two-thirds of the site that will be

changing land use from industrial (as per the current zoning) to residential/mixed use[2], the ESA includes a 250 m search radius for surrounding land uses, which includes the western third of the Site.

A brief evaluation of the past land uses as provided by the Phase I ESA has been tabulated below:

Table 1 - Evaluation of Past Uses

Land Use Description	Potentially Contaminating Activity (PCA)	Location	Findings
Agricultural (Crop) Production	Pesticide application	1520, 1540 and 1580 Reach St.	There was no indication of large scale pesticide use on the properties.
Residential	Oil heating tanks	1520 and 1580 Reach St.	Both sites no longer use oil and the area around the above-ground tanks and furnace rooms showed no evidence of current or historical leaks

The ESA has found that there was no evidence of Potentially Contaminating Activities (PCAs) on the subject properties. The reader is referred to the accompanying Phase I ESA for additional details.

Despite the preceding and as a screening measure, each of the PCAs have been considered and factored into the sampling and analysis plan summarized in a subsequent section of this report.

3.2 Surrounding Up-Gradient Uses

The migration of any potential contaminants from neighbouring properties has been considered as part of this assessment. While airborne contaminants are possible, these tend to occur in extremely small quantities and are typically regulated through an Environmental Compliance Approval (ECA) from the Ministry of the Environment, Conservation and Parks (MECP), which typically includes stipulations not to exceed certain criteria to protect adjacent properties. As a result, groundwater represents the principal mechanism by which contaminants from a neighbouring property can reasonably migrate onto the Site.

Based on the groundwater flow direction being radial from the apex of the drumlin on

[2] As the proposed land use for the western third of the site will be consistent with the current zoning, a Record of Site Condition (RSC) is not anticipated to be required for that portion of the property.

the site, as presented in the accompanying preliminary hydrogeological study, the only up-gradient potentially contaminating land uses occur immediately south of the subject property. The adjacent, up-gradient land uses within 250 m of the subject site are briefly summarized below:

Table 2 - Adjacent Land Uses

Land Use Description	Potential Contaminants of Concern	Location
Agricultural (Crop) Production	Pesticide applications	South of the eastern two-thirds of the Site (i.e., the proposed industrial lands), associated with #1541 Scugog Line 6.
Waste Management Facility	Metals, VOCs and SVOCs	South of the proposed industrial lands, associated with #50 and #51 Taylor Blvd.
Liquid Fuel Storage	VOCs, BTEX and PHCs	South of the proposed industrial lands, associated with #39 Taylor Blvd.
Ready Mix (Concrete) Plant	Alkalinity, metals and pH	South of the proposed industrial lands, associated with #38 Taylor Blvd.
Vehicle storage/Maintenance	VOCs, BTEX, PHCs, SVOCs and Metals	A salvage yard and various industrial buildings on Taylor Blvd. that contain vehicle bays for maintenance.

With the exception of the adjacent agricultural land use, all of the potentially contaminating activities outlined above occur up-gradient of the proposed industrial lands, within the lowest elevations found on the Site (where filling, rather than excess soil generation would be expected). As a result, a significant quantity of excess soils are not expected to be generated from areas directly downgradient of the above-listed land uses. Regardless, the above has been incorporated into the sampling and analysis plan summarized below.

4.0 Sampling and Analysis Plan

4.1 Sampling and Analysis Plan

The sampling and analysis plan prepared for this investigation is presented in Appendix C. The Plan tabulates the various investigation locations, methods, rationale and selection of analytical parameters. Although the Phase I ESA has determined that the site contains no Areas of Potential Environmental Concern (APEC), it is important to recognize that the Phase I ESA property does not include lands on the subject site

that will remain industrial. As a result, one (1) APEC, referred to as APEC #1 has been identified on the subject site (only for purposes of this excess soil assessment) as provided in Appendix C.

To provide an overall characterization of the site, the Plan is somewhat generic and is intended to characterize the soil quality with respect to a wide range of potential contaminants over a wide coverage area. Despite there being no indication of large-scale pesticide use, this strategy was also relevant as a check on the Phase I ESA findings. As the extent of APEC #1 (potential for contamination from neighbouring industrial land uses) could not be determined without obtaining the groundwater flow direction from wells installed on the subject site, BH25-7 was advanced in an area believed to be downgradient from these uses, but still in a location that would be relevant to the concurrent studies.

In the absence of any other discrete APECs, sample locations primarily targeted areas where the preliminary Concept Plan suggested that cuts generating potential excess soil would occur and/or where trenching may be required for buried services. The subsurface investigations were also designed to accommodate the needs of the preliminary hydrogeological study, with consideration for the preliminary geotechnical investigation.

4.2 Media Investigated

The investigated media were soils beneath and on the surface of the Site. No sediment sampling was undertaken because there are no permanent water bodies on the subject Site.

No off-site soils investigations were conducted during this study.

4.3 Rationale for Exclusion of Topsoil from Testing

The rationale for exclusion of topsoil sampling during this study is provided below:

- The previous land use of the subject Site was primarily agricultural which is exempt from planning requirements under O. Reg 406/19 and is considered a low risk for contamination.

- O. Reg 406/19 is not applicable to topsoil, as defined in the Municipal Act which is transported directly for reuse at a property and is not/has not been, an enhanced investigation project area and the primary purpose of the project is not to remediate contaminated soils.

- Any excess topsoil generated by the proposed development will remain on-site for later landscaping reuse.

- Based on the results our Phase I ESA, there are no areas of potential environmental concern (APECs) on the Phase I property (comprising the eastern two-thirds of the site) that would suggest the need for surficial soil sampling.

4.4 Rationale for Exclusion of Parameters

Benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbon (PHC) fractions F1 to F4, metals and pH are the parameter suites generally recommended by O. Reg. 416/19 for non-APEC areas. The rationale to exclude analyses of BTEX and PHCs from some of analyses is provided below:

- The previous land use of the subject Site was largely agricultural which is exempt from planning requirements under O. Reg 406/19 and is considered a low risk for contamination.

Regardless, all samples included analysis of pH, metals, PHCs and volatile organic compounds (VOCs), including BTEX, for site screening purposes. Site screening locations for semi-volatile organic compounds (SVOCs) were selected based on the neighbouring property use (APEC #1) and locations expected to be furthest downgradient on the subject Site. Similarly, pesticide scans were completed to evaluate the findings of the Phase I ESA at widely distributed locations targeting both the shallow soils (< 3 m deep) and the shallow aquifer (saturated) soils.

4.5 Deviations from Sampling and Analysis Plan

There were no deviations to the sampling and analysis plan that would have affected the investigation.

4.6 Impediments

All requested areas of the subject Site were accessible and there were no physical impediments that affected the investigation.

5.0 Current Soil Quality Investigations

5.1 Field Methods and Protocols

All field procedures were conducted in general accordance with the MECP Rules for Soil Management and Excess Soil Quality Standards under O. Reg. 406/19, and the MECP Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (as amended), and standard industry practice.

Sampling and laboratory analyses for the excess soil characterization investigation followed the Plan set out in Appendix C.

To explore the subsurface conditions, ten (10) small diameter boreholes were advanced about the site by ACE Environmental Drilling Ltd., at the locations illustrated by Figure 5. Prior to commencing any subsurface investigations, buried utilities were cleared by Ontario One-Call (public) and a private locate service (OnSite Locates Inc.).

The drilling was conducted with a Geoprobe 3126GT, with samples collected using a 50 mm diameter split-barrel, with the ability to recovery approximately 610 mm of soil. Between split-spoon samples, both 6.25 inch diameter hollow stem augers and 4.5 inch diameter solid stem augers were utilized to advance the boreholes. Additional samples were collected from the auger bit for field identification and to supplement any split-spoon samples that recovered minimal or no sample.

During the drilling, a continuous log of the formations encountered was maintained in the field. Representative samples were collected for grain size distribution testing and follow-up identification/classification. Representative boreholes were completed as 2" PVC monitoring wells to facilitate groundwater level monitoring, sampling and hydraulic testing (as discussed in a following section).

In addition to the borehole drilling, a series of manual auger probes and test pits were advanced about the site to explore the near surface soil conditions between the boreholes, at the locations indicated on Figure 5.

The field borehole soil logs are presented in Appendix D.

During the subsurface investigations, all samples and well casings were subject to combustible gas measurements utilizing a recently calibrated RKI Eagle gas detector set to exclude methane, to assist in determining the presence of potential volatile contaminants. The compiled combustible headspace gas measurements are presented in Appendix E.

Upon completion of the subsurface investigations, the locations of all boreholes and test

pits were determined using a mapping-grade GPS unit, with a relative horizontal accuracy of 1.5 m, according to the information provided by the unit. Elevations were obtained from the LiDAR topographic data described above.

All samples were collected in laboratory-supplied containers specific to the media being sampled and analyses being requested. Where necessary, containers were pre-charged with appropriate preservatives by the laboratory. Each container was labelled with a laboratory supplied label and given a unique sample name. Samples were placed in coolers with ice immediately after they were collected. Chains of custody were completed. Chains of custody were relinquished to the laboratory with the sample coolers.

5.2 Analytical Testing

Soil samples were submitted to Caduceon Environmental Laboratories (Caduceon) in Kingston, Ontario, for chemical quality analyses. Caduceon is a Canadian Association of Laboratory Accreditation (CALA) accredited laboratory and all analytical procedures were conducted in accordance with the MECP Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (as amended).

The analytical methods used by the laboratory are referenced in the certificates of analysis presented in Appendix F.

5.3 Shallow Soil Stratigraphy

The subsurface explorations reveal that the shallow soil stratigraphy is comprised of the following soil types.

i) *Newmarket Till* (ML - SM Type). The till unit occurs as a mixture of silt, sand and clay, with minor fine (angular) gravel and occasional cobbles. Based on tactile examination and the grain size distribution test data, this unit is mostly considered an ML type soil under the Unified Soil Classification System (USCS). However, the upper approximately 3 m (~10 ft) of the till can appear slightly sandier and varies between an SM and ML type soil. The upper till can be differentiated from the lower till by a distinct change in colour from light brown (upper) to grey (lower).

   The till occurs directly below the topsoil primarily along the central drumlin ridge and sporadically on either side of the feature, where the overlying glaciolacustrine deposits are absent, possibly due to erosion or a greater

thickness of the till.

ii) *Glaciolacustrine sand and silt* (SM-SP Type). This unit occurs on both sides of the drumlin ridge, where the gradient is more subdued. The sand and silt on the site mostly mantles glaciolacustrine silt and clay (discussed below). However, manual auger boreholes in the southeastern corner of the site suggests the sand and silt may directly mantle the Newmarket Till between the drumlin ridge that occurs on the site and another that occurs to the southeast. As a result, the sand and silt southeast of the drumlin ridge occurs within a valley-like feature and may represent the remnants of a post-glacial watercourse or spillway. This valley-like feature now contains Cawkers Creek.

The glaciolacustrine sand and silt occurring east of the drumlin ridge was observed to be up to 1.78 m thick (BH25-6) and varied between an SM and SP type soil, occasionally containing subrounded coarse sand and gravel, especially in the southeastern extent of the site. Lamination (i.e., layering) of the sand and silt was observed, with the percentage of fine grained soils typically increasing with depth (i.e., "fining down").

Similar glaciolacustrine sand and silt was observed to occur west of the drumlin ridge. However, these soils were observed to be somewhat discontinuous west of the ridge, likely due to post-glacial erosion when the area was inundated with glacial meltwater. Regardless, BH25-9 intersected a 1.48 m thick sequence. Grain size distribution analyses (described below) confirmed that the soils are best characterized as an SM-SP type.

iii) *Glaciolacustrine silt and clay* (CL-ML Type). Similar to the glaciolacustrine soils described above, this unit occurs on both sides of the drumlin ridge and overlies the Newmarket Till. The unit is highly layered and exhibits occasional, very thin, fine sand seams, with very occasional gravel clasts (possible drop-stones). These deposits would have formed when the area was covered by stagnant or slowly moving glacial meltwater.

Grain size distribution (hydrometer) analysis of a sample obtained from BH25-6 suggests the soils are best described as an ML type. However, field observations suggest the soils may vary between CL and ML types.

Where saturated, these soils were observed to become very soft and were easily penetrated by the drill. While some sand was noted to occur where these soils were saturated, it was difficult to recover the liquified materials.

Representative cross sections of the shallow soils are provided by Figures 6 and 7. The cross sections are taken from the accompanying hydrogeological study and include borehole data from the former landfill site to the north and historical monitoring wells (MW-1, MW-2, MW-3 and MW-4) observed on-site.

6.0 Soil Quality and Re-Use Options

6.1 Quantity of Excess Soil

The Preliminary Concept Plan provides some indication of areas that will require filling and areas from which cuts will potentially generate excess soils. At this time, there appears to be a rough balance between the two, based only on comparing the existing topography to projected future spot heights. However, no estimates of potential excess soil volumes generated by excavating servicing trenches, residential basements and/or the stormwater management ponds (for example) have been provided. As such, we have no estimate of the likely volume of excess soils that the development could generate, if any.

6.2 Shallow Soil Quality

6.2.1 Soil Texture

Based on the observed soils from the subsurface investigations, the dominant soil texture on the subject site is considered to be **coarse**. As such, the soil typically contains more than 50% by mass of particles that are 75 micrometres or larger in mean diameter. While the grain size distribution analysis (Appendix G) suggests the deeper till unit can exhibit marginally more than 50% particles by mass that are under 75 micrometres in mean diameter, the till contains cobbles and boulders that are not captured by the analysis. Similarly, while the glaciolacustrine silt would be considered fine textured, it can be layered with fine sand, enhancing hydraulic conductivity.

6.2.2 Soil Gas

As provided above, the results of the combustible headspace gas measurements are presented in Appendix E. Only one (1) sample collected from the borehole drilling exhibited a combustible headspace gas concentration exceeding 200 ppm. A sample collected from the saturated (shallow aquifer) soils at BH25-5 exhibited a headspace gas concentration of 310 ppm. As a sample from this borehole and from the aquifer materials were already included in the Sampling and Analysis Plan (Appendix C), no modifications to the Plan were required.

As a screening tool, headspace gas measurements were also collected from each of the monitoring wells on the subject site, including historical monitoring wells (referred to as MW-1, MW-2, MW-3 and MW-4) located in the northwestern corner of the property that are understood to have been constructed for the purpose of investigating the area for a potential municipal pump station. As provided in Appendix E, the results from the headspace gas measurements were unremarkable.

6.2.3 Soil Quality

The excess soil analytical results have been compared to the pertinent regulatory standards (i.e., O. Reg. 406/19 Tables, as listed in the Rules for Soil Management and Excess Soil Quality Standards), as presented in Appendix F.

As presented, two (2) samples were reported to contain Dichloromethane (Methylene Chloride) above the Table 1 limit stipulated by Ontario Regulation (O. Reg.) 406/19. The samples were collected from the shallow (unsaturated) soils (i.e., <3 m deep) at BH25-1 and at BH25-9, occurring approximately 720 m apart.

Methylene Chloride is a colourless, odourless solvent that quickly volatilizes in the presence of oxygen. It is also utilized by environmental laboratories in the preparation (chemical extraction) of samples. Given the distance between boreholes and the absence of any known contaminating activity on the site that could be contributed to the Methylene Chloride occurrence, follow-up soil samples were collected from the general area of BH25-1 and BH25-9 by excavating a test pit and using a manual auger probe.

As provided in Appendix F, composite samples were forwarded to Caduceon Environmental Laboratories and were found to have Methylene Chloride concentrations below the laboratory's method detection limit (MDL). As a result, it is expected that the initially reported exceedances were anomalous and not representative. Follow-up with the laboratory determined that these were likely caused by an error during the processing of the initial samples. However, there was insufficient sample remaining following the original analyses to re-run the samples.

As provided in Appendix F, all of the soils sampled during the investigation meet the Table 1, Excess Soil RP/1/CC Standards. As such, there should be no significant restrictions on the reuse of any excess soils obtained from the subject Site.

Given the location of the neighbouring industrial uses with respect to the interpreted groundwater flow direction (Figure 8), it is expected that any capillary zone and/or saturated soils removed from the area indicated on Figure 8 (if any) will require an additional investigation to determine if the soils meet the applicable limits of the

receiving site. For all intents and purposes this area has been referred to as a "Preliminary Additional Soils Investigation Area" in the event that soil from this area is to be transferred to a beneficial reuse site.

In addition, it is important to note that soils must not contain debris, such as discarded construction materials (e.g., brick) to be considered an excess soil under O. Reg. 406/19. As a result, it may be necessary to separate debris from the soils in and around the existing residences and outbuildings, should those areas generate excess soil.

6.2.4 Guidelines for Off-Site Reuse of Excess Soil

Although there should be no quality-related limitations on the reuse of excess soils generated by the proposed development, the movement of excess soils in Ontario is partially controlled by the requirements of O. Reg. 406/19, as amended, and the Rules for Soil Management and Excess Soil Quality Standards. Unless otherwise exempt, large quantities of excess soil should only be directed to beneficial reuse sites for which a Soil Management Plan is in effect, to ensure that the receiving site can accept the excess soil, conduct whatever testing is needed, and maintain proper records.

Some municipalities have Fill or Site Alteration By-laws that govern the acceptance of excess soils. Such By-laws may require obtaining a permit before the excess soils can be accepted, regardless of the status of the soil under O. Reg. 406/19. In some instances, the permitting requirements can be superceded by Development and/or Site Plan agreements. While it is the responsibility of the reuse site's owner/manager to ensure that the excess soils can be accepted, those responsible for generating the excess soils should conduct their own due diligence to ensure that the excess soils leaving the site are being managed properly.

The Ontario Stone, Sand & Gravel Association has published an easy-to-read flow chart that has been included in Appendix H. While the requirements may be updated from time-to-time, this chart provides a generalized procedure for managing excess soils.

7.0 Conclusions and Recommendations

7.1 Shallow soils at the subject Site are dominated by Newmarket Till in the topographically elevated portions of the site, associated with a drumlin ridge feature. The lower topography on the site is generally comprised of glaciolacustrine deposits of sand/silt and silt/clay. Generally, most of the shallow soils (above a depth of approximately 3 m) will appear sandy, resembling an SM type soil that is underlain by a silt till or glaciolacustrine silt/clay, resembling an ML to CL type in accordance with the Unified Soils Classification System (USCS).

7.2 In the absence of a cut and fill plan or estimates of the potential volumes of excess soil that could be generated by the proposed development, our assessment has utilized a generic approach to exploring and testing the shallow soils, by distributing samples across the site with additional samples collected where cuts are to be expected based on the available grading plan.

7.3 The analytical soil quality data indicate that all tested soils meet the Table 1 criteria under the Rules for Soil Management and Excess Soil Quality Standards under O. Reg. 406/19, as amended. The results are consistent with the findings of a Phase I ESA, also being conducted for the application. As such, there should be no restrictions on the reuse of any excess soil generated by the proposed development.

Notwithstanding these results, the reader is cautioned that the completed subsurface explorations and sampling locations are fairly widespread and represent the conditions at the time of our subsurface investigations in November/December 2025. Additional confirmatory sampling may be required in accordance with the requirements of the beneficial reuse site and/or if a significant amount of time lapses prior to excavation activities on the site.

One (1) area of the site has been identified as a discrete Area of Potential Environmental Concern (APEC) due to neighbouring industrial land uses being directly upgradient. As a result, Figure 8 illustrates an area of the site that would require an additional soil quality investigation should any excavated materials from that area need to be transported for reuse off-site. As the APEC occurs in a topographically low area of the site, the removal of a significant volume of soil from this area is not anticipated.

7.4 Any person considering accepting excess soil from the subject Site for placement at a beneficial reuse site should be provided with a copy of this report and should satisfy themselves as to the quality of the excess soils and whether all regulatory requirements

have been met prior to receiving those soils.

7.5 It's important to recognize that this report does not constitute an investigation under the requirements of Ontario Regulation (O. Reg.) 153/04. While some of the data contained in this report may be helpful for that purpose, certain aspects of this study omit planning, sampling and analysis protocols that would be conducted under O. Reg. 153/04 (e.g., groundwater sampling and analysis).

* end of report *

Oakridge Environmental Ltd.

Dan MacIntyre, BSc.
Hydrogeological Technician



Brian R. King, P. Geo.
Principal

Selected References

Armstrong, D. K., and T. R. Carter; *The Subsurface Paleozoic Stratigraphy of Southern Ontario*. Vol. 7. Sudbury, Ontario: Ontario Geological Survey, 2010.

Association of Professional Geoscientists of Ontario, *Guidance to Environmental Site Assessments under Ontario Regulation 153/04 (as amended)*, Aprill 2011.

Barnett, P.J.; *Quaternary Geology of Ontario*; *in* Geology of Ontario, Ontario Geological Survey, Special Volume 4 (Part 2), Ministry of Northern Development and Mines, 1992.

Canadian Council of Ministers of the Environment; *Excess Soil Reuse Guidance*, CCME, 2025.

Chapman, L.J. & Putnam D.F.; *The Physiography of Southern Ontario*, Map 2226, Ontario Department of Mines, 1984 (Rev).

Gibson and Associates Limited; *Phase 1 Letter-Report, Hydrogeologic Assessment, Proposed Residential and Industrial Development, Part of Lots 15 and 16, Concession 8, Township of Scugog, Regional Municipality of Durham*, File No. F-825, January 16, 1991.

Ontario Ministry of Environment, Conservation and Parks; *Excess Soil Fact Sheets*, King's Printer for Ontario, updated 2024.

Ontario Ministry of Environment, Conservation and Parks; *Guide for Completing Phase Two Environmental Site Assessments Under Ontario Regulation 153/04*, Queen's Printer for Ontario, updated 2021.

Ontario Ministry of Environment, Conservation and Parks; *Management of Excess Soil - A Guide for Best Management Practices*, Queen's Printer for Ontario, updated 2021.

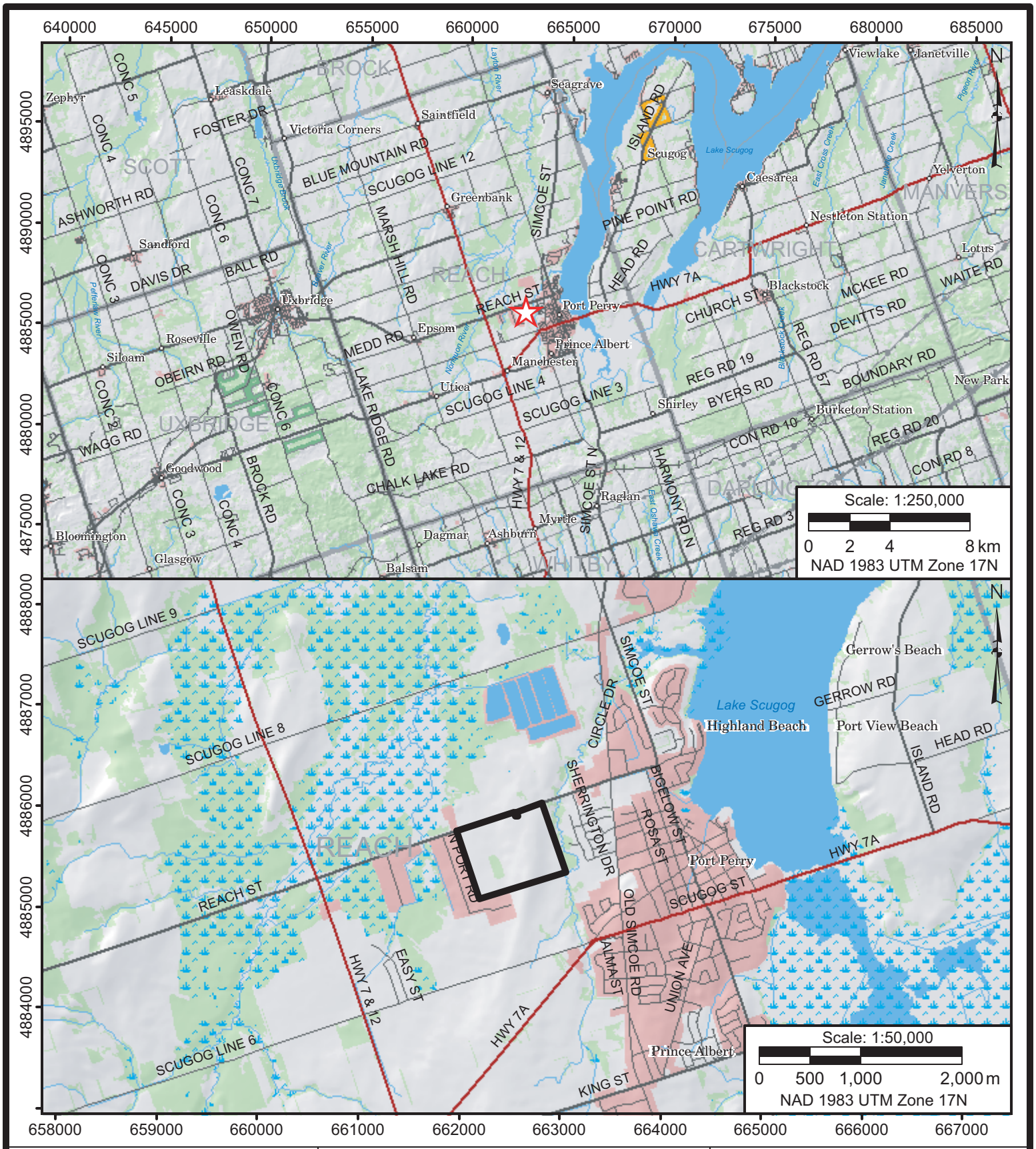
Ontario Ministry of Environment, Conservation and Parks, *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality*, Queen's Printer for Ontario, Version 3.1, 2021.

Ontario Ministry of Environment, Conservation and Parks; *Rules for Soil Management and Excess Soil Quality Standards*, King's Printer for Ontario, 2025.

Ontario Stone, Sand & Gravel Association (OSSGA); *Excess Soil Guidance for Aggregate Producers*, Version 2.0, issued June 2021.

Piryonesi, S.M., Carneige, D., and Weissling, L.; *Scientific Report: Beneficial Reuse of Excess Soil at Aggregate Pits and Quarries*, Ontario Society of Professional Engineers, 2021.

