

December 14, 2022

CRW 1 LP and CRW 2 LP 200 - 121 King Street West Toronto, ON, M5H 3T9

Attention: Ms. Veronica Green

Associate, Development, Slate Asset Management

Re: Preliminary Hydrogeological Assessment

2077, 2087, 2097 and 2105 Royal Windsor Drive, Mississauga, Ontario

Pinchin File: 306354.003

Pinchin Ltd. (Pinchin) has been retained by Slate Asset Management on behalf of CRW 1 LP and CRW 2 LP (Client) to conduct a preliminary hydrogeological assessment for the proposed redevelopment of the properties located at 2077, 2087, 2097 and 2105 Royal Windsor Drive (collectively referred to as the Site), in the City of Mississauga (City), Ontario.

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It is Pinchin's understanding that the Client intends to proceed with initial *Official Plan Amendment* (OPA) and *Zoning-By-Law Amendment* (ZBA) applications. The scope of work for this assessment is considered to be acceptable for these applications. Further investigation will be required for Site Plan Approval and supporting detailed design.

A hydrogeological assessment was conducted at the Site to support the Development Application process for the proposed redevelopment. This letter report provides a summary of soil and groundwater conditions at the Site and a conservative estimate of the volume of water that may require management during the construction and operations phases of the redevelopment of the Site. An evaluation of the quality of groundwater that could theoretically be discharged as part of the potential Site dewatering is also provided.

1.0 INTRODUCTION AND BACKGROUND

The Site is located on the northwest side of Royal Windsor Drive, approximately 50 m southwest of the intersection of Royal Windsor Drive and Southdown Road, in Mississauga. The approximate site location is shown on Figures 1 and 2.

The Site comprises two parcels of land with a total area of approximately 15,146 m² (3.74 acres). One parcel has been developed with a one-storey building with a local driveway and parking spaces, and is identified with a municipal address of 2105 Royal Windsor Drive.

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The other parcel has been developed with three one-storey buildings with parking spaces, identified as 2077, 2087 and 2097 Royal Windsor Drive. It is understood that the Client intends to redevelop the Site from its current commercial land use to mixed commercial and residential land use, comprised of tower buildings with multiple levels of underground parking facilities.

2.0 PURPOSE

The purpose of this hydrogeological assessment was to characterize the soil and groundwater conditions of the Site, evaluate the dewatering requirements for the proposed construction and operations phases of the development, evaluate the groundwater quality of potential discharge water, assess any potential impacts on the surrounding environment due to the proposed development, and provide recommendations concerning mitigative measures, if required.

2.1 Proposed Development Parameters

The site plans for the proposed development, dated December 13, 2022 and prepared by Gensler are provided in Appendix I.

The proposed development consists of four tower buildings (23-, 25-, 27- and 29-storey with one additional mechanical level on the top), new private roads, and parkland/landscape open spaces. The development is proposed in two phases:

- Phase 1 (West Block) consists of Tower 1 29 storey building and Tower 2 27 storey building on a 7-storey podium, sitting on 5 levels of underground parking facility. The development area of the Phase 1 (West Block) is 4,245 m², and the P5 Level is at the depth of 16.5 m below ground floor elevation; and
- Phase 2 (East Block) consists if Tower 3 25 storey building and Tower 4 23 storey building on a 7-storey podium, sitting on 3 levels of underground parking facility. The development area of the Phase 2 (East Block) is 6,412 m², and the P3 Level is at the depth of 10.5 m below ground floor elevation.

Based on the available topographic data, the topographic elevations at the Site are between 95 m above sea level (masl) and 100 masl. The ground elevations measured at the nine monitoring well locations ranged from approximately 98.3 masl to 99.2 masl, with an average of approximately 98.7 masl.

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2.2 Previous and Current Investigations

2.2.1 Previous Investigations

The following previous environmental reports completed for the Site were provided by the Client.

- Report entitled "Phase I Environmental Site Assessment, 2105 Royal Windsor Drive, Mississauga, Ontario" dated January 28, 2016, prepared for CS Capital Royal Windsor Inc., by JFM Environmental Limited (JFMEL) (2016 JFMEL Phase I ESA Report).
- Report entitled "Phase II Environmental Site Assessment, 2077-2105 Royal Windsor Drive, Mississauga, Ontario" dated January 28, 2016, prepared for CS Capital Royal Windsor Inc., by JFMEL (2016 JFMEL Phase II ESA Report).

2016 JFMEL Phase I ESA

The 2016 JFMEL Phase I ESA was completed in general accordance with the Canadian Standards Association (CSA) document entitled "*Phase I Environmental Site Assessment*" (CSA Document Z768-01), dated November 2001 (reaffirmed 2006), including a review of readily available historical records and reasonably ascertainable regulatory information, a Site reconnaissance, interviews, an evaluation of information and reporting. Based on the findings of the Phase I ESA, potentially contaminating activities (PCAs) were identified on Site, which were classified as "*Commercial Body Shop & Automotive Garage*", and an intrusive investigation in the form of Phase II ESA was recommended.

2016 JFMEL Phase II ESA

The 2016 JFMEL Phase II ESA was conducted based on the conclusions and recommendations made in 2016 JFMEL Phase I ESA.

JFMEL drilled four exterior boreholes at the Site to a maximum depth of 4.57 metres below ground surface (mbgs). Groundwater was not intercepted at any of the four borehole locations. The soils intercepted at all four boreholes were dry or slightly moist in soil at the shale interface. The groundwater regime was inferred to be situated within the underlying shale, beyond the bottom of the drilled boreholes (no monitoring wells were completed).

Soil stratigraphy at the JFMEL borehole locations generally consisted of silt and sand and gravel fill under asphalt cover, underlain by silty sand and silty clay to sandy clay, and then by shale bedrock. The fill materials generally consisted of a mixture of silt and fine-to medium sand, and sand and gravel, with trace brick fragments, and extended to depths ranging from 0.18 to 1.06 mbgs. The shale bedrock was encountered at depths ranging from 1.24 to 2.74 mbgs.

Soil samples were collected and selected for analyses of sodium adsorption ratio, petroleum hydrocarbon (PHCs) fractions F1 to F4 (F1-F4), metals, sodium adsorption ratio (SAR), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) and/or pH.

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The results of the laboratory analyses were compared with the Table 3 Standards and all samples met the applicable standards. Further work to address soil and groundwater conditions at the Site was not deemed warranted by JFMEL.

2.2.2 Current Investigations

Pinchin is conducting a combined investigation including Phase Two ESA, geotechnical investigation and hydrogeological assessment at the Site. A total of nine boreholes were drilled at the Site to the depths ranging from 4.6 to 12.6 mbgs, and were completed as monitoring wells identified as MW22-1 to MW22-9. The approximate borehole and monitoring well locations are shown on Figure 2.

The data obtained from the drilling program was used in this hydrogeological assessment and the monitoring wells were utilized for groundwater monitoring, sampling and testing.

3.0 METHODOLOGY

This preliminary hydrogeological assessment was conducted at the Site