Figures



Approximate Site Location

Approximate Property Boundary

Notes:
Base mapping provided by the Ontario Ministry of Natural Resources (MNR) Geospatial Ontario (GEO) database, copyright the King's Printer (2026)

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Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

North American Datum (NAD) 1983

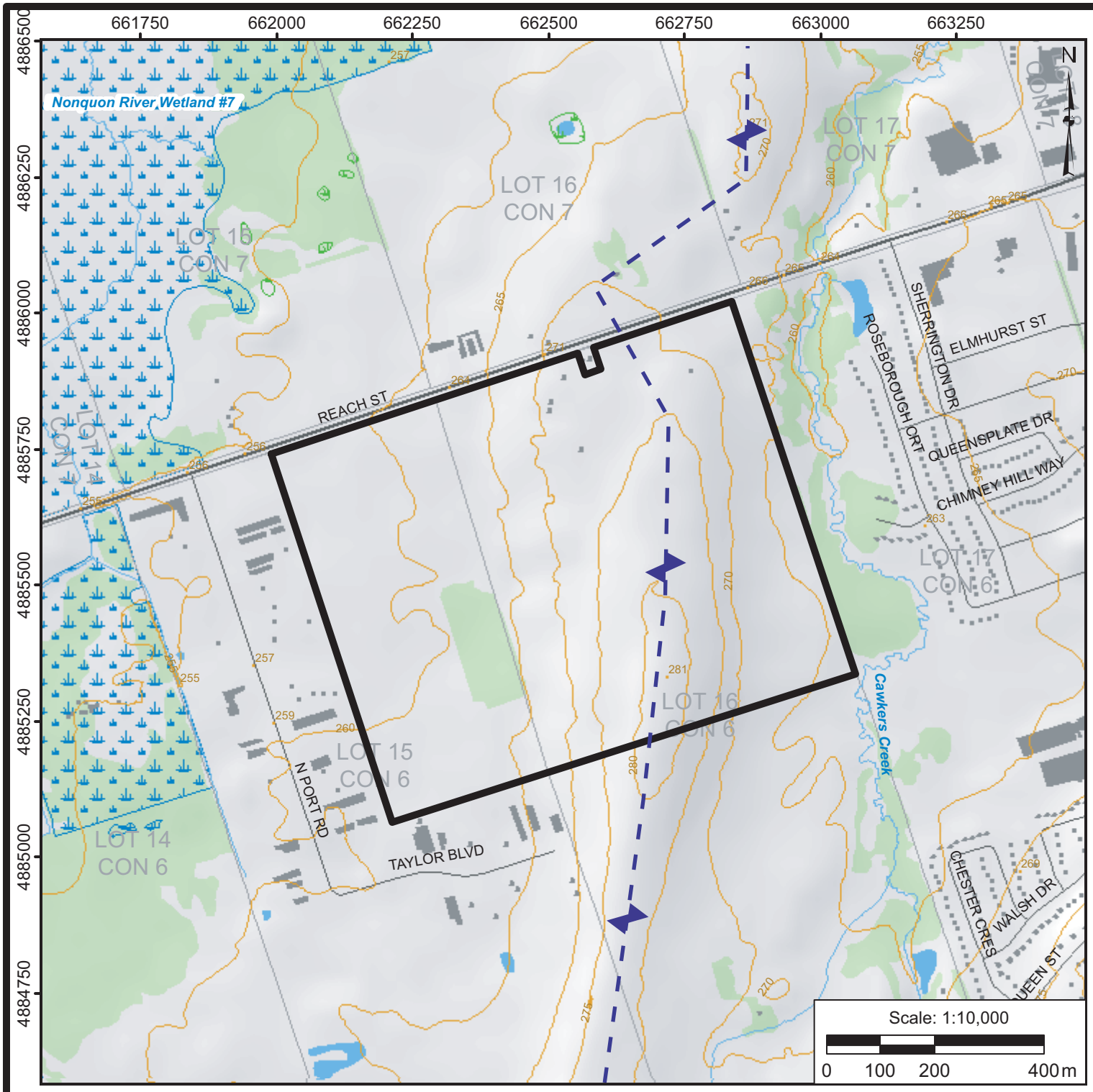
TITLE
General Location

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT # 25-3614

DATE March 2026

FIGURE NO. **1**



Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

- Approximate Property Boundary
- Wetland (Unevaluated)
- Wetland (Provincially Significant)
- Waterbody
- Wooded Area
- Building (to scale)
- Geographic Lot Fabric
- Watercourse
- Highway
- Arterial Road
- Road
- Contour (5m Intervals)
- Drainage Divide
- Building (symbol)
- Spot Height (m asl)

Notes:
Base mapping provided by the Ontario Ministry of Natural Resources (MNR) Geospatial Ontario (GEO) database, copyright the King's Printer (2026)

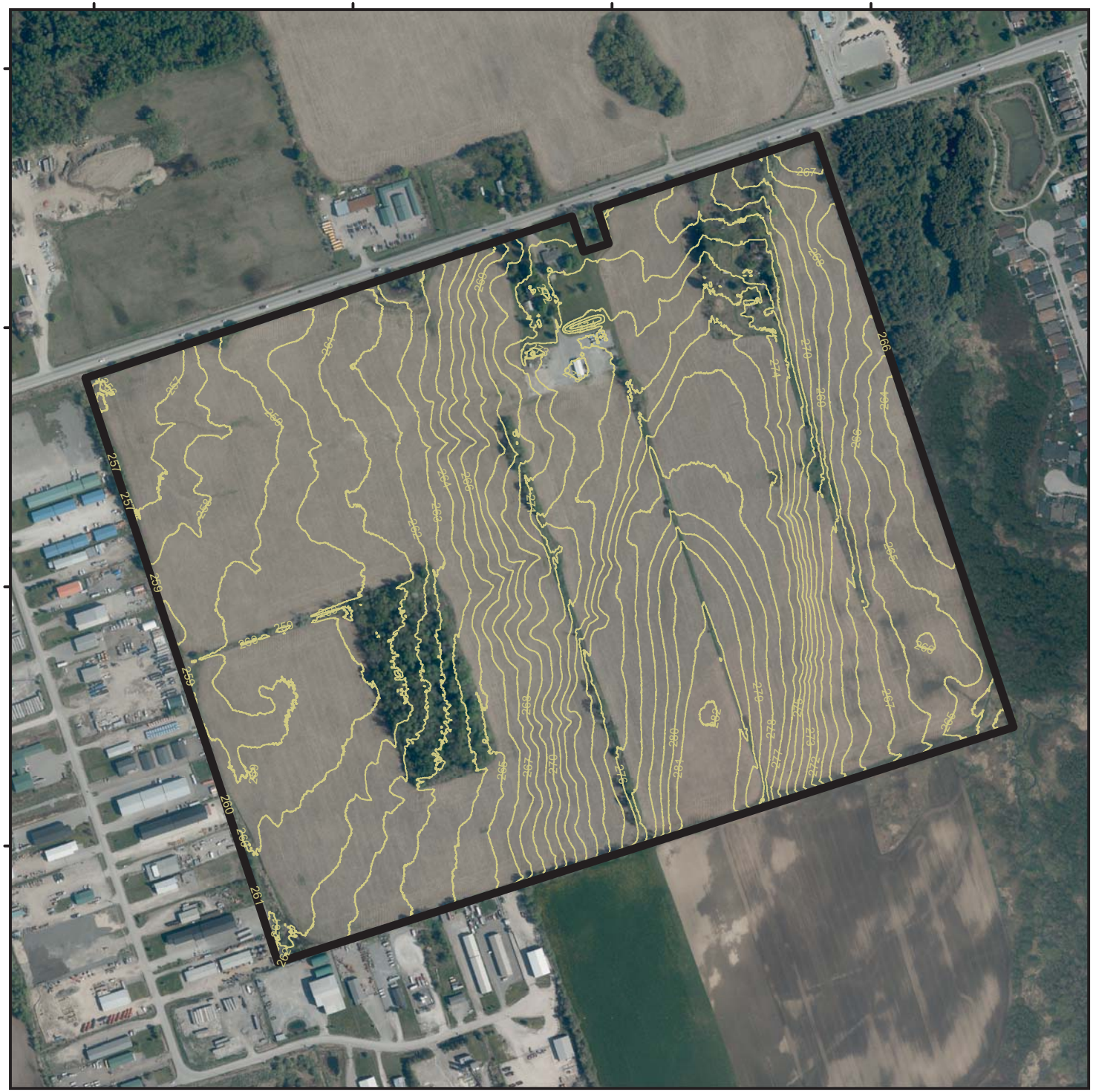
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TITLE

Topography and Drainage

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT #	FIGURE NO.
25-3614	**2**
DATE	
March 2026	



Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

Approximate Property Boundary

DTM LiDAR Derived 1 m Contour (m asl)

N

Scale: 1:6,500

0 65 130 260 m

Notes:

Imagery provided by Ontario Imagery Web Map Service (OIWMS) (South Central Ontario Orthophotography 2023)

DTM LiDAR Derived 1 m Contour (m asl) obtained from the Ontario Digital Terrain Model (Lidar-Derived) [posted to Ontario GeoHub] utilizing the DEDSFM Kawartha Lakes 2023 project, package KawarthaLakes-DTM-01

m asl - metres above sea level

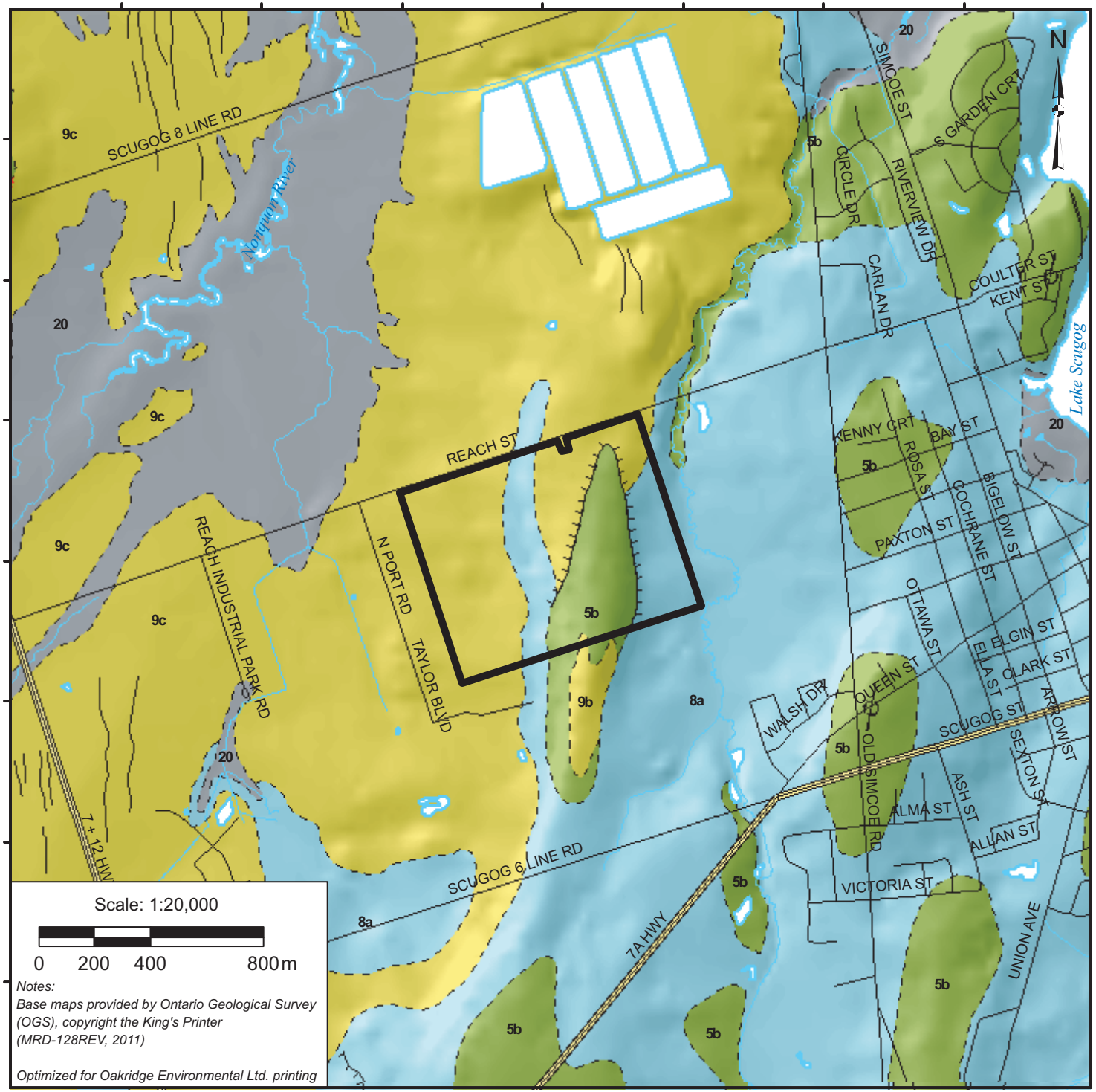
TITLE

LiDAR Topography

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT #	FIGURE NO.
25-3614	**3**
DATE: March 2026	

Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region



NAD 1983 UTM Zone 17N

- Approximate Property Boundary
- Drumlin or Drumlinoid Ridges
- Shore Bluff or Scarp
- Ribbed or Rogen Moraine (arrows indicate direction of ice flow)
- Fluvial Terrace
- Contact (approximate/assumed)
- 5b — Glacial Deposits (Till): Stone-poor, carbonate-derived silty to sandy till
- 8a — Fine-textured glaciolacustrine deposits: Massive-well laminated
- 9b — Coarse-textured glaciolacustrine deposits: Littoral-foreshore deposits
- 9c — Coarse-textured glaciolacustrine deposits: Foreshore-basinal deposits
- 20 — Organic deposits
- Waterbody
- Watercourse

TITLE

Surficial Geology

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT #	FIGURE NO.
25-3614	4
DATE	
March 2026	

662000 662250 662500 662750 663000 663250

4886000 4885750 4885500 4885250 4885000

N

B B'

A A'

REACH ST

N PORT RD

ELMHURST ST

ROSEBOROUGH CRT

ROSEBOROUGH DR

SHERRINGTON DR

6-1

11-1 W-5

HA25-15 BH25-5

W-3 W-4

T-9 W-2 W-1 BH25-3

T-8

MW-2 MW-3 MW-4 T-1 MW-1

HA25-3 HA25-4 HA25-5 T-14

HA25-6

BH25-4 BH25-10

HA25-14 BH25-9 T-15

T-2 BH25-8 T-7

T-10 BH25-2 T-13

BH25-6 HA25-11 HA25-10

HA25-13 BH25-1 HA25-7 HA25-8

T-3

HA25-1 HA25-2 T-12 HA25-12

BH25-7 T-6 HA25-9

T-11

T-5

T-4

Scale: 1:5,000

0 50 100 200 m

NAD 1983 UTM Zone 17N

Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry

Township of Scugog, Durham Region

- Approximate Property Boundary
- Approximate Easement (Bell Canada)
- Glacial Till Terrain
- Galciolacustrine Terrain
- Domestic Bored/Dug Well
- Domestic Drilled Well
- Monitoring Well (2025)
- Monitoring Well (Historical)
- Mechanized Borehole (2025)
- Manual Auger Borehole (2025)
- Off-Site Borehole / Monitoring Well (RWDI)
- Test Pit (Historical)
- Watercourse (Ontario GeoHub)
- A to A' Line of Section (Refer to Figure 5 for Propjected Cross Section)
- B to B' Line of Section (Refer to Figure 6 for Propjected Cross Section)

Notes: Imagery and base map features provided by Ontario GeoHub (SCOOP, 2023)

Feature locations determined by differential GPS (+/- 3.0 m)

Base plan provided by Sabourin Kimble & Associates Ltd. (2025)

Off-site borehole/monitoring well locations provided by Rown Williams Davies & Irwin Inc. (RWDI, 2025)

Historical terrain data provided by Gibson & Associates Ltd. (1991)

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TITLE

Physical Features

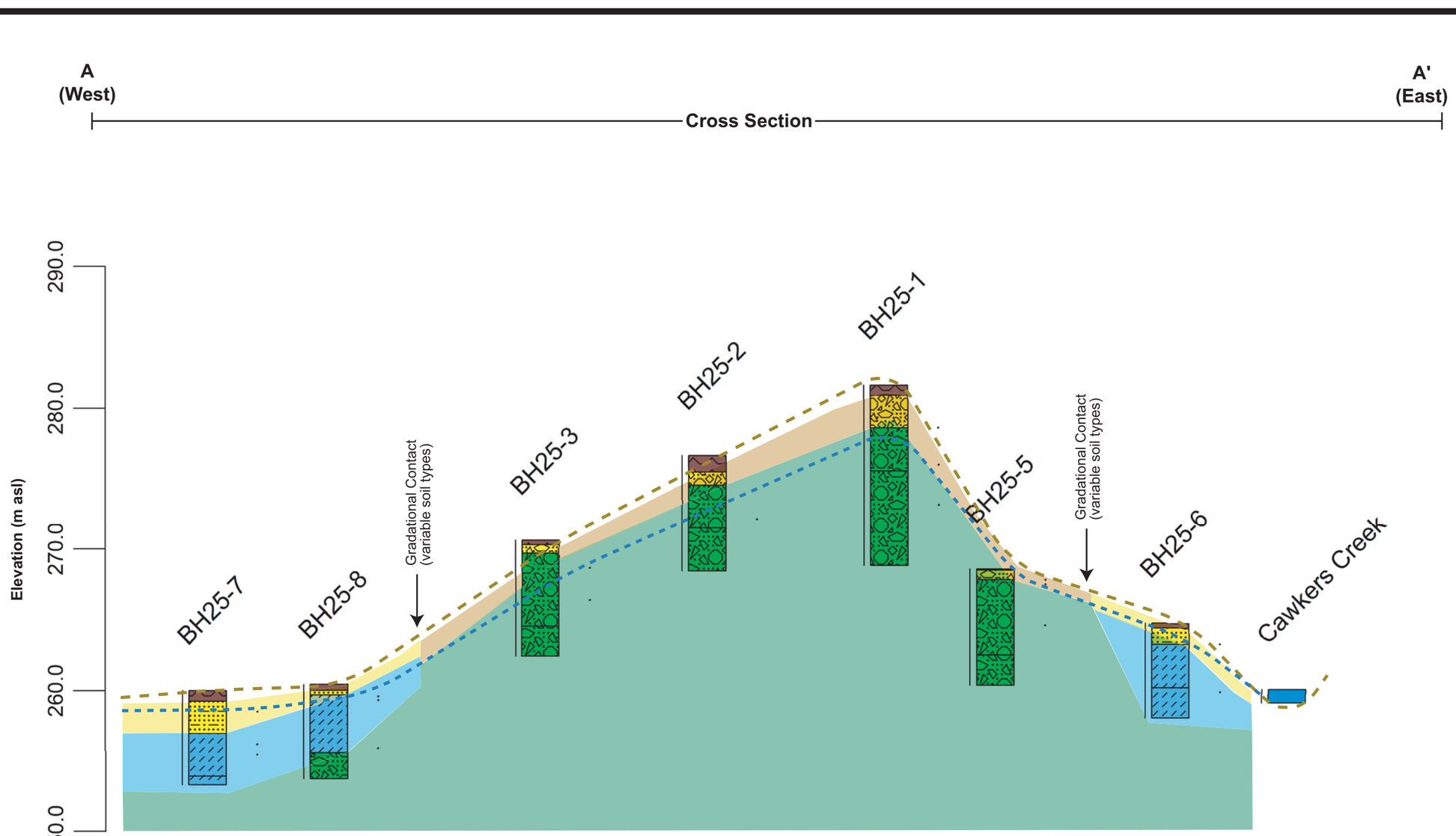
ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT # 25-3614

FIGURE NO. **5**

DATE March 2026

Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region



Annotation Legend

- Interpreted Ground Surface
- Interpreted Water Table / Potentiometric Surface
- Glaciolacustrine Sand
- Glaciolacustrine Silt/Clay
- Upper (Weathered) Sandy Till
- Lower Silt Till

- Topsoil
- Silty Sand (SM to SP Type)
- Clayey Silt (ML to CL Type)
- Upper Weathered Till (SM Type)
- Lower Till (ML Type)

Approximate Distance Along Projected Line of Section

0 50 100 200 m

Vertical Exaggeration: 10

Notes: Wells from the Water Well Information System, Ministry of the Environment, Conservation and Parks (MECP), 2023.

Refer to projected line of section on Figure 4.

Optimized for Oakridge Environmental Ltd. printing.

TITLE

W-E Local Cross Section

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT # 25-3614

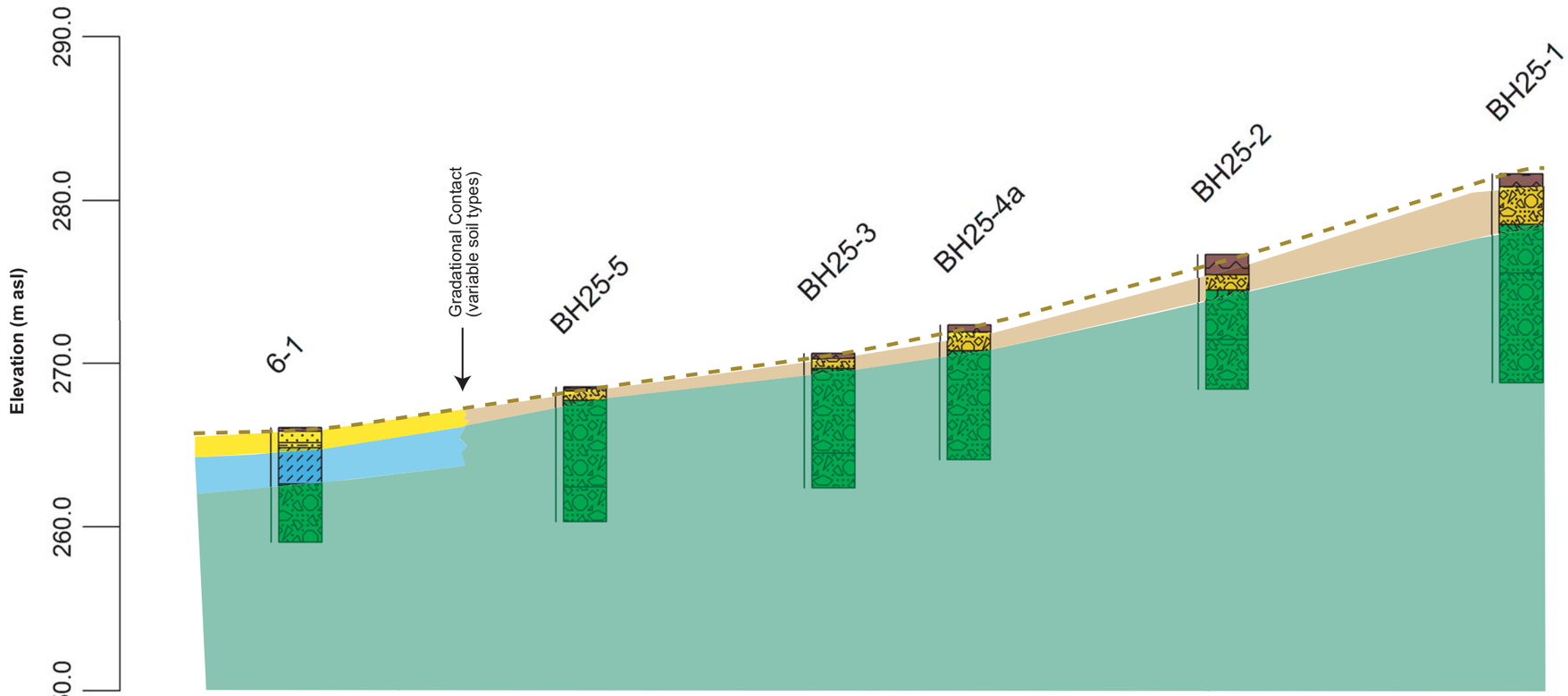
DATE March 2026

FIGURE NO. **6**

B (North)

Cross Section

B' (South)



Annotation Legend

- Interpreted Ground Surface
- Glaciolacustrine Sand
- Glaciolacustrine Silt/Clay
- Upper (Weathered) Sandy Till
- Lower Silt Till

Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

- Topsoil
- Silty Sand (SM to SP Type)
- Clayey Silt (ML to CL Type)
- Upper Weathered Till (SM Type)
- Lower Till (ML Type)

Approximate Distance Along Projected Line of Section

0 50 100 200 m

Vertical Exaggeration: 20

Notes: Wells from the Water Well Information System, Ministry of the Environment, Conservation and Parks (MECP), 2023.

Refer to projected line of section on Figure 4.

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TITLE

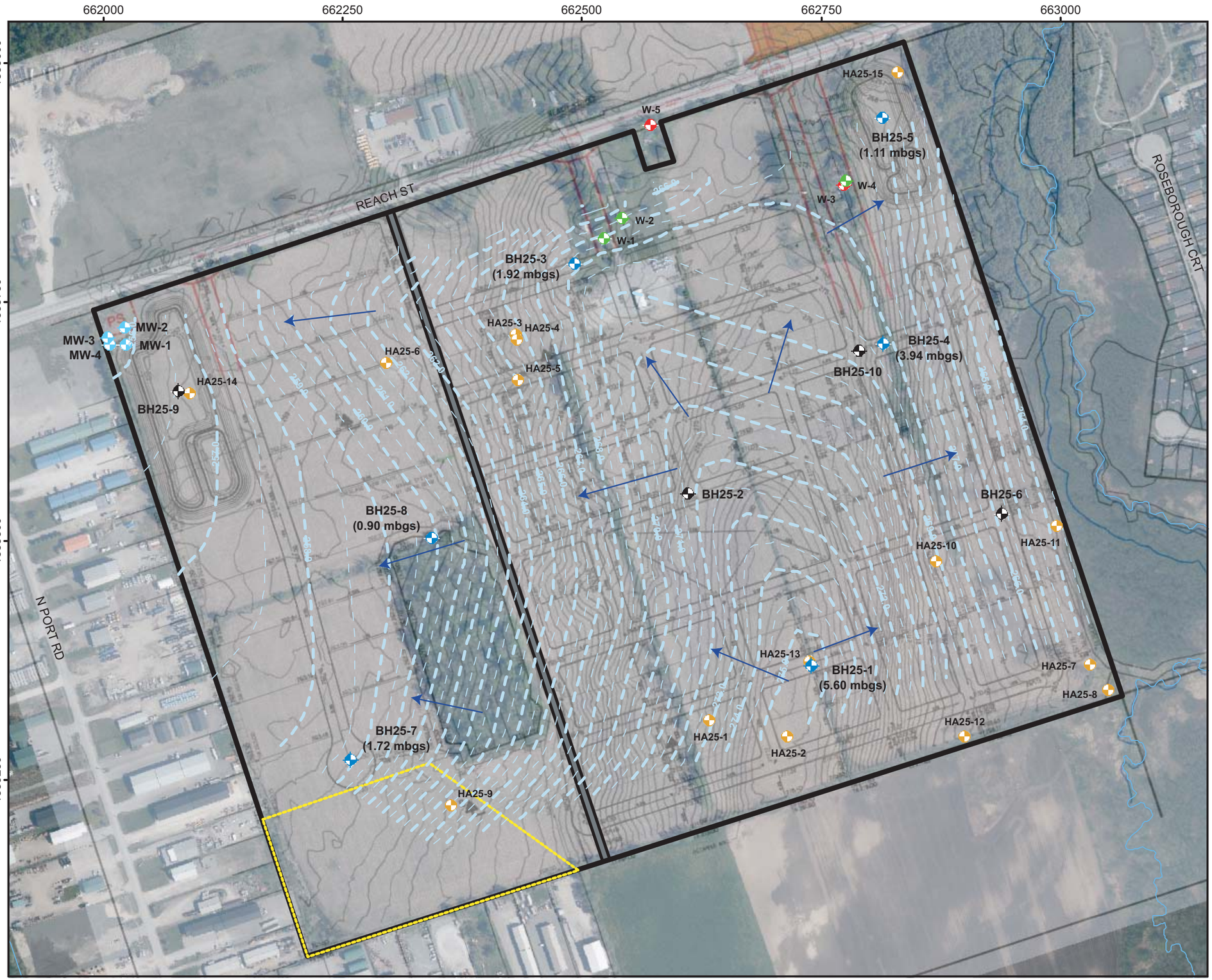
N-S Local Cross Section

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT # 25-3614

DATE March 2026

FIGURE NO. **7**



Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

- Approximate Property Boundary
- Approximate Easement (Bell Canada)
- Domestic Bored/Dug Well
- Domestic Drilled Well
- Monitoring Well (2025)
- Monitoring Well (Historical)
- Mechanized Borehole (2025)
- Manual Auger Borehole (2025)
- Test Pit (Historical)
- Watercourse (Ontario GeoHub)
- Water Table Contours
- Interpreted Groundwater Flow Direction
- Additional Soils Investigation Area (if required)

Scale: 1:4,000

0 50 100 200 m

Notes: Imagery and base map features provided by Ontario GeoHub (SCOOP, 2023)

Static water level elevations, water table contours and interpreted groundwater flow direction from December 17, 2025 water level data

Water table contours generated using a simple triangulation algorithm with no edge point interpolation

Feature locations determined by differential GPS (+/- 3.0 m)

Base plan provided by Sabourin Kimble & Associates Ltd. (2025)

Historical test pit locations after Gibson & Associates (1991)

Optimized for printing by Oakridge Environmental Ltd.

TITLE

Shallow Water Table

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT # 25-3614

DATE March 2026

FIGURE NO. **8**

Appendix A

Pre-consultation Letter

PRE-CONSULTATION & COMPLETE APPLICATION SUBMISSION REQUIREMENTS

Pre-Consultation Record Date:	March 4, 2025
Owner(s):	Richard Wannop
Applicant:	Malone Given Parsons
Address and Location:	1520, 1540 1580 Reach Street
Proposed Use(s):	New Community and Employment Area
Application Type(s) Requested:	Official Plan Amendments, Zoning By-law Amendments, Draft Plan of Subdivision

Township Staff and Outside Agencies:

- Valerie Hendry, Township of Scugog (Planning) – vhendry@scugog.ca
- Nick Dawkins, Township of Scugog (Chief Building Official) – ndawkins@scugog.ca
- Denise Stephenson, Township of Scugog (By-law Enforcement) – dstephenson@scugog.ca
- Grant Taylor, Township of Scugog (Public Works) – gtaylor@scugog.ca
- Ethan Green, Township of Scugog (Fire Prevention) – egreen@scugog.ca
- Bruce Alexander, RJ Burnside (Peer Engineering) - Bruce.Alexander@rjburnside.com
- Kurt Niles, Region of Durham (Works Department) – Kurt.Niles@durham.ca
- Lesley Kennedy, Region of Durham (Health Department) – Lesley.Kennedy@durham.ca
- Harmanpreet Kaur, Kawartha Conservation Authority – hkaur@kawarthaconservation.com
- Yan Yu, Durham District School Board - yan.yu@ddsb.ca
- Jody Dale, Durham Catholic District School Board – jody.dale@dcdsb.ca

DESCRIPTION OF PROPOSAL:

The applicant is proposing to develop a new community in Port Perry on certain lands municipality known as 1520, 1520, and 1580 Reach Street. Regional Council supported a conversion of 2/3rds of the subject lands from Employment Area to Community Areas in the Region's Official Plan. The remainder of the lands are Employment and also form part of the subject lands. The subject lands are approximately 40 hectares Community Areas and approximately 20 hectares Employment Areas (see below).

The applicant is seeking an Official Plan Amendment, Zoning By-law Amendment and Draft Plan of Subdivisions to develop the new community and employment area. The applicant's planning consultant has indicated to the Township that as part of their future application submission, studies will be submitted to address the Regional Official Plan secondary plan policies, and to conform with other provincial, Regional and local policies. They have also advised that they will be engaging with the public and agencies to help shape the final outcome of the land uses for these lands before approval.

The proposed development consists of two medium/high density residential blocks, open space and two residential streets within the Community Areas designation. A plan of subdivision will be required

for all of the subject properties to facilitate the creation of any proposed local roads, the various multiple residential blocks, and open space blocks within the Community Areas designation.

The Employment Areas are also proposed to be developed through a Draft Plan of Subdivision.

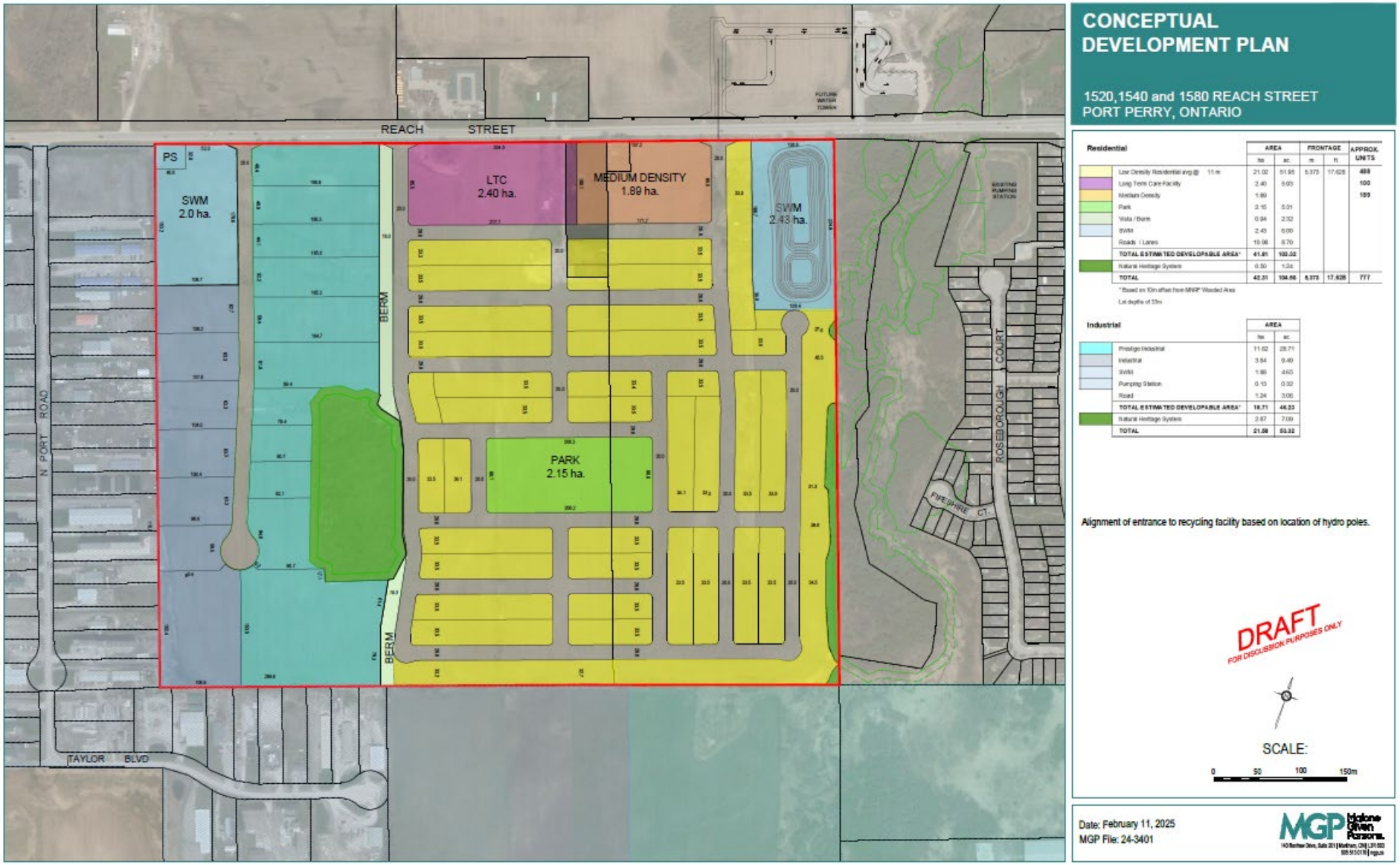
PLANNING POLICY CONTEXT:

REGIONAL OFFICIAL PLAN:	Community Areas and Employment Areas
SCUGOG OFFICIAL PLAN:	Prestige Industrial, General Industrial, Open Space, with Proposed Local Roads
ZONING BY-LAW 14-14:	Prestige Industrial (M1(H)), and General Industrial (M2(H)), Environmental Protection

MAP OF SUBJECT LAND:



PROPOSED PLAN:



AGENCY COMMENTS:

Region of Durham – Health Department

- The proposed development will be serviced by municipal water and sanitary services. The Health Department only requirements would be:
    - All existing private sewage systems be properly abandoned as per best management practices.
    - All existing private water wells be abandoned as per Ministry of the Environment's Regulation 903: Water wells.

Region of Durham – Works Department

- **1520 & 1580 Reach Street**

Municipal Servicing:

- The first phase, and full build out, of this Draft Plan will potentially be impacted in time, by other active developments in Port Perry and water and wastewater infrastructure projects. This will need to be confirmed and monitored as all applications move forward. The Region allocates capacity upon the execution of Subdivision Agreements on phase-by-phase basis. A list of active and future vertical infrastructure projects that could impact the timing for this development as follows:
- New Port Perry Wells
- New Port Perry Water Treatment
- New Port Perry Water Storage
- Reach Street SSPS Expansion
- New Employment Lands SSPS
- New Sewage Forcemains from the above SSPSs to the Nonquon WPCP.
- Future Expansion at the Nonquon WPCP.
- The applicant is required to submit a **Functional Servicing Report** with a future planning application.

Transportation:

- Reach Street is classified as a Type 'B' Arterial Road that required a right-of-way width of 30.0m as per the Region's Official Plan. Therefore, no road widening is required.
- The applicant shall provide a **Traffic Impact Study**. The Terms of Reference shall be scoped by the Region's Transportation group and the Township of Scugog.

Waste Management

- The Region of Durham provides organic, yard waste and garbage collection services to draft plans of subdivisions containing **residential lots and freehold townhouse blocks** in Township of Scugog.
- Any dead-end municipal road(s) must be designed and built with a permanent or temporary, cul-de-sac or "T" type turnaround. If the

residential development is built in stages or by multiple builders, municipal waste service may be delayed to completed homes due to access availability. All municipal road networks will be reviewed through the draft plan approval process and through the detailed design of any phase limits to ensure it complies with the *Technical and Risk Management Guidelines for Municipal Waste Collection Services on Private Property and for New Residential Developments in Durham Region*. All municipal roads, including rear laneways, must be built to a Regionally approved, area municipal standard road cross sections.

- Waste Management collection for residential **blocks** (other than freehold townhouse blocks) including any units within these blocks which will front onto a municipal road will be assessed for waste collection through the Site Plan approval process.
- On June 3, 2021, Ontario filed O.Reg. 391/21 under the Resource Recovery and Circular Economy Act and made product producers responsible for the Blue Box program including collection. The Regional Municipality of Durham no longer provides service for the Blue Box program.

Development Charges/ Regional Subdivision Agreement

- The applicant is required to enter into a Region Subdivision Agreement
- The proposed development is subject to residential that due prior to issuance of a building permit and as set out in the Regional Subdivision Agreement. Any non-residential parcels will be reviewed at the time of a future site plan applicant.

Summary

- As part of a future planning application submission, the applicant shall submit a Functional Servicing Report and a Traffic Impact Study.

Kawartha Conservation Authority (KCA):

- The subject properties are regulated by Kawartha Conservation as it is minimally within the Cawkers Creek floodplain in the southeast corner. Kawartha Conservation does not support new development and/or site alteration within the floodplain. Therefore, a review will be required.
- The following will be required for the planning application-
  - **Detailed Site Plan** showing existing and proposed conditions, including the locations of proposed buildings.
  - **Topographic Survey.**
  - **Floodplain Analysis and Mapping** if any changes are proposed, along with a demonstration that there will be no downstream flooding.
  - **Stormwater Management Plan** to ensure downstream flooding risks are addressed.
  - **Erosion and Sediment Control Plan** to prevent sediment from leaving the property.
  - Additional documents or a site visit may be required as necessary

Durham District School Board	• Staff has reviewed the information on the above-noted plan. Approximately 310 elementary pupils, and 135 secondary pupils may be generated by the above noted application. • Staff participated in the pre-consultation meeting on March 4th, 2025, and looking forward to hearing from the applicant to better understand the timing of the proposed development, once the information is ready, as this would impact the DDSB's future accommodation planning for Port Perry. • We look forward to working with the developer and the Township of Scugog to find a solution that would benefit future homeowners and families within this developing area. • Should you have any questions, please contact me via email at yan.yu@ddsb.ca
Durham Catholic District School Board	• Existing elementary school may be able to accommodate anticipate pupils from this development. • Existing Secondary School in Oshawa would accommodate anticipated pupils from this development.
Township of Scugog (Engineering) **Peer Engineer: R.J. Burnside**	• See attached comment letter and redline plan dated March 5, 2025. • The following reports/studies will be required: ○ **Transportation Study** ○ **Preliminary Noise Feasibility Study** ○ **Land Use Compatibility Study** ○ **Preliminary Geotechnical Study** ○ **Preliminary Hydrological Study and Water Balance Report** ○ **Functional Servicing Report** ○ **Natural Heritage Evaluation/Environmental Impact Study** ○ **Stormwater Management Report with Low Impact Development strategies** ○ **Operations and Maintenance Manual for LID** ○ Any additional drawings/reports at the discretion of the Township's peer engineer.
Township of Scugog (Planning)	• See attached comment letter dated March 4, 2025 • The following plans and reports are required: ○ **Archaeological Study** ○ **Planning Justification Report** ○ **Environmental Impact Study/Natural Heritage Evaluation** ○ **D-4 Land Use on or Near Landfills and Dumps Study**

- **Land Use Compatibility**
- **Noise Analysis**
- **Phasing Plan**
- **Site concept plan**
- **Tree Management Plan/Vegetation Plan**
- **Urban Design Guidelines**
- **Excess Soil Management**
- **Servicing** in consultation with Region
- **Subwatershed Plans**
- **Future Official Plan Amendment and Schedules**
- **Future Zoning By-law Amendment and Draft By-law and Schedule**
- **A Site Screening Questionnaire (SSQ)** or an RSC compliance Phase 1 Environmental Site Assessment Report prepared by a Qualified Person accompanied by the Township's **Reliance Letter** and **Certificate of Insurance** will be required. The SSQ or report(s) should be no more than 18 months old at the time of the application submission and be undertaken in conformity with the Provincial Brownfields Regulation. **A Phase 1 Environmental Site Assessment (ESA)** may be required subject to the Township's review of the Site Screening Questionnaire.

Township of Scugog (Building)

- No comments.

Township of Scugog (By-law Enforcement)

- No comments.

Township of Scugog (Public Works)

- No comments.

Township of Scugog (Fire Prevention)

- Further comments to follow upon submission of the development applications. Show plans for water supply for firefighting including hydrant locations and flow rates for the proposed water supply system. Show road dimensions for fire department access.

SUMMARY OF REQUIRED PLANS/REPORTS (MUST BE SIGNED BY A QUALIFIED PERSON):

Site Plan in accordance with O.Reg 545/06 Schedule 1, number 28
Topographic Survey
Floodplain Analysis and Mapping
Update to Subwatershed Plans and Policies
D-4 Land Use on or Near Landfills and Dumps Study
A Site Screening Questionnaire (SSQ) or an RSC compliance Phase 1 Environmental Site Assessment Report prepared by a Qualified Person accompanied by the Township's Reliance Letter and Certificate of Insurance will be required.
Natural Heritage Evaluation/Environmental Impact Study + Tree Management Plan/Vegetation Plan
Transportation Study
Land Use Compatibility Study - Noise (Point source and Transportation, Vibration, Dust and Odour)
Preliminary Geotechnical Study
Preliminary Hydrological Study and Water Balance Report
Functional Servicing Report + Phasing Plan
Functional Servicing Report prepared in consultation with Region and the Township's Peer Engineer + Phasing Plan +Grading Plan
Stormwater Management Report with Low Impact Development strategies, Prepared in consultation with Region and Township Peer Engineer + Erosion and Sediment Control Measures +Operations and Maintenance Manual for LIDs – can be condition of draft approval
Archaeological Study
Excess Soil Management Plans
Planning Justification Report
Urban Design Guidelines
Future Official Plan Amendment and Schedules
Future Zoning By-law Amendment and Draft By-law and Schedule
Draft Plan of Subdivision

Number of Copies Required:
All Reports and Large sets of Plans: 2 copies of each (large plans to be folded to 8.5 x 11)
Reduced set of Plans (11X17): 1 copy of each set (folded in half)
Electronic files (PDF) on a USB or via electronic file transfer
Ensure dimension on plans are shown in metres.

Application and Agency Review Fees:

KRCA – Please confirm with agency

Region of Durham Planning – (cheques payable to Region of Durham)

Combined Official Plan and Zoning By-law Amendment - $3500

Draft Plan of Subdivision - $ 5000

Durham Region Health – Please confirm with agency

Township of Scugog (cheques payable to Township of Scugog)

Region of Durham Official Plan – $20,260

Scugog Official Plan Amendment - $30,025

Zoning By-law Amendment - $17,765

Draft Plan of Subdivision - $27,015 + $675 per unit

Newspaper Advertisement - $520 per advertisement

Public Open House - $3,340

Township of Scugog Consulting and/or Peer Review Fees

The Township will require the services of external consultant services (such as engineering, legal, and/or architect) as part of the review and approval process for these applications. The Applicant will be invoiced for any associated consulting fees incurred by the Township.

Additional Fees

There will be additional fees associated with subsequent applications and the required building permit application. Development charges will also be owed at the time of building permit issuance. Here is a link to the current Development Charge rates: https://www.scugog.ca/en/do-business/Development-Charges.aspx

***Notwithstanding the fees noted above, all fees are payable based upon the rate in the fee schedule By-law in effect on the date the application is received. Contact Township staff and the Durham Region and KRCA to confirm fees prior to application submission as the fees are subject to periodic review and change.**

***All submitted electronic documents shall be in an accessible format in accordance with O.Reg 191/11 or the application will not be accepted. The applicant shall save electronic documents with the statement "accessible" in the file name.**

Please review these notes at your earliest convenience and advise of any errors or omissions. Please note that if applications are not filed within 12 months of the date of this letter, another pre-consultation meeting and checklist of complete application requirements may be required.

Please note the Township reserves the right to request additional studies, reports, plans, documentation through the processing of the application(s).

Appendix B

Preliminary Concept & Grading Plans

CONCEPTUAL DEVELOPMENT PLAN
Option 3

1520,1540 and 1580 REACH STREET
PORT PERRY, ONTARIO

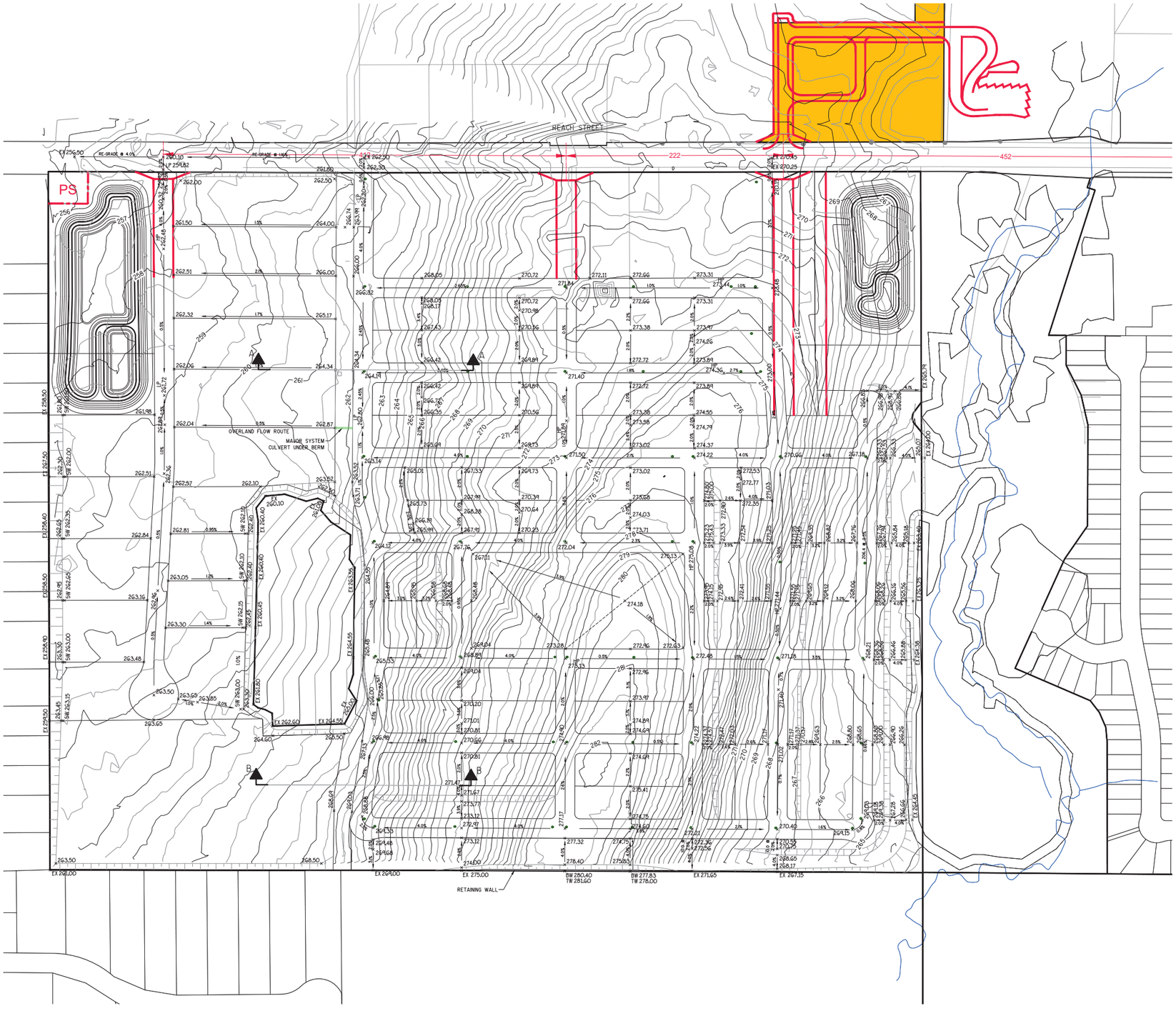
LAND USE		UNITS	AREA
Min. 15.24m Single Detached	o	74	4.20
Min. 12.2m Single Detached	x	174	6.09
Min. 9.8m Single Detached	+	134	3.86
Condominium Townhomes		200 - 350	7.42
Mid-Rise / Mixed Use (45-100uph)		130 - 285	2.71
Long Term Care/Mid-Rise Mixed Use (4-8 Storeys)(45-100uph)		100 250	2.47
Park			2.54
SWM			4.59
Walkway / Overland Flow			0.02
Open Space - Berm			1.61
Natural Heritage System			3.38
Prestige Industrial			5.29
General Industrial			9.28
20m Right of Way			10.03
8.5m Laneway			0.26
TOTAL		812 - 1,267	63.75

Possible Trail Network

DRAFT
FOR DISCUSSION PURPOSES ONLY

Date: January 21, 2026
MGP File: 24-3401

Malone Given Parsons.
140 Renfrew Drive, Suite 201 | Markham, ON | L3R 6B3
905 513 0170 | mgp.ca



1:2000

REACH STREET LANDS GRADING PLAN

SABOURIN KIMBLE & ASSOCIATES LTD.
CONSULTING ENGINEERS

PROJECT NUMBER	FIGURE NUMBER
24:478	1.0

CAD FILE: P:\24\478\Drawing Files\PSR Drawings\478 PSR 1b base.dwg

Appendix C

Preliminary Excess Soils Sampling and Analysis Plan

Preliminary Excess Soil Characterization Sampling and Analysis Plan

Project #: 25-3614
Site Location: 1520, 1540 and 1580 Reach Street, Port Perry, Ontario
Project Manager: Dan MacIntyre, B.Sc.
Supervisor (QP): Brian R. King, P. Geo.

Site Description and Access

The subject property is accessed via two (2) existing driveways on the south side of Reach Street. The civic addresses associated with the driveways are 1580 Reach Street and 1540 Reach Street. The site contains a drumlin ridge that trends southwest to northeast, exhibiting the greatest amount of topography on-site. All areas of the site are accessible with no known impediments to access. Private utilities will be associated with the on-site dwellings, outbuildings and a Bell Canada easement that runs north-south through the western third of the Site.

Shallow Soils (Lithology)

The drumlin ridge is expected to be comprised of Newmarket Till, which can often appear weathered (sandy) within the upper few metres. Below this depth, the till often resembles an ML type soil with gravel, cobbles and boulders. Glacolacustrine sand (SM to SP type) is expected to occur in the lower elevations on the site but may be discontinuous with glaciolacustrine silt/clay (ML to CL type). Along the periphery of the drumlin ridge, the glaciolacustrine and weathered till are expected to be comparatively thin.

Shallow Groundwater

Historical monitoring well records suggest saturated soils may occur approximately 4.5 m below ground surface (based on the depth of the well screens). A large diameter (bored) well record believed to belong to 1520 Reach Street suggests saturated soils as shallow as 2.44 m, with a static water level of only 0.3 m below ground surface.

Area of Potential Environmental Concern (APEC)

A review of past and neighbouring property uses has identified the following APEC:

Areas of Potential Environmental Concern (APECs)			
APEC	**Potentially Contaminating Activity (PCA)**	**Laboratory Analyses**	**Location**
#1	Neighbouring industrial uses	Metals, VOCs, PHCs and SVOCs	The southwestern quadrant of the Site

Sampling and Analysis Plan

Based on the preceding and the requirements of the concurrent hydrogeological and geotechnical studies, the proposed borehole locations are provided by Attachment #1. During the drilling activities, all samples are to be screened for combustible headspace gases using an RKI Eagle Gastector with methane elimination. Any mineral soil samples exhibiting an elevated headspace gas concentration (i.e., >200 ppm) are to be collected into laboratory approved receptacles and stored for laboratory submission (pending client approval). For more information, please consult the *Guidance to Environmental Site Assessments under Ontario Regulation 153/04 (as amended)* prepared by the Association for Professional Geoscientists of Ontario (2011).

The following table summarizes the target samples to be collected as part of the drilling program and the analyses to be requested:

Sampling and Analysis Plan				
Location	**Target Sample**	**Anticipated Depth**	**Laboratory Analysis**	**Purpose**
BH25-1	Upper unsaturated mineral soils	< 3 m	Pesticides, metals, PHCs and VOCs	APEC #1 and site screening
BH25-3	Capillary zone and shallow aquifer soils	> 3 m < 8 m	Pesticides, metals, PHCs, VOCs and SVOCs	APEC #1 and site screening
BH25-4	Upper unsaturated mineral soils	< 3 m	Pesticides, metals, PHCs and VOCs	APEC #1 and site screening
BH25-5	Upper unsaturated mineral soils	< 3 m	Metals, PHCs and VOCs	Site screening
BH25-5	Capillary zone and shallow aquifer soils	> 4 m < 8 m	Pesticides, metals, PHCs, VOCs and SVOCs	APEC #1 and site screening
BH25-7	Capillary zone and shallow aquifer soils	> 3 m < 8 m	Metals, PHCs, VOCs and SVOCs	APEC #2 and site screening
BH25-9	Upper unsaturated mineral soils	< 3 m	Pesticides, metals, PHCs and VOCs	APEC #1 and site screening
BH25-9	Capillary zone and shallow aquifer soils	> 3 m < 8 m	Pesticides, metals, PHCs, VOCs and SVOCs	APEC #1 and site screening
Berm	Composite from stockpiled materials	1.0 m	Metals, PHCs and VOCs	Site screening

All samples are to be placed on ice or stored within a refrigeration unit prior to being forwarded to (CALA accredited) Caduceon Environmental Laboratories for analysis in accordance with Ontario Regulation 406/19, Table 1 parameters. Samples are to be shipped via FedEx in sealed coolers with ice packs to maintain the sample temperature at or below 4°C. Packaging material to be placed in void spaces between bottles to prevent breakage in transit. Completed chain of custody forms are to be scanned and placed in the project file.

All other soil samples are to be collected in Ziploc bags and retained for moisture and/or grain size distribution analysis.

Reference Documents

For more information, the reader is referred to the following guidance documents and protocols:

Association of Professional Geoscientists of Ontario, *Guidance to Environmental Site Assessments under Ontario Regulation 153/04 (as amended)*, Aprill 2011.

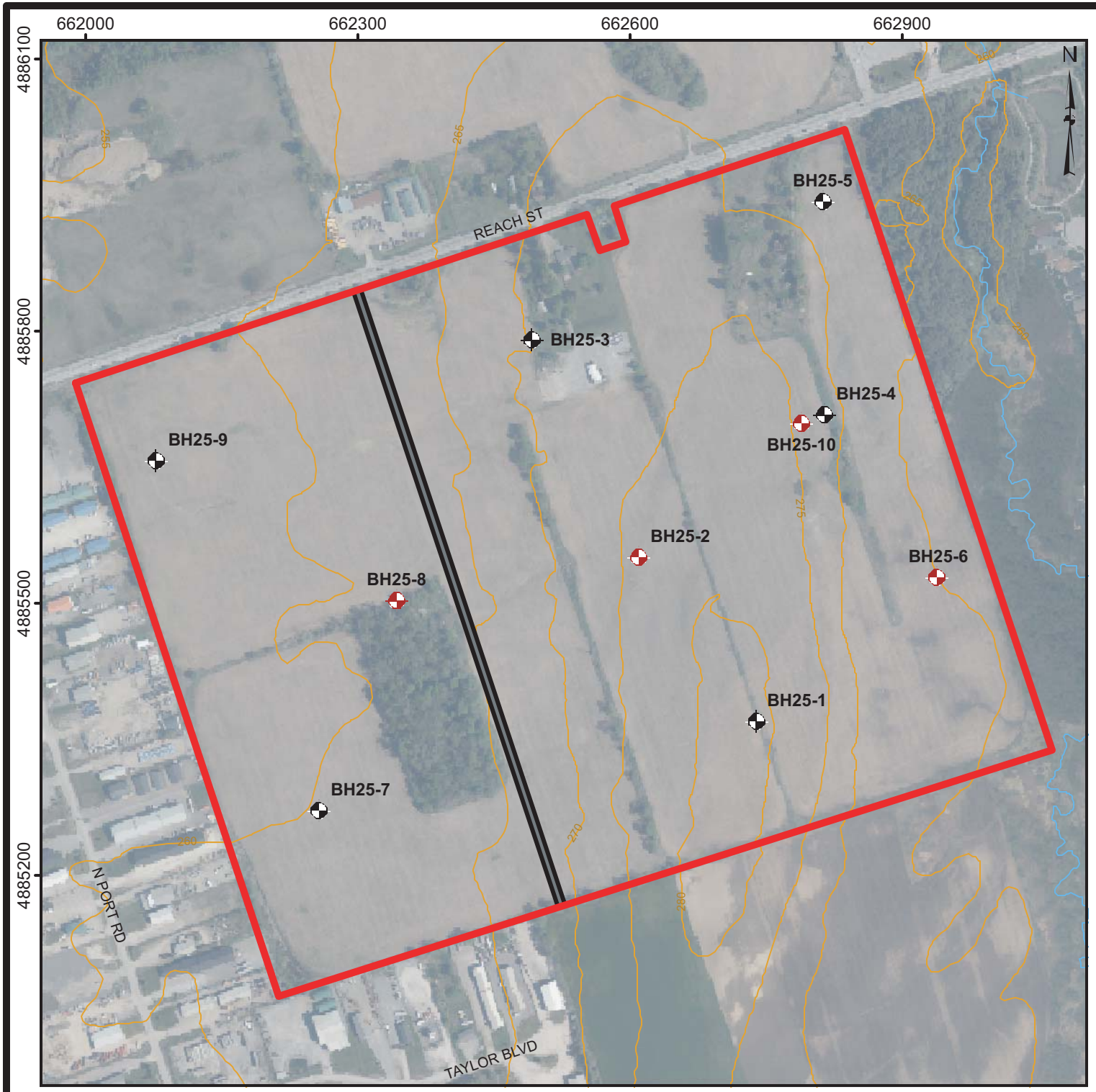
Canadian Council of Ministers of the Environment; *Excess Soil Reuse Guidance*, CCME, 2025.

Canadian Council of Ministers of the Environment (CCME), *Guidance Manual on Sampling, Analysis, and Data Management for Contaminated Sites*, CCME Documents, 1993.

Ontario Ministry of Environment, Conservation and Parks, *Guide for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04*, Queen's Printer of Ontario, 2011.

Ontario Ministry of Environment, Conservation and Parks, *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality*, Queen's Printer for Ontario, Version 3.1, 2021.

Ontario Ministry of Environment, Conservation and Parks, *Rules for Soil Management and Excess Soil Quality Standards*, King's Printer for Ontario, 2025.



Preliminary Excess Soil Quality Assessment
Proposed Residential and Industrial/ Commercial Development
1520, 1540 and 1580 Reach Street, Port Perry
Township of Scugog, Durham Region

- Approximate Propetry Boundary
- Bell Easement
- Contour (5m Intervals)
- Watercourse
- Intermittent Watercourse
- Proposed Borehole
- Proposed Borehole Selected for Soil Quality Analysis

Scale: 1:6,000

0 60 120 240 m

Notes:
Base mapping provided by the Ontario Ministry of Natural Resources (MNR) Geospatial Ontario (GEO) database, copyright the King's Printer (2026)

Imagery rovided by Ontario GeoHub (SCOOP, 2023)

Optimized for Oakridge Environmental Ltd. printing

TITLE

Sampling and Analysis Plan

ORE Oakridge Environmental Ltd.
Environmental and Hydrogeological Services

PROJECT #	ATTACHMENT NO.
25-3614	1
DATE	
March 2026	

Appendix D

Field Logs and On-site Monitoring Well Records

ORE
Oakridge Environmental Ltd.
Environmental and Hydrogeological Services
647 Neal Drive, Suite 3, Peterborough, Ontario. K9J 6X7
Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-1**

TOTAL DEPTH (m): **12.80 m**

UTM Coordinates :	Elevation (masl) :
662740, 4885369	281.63

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC & DB**

DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

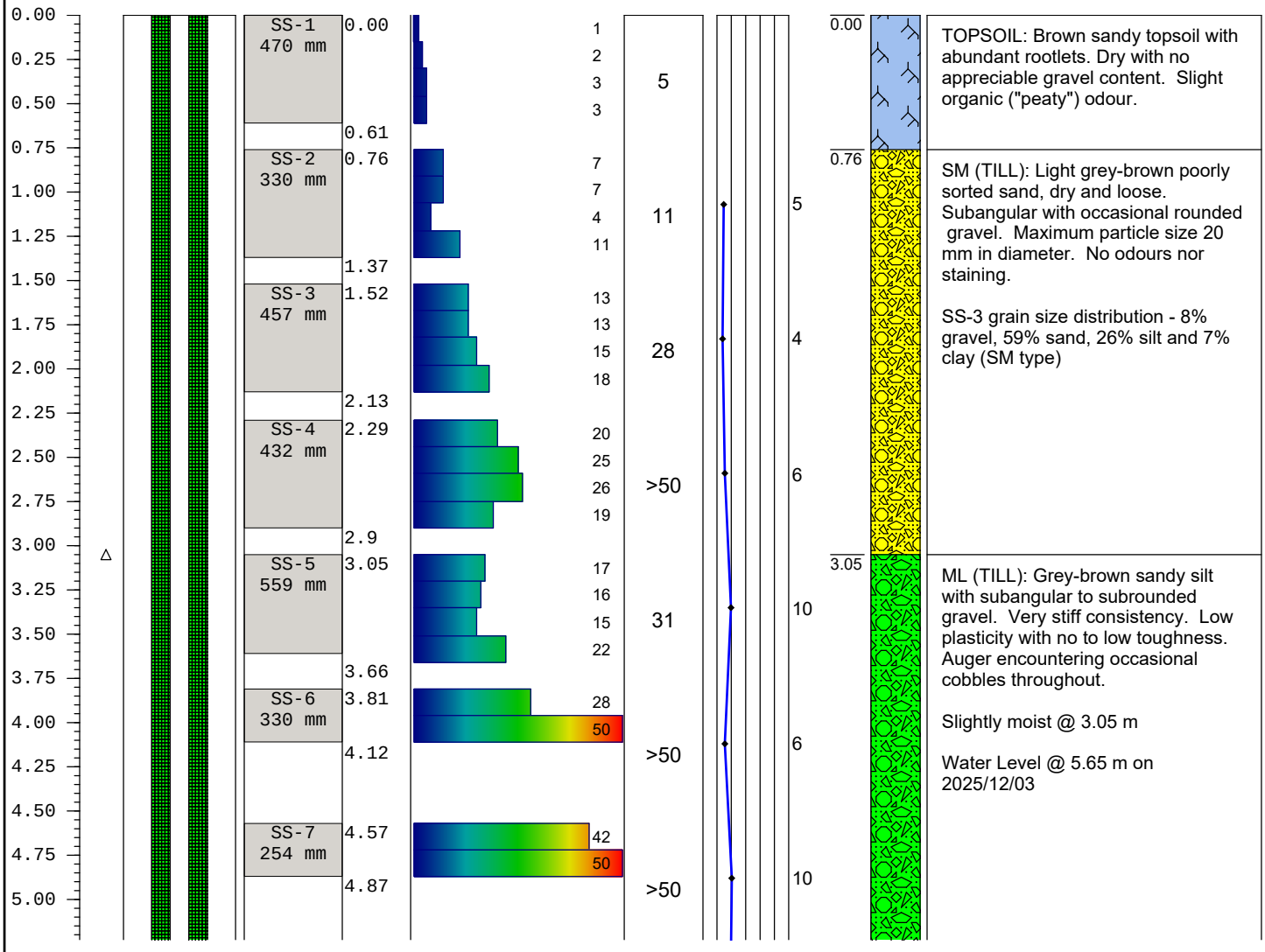
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

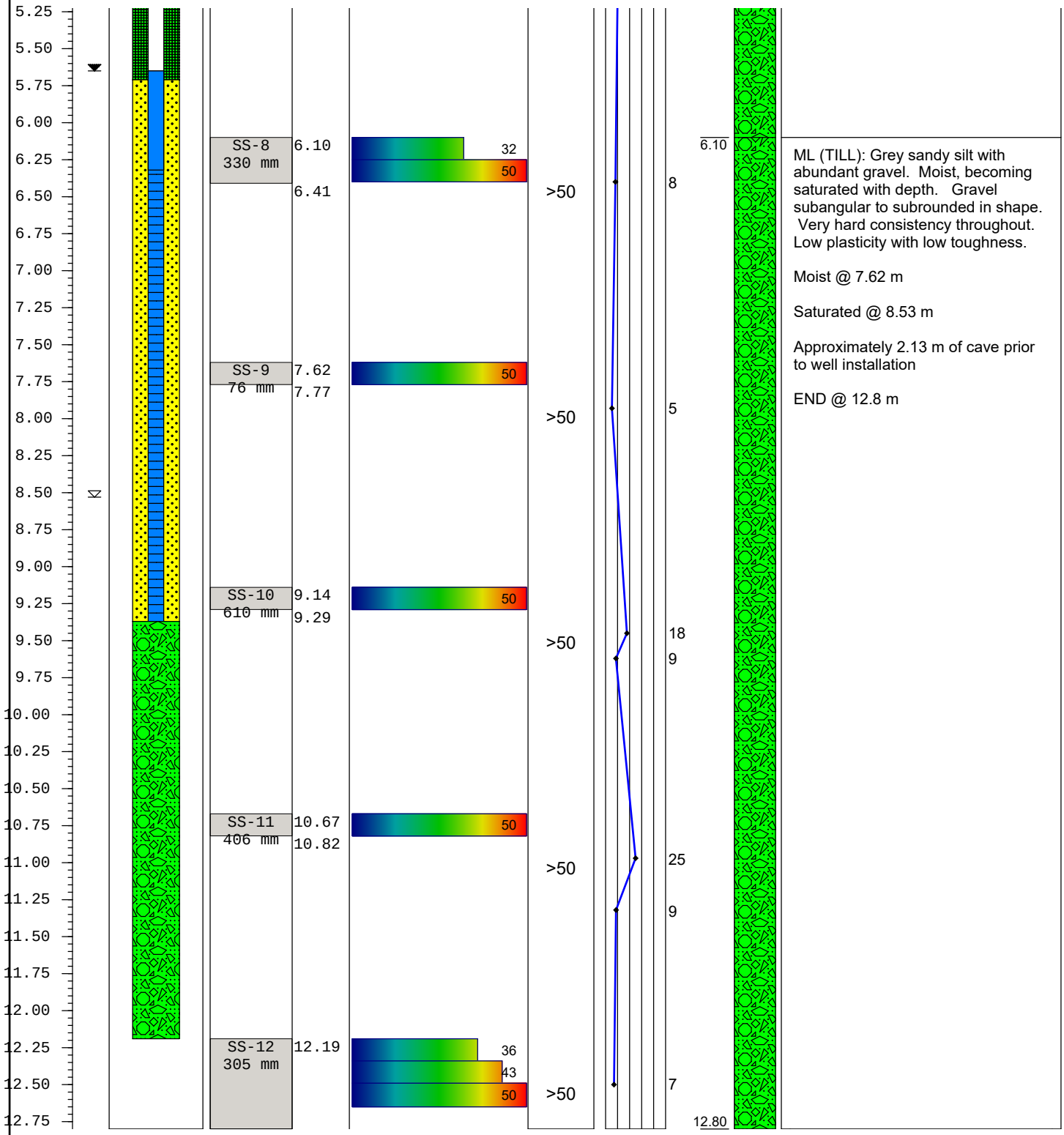
FIELD BOREHOLE LOG



NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	N Value	Moisture %	Soil Symbol	Soil Description



ML (TILL): Grey sandy silt with abundant gravel. Moist, becoming saturated with depth. Gravel subangular to subrounded in shape. Very hard consistency throughout. Low plasticity with low toughness.

Moist @ 7.62 m

Saturated @ 8.53 m

Approximately 2.13 m of cave prior to well installation

END @ 12.8 m

NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

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Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-2**

TOTAL DEPTH (m): **8.23 m**

UTM Coordinates :	Elevation (masl) :
662611,4885549	276.66

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 25/26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

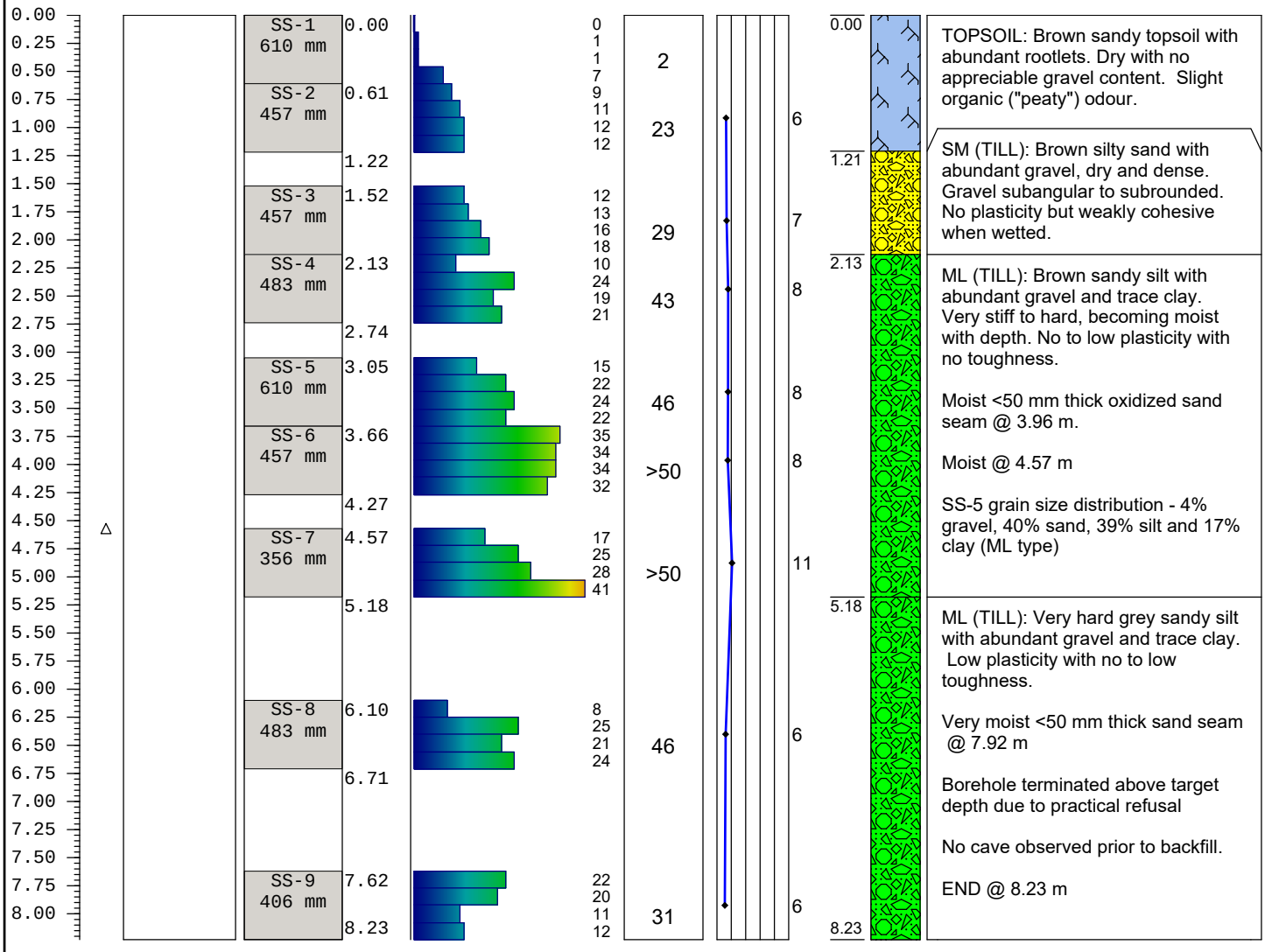
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG



NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

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Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-3**

TOTAL DEPTH (m): **8.23 m**

UTM Coordinates :	Elevation (masl) :
662492,4885790	270.63

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

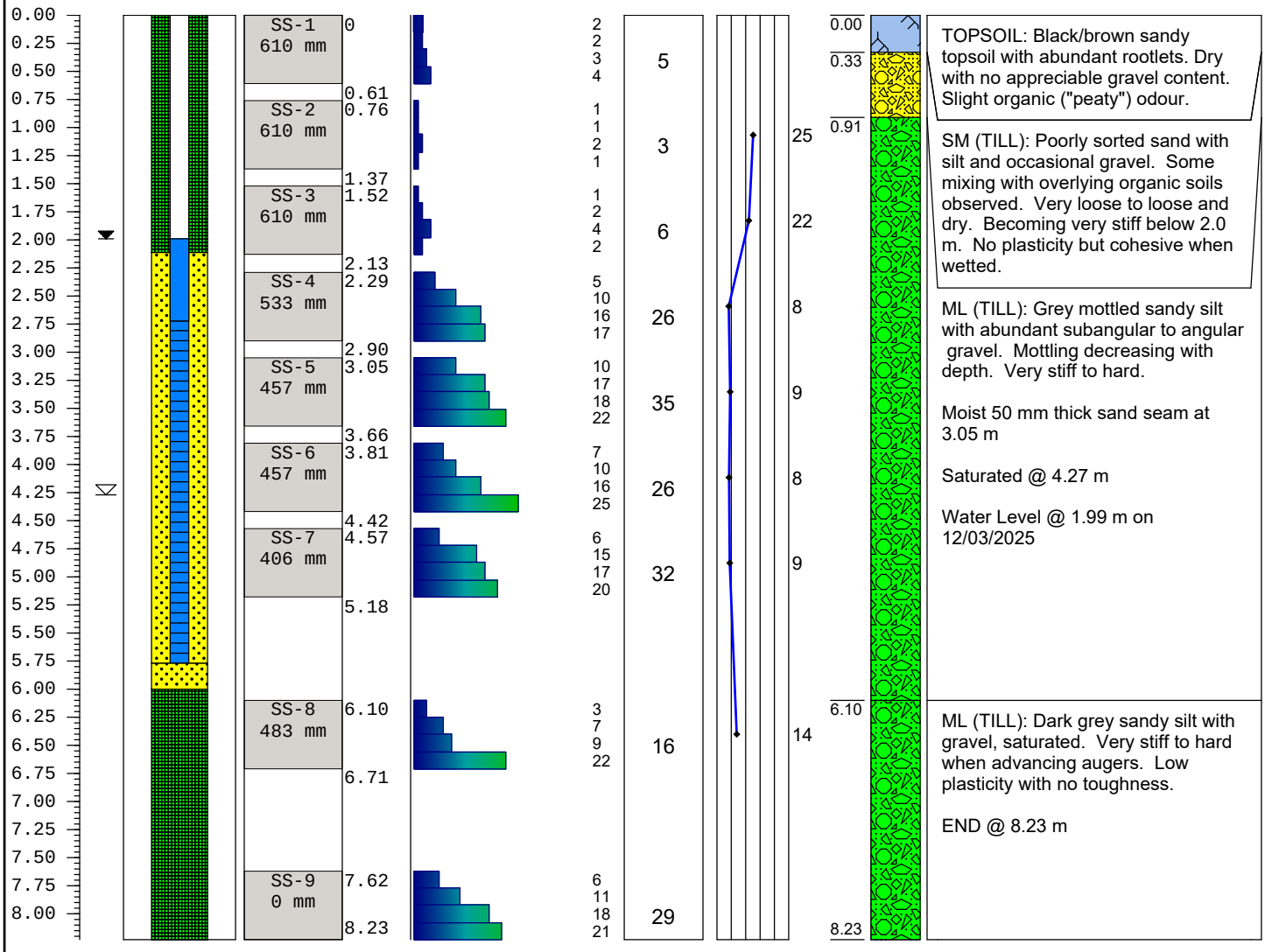
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG



NOTES: 5 Celsius / 5 mm rain starting in afternoon. SPT cave discarded prior to measurements.

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Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-4**

TOTAL DEPTH (m): **2.74 m**

UTM Coordinates :	Elevation (masl) :
662492,4885790	272.35

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

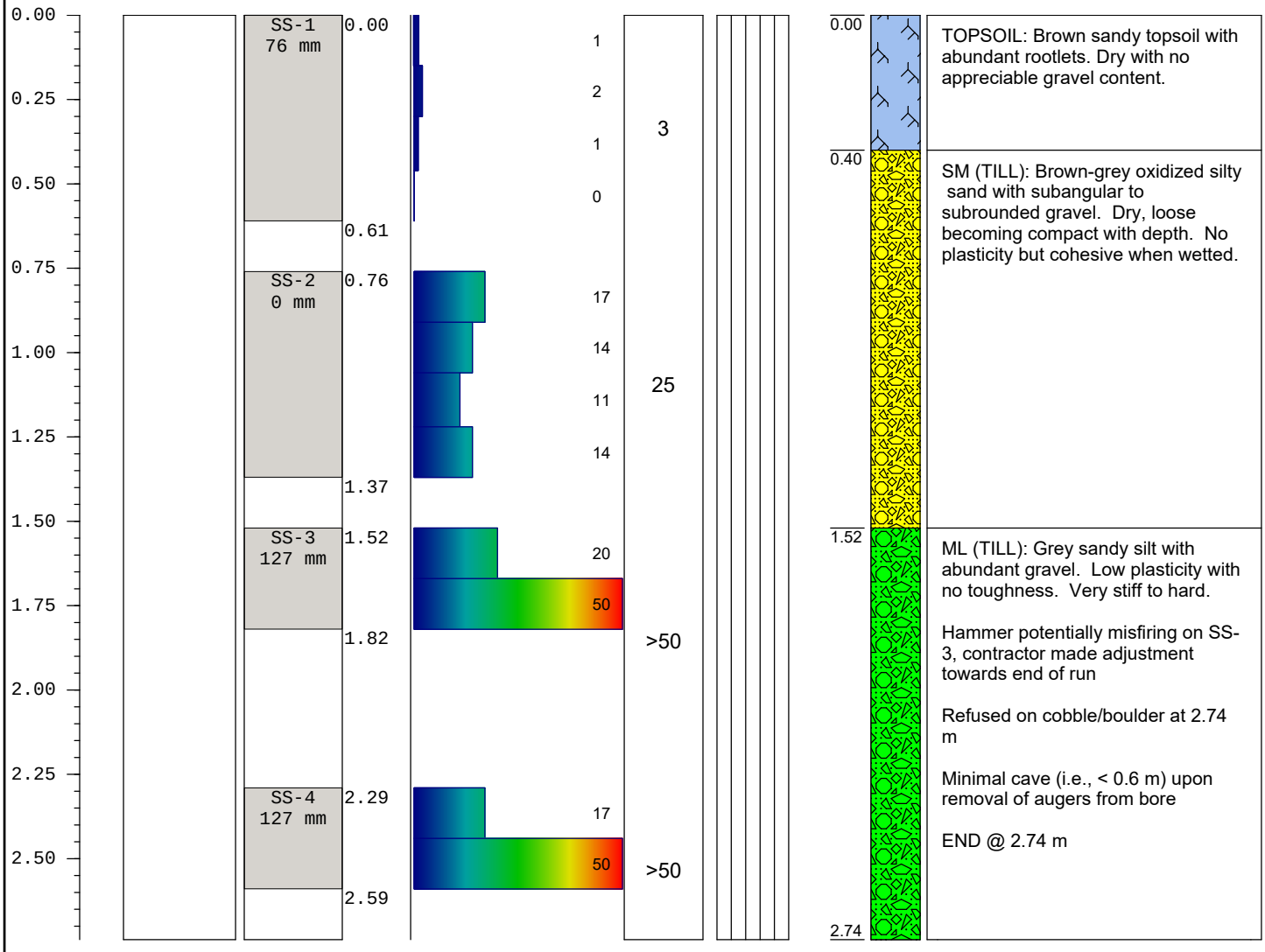
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG



NOTES: 5 Celsius, 5 mm rain starting in afternoon. Moved to BH25-4a, 3 metres north of BH25-4 location.

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BOREHOLE NO. **BH25-4a**

TOTAL DEPTH (m): **8.23 m**

UTM Coordinates :	Elevation (masl) :
662815,4885707	272.35

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM**

DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

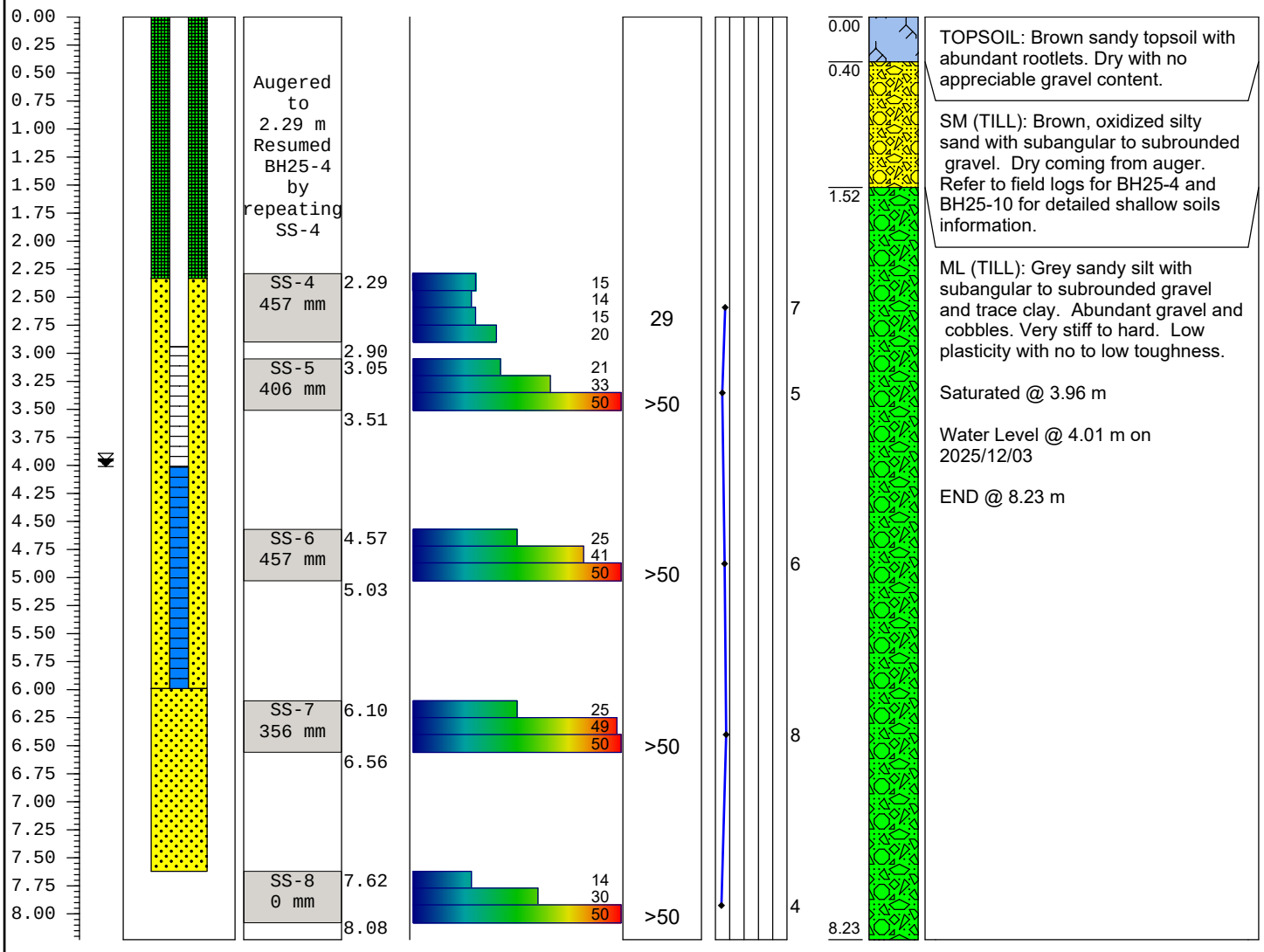
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG



NOTES: 5 Celsius, 5mm rain starting in afternoon, refer to BH25-4 and BH25-10 for shallow soil lithology

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BOREHOLE NO. **BH25-5**

TOTAL DEPTH (m): **8.23 m**

UTM Coordinates :	Elevation (masl) :
662814,4885942	268.57

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

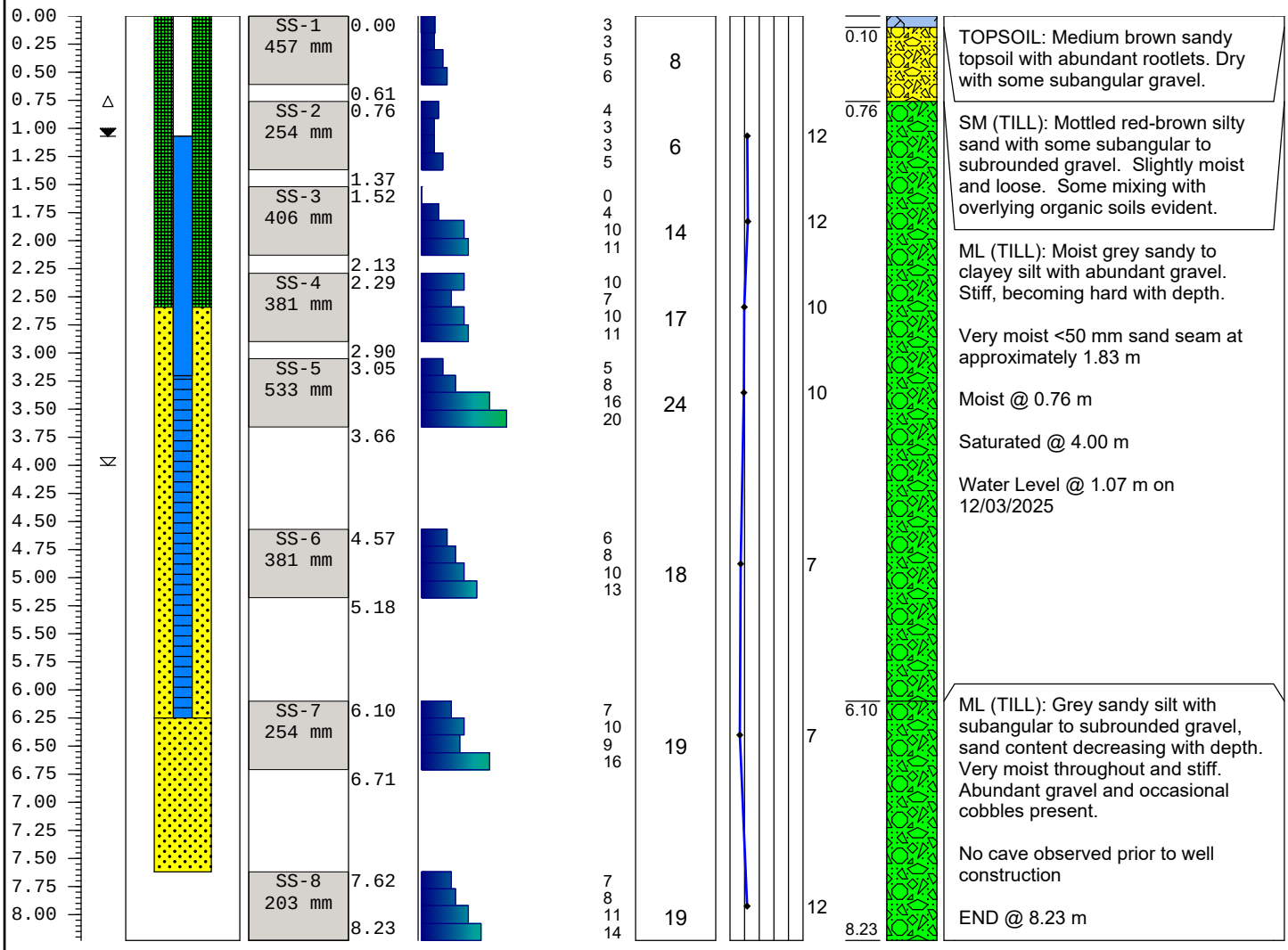
DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	Field N Value	Moisture %	Soil Symbol	Soil Description



TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with some subangular gravel.

SM (TILL): Mottled red-brown silty sand with some subangular to subrounded gravel. Slightly moist and loose. Some mixing with overlying organic soils evident.

ML (TILL): Moist grey sandy to clayey silt with abundant gravel. Stiff, becoming hard with depth.

Very moist <50 mm sand seam at approximately 1.83 m

Moist @ 0.76 m

Saturated @ 4.00 m

Water Level @ 1.07 m on 12/03/2025

ML (TILL): Grey sandy silt with subangular to subrounded gravel, sand content decreasing with depth. Very moist throughout and stiff. Abundant gravel and occasional cobbles present.

No cave observed prior to well construction

END @ 8.23 m

NOTES: 0 Celsius, windy with snow starting in the afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-6**

TOTAL DEPTH (m): **6.71 m**

UTM Coordinates :	Elevation (masl) :
662939,4885528	264.74

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Soild Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	Field N Value	Moisture %	Soil Symbol	Soil Description
0.00		SS-1 610 mm	2 2 4 5	6		0.00	TOPSOIL: Dark brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content.
0.35						0.35	SM/SP: Mottled brown poorly graded silty sand with no appreciable gravel content and some lamination present. Compact with no plasticity. Weakly cohesive when wetted. Moist @ 1.52 m
1.52	△	SS-2 457 mm SS-3 457 mm	5 6 5 5 3 5 5 7	11 10	27 25	1.52	ML/CL: Brown clayey silt to silty clay with trace sand and no appreciable gravel content. Medium plasticity with low toughness. Moist <50 mm oxidized sand seam at 3.35 m SS-3 grain size distribution - 60% silt, 39% clay and 1% sand (ML type). Composition may vary still vary between ML and CL based on field observations.
4.57	▽	SS-4 584 mm SS-5 610 mm SS-6 559 mm	5 8 10 10 4 6 7 8 3 3 4 4	18 13 7	22 25 26	4.57	ML/CL: Grey silty clay to clayey silt with no appreciable gravel content and trace sand. Soft becoming firm with depth. Medium plasticity with low toughness. Saturated @ 4.88 m Following auger removal, apparent cave to approximately 3.5 m
6.71		SS-7 610 mm	3 5 4 5	9	24	6.71	END @ 6.71 m

NOTES: 0 Celsius, windy with snow starting in the afternoon. SPT cave discarded prior to measurements.

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Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-7**

TOTAL DEPTH (m): **6.71 m**

UTM Coordinates :	Elevation (masl) :
662258,4885271	260.00

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC & DM**

DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	Field N Value	Moisture %	Soil Symbol	Soil Description
0.00–0.76		SS-1 610 mm	2 3 3 3	6	16	0.00–0.76	TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content.
0.76–3.05		SS-2 356 mm SS-3 559 mm SS-4 279 mm	3 2 6 9 5 6 9 0 4 7 15 8	8 15 22	28 23 22	0.76–3.05	SM/SP: Mottled brown silty sand, decreasing sand with depth. Dry with no appreciable gravel content. Loose becoming compact with depth. No plasticity but cohesive when wetted.
3.05–6.10	△ ▼ ▽	SS-5 356 mm SS-6 305 mm	5 4 5 7 0 3 3 7	9 6	22 26	3.05–6.10	ML/CL: Grey silty clay with trace sand and no appreciable gravel content. Stiff but becoming soft when very moist to saturated. Vane shear testing completed at 3.81 m. Initial torque = 60 ft/lbs. After 3 revolutions = 20 ft/lbs. Moist @ 1.52 m Saturated @ 4.57 m
6.10–6.71		SS-7 356 mm	6 5 8 8	13	21	6.10–6.71	ML/CL: Grey silty clay with trace gravel and sand. Medium plasticity with low to medium toughness and stiff. Water Level @ 3.84 m on 2025/12/03 END @ 6.71 m

NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

ORE
Oakridge Environmental Ltd.
Environmental and Hydrogeological Services
647 Neal Drive, Suite 3, Peterborough, Ontario. K9J 6X7
Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-8**

TOTAL DEPTH (m): **6.71 m**

UTM Coordinates :	Elevation (masl) :
662343,4885503	260.44

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

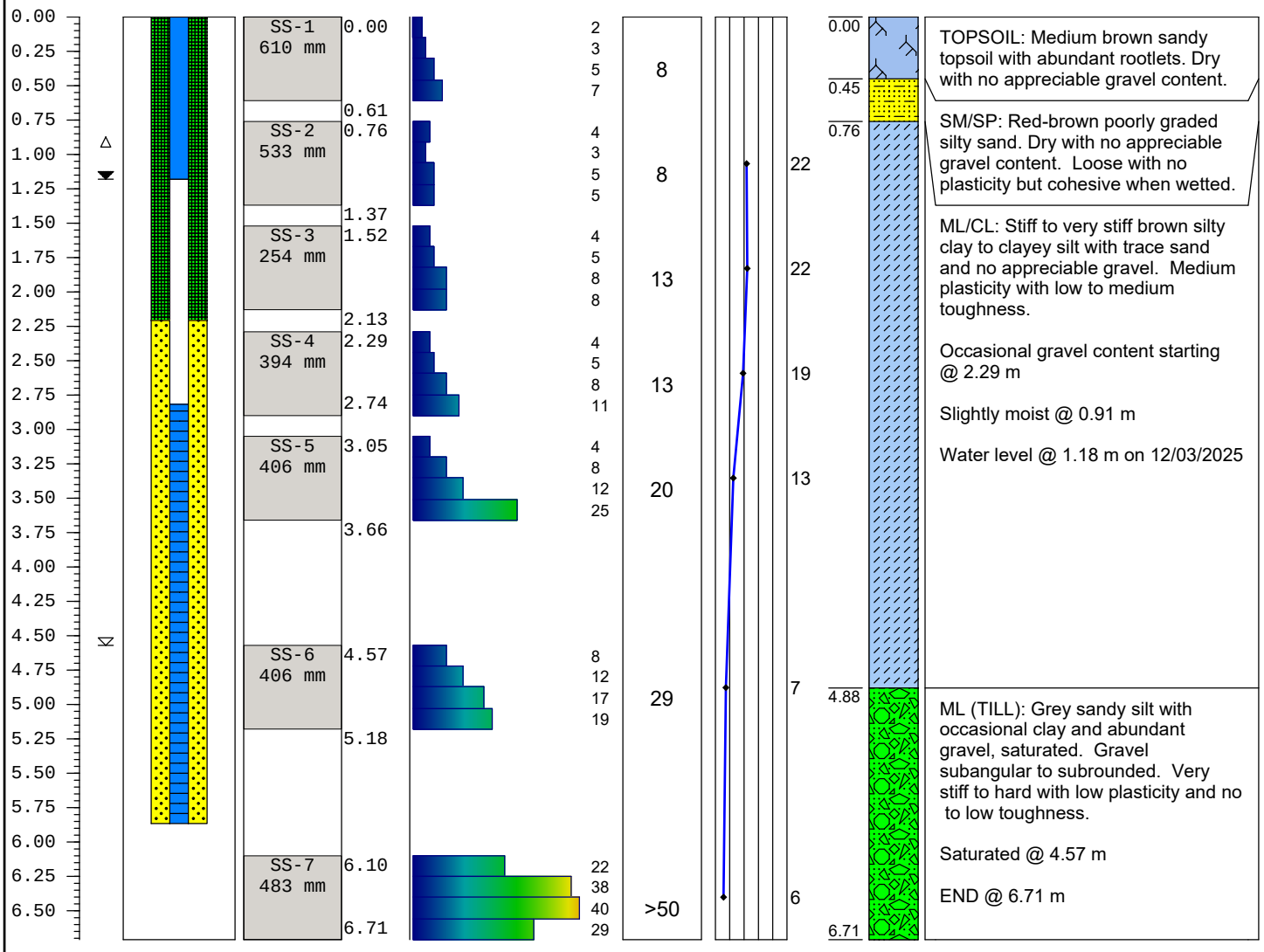
EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG



NOTES: 5 Celsius / rain on and off throughout day. SPT cave discarded prior to measurements.

ORE
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Environmental and Hydrogeological Services
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Phone: 705-745-1181 | Fax: 705-745-4163 | www.oakridgeenvironmental.com |

BOREHOLE NO. **BH25-9**

TOTAL DEPTH (m): **6.71 m**

UTM Coordinates :	Elevation (masl) :
662078,4885656	257.39

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DM & DB**

DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Hollow Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	Field N Value	Moisture %	Soil Symbol	Soil Description
0.00–0.35		SS-1 584 mm	0 1 3 4	4			TOPSOIL: Red-brown mottled sandy topsoil with abundant rootlets. Dry with no appreciable gravel content.
0.35–1.83	△	SS-2 457 mm SS-3 508 mm	2 4 8 12 2 6 4 4	12 10	12 16 20		SM/SP: Brown motteld sand with some silt and no appreciable gravel content. Some lamination evident. Compact with no plasticity and weakly cohesive when wetted. SS-2 grain size distribution - 82% sand, 9% silt, 8% clay and 1% gravel (SM/SP type). Moist @ 1.37 m
1.83–4.57		SS-4 610 mm SS-5 610 mm	1 2 3 6 2 4 9 9	5 13	24 21		ML/CL: Brown-grey silty clay with trace sand and no appreciable gravel content. Stiff becoming soft with depth and saturation. Medium plasticity with medium toughness. Vane shear test completed at 2.44 m. Initial Torque = 100 ft/lbs. After 3 revolutions = 60 ft/lbs.
4.57–6.71	▽	SS-6 610 mm SS-7 457 mm	2 2 2 3 1 1 2 2	4 3	25 23		ML/CL: Grey silty clay with no appreciable gravel nor sand content. Saturated and soft. Saturated @ 4.57 m END @ 6.71 m

NOTES: 5 Celsius, 5 mm rain starting in the afternoon. SPT cave discarded prior to measurements.

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BOREHOLE NO. **BH25-10**

TOTAL DEPTH (m): **2.90 m**

UTM Coordinates :	Elevation (masl) :
662790,4885698	274.46

PROJECT INFORMATION

PROJECT NO: **25-3614**

SITE LOCATION: **Reach Street, Port Perry**

LOGGED BY: **DC**

DATES ASSESSED: **November 27, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Ace Environmental Drilling Ltd.**

EQUIPMENT: **GEOPROBE 3126GT**

DRILLING METHOD: **Solid Stem Auger**

SAMPLING METHODS: **Split Spoon**

▽ Wet (saturated) ▼ Water Level △ Moist

FIELD BOREHOLE LOG

Depth	Piezometer Installation	Sample # Recovery	Blow Counts	Field N Value	Moisture %	Soil Symbol	Soil Description
0.00 – 0.61		SS-1 610 mm	0 1 3 3	4	12		TOPSOIL: Red-brown sandy topsoil with abundant rootlets. Slightly moist with no appreciable gravel content.
0.61 – 1.52		SS-2 305 mm	4 4 9 13	13	16		SM (TILL): Brown silty sand with some gravel. Slightly moist and compact. No plasticity but cohesive when wetted.
1.52 – 2.90	△	SS-3 610 mm SS-4 508 mm	14 20 21 25 16 23 42 23	41 >50	20 24		ML (TILL): Brown sandy silt with abundent subangular to subrounded gravel and trace clay. Very hard, with low plasticity and no toughness. Becoming moist with depth. Moist @ 1.83 m END @ 2.90 m

NOTES: 0 Celcius, windy with snow starting in the afternoon. Intended to re-test shallow soils near BH25-4.

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HAND AUGER I.D.: **HA25-1**

TOTAL DEPTH: **0.50 m**

UTM Coordinates:	Elevation (masl):
662633, 4885313	276.89

PROJECT INFORMATION	CONTRACTOR INFORMATION
PROJECT NO: **25-3614**	CONTRACTOR: **Oakridge Environmental Ltd.**
SITE LOCATION: **Reach Street, Port Perry**	EQUIPMENT: **Manual (Hand) Auger**
LOGGED BY: **DC**	STANDPIPE/PIEZOMETERS: **N/A**
DATES ASSESSED: **November 25, 2025**	SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 0.20							TOPSOIL: Brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content.
0.20 – 0.50			Borehole dry upon completion		0.20 m		SM (TILL): Mottled red-brown silty sand with no appreciable gravel content. Dry. END @ 0.50 m

NOTES: 5 Celsius, 5 mm rain starting in afternoon. Used to complete infiltration test 1 & 2.

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HAND AUGER I.D.: **HA25-2**

TOTAL DEPTH: **0.48 m**

UTM Coordinates:	Elevation (masl):
662714, 4885295	281.44

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DC**
DATES ASSESSED: **November 25, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00							TOPSOIL: Dark brown sandy topsoil with abundant rootlets. Slightly moist with occasional sub-rounded gravel. .
0.05							
0.10	△						
0.15							
0.18 m							SM (TILL): Mottled brown, oxidized silty sand with subangular to subrounded gravel. Slightly moist.
0.20							END @ 0.48 m
0.25							
0.30							
0.35							
0.40							
0.45			Borehole dry upon completion				

NOTES: 5 Celsius, 5 mm rain starting in afternoon

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HAND AUGER I.D.: **HA25-3**

TOTAL DEPTH: **0.69 m**

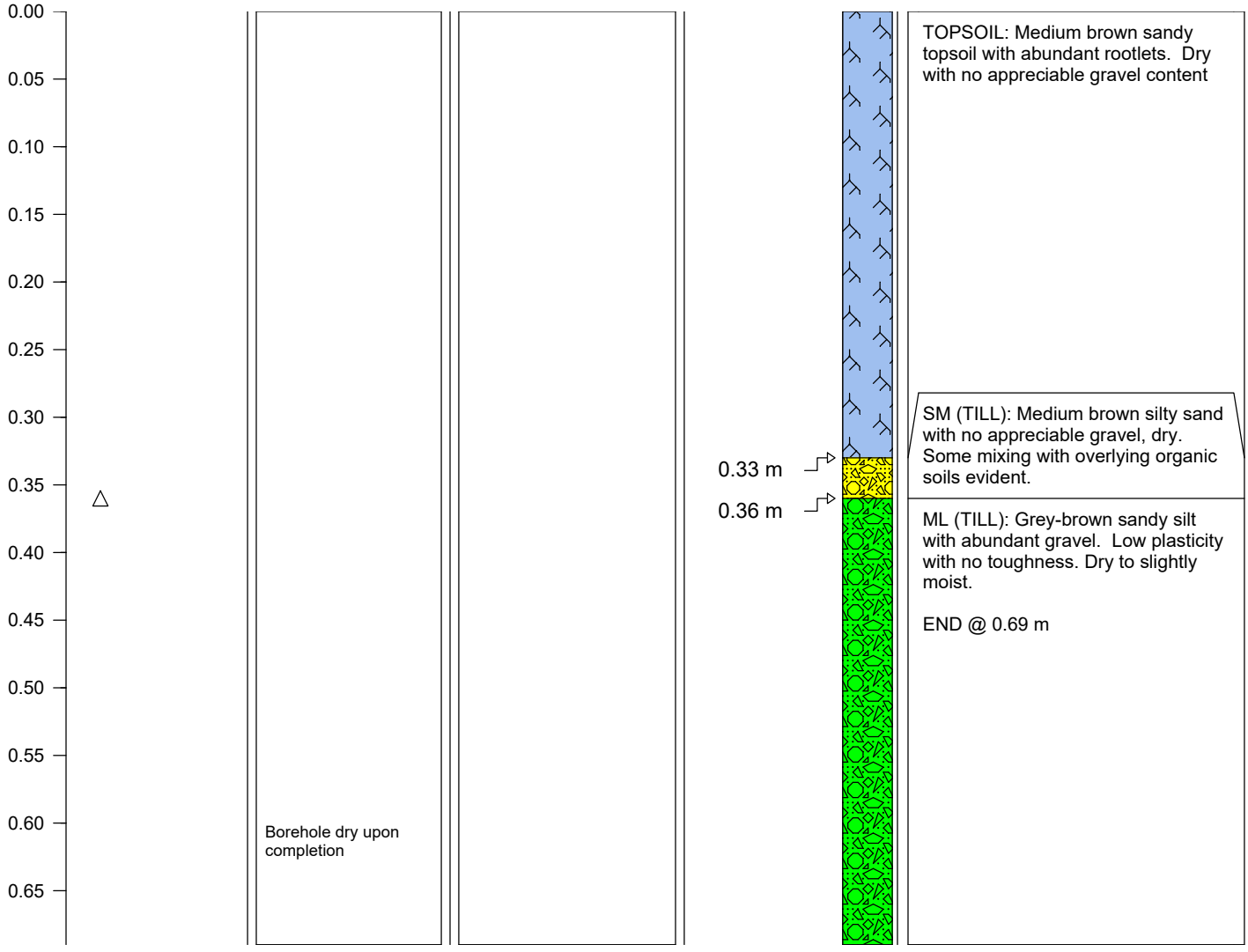
UTM Coordinates:	Elevation (masl):
662431, 4885716	266.75

PROJECT INFORMATION	CONTRACTOR INFORMATION
PROJECT NO: **25-3614**	CONTRACTOR: **Oakridge Environmental Ltd.**
SITE LOCATION: **Reach Street, Port Perry**	EQUIPMENT: **Manual (Hand) Auger**
LOGGED BY: **DM**	STANDPIPE/PIEZOMETERS: **N/A**
DATES ASSESSED: **November 26, 2025**	SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description



NOTES: 5 Celsius, rain on and off throughout day. Used to complete infiltration test 3.

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HAND AUGER I.D.: **HA25-4**

TOTAL DEPTH: **0.38 m**

UTM Coordinates:	Elevation (masl):
662432, 4885711	267.13

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00							TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content
0.05							
0.10							
0.15							
0.20							
0.25					0.25 m		SM (TILL): Brown silty sand with abundant gravel, dry and dense. Gravel subangular to subrounded.
0.30			Borehole dry upon completion				END @ 0.38 m
0.35							

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-5**

TOTAL DEPTH: **0.77 m**

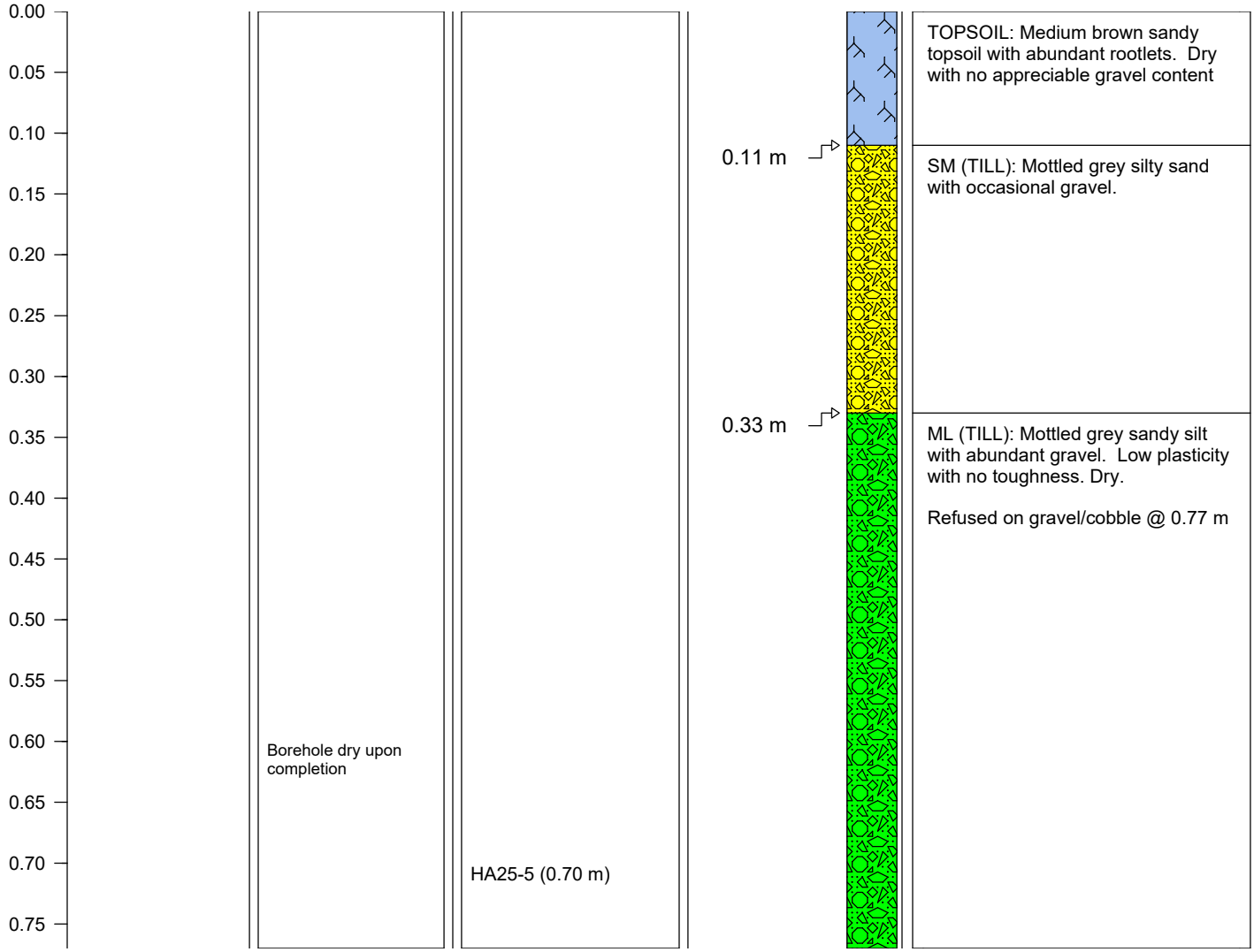
UTM Coordinates:	Elevation (masl):
662433, 4885668	265.55

PROJECT INFORMATION	CONTRACTOR INFORMATION
PROJECT NO: **25-3614**	CONTRACTOR: **Oakridge Environmental Ltd.**
SITE LOCATION: **Reach Street, Port Perry**	EQUIPMENT: **Manual (Hand) Auger**
LOGGED BY: **DM**	STANDPIPE/PIEZOMETERS: **N/A**
DATES ASSESSED: **November 26, 2025**	SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description



NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-6**

TOTAL DEPTH: **0.53 m**

UTM Coordinates:	Elevation (masl):
662295, 4885687	260.90

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00							TOPSOIL: Medium grey-brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content
0.05							
0.10							
0.15							
0.20							
0.25							
0.28 m					0.28 m		SM/SP: Mottled grey silty sand with no appreciable gravel content, dry. Some lamination evident.
0.30							
0.35							END @ 0.53 m
0.40							
0.45			Borehole dry upon completion				
0.50							

NOTES: 5 Celsius, rain on and off throughout day. Used to completed infiltration test 4

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HAND AUGER I.D.: **HA25-7**

TOTAL DEPTH: **1.22 m**

UTM Coordinates:	Elevation (masl):
663031, 4885370	263.83

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00–1.20	△ at 1.10		Borehole dry upon completion	HA25-7 (0.81-0.86 m) HA25-7 (0.86-1.12 m)	0.53 m 1.12 m		TOPSOIL: Brown-grey sandy topsoil with abundant rootlets. Dry with no appreciable gravel content SP: Oxidized well sorted (poorly graded) sand with no appreciable gravel content and occasional silt. Decreasing oxidation with depth and dry. ML (TILL): Brown-grey sandy silt with abundant gravel. Low plasticity with no toughness. Moist. End at length of auger @ 1.22 m

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-8**

TOTAL DEPTH: **1.22 m**

UTM Coordinates:	Elevation (masl):
663050, 4885344	262.92

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 1.20			Borehole dry upon completion		0.30 m		TOPSOIL: Brown-grey sandy topsoil with abundant rootlets. Dry with no appreciable gravel content SM/SP: Grey well sorted (poorly graded) sand with silt and no appreciable gravel content, dry. End at length of auger @ 1.22 m

NOTES: 5 Celsius, rain on and off throughout day

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HAND AUGER I.D.: **HA25-9**

TOTAL DEPTH: **0.53 m**

UTM Coordinates:	Elevation (masl):
662363, 4885223	262.66

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00							TOPSOIL: Grey-brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content
0.05							
0.10							
0.15							
0.20							
0.25							
0.28 m					0.28 m		SM/SP: Mottled grey silty sand with no appreciable gravel content, dry.
0.30							END @ 0.53 m
0.35							
0.40							
0.45			Borehole dry upon completion				
0.50							

NOTES: 5 Celsius, rain on and off throughout day. Used to completed infiltration test 5

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HAND AUGER I.D.: **HA25-10**

TOTAL DEPTH: **1.22 m**

UTM Coordinates:	Elevation (masl):
662870, 4885479	268.09

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 1.20			Borehole dry upon completion		0.76 m		TOPSOIL: grey sandy topsoil with abundant rootlets. Slightly moist with occasional sub-rounded gravel. Dry. SM (TILL): Mottled grey silty sand with subangular to subrounded gravel, dry. END @ 1.22 m

NOTES: 5 Celsius, 5 mm rain starting in afternoon

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HAND AUGER I.D.: **HA25-11**

TOTAL DEPTH: **0.56 m**

UTM Coordinates:	Elevation (masl):
662996, 4885516	264.20

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **November 26, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 0.29 m			Borehole dry upon completion		0.29 m		TOPSOIL: Brown sandy topsoil with abundant rootlets. Dry with no appreciable gravel content.
0.29 – 0.56 m							SM/SP: Oxidixed red-brown well sorted (poorly graded) sand, decreasing oxidation with depth. Dry with no appreciable gravel content. END @ 0.56 m

0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55

NOTES: 5 Celsius, 5 mm rain starting in afternoon. Used to completed infiltration test 6.

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HAND AUGER I.D.: **HA25-12**

TOTAL DEPTH: **1.14 m**

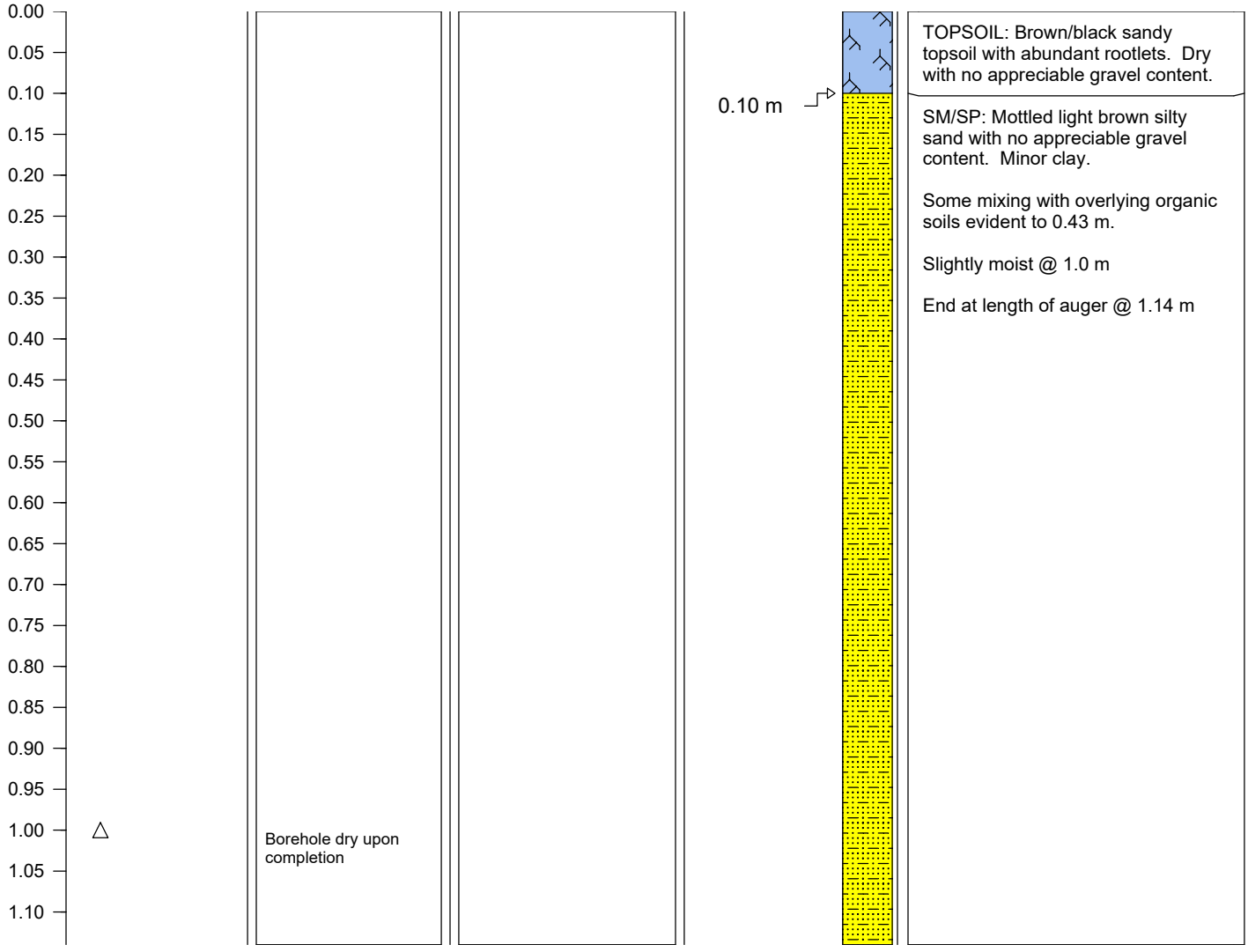
UTM Coordinates:	Elevation (masl):
662900, 4885296	267.63

PROJECT INFORMATION	CONTRACTOR INFORMATION
PROJECT NO: **25-3614**	CONTRACTOR: **Oakridge Environmental Ltd.**
SITE LOCATION: **Reach Street, Port Perry**	EQUIPMENT: **Manual (Hand) Auger**
LOGGED BY: **DM**	STANDPIPE/PIEZOMETERS: **N/A**
DATES ASSESSED: **November 14, 2025**	SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description



NOTES: 6 Celsius, overcast

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HAND AUGER I.D.: **HA25-13**

TOTAL DEPTH: **1.20 m**

UTM Coordinates:	Elevation (masl):
662737, 4885373	281.54

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DC**
DATES ASSESSED: **December 15, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 1.15			Borehole dry upon completion	HA25-13 (1.07-1.20 m)	0.20 m 0.90 m		TOPSOIL: Medium brown sandy topsoil with abundant rootlets. Dry with occasional gravel. SM (TILL): Oxidized brown silty sand with no appreciable gravel content. Dry. ML (TILL): Brown sandy silt with subangular to subrounded gravel, dry. End at length of auger @ 1.20 m

NOTES: - 5 Celsius, windy, overcast

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HAND AUGER I.D.: **HA25-14**

TOTAL DEPTH: **1.20 m**

UTM Coordinates:	Elevation (masl):
662090, 4885654	257.61

PROJECT INFORMATION	CONTRACTOR INFORMATION
PROJECT NO: **25-3614**	CONTRACTOR: **Oakridge Environmental Ltd.**
SITE LOCATION: **Reach Street, Port Perry**	EQUIPMENT: **Manual (Hand) Auger**
LOGGED BY: **DC**	STANDPIPE/PIEZOMETERS: **N/A**
DATES ASSESSED: **December 15, 2025**	SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 0.30					0.30 m		TOPSOIL: Dark-medium brown sandy topsoil with abundant rootlets. Dry with occasional small gravel.
0.30 – 1.00	△ @ 0.80						SM/SP: Oxidized brown silty sand with no appreciable gravel content. Oxidation decreasing with depth. Moist @ 0.80 m
1.00 – 1.20			Borehole dry upon completion		1.0 m		ML: Light brown-grey sandy silt with minor clay. Occasional small subangular to subrounded gravel, moist. End at length of auger @ 1.20 m

NOTES: - 5 Celsius, windy, overcast

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HAND AUGER I.D.: **HA25-15**

TOTAL DEPTH: **0.60 m**

UTM Coordinates:	Elevation (masl):
662830, 4885990	266.60

PROJECT INFORMATION

PROJECT NO: **25-3614**
SITE LOCATION: **Reach Street, Port Perry**
LOGGED BY: **DM**
DATES ASSESSED: **December 17, 2025**

CONTRACTOR INFORMATION

CONTRACTOR: **Oakridge Environmental Ltd.**
EQUIPMENT: **Manual (Hand) Auger**
STANDPIPE/PIEZOMETERS: **N/A**
SAMPLING METHODS: **Composite grab**

▽ Seepage ▼ Water Level △ Moist

FIELD AUGER LOG

Depth (cm)	Water	Piezometer Installation	Special Notes	Sample #	Depth	Soil Symbol	Soil Description
0.00 – 0.25			Borehole dry upon completion		0.25 m		TOPSOIL: Medium brown silty-sandy topsoil with abundant rootlets.
0.25 – 0.46					0.46 m		SM/SP: Brown silty sand with trace gravel/cobble. Some mixing with with overlying organic soils observed.
0.46 – 0.55							ML: Brown sandy silt with minor clay and trace gravel. Refused on cobble @ 0.61 m

NOTES: - 5 Celsius, windy, overcast

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 394699

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name

Organization	Email Address
Richard and Susan Wannop	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	47	Katherine Crescent	Stouffville

Country	Province	Postal Code	Telephone Number
Canada	Ontario	L4A 1K4	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	1551	Reach Street	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Port Perry	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	662017	4885704	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 25 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Sand	Loose	0	6
Grey	Silt	Sand	Loose	6	13
Grey	Silt	Clay	Loose	13	25

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	13	Hole Plug	4.251

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☑ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☑ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.38	0	15

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	15	25

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh	☑ Untested	☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	25	8.25

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2024/02/23

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
3D Drilling Inc.	7739

Business Address

Unit Number	Street Number	Street Name *
		PO Box 10038

City/Town/Village *	Province	Postal Code *
Uxbridge RPO Elgin Park	ON	L9P 0B5

Business Telephone Number	Business Email Address
289-808-5710	

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Diels	Dustin	4397

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Diels	Dustin	dustind@3ddrill.com

Signature	Date Submitted (yyyy/mm/dd)
Dustin Diels Digitally signed by Dustin Diels Date: 2024.03.21 08:57:43 -04'00'	2024/03/21

17. Ministry Use Only

Audit Number

XR2B BGA6

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 394697

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name

Organization	Email Address
Richard and Susan Wannop	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	47	Katherine Crescent	Stouffville

Country	Province	Postal Code	Telephone Number
Canada	Ontario	L4A 1K4	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	1151	Reach Street	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Port Perry	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	662022	4885725	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 65 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Sand		0	6
Grey	Silt	Sand		6	14
Grey	Silt	Clay		14	29
Grey	Clay	Silt		29	65

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	53	Hole Plug	5.85

5. Method of Construction *

☐ Cable Tool ☑ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☑ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☑ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.38	0	55

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	55	65

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh	☑ Untested	☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	10	8.25
10	65	3.87

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2024/02/23

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
3D Drilling Inc.	7739

Business Address

Unit Number	Street Number	Street Name *
		PO Box 10038

City/Town/Village *	Province	Postal Code *
Uxbridge RPO Elgin Park	ON	L9P 0B5

Business Telephone Number	Business Email Address
289-808-5710	

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Diels	Dustin	4397

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Diels	Dustin	dustind@3ddrill.com

Signature	Date Submitted (yyyy/mm/dd)
Dustin Diels Digitally signed by Dustin Diels Date: 2024.03.21 08:49:58 -04'00'	2024/03/21

17. Ministry Use Only

Audit Number

NSII EWRR

Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 394700

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
Organization	**Email Address**
Richard and Susan Wannop	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village		
	47	Katherine Crescent	Stouffville		
Country	**Province**		**Postal Code**	**Telephone Number**	
Canada	Ontario		L4A 1K4		

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township		
	1511	Reach Street			
Lot	**Concession**	**County/District/Municipality**			
City/Town	**Province**	**Postal Code**			
Port Perry	Ontario				

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	662007	4885719	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 25 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Sand	Loose	0	6
Grey	Silt	Sand	Loose	6	13
Grey	Silt	Clay	Loose	13	25

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	13	Hole Plug	4.251

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☑ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☑ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.38	0	15

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	15	25

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh	☑ Untested	☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	25	8.25

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2024/02/23

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
3D Drilling Inc.	7739

Business Address

Unit Number	Street Number	Street Name *
		PO Box 10038

City/Town/Village *	Province	Postal Code *
Uxbridge RPO Elgin Park	ON	L9P 0B5

Business Telephone Number	Business Email Address
289-808-5710	

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Diels	Dustin	4397

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Diels	Dustin	dustind@3ddrill.com

Signature	Date Submitted (yyyy/mm/dd)
Dustin Diels Digitally signed by Dustin Diels Date: 2024.03.21 08:42:47 -04'00'	2024/03/21

17. Ministry Use Only

Audit Number

5ZO8 A452

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A 394688

Type *

☑ Construction ☐ Abandonment

Measurement recorded in: *

☐ Metric ☑ Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name

Organization	Email Address
Richard and Susan Wannop	

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
	47	Katherine Crescent	Stouffville

Country	Province	Postal Code	Telephone Number
Canada	Ontario	L4A 1K4	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	1511	Reach Street	

Lot	Concession	County/District/Municipality

City/Town	Province	Postal Code
Port Perry	Ontario	

UTM Coordinates	Zone *	Easting *	Northing *		Municipal Plan and Sublot Number
NAD 83	17	662001	4885704	Test UTM in Map	

Other

3. Overburden and Bedrock Material *

Well Depth * 25 (ft)

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Brown	Fill	Sand	Loose	0	7
Grey	Silt	Sand	Loose	7	13
Grey	Silt	Clay	Loose	13	25

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	13	Hole Plug	4.251

5. Method of Construction *

☐ Cable Tool ☐ Rotary (Conventional) ☐ Rotary (Reverse) ☐ Boring ☐ Air percussion ☐ Diamond
☐ Jetting ☐ Driving ☐ Digging ☐ Rotary (Air) ☑ Augering ☐ Direct Push
☐ Other (specify) _____

6. Well Use *

☐ Public ☐ Industrial ☐ Cooling & Air Conditioning
☐ Domestic ☐ Commercial ☐ Not Used
☐ Livestock ☐ Municipal ☑ Monitoring
☐ Irrigation ☑ Test Hole ☐ Dewatering
☐ Other (specify) _____

7. Status of Well *

☐ Water Supply ☐ Replacement Well ☑ Test Hole
☐ Recharge Well ☐ Dewatering Well ☑ Observation and/or Monitoring Hole
☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality
☐ Abandoned, other (specify) _____
☐ Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole **or** Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.38	0	15

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.38	Plastic	10	15	25

10. Water Details

Water found at Depth (ft)	☐ Gas	Kind of water ☐ Fresh	☑ Untested	☐ Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	25	8.25

12. Results of Well Yield Testing

☐ Pumping Discontinued

Explain _____

If flowing give rate

☐ Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

☐ Clear and sand free ☐ Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * ☐ Yes ☑ No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. ☑ Make map area bigger



14. Information

Well owner's information package delivered	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2024/02/21

Comments

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
3D Drilling Inc.	7739

Business Address

Unit Number	Street Number	Street Name *
		PO Box 10038

City/Town/Village *	Province	Postal Code *
Uxbridge RPO Elgin Park	ON	L9P 0B5

Business Telephone Number	Business Email Address
289-808-5710	

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Diels	Dustin	4397

16. Declaration *

☑ I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Diels	Dustin	dustind@3ddrill.com

Signature	Date Submitted (yyyy/mm/dd)
Dustin Diels Digitally signed by Dustin Diels Date: 2024.03.21 08:31:38 -04'00'	2024/03/21

17. Ministry Use Only

Audit Number

JTCK QWXT

Appendix E

Combustible Gas Summary

Combustible Gas Summary

Borehole I.D.	Split Spoon	Split Spoon Interval	Sample Interval	Headspace Reading
BH25-1	1	0 - 2'	0 - 2 ft	45
BH25-1	2	2.5' - 4.5'	0 - 4"	10
BH25-1	2	2.5' - 4.5'	4" - 13"	15
BH25-1	3	5' - 7'		50
BH25-1	4	7.5' - 9.5'		10
BH25-1	5	10' - 12'		15
BH25-1	6			70
BH25-1	7			5
BH25-1	8			5
BH25-1	9			5
BH25-1	10		4" - 14"	25
BH25-1	10		14" - 24"	10
BH25-1	11		0 - 11"	35
BH25-1	11		11" - 16"	190
BH25-1	12			100
BH25-2	1	0 - 2'	0 - 20"	65
BH25-2	1	0 - 2'	20" - 24"	10
BH25-2	2	2' - 4'		10
BH25-2	3	5' - 7'	0 - 4"	20
BH25-2	3	5' - 7'	4" - 18"	20
BH25-2	4	7' - 9'		20
BH25-2	5	10' - 12'		20
BH25-2	6	12' - 14'		20
BH25-2	7	15' - 17'	0 - 10"	80
BH25-2	7	15' - 17'	10" - 14"	20
BH25-2	8	20' - 22'		20
BH25-2	9	23' - 25'		20
BH25-3	1	0 - 2'		65
BH25-3	2	2.5' - 4.5'	2.5' - 3'	5
BH25-3	2	2.5' - 4.5'	>3'	5
BH25-3	3	5' - 7'		5
BH25-3	4	7.5' - 9.5'		15
BH25-3	5	10' - 12'		10
BH25-3	6	12.5' - 14.5'		10
BH25-3	7	15' - 17'		5
BH25-3	8	17.5' - 19.5'		10
BH25-3	9	20' - 22'	No Recovery	-
BH25-4	1	0 - 2'		20
BH25-4	2	2.5' - 4.5'	No Recovery	-
BH25-4	3	5' - 7'		20
BH25-4	4	7.5' - 9.5'		20
BH25-4a	4	7.5' - 9.5'		20
BH25-4a	5	10' - 12'		20
BH25-4a	6	15' - 17'		20
BH25-4a	6	15' - 17'	Aquifer Material	20
BH25-4a	7	20' - 22'		20
BH25-4a	8	25' - 27'		20
BH25-5	1			15
BH25-5	2			10
BH25-5	3		0 - 12"	15
BH25-5	3		12" - 16"	5
BH25-5	4			10
BH25-5	5			20
BH25-5	6			15
BH25-5	7			20
BH25-5	8			100
BH25-6	1	0 - 2'		10
BH25-6	2	2.5' - 4.5'		5
BH25-6	3	5' - 7'		5
BH25-6	4	7.5' - 9.5'		5
BH25-6	5	10' - 12'		15
BH25-6	6	15' - 17'		15
BH25-6	7	20' - 22'		15
BH25-7	1	0 - 2'		15
BH25-7	2	2.5' - 4.5'		15
BH25-7	3	5' - 7'		15
BH25-7	4	7.5' - 9.5'		15
BH25-7	5	10' - 12'		15
BH25-7	6	12.5' - 14.5'		15
BH25-7	7	15' - 17'		15
BH25-7	8	20' - 22'		15
BH25-8	1	0 - 2'	18" - 24"	15
BH25-8	2	2.5' - 4.5'	0 - 4"	10
BH25-8	2	2.5' - 4.5'	4" - 21"	10
BH25-8	3	5' - 7'		10
BH25-8	4	7.5' - 9.5'		15
BH25-8	5	10' - 12'		20
BH25-8	6	15' - 17'		15
BH25-8	7	20' - 22'		20
BH25-9	1	0 - 2'		15
BH25-9	2	2.5' - 4.5'		5
BH25-9	3	5' - 7'	Top	15
BH25-9	3	5' - 7'	Bottom	15
BH25-9	4	7.5' - 9.5'		15
BH25-9	5	10' - 12'		10
BH25-9	6	15' - 17'		15
BH25-9	7	20' - 22'		20
BH25-10	1	0 - 2'		20
BH25-10	2	2.5' - 4.5'		30
BH25-10	3	5' - 7'		15
BH25-10	4	7.5' - 9.5'		10
HA25-5				10
HA25-7			32" - 34"	0
HA25-7			34" - 44"	15
Berm				20
BH25-4	Auger	0 - 5'		35
BH25-4	Auger	5' - 10'		0
BH25-5	Auger	~18'		310

Appendix F

Soil Quality Data

CADUCEON ENVIRONMENTAL LABORATORIES
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CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G132041 **REPORT No: 25-037154 - Rev. 0**

Report To:
Oakridge Environmental
PO Box 431
Peterborough, ON K9J 6Z3

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Dan MacIntyre

DATE RECEIVED: 2025-Dec-03
DATE REPORTED: 2025-Dec-09
SAMPLE MATRIX: Soil

CUSTOMER PROJECT: Reach
P.O. NUMBER: PO#25-3614

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Conductivity Meter (Solid)	9	OTTAWA	ABAILEY	2025-Dec-05	A-COND-03	MECP E3530
Cyanide WAD (Solid)	9	KINGSTON	EHINCH	2025-Dec-08	CN-001	EPA 9012B
Boron-HWS (Solid)	9	OTTAWA	NSAUNDERS	2025-Dec-05	D-ICP-01	MECP E3470
Chromium VI (Solid)	9	OTTAWA	AGRAF	2025-Dec-04	D-CRVI-02	EPA 7196A
ICP/MS (Solid)	9	OTTAWA	GFENTON	2025-Dec-05	D-ICPMS-01	EPA 6020B
ICP/OES (Solid)	9	OTTAWA	NSAUNDERS	2025-Dec-05	D-ICP-02	EPA 6010
Mercury (Solid)	9	OTTAWA	TBENNETT	2025-Dec-05	D-HG-01	EPA 7471A
SAR analysed by ICPOES (Solid)	9	OTTAWA	NSAUNDERS	2025-Dec-05	D-ICP-02	EPA 6010
Moisture	9	KINGSTON	ROHANLEY	2025-Dec-04	% Moisture	SM 2540
OC Pesticides (Solid)	6	KINGSTON	CSUMMERHAYS	2025-Dec-05	PESTCL-002	EPA 8081
pH Meter (Solid)	9	OTTAWA	ABAILEY	2025-Dec-05	pH-03	MECP E3530
PHC F1 (Solid)	9	RICHMOND_HILL	JEVANS	2025-Dec-04	C-VPHS-01	CWS Tier 1
PHC F2-4 (Solid)	9	KINGSTON	STHOMPSON	2025-Dec-05	PHC-S-001	CWS Tier 1
SVOC - Semi-Volatiles (Solid)	4	KINGSTON	KPARKER	2025-Dec-05	NAB-S-001	EPA 8270D
VOC-Volatiles (Solid)	9	RICHMOND_HILL	JEVANS	2025-Dec-04	C-VOC-02	EPA 8260

µg/g = micrograms per gram (parts per million) and is equal to mg/Kg
F1 C6-C10 hydrocarbons in µg/g, (F1-btex if requested)
F2 C10-C16 hydrocarbons in µg/g, (F2-napth if requested)
F3 C16-C34 hydrocarbons in µg/g, (F3-pah if requested)
F4 C34-C50 hydrocarbons in µg/g
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
Any deviations from the method are noted and reported for any particular sample.
nC6 and nC10 response factor is within 30% of response factor for toluene:
nC10,nC16 and nC34 response factors within 10% of each other:
C50 response factors within 70% of nC10+nC16+nC34 average:
Linearity is within 15%:
All results expressed on a dry weight basis.
Unless otherwise noted all chromatograms returned to baseline by the retention time of nC50.

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

Unless otherwise noted all extraction, analysis, QC requirements and limits for holding time were met.
If analyzed for F4 and F4G they are not to be summed but the greater of the two numbers are to be used in application to the CWS PHC
QC will be made available upon request.

Michelle Dubien
Data Specialist

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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(2.5-7)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-4
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Conductivity @25°C	mS/cm	0.001	0.57	T1RPI	0.110	0.144	0.157	0.114
pH @25°C	-	-			7.11	7.30	7.29	7.90
Sodium Adsorption Ratio (Calculated)	-	-	2.4	T1RPI	0.12	0.27	0.15	0.23
Cyanide (WAD)	µg/g	0.05	0.051	T1RPI	<0.05	<0.05	<0.05	<0.05
Barium	µg/g	1	220	T1RPI	22	46	31	41
Beryllium	µg/g	0.2	2.5	T1RPI	<0.2	<0.2	0.2	<0.2
Boron	µg/g	0.5	36	T1RPI	6.3	10.8	6.7	7.4
Cadmium	µg/g	0.5	1.2	T1RPI	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	1	70	T1RPI	7	10	19	9
Cobalt	µg/g	1	21	T1RPI	4	4	6	5
Copper	µg/g	1	92	T1RPI	8	10	8	7
Lead	µg/g	5	120	T1RPI	<5	<5	<5	<5
Molybdenum	µg/g	1	2	T1RPI	<1	<1	<1	<1
Nickel	µg/g	1	82	T1RPI	5	7	9	7
Vanadium	µg/g	1	86	T1RPI	17	17	24	18
Zinc	µg/g	3	290	T1RPI	17	22	21	21
Antimony	µg/g	0.5	1.3	T1RPI	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/g	0.5	18	T1RPI	1.2	1.4	1.5	1.3
Selenium	µg/g	0.5	1.5	T1RPI	<0.5	<0.5	<0.5	<0.5
Silver	µg/g	0.2	0.5	T1RPI	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	0.1	1	T1RPI	<0.1	<0.1	<0.1	<0.1

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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(2.5-7)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-4
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Uranium	µg/g	0.1	2.5	T1RPI	0.3	0.4	0.4	0.4
Boron (HWS)	µg/g	0.02			0.09	0.08	0.11	0.13
Chromium (VI)	µg/g	0.2	0.66	T1RPI	<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	0.01	0.27	T1RPI	<0.01	<0.01	0.01	<0.01

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				Client I.D.	BH25-5(~ 18 Ft)	BH25-7	BH25-9	BH25-9(7.5-12)
				Sample I.D.	25-037154-5	25-037154-6	25-037154-7	25-037154-8
				Date Collected	2025-Nov-27	2025-Nov-26	2025-Nov-25	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Conductivity @25°C	mS/cm	0.001	0.57	T1RPI	0.123	0.220	0.120	0.177
pH @25°C	-	-			7.23	7.88	7.92	7.83
Sodium Adsorption Ratio (Calculated)	-	-	2.4	T1RPI	0.35	0.64	0.10	0.05
Cyanide (WAD)	µg/g	0.05	0.051	T1RPI	<0.05	<0.05	<0.05	<0.05
Barium	µg/g	1	220	T1RPI	38	124	28	92
Beryllium	µg/g	0.2	2.5	T1RPI	<0.2	0.4	<0.2	0.4
Boron	µg/g	0.5	36	T1RPI	7.6	11.8	7.2	18.3
Cadmium	µg/g	0.5	1.2	T1RPI	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	1	70	T1RPI	11	17	7	16
Cobalt	µg/g	1	21	T1RPI	4	8	3	8
Copper	µg/g	1	92	T1RPI	8	13	5	16
Lead	µg/g	5	120	T1RPI	<5	5	<5	7
Molybdenum	µg/g	1	2	T1RPI	<1	<1	<1	<1
Nickel	µg/g	1	82	T1RPI	6	14	5	15
Vanadium	µg/g	1	86	T1RPI	17	25	17	22
Zinc	µg/g	3	290	T1RPI	19	33	13	38
Antimony	µg/g	0.5	1.3	T1RPI	<0.5	<0.5	<0.5	<0.5
Arsenic	µg/g	0.5	18	T1RPI	1.3	1.8	0.9	2.5
Selenium	µg/g	0.5	1.5	T1RPI	<0.5	<0.5	<0.5	<0.5
Silver	µg/g	0.2	0.5	T1RPI	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	0.1	1	T1RPI	<0.1	0.1	<0.1	0.1

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Parameter	Units	R.L.	Limits	Reg 153/406	Client I.D.	BH25-5(~ 18 Ft)	BH25-7	BH25-9	BH25-9(7.5-12)
					Sample I.D.	25-037154-5	25-037154-6	25-037154-7	25-037154-8
					Date Collected	2025-Nov-27	2025-Nov-26	2025-Nov-25	2025-Nov-26
						-	-	-	-
Uranium	µg/g	0.1	2.5	T1RPI		0.4	0.6	0.3	0.6
Boron (HWS)	µg/g	0.02				0.10	0.15	0.09	0.11
Chromium (VI)	µg/g	0.2	0.66	T1RPI		<0.2	<0.2	<0.2	<0.2
Mercury	µg/g	0.01	0.27	T1RPI		<0.01	<0.01	<0.01	0.03

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				Client I.D.	Berm
				Sample I.D.	25-037154-9
				Date Collected	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-
Conductivity @25°C	mS/cm	0.001	0.57	T1RPI	0.189
pH @25°C	-	-			7.71
Sodium Adsorption Ratio (Calculated)	-	-	2.4	T1RPI	0.05
Cyanide (WAD)	µg/g	0.05	0.051	T1RPI	<0.05
Barium	µg/g	1	220	T1RPI	38
Beryllium	µg/g	0.2	2.5	T1RPI	0.2
Boron	µg/g	0.5	36	T1RPI	5.7
Cadmium	µg/g	0.5	1.2	T1RPI	<0.5
Chromium	µg/g	1	70	T1RPI	11
Cobalt	µg/g	1	21	T1RPI	3
Copper	µg/g	1	92	T1RPI	8
Lead	µg/g	5	120	T1RPI	14
Molybdenum	µg/g	1	2	T1RPI	<1
Nickel	µg/g	1	82	T1RPI	6
Vanadium	µg/g	1	86	T1RPI	19
Zinc	µg/g	3	290	T1RPI	42
Antimony	µg/g	0.5	1.3	T1RPI	<0.5
Arsenic	µg/g	0.5	18	T1RPI	1.9
Selenium	µg/g	0.5	1.5	T1RPI	<0.5
Silver	µg/g	0.2	0.5	T1RPI	<0.2
Thallium	µg/g	0.1	1	T1RPI	<0.1

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				Client I.D.	Berm
				Sample I.D.	25-037154-9
				Date Collected	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-
Uranium	µg/g	0.1	2.5	T1RPI	0.9
Boron (HWS)	µg/g	0.02			0.21
Chromium (VI)	µg/g	0.2	0.66	T1RPI	<0.2
Mercury	µg/g	0.01	0.27	T1RPI	0.03

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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(2.5-7)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-4
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Acetone	µg/g	0.5	0.5	T1RPI	<0.5	<0.5	<0.5	<0.5
Benzene	µg/g	0.02	0.02	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromoform	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromomethane	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Chloroform	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dibromochloromethane	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Ethylene Dibromide	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichlorobenzene,1,2-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene,1,3-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene,1,4-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane (Freon 12)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichloroethane,1,1-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,1-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,2-cis-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,2-trans-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloropropane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloropropene,1,3-cis-	µg/g	0.02			<0.02	<0.02	<0.02	<0.02

Michelle Dubien
Data Specialist

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Parameter	Units	R.L.	Limits	Reg 153/406	Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(2.5-7)
					Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-4
					Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
						-	-	-	-
Dichloropropene,1,3-cis+trans-(Calculated)	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Dichloropropene,1,3-trans-	µg/g	0.02				<0.02	<0.02	<0.02	<0.02
Ethylbenzene	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Hexane	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Dichloromethane (Methylene Chloride)	µg/g	0.05	0.05	T1RPI		0.18	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	µg/g	0.5	0.5	T1RPI		<0.5	<0.5	<0.5	<0.5
Methyl Isobutyl Ketone	µg/g	0.5	0.5	T1RPI		<0.5	<0.5	<0.5	<0.5
Methyl tert-Butyl Ether (MTBE)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Tetrachloroethane,1,1,1,2-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Tetrachloroethane,1,1,2,2-	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Toluene	µg/g	0.2	0.2	T1RPI		<0.2	<0.2	<0.2	<0.2
Trichloroethane,1,1,1-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Trichloroethane,1,1,2-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Trichloroethylene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane (Freon 11)	µg/g	0.02	0.25	T1RPI		<0.02	<0.02	<0.02	<0.02
Vinyl Chloride	µg/g	0.02	0.02	T1RPI		<0.02	<0.02	<0.02	<0.02
Xylene, m,p-	µg/g	0.03				<0.03	<0.03	<0.03	<0.03
Xylene, m,p,o- (Calculated)	µg/g	0.03	0.05	T1RPI		<0.03	<0.03	<0.03	<0.03
Xylene, o-	µg/g	0.03				<0.03	<0.03	<0.03	<0.03

Michelle Dubien
Data Specialist

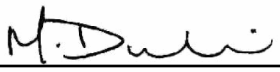
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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(2.5-7)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-4
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
PHC F1 (C6-C10)	µg/g	10	25	T1RPI	<10	<10	<10	<10
PHC F2 (>C10-C16)	µg/g	5	10	T1RPI	<5	<5	<5	<5
PHC F3 (>C16-C34)	µg/g	10	240	T1RPI	<10	21	19	<10
PHC F4 (>C34-C50)	µg/g	10	120	T1RPI	<10	<10	<10	<10
Moisture	%	-			9.68	8.35	6.58	9.70

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				Client I.D.	BH25-5(~ 18 Ft)	BH25-7	BH25-9	BH25-9(7.5-12)
				Sample I.D.	25-037154-5	25-037154-6	25-037154-7	25-037154-8
				Date Collected	2025-Nov-27	2025-Nov-26	2025-Nov-25	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Acetone	µg/g	0.5	0.5	T1RPI	<0.5	<0.5	<0.5	<0.5
Benzene	µg/g	0.02	0.02	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromoform	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Bromomethane	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Chloroform	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dibromochloromethane	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Ethylene Dibromide	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichlorobenzene,1,2-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene,1,3-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene,1,4-	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane (Freon 12)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Dichloroethane,1,1-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,1-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,2-cis-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloroethylene,1,2-trans-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloropropane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Dichloropropene,1,3-cis-	µg/g	0.02			<0.02	<0.02	<0.02	<0.02



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Data Specialist

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Parameter	Units	R.L.	Limits	Reg 153/406	Client I.D.	BH25-5(~ 18 Ft)	BH25-7	BH25-9	BH25-9(7.5-12)
					Sample I.D.	25-037154-5	25-037154-6	25-037154-7	25-037154-8
					Date Collected	2025-Nov-27	2025-Nov-26	2025-Nov-25	2025-Nov-26
						-	-	-	-
Dichloropropene,1,3-cis+trans-(Calculated)	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Dichloropropene,1,3-trans-	µg/g	0.02				<0.02	<0.02	<0.02	<0.02
Ethylbenzene	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Hexane	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Dichloromethane (Methylene Chloride)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	0.16	<0.05
Methyl Ethyl Ketone	µg/g	0.5	0.5	T1RPI		<0.5	<0.5	<0.5	<0.5
Methyl Isobutyl Ketone	µg/g	0.5	0.5	T1RPI		<0.5	<0.5	<0.5	<0.5
Methyl tert-Butyl Ether (MTBE)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Tetrachloroethane,1,1,1,2-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Tetrachloroethane,1,1,2,2-	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Toluene	µg/g	0.2	0.2	T1RPI		<0.2	<0.2	<0.2	<0.2
Trichloroethane,1,1,1-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Trichloroethane,1,1,2-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Trichloroethylene	µg/g	0.05	0.05	T1RPI		<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane (Freon 11)	µg/g	0.02	0.25	T1RPI		<0.02	<0.02	<0.02	<0.02
Vinyl Chloride	µg/g	0.02	0.02	T1RPI		<0.02	<0.02	<0.02	<0.02
Xylene, m,p-	µg/g	0.03				<0.03	<0.03	<0.03	<0.03
Xylene, m,p,o- (Calculated)	µg/g	0.03	0.05	T1RPI		<0.03	<0.03	<0.03	<0.03
Xylene, o-	µg/g	0.03				<0.03	<0.03	<0.03	<0.03



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				Client I.D.	BH25-5(~ 18 Ft)	BH25-7	BH25-9	BH25-9(7.5-12)
				Sample I.D.	25-037154-5	25-037154-6	25-037154-7	25-037154-8
				Date Collected	2025-Nov-27	2025-Nov-26	2025-Nov-25	2025-Nov-26
Parameter	**Units**	**R.L.**	**Limits**	**Reg 153/406**	-	-	-	-
PHC F1 (C6-C10)	µg/g	10	25	T1RPI	<10	<10	<10	<10
PHC F2 (>C10-C16)	µg/g	5	10	T1RPI	7	<5	<5	<5
PHC F3 (>C16-C34)	µg/g	10	240	T1RPI	16	22	<10	21
PHC F4 (>C34-C50)	µg/g	10	120	T1RPI	<10	<10	<10	<10
Moisture	%	-			11.3	12.3	18.4	20.4

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				Client I.D.	Berm
				Sample I.D.	25-037154-9
				Date Collected	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-
Acetone	µg/g	0.5	0.5	T1RPI	<0.5
Benzene	µg/g	0.02	0.02	T1RPI	<0.02
Bromodichloromethane	µg/g	0.02	0.05	T1RPI	<0.02
Bromoform	µg/g	0.02	0.05	T1RPI	<0.02
Bromomethane	µg/g	0.05	0.05	T1RPI	<0.05
Carbon Tetrachloride	µg/g	0.05	0.05	T1RPI	<0.05
Chlorobenzene	µg/g	0.02	0.05	T1RPI	<0.02
Chloroform	µg/g	0.02	0.05	T1RPI	<0.02
Dibromochloromethane	µg/g	0.02	0.05	T1RPI	<0.02
Ethylene Dibromide	µg/g	0.02	0.05	T1RPI	<0.02
Dichlorobenzene,1,2-	µg/g	0.05	0.05	T1RPI	<0.05
Dichlorobenzene,1,3-	µg/g	0.05	0.05	T1RPI	<0.05
Dichlorobenzene,1,4-	µg/g	0.05	0.05	T1RPI	<0.05
Dichlorodifluoromethane (Freon 12)	µg/g	0.05	0.05	T1RPI	<0.05
Dichloroethane,1,1-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloroethane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloroethylene,1,1-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloroethylene,1,2-cis-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloroethylene,1,2-trans-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloropropane,1,2-	µg/g	0.02	0.05	T1RPI	<0.02
Dichloropropene,1,3-cis-	µg/g	0.02			<0.02

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				Client I.D.	Berm
				Sample I.D.	25-037154-9
				Date Collected	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-
Dichloropropene,1,3-cis+trans-(Calculated)	µg/g	0.02	0.05	T1RPI	<0.02
Dichloropropene,1,3-trans-	µg/g	0.02			<0.02
Ethylbenzene	µg/g	0.02	0.05	T1RPI	<0.02
Hexane	µg/g	0.02	0.05	T1RPI	<0.02
Dichloromethane (Methylene Chloride)	µg/g	0.05	0.05	T1RPI	<0.05
Methyl Ethyl Ketone	µg/g	0.5	0.5	T1RPI	<0.5
Methyl Isobutyl Ketone	µg/g	0.5	0.5	T1RPI	<0.5
Methyl tert-Butyl Ether (MTBE)	µg/g	0.05	0.05	T1RPI	<0.05
Styrene	µg/g	0.05	0.05	T1RPI	<0.05
Tetrachloroethane,1,1,1,2-	µg/g	0.02	0.05	T1RPI	<0.02
Tetrachloroethane,1,1,2,2-	µg/g	0.05	0.05	T1RPI	<0.05
Tetrachloroethylene	µg/g	0.05	0.05	T1RPI	<0.05
Toluene	µg/g	0.2	0.2	T1RPI	<0.2
Trichloroethane,1,1,1-	µg/g	0.02	0.05	T1RPI	<0.02
Trichloroethane,1,1,2-	µg/g	0.02	0.05	T1RPI	<0.02
Trichloroethylene	µg/g	0.05	0.05	T1RPI	<0.05
Trichlorofluoromethane (Freon 11)	µg/g	0.02	0.25	T1RPI	<0.02
Vinyl Chloride	µg/g	0.02	0.02	T1RPI	<0.02
Xylene, m,p-	µg/g	0.03			<0.03
Xylene, m,p,o- (Calculated)	µg/g	0.03	0.05	T1RPI	<0.03
Xylene, o-	µg/g	0.03			<0.03

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				Client I.D.	Berm
				Sample I.D.	25-037154-9
				Date Collected	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-
PHC F1 (C6-C10)	µg/g	10	25	T1RPI	<10
PHC F2 (>C10-C16)	µg/g	5	10	T1RPI	<5
PHC F3 (>C16-C34)	µg/g	10	240	T1RPI	32
PHC F4 (>C34-C50)	µg/g	10	120	T1RPI	<10
Moisture	%	-			19.9

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Parameter	Units	R.L.	Limits	Reg 153/406	Client I.D.	BH25-3	BH25-5(~ 18 Ft)	BH25-7	BH25-9(7.5-12)
					Sample I.D.	25-037154-2	25-037154-5	25-037154-6	25-037154-8
					Date Collected	2025-Nov-25	2025-Nov-27	2025-Nov-26	2025-Nov-26
						-	-	-	-
Acenaphthene	µg/g	0.05	0.072	T1RPI		<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.05	0.093	T1RPI		<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.05	0.16	T1RPI		<0.05	<0.05	<0.05	<0.05
Benzo[a]anthracene	µg/g	0.05	0.36	T1RPI		<0.05	<0.05	0.11	<0.05
Benzo(a)pyrene	µg/g	0.05	0.3	T1RPI		<0.05	<0.05	0.11	<0.05
Benzo(b)fluoranthene	µg/g	0.05	0.47	T1RPI		<0.05	<0.05	0.14	<0.05
Benzo(b+k)fluoranthene (Calculated)	µg/g	0.05				<0.09 (3.)	<0.18 (3.)	<0.45 (3.)	<0.11 (3.)
Benzo(g,h,i)perylene	µg/g	0.05	0.68	T1RPI		<0.05	<0.05	0.08	<0.05
Benzo(k)fluoranthene	µg/g	0.05	0.48	T1RPI		<0.05	<0.05	0.05	<0.05
Biphenyl, 1, 1-	µg/g	0.02	0.05	T1RPI		<0.02	<0.02	<0.02	<0.02
Bis(2-Chloroethyl)ether	µg/g	0.02	0.5	T1RPI		<0.02	<0.02	<0.02	<0.02
Bis(2-Chloroisopropyl)ether	µg/g	0.02	0.5	T1RPI		<0.02	<0.02	<0.03 (3.)	<0.02
Bis(2-ethylhexyl) Phthalate	µg/g	0.5	5	T1RPI		<0.5	<0.5	<0.6 (3.)	<0.5
Chloroaniline,4-	µg/g	0.02	0.5	T1RPI		<0.02	<0.02	<0.05	<0.02
Chlorophenol,2-	µg/g	0.02	0.1	T1RPI		<0.02	<0.02	<0.02	<0.02
Chrysene	µg/g	0.05	2.8	T1RPI		<0.05	<0.05	0.11	<0.05
Dibenzo(a,h)anthracene	µg/g	0.05	0.1	T1RPI		<0.05	<0.05	<0.05	<0.05
Dichlorobenzidine,3,3'-	µg/g	0.05	1	T1RPI		<0.05	<0.05	<0.08 (3.)	<0.05
Dichlorophenol,2,4-	µg/g	0.02	0.1	T1RPI		<0.02	<0.02	<0.02	<0.02
Diethyl Phthalate	µg/g	0.1	0.5	T1RPI		<0.1	<0.1	<0.1	<0.1
Dimethylphenol,2,4-	µg/g	0.1	0.2	T1RPI		<0.1	<0.1	<0.1	<0.1

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				Client I.D.	BH25-3	BH25-5(~ 18 Ft)	BH25-7	BH25-9(7.5-12)
				Sample I.D.	25-037154-2	25-037154-5	25-037154-6	25-037154-8
				Date Collected	2025-Nov-25	2025-Nov-27	2025-Nov-26	2025-Nov-26
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Dimethyl Phthalate	µg/g	0.1	0.5	T1RPI	<0.1	<0.1	<0.1	<0.1
Dinitrophenol,2,4-	µg/g	1	2	T1RPI	<1	<1	<1	<1
Dinitrotoluene,2,4-	µg/g	0.02			<0.02	<0.02	<0.04 (3.)	<0.02
Dinitrotoluene,2,6-	µg/g	0.02			<0.02	<0.02	<0.03 (3.)	<0.02
Dinitrotoluene,2,4 & 2,6- (Calculated)	µg/g	0.2	0.5	T1RPI	<0.2	<0.2	<0.2	<0.2
Fluoranthene	µg/g	0.05	0.56	T1RPI	<0.05	<0.05	0.26	<0.05
Fluorene	µg/g	0.05	0.12	T1RPI	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3,-cd)Pyrene	µg/g	0.05	0.23	T1RPI	<0.05	<0.05	0.07	<0.05
Methylnaphthalene,1-	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
Methylnaphthalene,2-	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
Methylnaphthalene,2-(1-) (Calculated)	µg/g	0.05	0.59	T1RPI	<0.05	<0.05	<0.05	<0.05
Naphthalene	µg/g	0.01	0.09	T1RPI	<0.01	<0.01	<0.02 (3.)	<0.01
Pentachlorophenol	µg/g	0.1	0.1	T1RPI	<0.1	<0.1	<0.1	<0.1
Phenanthrene	µg/g	0.01	0.69	T1RPI	<0.01	0.01	0.21	<0.01
Phenol	µg/g	0.01	0.5	T1RPI	<0.01	<0.01	<0.02 (3.)	<0.01
Pyrene	µg/g	0.05	1	T1RPI	<0.05	<0.05	0.20	<0.05
Trichlorobenzene,1,2,4-	µg/g	0.02	0.05	T1RPI	<0.02	<0.02	<0.02	<0.02
Trichlorophenol,2,4,5-	µg/g	0.02	0.1	T1RPI	<0.02	<0.02	<0.02	<0.02
Trichlorophenol,2,4,6-	µg/g	0.02	0.1	T1RPI	<0.02	<0.02	<0.02	<0.02

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Data Specialist

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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(~ 18 Ft)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-5
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	Units	R.L.	Limits	Reg 153/406	-	-	-	-
Aldrin	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Chlordane (alpha)	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
Chlordane (gamma)	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
Chlordane (Alpha + Gamma) (Calculated)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
o,p'-DDD	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
p,p'-DDD	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
DDD (Total) (Calculated)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
o,p'-DDE	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
p,p'-DDE	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
DDE (Total) (Calculated)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
o,p'-DDT	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
p,p'-DDT	µg/g	0.05			<0.05	<0.05	<0.05	<0.05
DDT (Total) (Calculated)	µg/g	0.05	1.4	T1RPI	<0.05	<0.05	<0.05	<0.05
Dieldrin	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Endosulfan I	µg/g	0.04			<0.04	<0.04	<0.04	<0.04
Endosulfan II	µg/g	0.04			<0.04	<0.04	<0.04	<0.04
Endosulfan (Total) (Calculated)	µg/g	0.04	0.04	T1RPI	<0.04	<0.04	<0.04	<0.04
Endrin	µg/g	0.04	0.04	T1RPI	<0.04	<0.04	<0.04	<0.04
Heptachlor	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Heptachlor Epoxide	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05
Hexachloroethane	µg/g	0.01	0.01	T1RPI	<0.01	<0.01	<0.01	<0.01

Michelle Dubien
Data Specialist

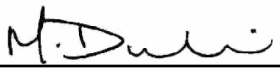
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				Client I.D.	BH25-1	BH25-3	BH25-4	BH25-5(~ 18 Ft)
				Sample I.D.	25-037154-1	25-037154-2	25-037154-3	25-037154-5
				Date Collected	2025-Nov-25	2025-Nov-25	2025-Nov-25	2025-Nov-27
Parameter	**Units**	**R.L.**	**Limits**	**Reg 153/406**	-	-	-	-
Hexachlorobutadiene	µg/g	0.01	0.01	T1RPI	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	µg/g	0.01	0.01	T1RPI	<0.01	<0.01	<0.01	<0.01
Lindane (Hexachlorocyclohexane, Gamma)	µg/g	0.01	0.01	T1RPI	<0.01	<0.01	<0.01	<0.01
Methoxychlor	µg/g	0.05	0.05	T1RPI	<0.05	<0.05	<0.05	<0.05

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Parameter	Units	R.L.	Limits	Reg 153/406	Client I.D.	BH25-9	BH25-9(7.5-12)
					Sample I.D.	25-037154-7	25-037154-8
					Date Collected	2025-Nov-25	2025-Nov-26
						-	-
Aldrin	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
Chlordane (alpha)	µg/g	0.05				<0.05	<0.05
Chlordane (gamma)	µg/g	0.05				<0.05	<0.05
Chlordane (Alpha + Gamma) (Calculated)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
o,p'-DDD	µg/g	0.05				<0.05	<0.05
p,p'-DDD	µg/g	0.05				<0.05	<0.05
DDD (Total) (Calculated)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
o,p'-DDE	µg/g	0.05				<0.05	<0.05
p,p'-DDE	µg/g	0.05				<0.05	<0.05
DDE (Total) (Calculated)	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
o,p'-DDT	µg/g	0.05				<0.05	<0.05
p,p'-DDT	µg/g	0.05				<0.05	<0.05
DDT (Total) (Calculated)	µg/g	0.05	1.4	T1RPI		<0.05	<0.05
Dieldrin	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
Endosulfan I	µg/g	0.04				<0.04	<0.04
Endosulfan II	µg/g	0.04				<0.04	<0.04
Endosulfan (Total) (Calculated)	µg/g	0.04	0.04	T1RPI		<0.04	<0.04
Endrin	µg/g	0.04	0.04	T1RPI		<0.04	<0.04
Heptachlor	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
Heptachlor Epoxide	µg/g	0.05	0.05	T1RPI		<0.05	<0.05
Hexachloroethane	µg/g	0.01	0.01	T1RPI		<0.01	<0.01



Michelle Dubien
Data Specialist

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

				Client I.D.	BH25-9	BH25-9(7.5-12)
				Sample I.D.	25-037154-7	25-037154-8
				Date Collected	2025-Nov-25	2025-Nov-26
Parameter	**Units**	**R.L.**	**Limits**	**Reg 153/406**	-	-
Hexachlorobutadiene	µg/g	0.01	0.01	T1RPI	<0.01	<0.01
Hexachlorobenzene	µg/g	0.01	0.01	T1RPI	<0.01	<0.01
Lindane (Hexachlorocyclohexane, Gamma)	µg/g	0.01	0.01	T1RPI	<0.01	<0.01
Methoxychlor	µg/g	0.05	0.05	T1RPI	<0.05	<0.05

Comments:

3. Elevated RL due to sample matrix interferences/dilution

Reg 153/406: Reg 153/406
T1RPI: R406 Tbl. 1 - RPI

Summary of Exceedances		
R406 Tbl. 1 - RPI		
BH25-1	**Found Value**	**Limit**
Dichloromethane (Methylene Chloride)	0.18	0.05
BH25-9	**Found Value**	**Limit**
Dichloromethane (Methylene Chloride)	0.16	0.05

Michelle Dubien
Data Specialist

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CADUCEON ENVIRONMENTAL LABORATORIES
Client committed. Quality assured. Proudly Canadian.

CERTIFICATE OF ANALYSIS

Final Report

C.O.C.: G132044 **REPORT No: 25-038414 - Rev. 0**

Report To:
Oakridge Environmental
PO Box 431
Peterborough, ON K9J 6Z3

CADUCEON Environmental Laboratories
285 Dalton Ave
Kingston, ON K7K 6Z1

Attention: Dan MacIntyre

DATE RECEIVED: 2025-Dec-16
DATE REPORTED: 2025-Dec-19
SAMPLE MATRIX: Soil

CUSTOMER PROJECT: Reach
P.O. NUMBER: PO#25-3614

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
Moisture	2	KINGSTON	ROHANLEY	2025-Dec-17	% Moisture	SM 2540
VOC-Volatiles (Solid)	2	RICHMOND_HILL	JEVANS	2025-Dec-19	C-VOC-02	EPA 8260

R.L. = Reporting Limit
NC = Not Calculated
Test methods may be modified from specified reference method unless indicated by an *

				Client I.D.	HA25-13	HA25-14
				Sample I.D.	25-038414-1	25-038414-2
				Date Collected	2025-Dec-15	2025-Dec-15
Parameter	**Units**	**R.L.**	**Limits**	**Reg 153/406**	-	-
Dichloromethane (Methylene Chloride)	µg/g	0.05	0.05	T1RPI	<0.05	<0.05
Moisture	%	-			11.2	12.9

Reg 153/406: Reg 153/406
T1RPI: R406 Tbl. 1 - RPI

Michelle Dubien
Data Specialist

The analytical results reported herein refer to the samples as received and relate only to the items tested. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

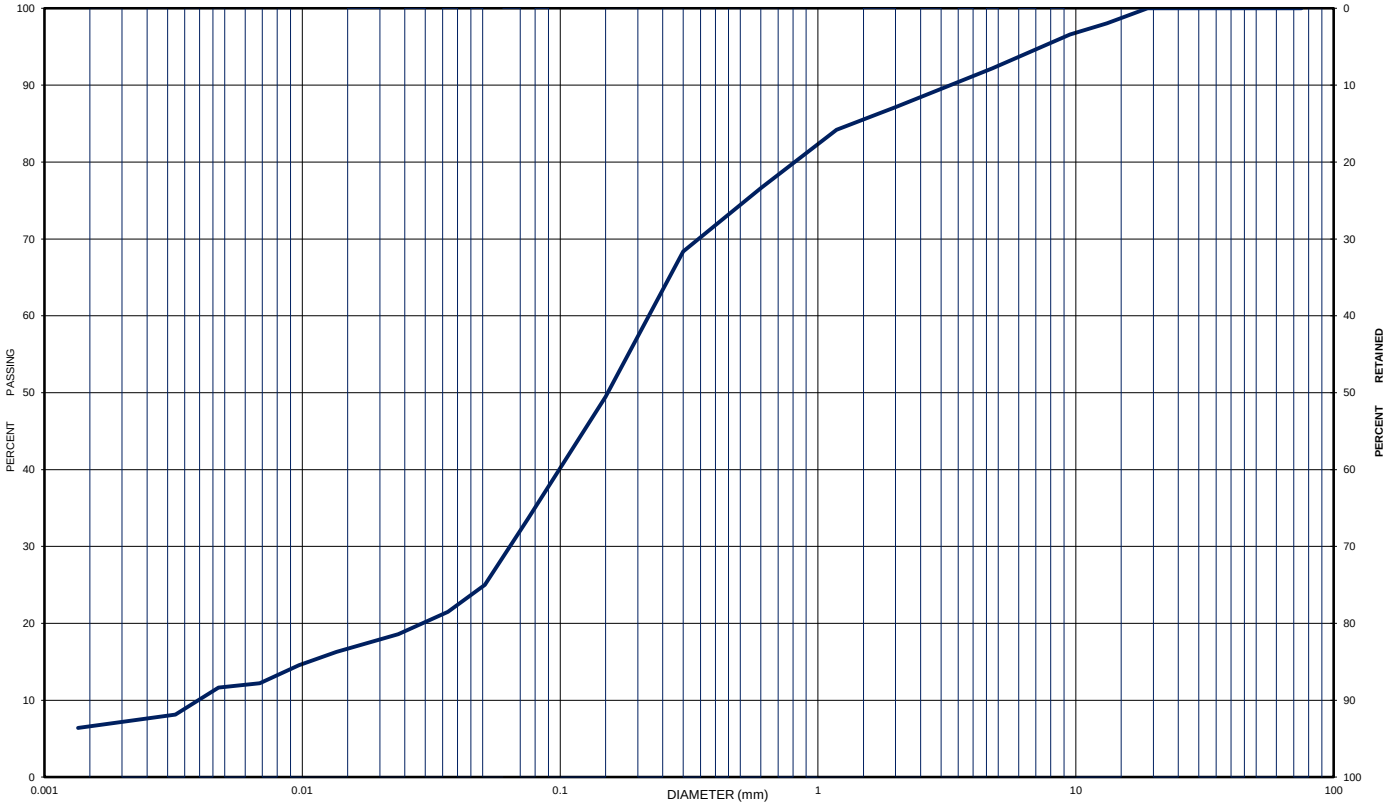
Appendix G

Grain Size Distribution Curves

GRAIN SIZE DISTRIBUTION CHART

Client:	*Oakridge Envionmental Limited*	Project No.:	*25-3614*
Project:	*Reach Street*	Location:	--
Sampled By:	*Oakridge Environmental Limited*	Date:	*December 3, 2025*
Sample No.:	*BH-25-1 SS-3*	Depth:	--

UNIFIED SOIL CLASSIFICATION SYSTEM					
CLAY & SILT (<0.075mm)	SAND (<4.75 to 0.075mm)			GRAVEL (>4.75mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



CLAY	SILT	SAND				FINE GRAVEL	GRAVEL
		VERY FINE	FINE	MEDIUM	COARSE		
U.S. BUREAU OF SOILS CLASSIFICATION							

Sample No.	Depth	Description	Moisture Content	Gravel	Sand	Silt	Clay	Class.
BH-25-1 SS-3	--	*Silty SAND trace of gravel and clay*	*3.9*	*8*	*59*	*26*	*7*	*SM*

MECHANICAL ANALYSIS SHEET

Client:	*Oakridge Envionmental Limited*	Project No.:	*25-3614*
Project:	*Reach Street*	Location:	--
Sampled By:	*Oakridge Environmental Limited*	Date:	December 3, 2025
Sample No.:	*BH-25-1 SS-3*	Depth:	--

SIEVE ANALYSIS OF RET. 4.75mm MATERIAL M2			
SIEVE SIZE (MM'S)	CUMULATIVE		
	CUMULATIVE MASS (GMS.)	% RET M1	% PASS M1
75.0 mm	*0.0*	0.0	**100.0**
63.0 mm	*0.0*	0.0	**100.0**
53.0 mm	*0.0*	0.0	**100.0**
37.5 mm	*0.0*	0.0	**100.0**
26.5 mm	*0.0*	0.0	**100.0**
19.0 mm	*0.0*	0.0	**100.0**
13.2 mm	*8.9*	1.9	**98.1**
9.5 mm	*15.6*	3.4	**96.6**
4.75 mm	*35.7*	7.8	**92.2**
Pan			

SIEVE ANALYSIS OF HYDROMETER MATERIAL (M7)			
SIEVES SIZES (MM'S)	CUMULATIVE MASS (GMS.)	CUMULATIVE	
		% RET M1	% PASS M1
2.00 mm	*58.7*	12.8	**87.2**
1.18 mm	*2.51*	15.8	**84.2**
0.600 mm	*8.99*	23.4	**76.6**
0.300 mm	*16.00*	31.6	**68.4**
0.150 mm	*32.10*	50.5	**49.5**
0.075 mm	*45.62*	66.4	**33.6**
Pan	*47.3*		

COARSE MATERIAL		
MASS (TOTAL SAMPLE) (A)	= M1	*457.0*
RET 4.75 mm - DRY	= M2	35.7
PASS 4.75 mm - DRY	= M3	421.3
MASS (TOTAL SAMPLE) (B)	= M4	
PARTICLE SIZE ANALYSIS		
RETAINED ON 2.00 mm - DRY	= M5	58.7
PASSING 2.00 mm - DRY	= M6	398.3
% RET 4.75 = M2 x 100 / M1	= K	7.8
% RET 2.00 = M5 x (100-K) / M1	= L	12.8

FIELD MOISTURE		HYGROSCOPIC MOISTURE
TARE NO.	S42	212
WET SOIL & TARE (GMS.)	*199.2*	*37.79*
DRY SOIL & TARE (GMS.)	*191.8*	*37.38*
MOISTURE (GMS.)	7.4	
DRY SOIL & TARE	191.8	
TARE (GMS.)	*4.2*	
DRY SOIL (GMS.)	187.6	
% MOISTURE	**3.9**	0.9892

HYDROMETER ANALYSIS MATERIAL PASS 2.00mm SIEVE (M7)

DRY MASS (M7) - UNCOR.					75.07
SPECIFIC GRAVITY	**2.749**	CORRECTION **(A)**	0.99	DRY MASS **(M7)** - CORRECT	74.26

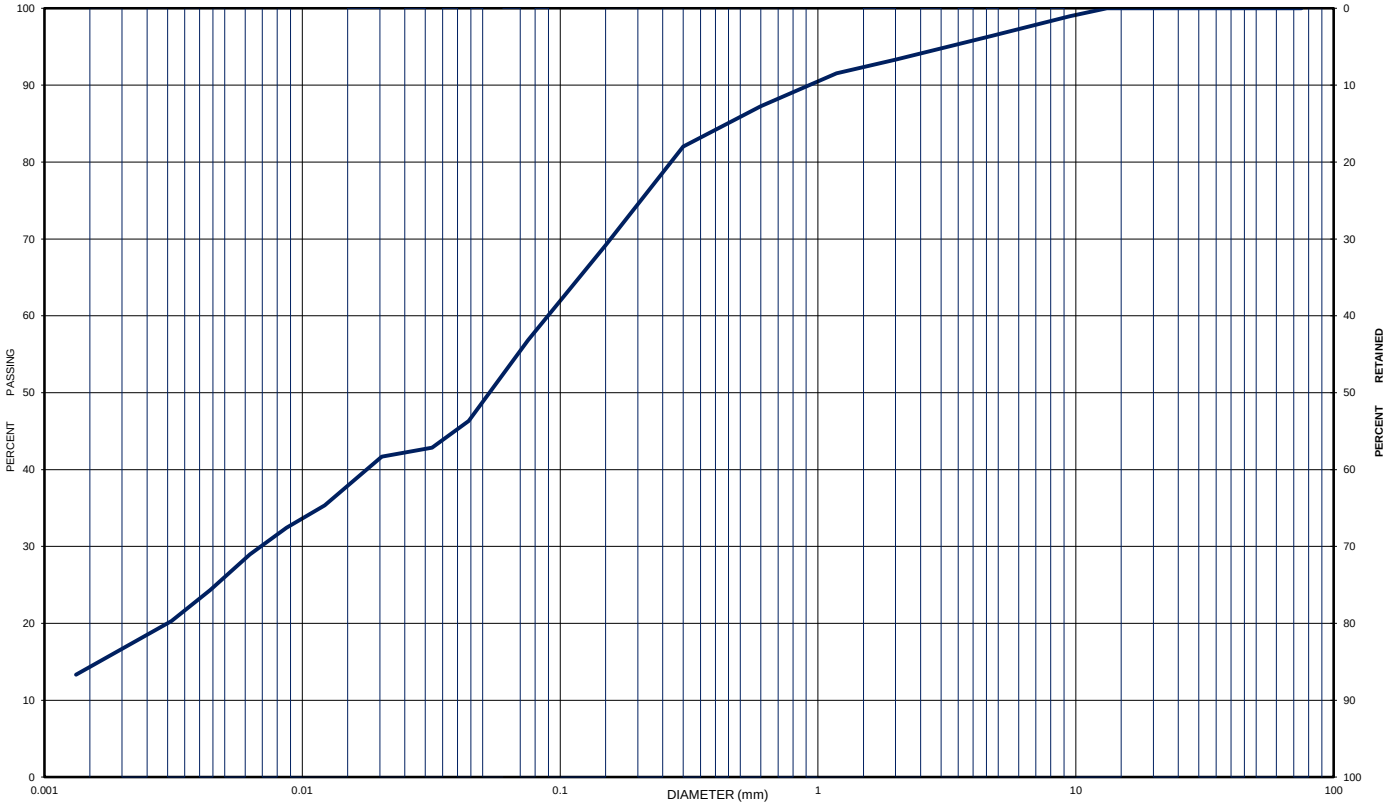
TIME MIN.	TEMP C°	HYDROMETER READING ORIG.	COR.	CR	LEN (MM'S)	CORRECTED DIAMETER (MM)	% PASS OF M1 = (PAR)/M7
1	*16*	*30.5*	*9.0*	21.5	13.0	0.05098	**25.0**
2	*16*	*27.5*	*9.0*	18.5	13.5	0.03674	**21.5**
5	*16*	*25.0*	*9.0*	16.0	13.9	0.02358	**18.6**
15	*17*	*22.0*	*8.0*	14.0	14.2	0.01358	**16.3**
30	*17*	*20.5*	*8.0*	12.5	14.5	0.00971	**14.5**
60	*18*	*18.5*	*8.0*	10.5	14.8	0.00684	**12.2**
120	*20*	*17.0*	*7.0*	10.0	14.9	0.00474	**11.6**
250	*23*	*14.0*	*7.0*	7.0	15.4	0.00322	**8.1**
1440	*23*	*12.0*	*6.5*	5.5	15.6	0.00135	**6.4**

Tested By: Wayne Rayfuse Date: December 9, 2025

GRAIN SIZE DISTRIBUTION CHART

Client:	*Oakridge Envionmental Limited*	Project No.:	*25-3614*
Project:	*Reach Street*	Location:	--
Sampled By:	*Oakridge Environmental Limited*	Date:	*December 3, 2025*
Sample No.:	*BH-25-2 SS-5*	Depth:	--

UNIFIED SOIL CLASSIFICATION SYSTEM					
CLAY & SILT (<0.075mm)	SAND (<4.75 to 0.075mm)			GRAVEL (>4.75mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



CLAY	SILT	SAND				FINE GRAVEL	GRAVEL
		VERY FINE	FINE	MEDIUM	COARSE		
U.S. BUREAU OF SOILS CLASSIFICATION							

Sample No.	Depth	Description	Moisture Content	Gravel	Sand	Silt	Clay	Class.
BH-25-2 SS-5	--	*SILT & SAND some clay trace of gravel*	*7.7*	*4*	*40*	*39*	*17*	*ML*

MECHANICAL ANALYSIS SHEET

Client: *Oakridge Envionmental Limited*
Project: *Reach Street*
Sampled By: *Oakridge Environmental Limited*
Sample No.: *BH-25-2 SS-5*

Project No.: *25-3614*
Location: --
Date: December 3, 2025
Depth: --

SIEVE ANALYSIS OF RET. 4.75mm MATERIAL M2			
SIEVE SIZE (MM'S)	CUMULATIVE		
	CUMULATIVE MASS (GMS.)	% RET M1	% PASS M1
75.0 mm	*0.0*	0.0	**100.0**
63.0 mm	*0.0*	0.0	**100.0**
53.0 mm	*0.0*	0.0	**100.0**
37.5 mm	*0.0*	0.0	**100.0**
26.5 mm	*0.0*	0.0	**100.0**
19.0 mm	*0.0*	0.0	**100.0**
13.2 mm	*0.0*	0.0	**100.0**
9.5 mm	*5.4*	1.0	**99.0**
4.75 mm	*18.9*	3.6	**96.4**
Pan			

COARSE MATERIAL		
MASS (TOTAL SAMPLE) (A)	= M1	*526.6*
RET 4.75 mm - DRY	= M2	18.9
PASS 4.75 mm - DRY	= M3	507.7
MASS (TOTAL SAMPLE) (B)	= M4	
PARTICLE SIZE ANALYSIS		
RETAINED ON 2.00 mm - DRY	= M5	35.2
PASSING 2.00 mm - DRY	= M6	491.4
% RET 4.75 = M2 x 100 / M1	= K	3.6
% RET 2.00 = M5 x (100-K) / M1	= L	6.7

FIELD MOISTURE		HYGROSCOPIC MOISTURE
TARE NO.	S49	209
WET SOIL & TARE (GMS.)	*276.9*	*50.81*
DRY SOIL & TARE (GMS.)	*257.3*	*50.78*
MOISTURE (GMS.)	19.6	
DRY SOIL & TARE	257.3	
TARE (GMS.)	*4.1*	
DRY SOIL (GMS.)	253.2	
% MOISTURE	**7.7**	0.9994

SIEVE ANALYSIS OF HYDROMETER MATERIAL (M7)

HYDROMETER ANALYSIS MATERIAL PASS 2.00mm SIEVE (M7)

DRY MASS (M7) - UNCOR. 79.82

SPECIFIC GRAVITY **2.735** CORRECTION **(A)** 0.99 DRY MASS **(M7)** - CORRECT 79.77

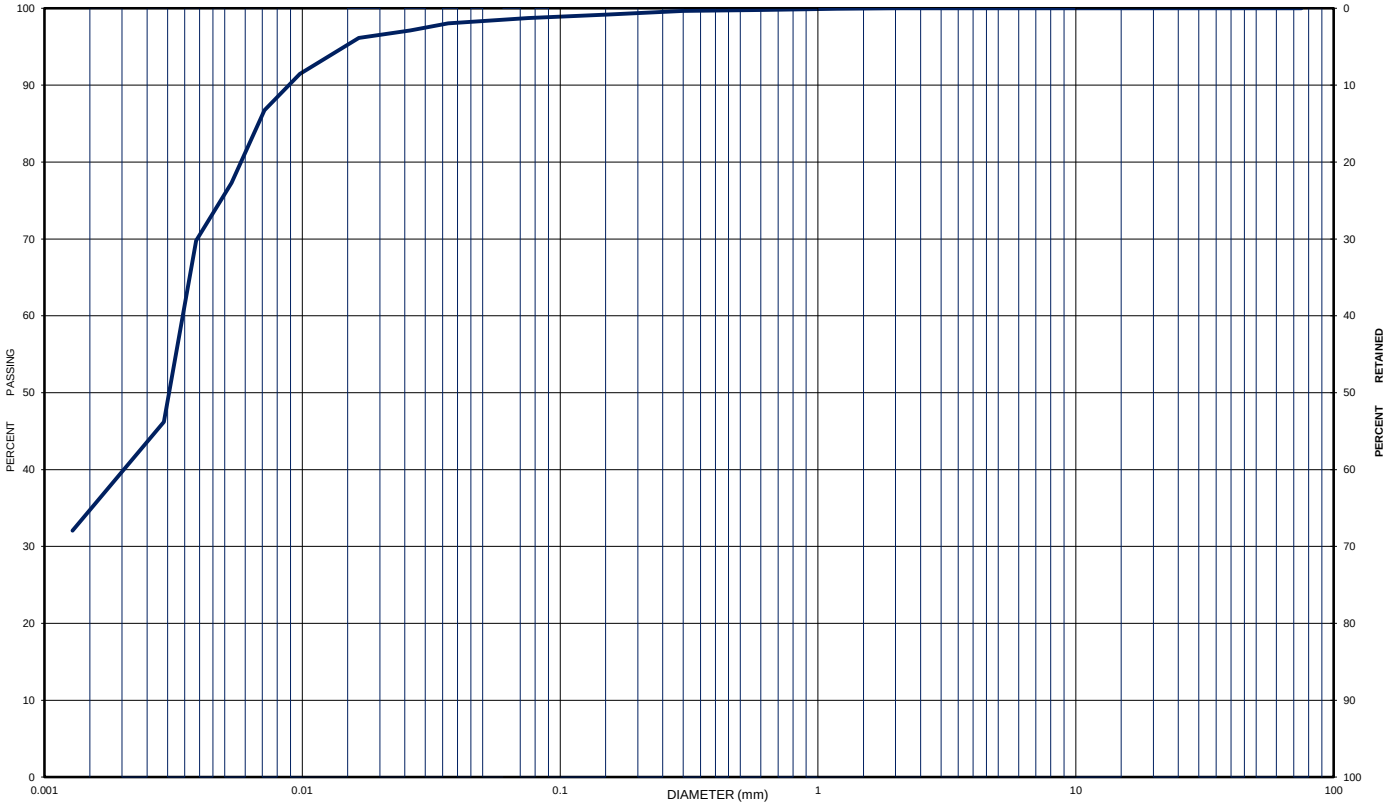
SIEVES SIZES (MM'S)	CUMULATIVE MASS (GMS.)	CUMULATIVE % RET M1	CUMULATIVE % PASS M1	TIME MIN.	TEMP C°	HYDROMETER READING ORIG.	HYDROMETER READING COR.	CR	LEN (MM'S)	CORRECTED DIAMETER (MM)	% PASS OF M1 = (PAR)/M7
2.00 mm	*35.2*	6.7	**93.3**	1	*17*	*48.0*	*8.0*	40.0	10.0	0.04415	**46.3**
1.18 mm	*1.53*	8.5	**91.5**	2	*17*	*45.0*	*8.0*	37.0	10.4	0.03183	**42.8**
0.600 mm	*5.16*	12.7	**87.3**	5	*17*	*44.0*	*8.0*	36.0	10.6	0.02033	**41.7**
0.300 mm	*9.68*	18.0	**82.0**	15	*17*	*38.5*	*8.0*	30.5	11.5	0.01222	**35.3**
0.150 mm	*20.65*	30.8	**69.2**	30	*18*	*35.0*	*7.0*	28.0	11.9	0.00868	**32.4**
0.075 mm	*31.19*	43.2	**56.8**	60	*18*	*32.0*	*7.0*	25.0	12.4	0.00626	**29.0**
Pan	*32.9*			120	*21*	*28.0*	*7.0*	21.0	13.1	0.00439	**24.3**
				250	*21*	*24.5*	*7.0*	17.5	13.7	0.00311	**20.3**
				1440	*22*	*18.0*	*6.5*	11.5	14.7	0.00133	**13.3**

Tested By: Wayne Rayfuse
Date: December 9, 2025

GRAIN SIZE DISTRIBUTION CHART

Client:	*Oakridges Envionmental*	Project No.:	*25-3614*
Project:	*Reach Street*	Location:	--
Sampled By:	*Oakridges Environmental*	Date:	*December 3, 2025*
Sample No.:	*BH-25-6 SS-3*	Depth:	--

UNIFIED SOIL CLASSIFICATION SYSTEM					
CLAY & SILT (<0.075mm)	SAND (<4.75 to 0.075mm)			GRAVEL (>4.75mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



CLAY	SILT	SAND				FINE GRAVEL	GRAVEL
		VERY FINE	FINE	MEDIUM	COARSE		
U.S. BUREAU OF SOILS CLASSIFICATION							

Sample No.	Depth	Description	Moisture Content	Gravel	Sand	Silt	Clay	Class.
BH-25-6 SS-3	--	*Clayey SILT*	*24.9*	*0*	*1*	*60*	*39*	*ML*

MECHANICAL ANALYSIS SHEET

Client: *Oakridges Envionmental* | Project No.: *25-3614*

Project: *Reach Street* | Location: --

Sampled By: *Oakridges Environmental* | Date: December 3, 2025

Sample No.: *BH-25-6 SS-3* | Depth:

SIEVE ANALYSIS OF RET. 4.75mm MATERIAL M2			
SIEVE SIZE (MM'S)	CUMULATIVE		
	CUMULATIVE MASS (GMS.)	% RET M1	% PASS M1
75.0 mm	*0.0*	0.0	**100.0**
63.0 mm	*0.0*	0.0	**100.0**
53.0 mm	*0.0*	0.0	**100.0**
37.5 mm	*0.0*	0.0	**100.0**
26.5 mm	*0.0*	0.0	**100.0**
19.0 mm	*0.0*	0.0	**100.0**
13.2 mm	*0.0*	0.0	**100.0**
9.5 mm	*0.0*	0.0	**100.0**
4.75 mm	*0.0*	0.0	**100.0**
Pan			

SIEVE ANALYSIS OF HYDROMETER MATERIAL (M7)			
SIEVES SIZES (MM'S)	CUMULATIVE MASS (GMS.)	CUMULATIVE % RET M1	CUMULATIVE % PASS M1
2.00 mm	*0.0*	0.0	**100.0**
1.18 mm	*0.04*	0.1	**99.9**
0.600 mm	*0.11*	0.2	**99.8**
0.300 mm	*0.18*	0.3	**99.7**
0.150 mm	*0.44*	0.8	**99.2**
0.075 mm	*0.67*	1.3	**98.7**
Pan	*0.7*		

COARSE MATERIAL		
MASS (TOTAL SAMPLE) (A)	= M1	*439.0*
RET 4.75 mm - DRY	= M2	0.0
PASS 4.75 mm - DRY	= M3	439.0
MASS (TOTAL SAMPLE) (B)	= M4	
PARTICLE SIZE ANALYSIS		
RETAINED ON 2.00 mm - DRY	= M5	0.0
PASSING 2.00 mm - DRY	= M6	439.0
% RET 4.75 = M2 x 100 / M1	= K	0.0
% RET 2.00 = M5 x (100-K) / M1	= L	0.0

FIELD MOISTURE		HYGROSCOPIC MOISTURE
TARE NO.	S6	203
WET SOIL & TARE (GMS.)	*225.5*	*41.98*
DRY SOIL & TARE (GMS.)	*181.4*	*41.97*
MOISTURE (GMS.)	44.1	
DRY SOIL & TARE	181.4	
TARE (GMS.)	*4.1*	
DRY SOIL (GMS.)	177.3	
% MOISTURE	**24.9**	0.9998
DRY MASS (M7) - UNCOR.		53.05
DRY MASS **(M7)** - CORRECT		53.04

HYDROMETER ANALYSIS MATERIAL PASS 2.00mm SIEVE (M7)

SPECIFIC GRAVITY **2.664** | CORRECTION **(A)** 1.00

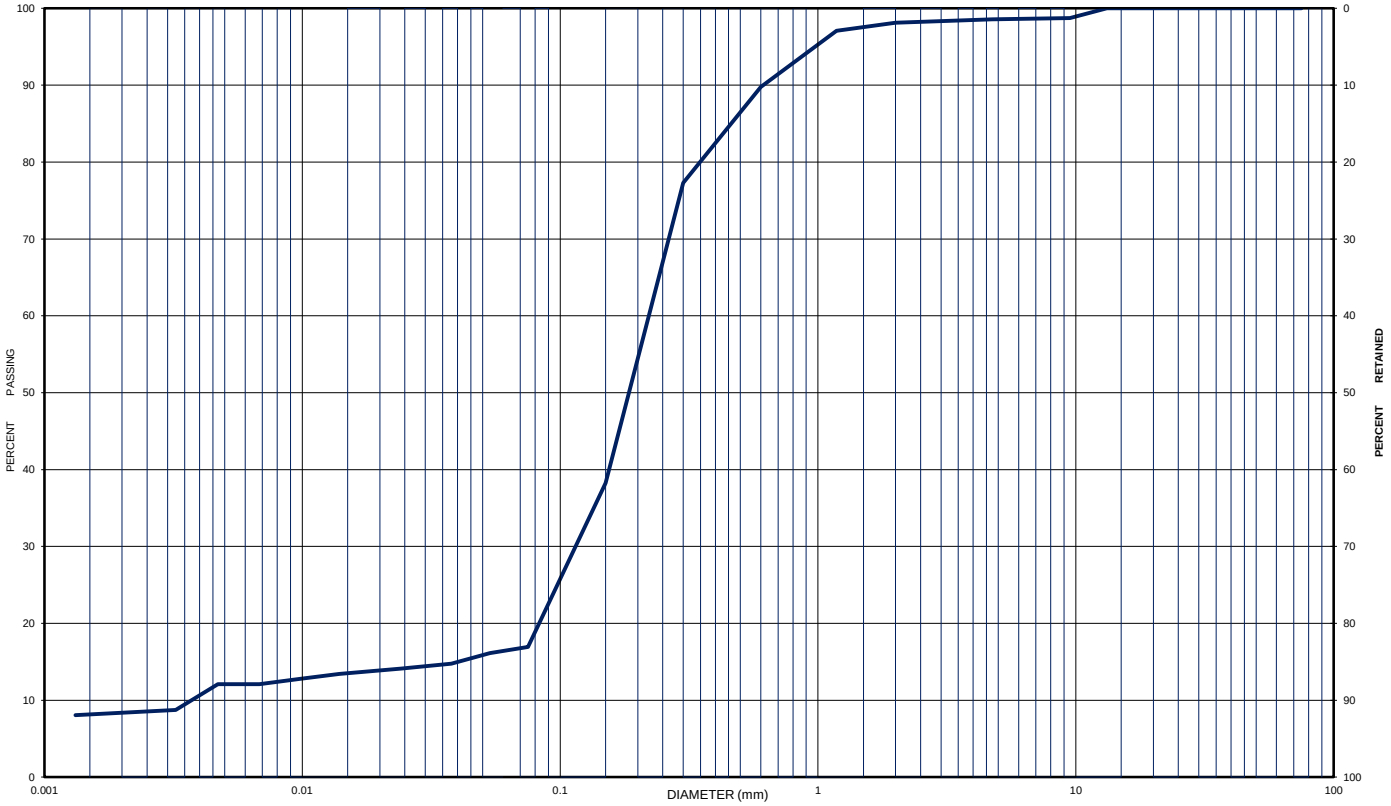
TIME MIN.	TEMP C°	HYDROMETER READING ORIG.	HYDROMETER READING COR.	CR	LEN (MM'S)	CORRECTED DIAMETER (MM)	% PASS OF M1 = (PAR)/M7
1	*24*	*58.5*	*6.5*	52.0	8.0	0.03680	**98.0**
2	*24*	*58.0*	*6.5*	51.5	8.1	0.02618	**97.1**
5	*24*	*57.5*	*6.5*	51.0	8.1	0.01656	**96.2**
15	*24*	*55.0*	*6.5*	48.5	8.5	0.00979	**91.4**
30	*24*	*52.5*	*6.5*	46.0	9.0	0.00713	**86.7**
60	*23*	*47.0*	*6.0*	41.0	9.8	0.00532	**77.3**
120	*23*	*43.0*	*6.0*	37.0	10.4	0.00388	**69.8**
250	*24*	*31.0*	*6.5*	24.5	12.5	0.00291	**46.2**
1440	*23*	*23.0*	*6.0*	17.0	13.7	0.00128	**32.1**

Tested By: Wayne Rayfuse | Date: December 11, 2025

GRAIN SIZE DISTRIBUTION CHART

Client:	*Oakridge Envionmental Limited*	Project No.:	*OE-25-01*
Project:	*Reach Street*	Location:	--
Sampled By:	*Oakridge Environmental Limited*	Date:	*December 3, 2025*
Sample No.:	*BH-25-9 SS-2*	Depth:	

UNIFIED SOIL CLASSIFICATION SYSTEM					
CLAY & SILT (<0.075mm)	SAND (<4.75 to 0.075mm)			GRAVEL (>4.75mm)	
	FINE	MEDIUM	COARSE	FINE	COARSE



CLAY	SILT	SAND				FINE GRAVEL	GRAVEL
		VERY FINE	FINE	MEDIUM	COARSE		
U.S. BUREAU OF SOILS CLASSIFICATION							

Sample No.	Depth	Description	Moisture Content	Gravel	Sand	Silt	Clay	Class.
BH-25-9 SS-2	--	*SAND, poorly graded trace of silt and clay*	*11.6*	*1*	*82*	*9*	*8*	*SP-SM*

MECHANICAL ANALYSIS SHEET

Client: *Oakridge Envionmental Limited*
Project: *Reach Street*
Sampled By: *Oakridge Environmental Limited*
Sample No.: *BH-25-9 SS-2*

Project No.: *OE-25-01*
Location: --
Date: December 3, 2025
Depth:

SIEVE ANALYSIS OF RET. 4.75mm MATERIAL M2			
SIEVE SIZE (MM'S)	CUMULATIVE		
	CUMULATIVE MASS (GMS.)	% RET M1	% PASS M1
75.0 mm	*0.0*	0.0	**100.0**
63.0 mm	*0.0*	0.0	**100.0**
53.0 mm	*0.0*	0.0	**100.0**
37.5 mm	*0.0*	0.0	**100.0**
26.5 mm	*0.0*	0.0	**100.0**
19.0 mm	*0.0*	0.0	**100.0**
13.2 mm	*0.0*	0.0	**100.0**
9.5 mm	*3.4*	1.3	**98.7**
4.75 mm	*3.9*	1.4	**98.6**
Pan			

SIEVE ANALYSIS OF HYDROMETER MATERIAL (M7)			
SIEVES SIZES (MM'S)	CUMULATIVE MASS (GMS.)	CUMULATIVE % RET M1	CUMULATIVE % PASS M1
2.00 mm	*5.0*	1.9	**98.1**
1.18 mm	*0.80*	2.9	**97.1**
0.600 mm	*6.17*	10.2	**89.8**
0.300 mm	*15.38*	22.7	**77.3**
0.150 mm	*44.20*	61.8	**38.2**
0.075 mm	*59.93*	83.1	**16.9**
Pan	*61..13*		

COARSE MATERIAL		
MASS (TOTAL SAMPLE) (A)	= M1	*269.2*
RET 4.75 mm - DRY	= M2	3.9
PASS 4.75 mm - DRY	= M3	265.3
MASS (TOTAL SAMPLE) (B)	= M4	
PARTICLE SIZE ANALYSIS		
RETAINED ON 2.00 mm - DRY	= M5	5.0
PASSING 2.00 mm - DRY	= M6	264.2
% RET 4.75 = M2 x 100 / M1	= K	1.4
% RET 2.00 = M5 x (100-K) / M1	= L	1.9

FIELD MOISTURE		HYGROSCOPIC MOISTURE
TARE NO.	S24	206
WET SOIL & TARE (GMS.)	*145.0*	*46.88*
DRY SOIL & TARE (GMS.)	*130.4*	*46.86*
MOISTURE (GMS.)	14.6	
DRY SOIL & TARE	130.4	
TARE (GMS.)	*4.6*	
DRY SOIL (GMS.)	125.8	
% MOISTURE	**11.6**	0.9996

HYDROMETER ANALYSIS MATERIAL PASS 2.00mm SIEVE (M7)

DRY MASS (M7) - UNCOR.	72.44		
SPECIFIC GRAVITY	**2.725**	CORRECTION **(A)**	0.99
DRY MASS **(M7)** - CORRECT	72.41		

TIME MIN.	TEMP C°	HYDROMETER READING ORIG.	COR.	CR	LEN (MM'S)	CORRECTED DIAMETER (MM)	% PASS OF M1 = (PAR)/M7
1	*17*	*20.0*	*8.0*	12.0	14.6	0.05334	**16.1**
2	*17*	*19.0*	*8.0*	11.0	14.7	0.03785	**14.8**
5	*17*	*18.5*	*8.0*	10.5	14.8	0.02402	**14.1**
15	*17*	*18.0*	*8.0*	10.0	14.9	0.01391	**13.4**
30	*18*	*17.5*	*8.0*	9.5	15.0	0.00974	**12.7**
60	*19*	*17.0*	*8.0*	9.0	15.1	0.00683	**12.1**
120	*21*	*16.0*	*7.0*	9.0	15.1	0.00471	**12.1**
250	*23*	*13.5*	*7.0*	6.5	15.5	0.00323	**8.7**
1440	*25*	*11.5*	*5.5*	6.0	15.6	0.00132	**8.1**

Tested By: Wayne Rayfuse
Date: December 9, 2025

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-1	BH25-1	BH25-1	BH25-1	BH25-1	BH25-1
SAMPLE NO.	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7
DEPTH	--	--	10"-17"	5"-22"	0"-13.5"	0"-10"
TARE NO.	S23	S42	S52	S42	S61	S26
WT OF TARE (gms.)	4.6	4.2	3.9	4.2	4.1	4.0
WT. SAMPLE WET + TARE (gms.)	214.7	199.2	175.1	262.9	193.8	220.2
WT. SAMPLE DRY + TARE (gms.)	205.3	191.8	166.2	239.9	183.9	200.0
WT. OF MOISTURE (gms.)	9.4	7.4	8.9	23.0	9.9	20.2
WT OF DRY SOIL (gms.)	200.7	187.6	162.3	235.7	179.8	196.0
MOISTURE CONTENT (%)	**4.7**	**3.9**	**5.5**	**9.8**	**5.5**	**10.3**

TEST HOLE NO.	BH25-1	BH25-1	BH25-1	BH25-1	BH25-1	BH25-1
SAMPLE NO.	SS-8	SS-9	SS-10	SS-10	SS-11	SS-11
DEPTH	0"-13"	0"-3"	4"-14"	4"-24"	0"-11"	11"-16"
TARE NO.	S41	S51	S4	S22	S57	S8
WT OF TARE (gms.)	4.2	4.0	5.1	4.4	4.3	4.0
WT. SAMPLE WET + TARE (gms.)	255.0	148.2	235.4	175.9	185.0	238.7
WT. SAMPLE DRY + TARE (gms.)	235.9	141.0	200.6	162.3	148.9	220.0
WT. OF MOISTURE (gms.)	19.1	7.2	34.8	13.6	36.1	18.7
WT OF DRY SOIL (gms.)	231.7	137.0	195.5	157.9	144.6	216.0
MOISTURE CONTENT (%)	**8.2**	**5.3**	**17.8**	**8.6**	**25.0**	**8.7**

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-1		BH25-2	BH25-2	BH25-2	BH25-2
SAMPLE NO.	SS-12		SS-2	SS-3	SS-4	SS-5
DEPTH	0"-12"		10"-18"	4"-18"	0"-19"	--
TARE NO.	S16		S32	S34	S7	S49
WT OF TARE (gms.)	4.7		4.0	4.6	4.5	4.1
WT. SAMPLE WET + TARE (gms.)	244.3		275.1	311.6	253.3	276.9
WT. SAMPLE DRY + TARE (gms.)	228.7		259.1	292.2	235.4	257.3
WT. OF MOISTURE (gms.)	15.6		16.0	19.4	17.9	19.6
WT OF DRY SOIL (gms.)	224.0		255.1	287.6	230.9	253.2
MOISTURE CONTENT (%)	**7.0**		**6.3**	**6.7**	**7.8**	**7.7**

TEST HOLE NO.	BH25-2	BH25-2	BH25-2	BH25-2		BH25-3
SAMPLE NO.	SS-6	SS-7	SS-8	SS-9		SS-2
DEPTH	0"-20"	0"-10"	10"-19"	--		Below 3'
TARE NO.	S1	S37	S47	S45		S48
WT OF TARE (gms.)	4.0	4.5	4.2	4.4		4.0
WT. SAMPLE WET + TARE (gms.)	277.6	190.1	259.8	260.9		241.0
WT. SAMPLE DRY + TARE (gms.)	258.6	172.5	245.3	247.6		193.3
WT. OF MOISTURE (gms.)	19.0	17.6	14.5	13.3		47.7
WT OF DRY SOIL (gms.)	254.6	168.0	241.1	243.2		189.3
MOISTURE CONTENT (%)	**7.5**	**10.5**	**6.0**	**5.5**		**25.2**

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-3	BH25-3	BH25-3	BH25-3	BH25-3	BH25-3
SAMPLE NO.	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8
DEPTH	--	--	--	--	--	--
TARE NO.	S44	S46	S27	S53	S43	S40
WT OF TARE (gms.)	4.0	4.2	4.7	4.0	4.1	4.1
WT. SAMPLE WET + TARE (gms.)	281.1	353.0	211.7	293.5	303.4	276.7
WT. SAMPLE DRY + TARE (gms.)	230.7	326.6	194.3	271.1	279.0	243.7
WT. OF MOISTURE (gms.)	50.4	26.4	17.4	22.4	24.4	33.0
WT OF DRY SOIL (gms.)	226.7	322.4	189.6	267.1	274.9	239.6
MOISTURE CONTENT (%)	**22.2**	**8.2**	**9.2**	**8.4**	**8.9**	**13.8**

TEST HOLE NO.		BH25-4a	BH25-4a	BH25-4a	BH25-4a	BH25-4a
SAMPLE NO.		SS-4	SS-5	SS-6	SS-7	SS-8
DEPTH		--	--	--	--	--
TARE NO.		S30	S13	S38	S28	S31
WT OF TARE (gms.)		4.7	4.8	4.7	4.0	4.7
WT. SAMPLE WET + TARE (gms.)		274.1	243.6	279.7	343.8	281.7
WT. SAMPLE DRY + TARE (gms.)		257.0	232.7	263.1	320.2	270.5
WT. OF MOISTURE (gms.)		17.1	10.9	16.6	23.6	11.2
WT OF DRY SOIL (gms.)		252.3	227.9	258.4	316.2	265.8
MOISTURE CONTENT (%)		**6.8**	**4.8**	**6.4**	**7.5**	**4.2**

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.		BH25-5	BH25-5	BH25-5	BH25-5	BH25-5
SAMPLE NO.		SS-2	SS-3	SS-4	SS-5	SS-6
DEPTH		--	0"-12"	--	--	--
TARE NO.		S60	S21	S58	S9	S15
WT OF TARE (gms.)		4.0	4.7	4.0	4.8	4.9
WT. SAMPLE WET + TARE (gms.)		211.7	283.5	298.0	257.4	270.6
WT. SAMPLE DRY + TARE (gms.)		189.8	253.1	271.8	235.4	252.5
WT. OF MOISTURE (gms.)		21.9	30.4	26.2	22.0	18.1
WT OF DRY SOIL (gms.)		185.8	248.4	267.8	230.6	247.6
MOISTURE CONTENT (%)		**11.8**	**12.2**	**9.8**	**9.5**	**7.3**

TEST HOLE NO.	BH25-5	BH25-5		BH25-6	BH25-6	BH25-6
SAMPLE NO.	SS-7	SS-8		SS-2	SS-3	SS-4
DEPTH	--	--		--	--	--
TARE NO.	S17	S55		S50	S6	S11
WT OF TARE (gms.)	4.7	3.9		4.5	4.1	4.8
WT. SAMPLE WET + TARE (gms.)	271.6	236.4		233.9	225.5	223.0
WT. SAMPLE DRY + TARE (gms.)	254.8	212.0		185.0	181.4	184.4
WT. OF MOISTURE (gms.)	16.8	24.4		48.9	44.1	38.6
WT OF DRY SOIL (gms.)	250.1	208.1		180.5	177.3	179.6
MOISTURE CONTENT (%)	**6.7**	**11.7**		**27.1**	**24.9**	**21.5**

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-6	BH25-6	BH25-6		BH25-7	BH25-7
SAMPLE NO.	SS-5	SS-6	SS-7		SS-1	SS-2
DEPTH	--	--	--		--	--
TARE NO.	S20	S12	S18		S18	S12
WT OF TARE (gms.)	4.7	5.0	4.6		4.6	4.9
WT. SAMPLE WET + TARE (gms.)	254.2	261.3	289.9		238.8	260.8
WT. SAMPLE DRY + TARE (gms.)	204.3	209.2	235.1		205.9	205.6
WT. OF MOISTURE (gms.)	49.9	52.1	54.8		32.9	55.2
WT OF DRY SOIL (gms.)	199.6	204.2	230.5		201.3	200.7
MOISTURE CONTENT (%)	**25.0**	**25.5**	**23.8**		**16.3**	**27.5**

TEST HOLE NO.	BH25-7	BH25-7	BH25-7	BH25-7	BH25-7	
SAMPLE NO.	SS-3	SS-4	SS-5	SS-6	SS-7	
DEPTH	--	--	--	--	--	
TARE NO.	S11	S55	S20	S17	S9	
WT OF TARE (gms.)	4.8	4.0	4.7	4.6	4.8	
WT. SAMPLE WET + TARE (gms.)	255.9	248.1	241.6	235.8	254.5	
WT. SAMPLE DRY + TARE (gms.)	209.6	204.3	198.7	188.3	211.3	
WT. OF MOISTURE (gms.)	46.3	43.8	42.9	47.5	43.2	
WT OF DRY SOIL (gms.)	204.8	200.3	194.0	183.7	206.5	
MOISTURE CONTENT (%)	**22.6**	**21.9**	**22.1**	**25.9**	**20.9**	

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-8	BH25-8	BH25-8	BH25-8	BH25-8	BH25-8
SAMPLE NO.	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7
DEPTH	4"-21"	--	--	--	--	--
TARE NO.	S50	S7	S15	S21	S60	S58
WT OF TARE (gms.)	4.2	4.5	4.8	4.8	4.1	4.0
WT. SAMPLE WET + TARE (gms.)	239.3	229.4	241.1	253.8	243.7	240.7
WT. SAMPLE DRY + TARE (gms.)	197.3	188.6	202.8	226.1	227.5	227.9
WT. OF MOISTURE (gms.)	42.0	40.8	38.3	27.7	16.2	12.8
WT OF DRY SOIL (gms.)	193.1	184.1	198.0	221.3	223.4	223.9
MOISTURE CONTENT (%)	**21.8**	**22.2**	**19.3**	**12.5**	**7.3**	**5.7**

TEST HOLE NO.		BH25-9	BH25-9	BH25-9	BH25-9	BH25-9
SAMPLE NO.		SS-2	SS-3Top	SS-3Bot	SS-4	SS-5
DEPTH		--	--	--	--	--
TARE NO.		S24	S14	S25	S35	S34
WT OF TARE (gms.)		4.6	4.7	4.7	4.2	4.5
WT. SAMPLE WET + TARE (gms.)		145.0	136.7	260.5	218.1	294.9
WT. SAMPLE DRY + TARE (gms.)		130.4	118.5	217.9	177.3	244.4
WT. OF MOISTURE (gms.)		14.6	18.2	42.6	40.8	50.5
WT OF DRY SOIL (gms.)		125.8	113.8	213.2	173.1	239.9
MOISTURE CONTENT (%)		**11.6**	**16.0**	**20.0**	**23.6**	**21.1**

TEST FORM
MOISTURE CONTENT LS-701

Project Name: *Reach Street* Project No.: *25-3614*

Client Name: *Oakridges Environmental Ltd.* Date Taken: ---

TEST HOLE NO.	BH25-9	BH25-9		BH25-10	BH25-10	BH25-10
SAMPLE NO.	SS-6	SS-7		SS-2	SS-3	SS-4
DEPTH	--	--		--	--	--
TARE NO.	S36	S29		S33	S5	S10
WT OF TARE (gms.)	4.5	4.8		4.7	4.6	4.8
WT. SAMPLE WET + TARE (gms.)	253.7	339.5		285.1	252.0	249.4
WT. SAMPLE DRY + TARE (gms.)	204.3	277.2		263.3	235.5	236.3
WT. OF MOISTURE (gms.)	49.4	62.3		21.8	16.5	13.1
WT OF DRY SOIL (gms.)	199.8	272.4		258.6	230.9	231.5
MOISTURE CONTENT (%)	**24.7**	**22.9**		**8.4**	**7.1**	**5.7**

TEST HOLE NO.						
SAMPLE NO.						
DEPTH						
TARE NO.						
WT OF TARE (gms.)						
WT. SAMPLE WET + TARE (gms.)						
WT. SAMPLE DRY + TARE (gms.)						
WT. OF MOISTURE (gms.)						
WT OF DRY SOIL (gms.)						
MOISTURE CONTENT (%)						

TEST FORM
MOISTURE CONTENT LS-701

Appendix H

OSSGA Source Site Flow Chart

Figure 5 – Generating Excess Soil (Source Site[1])

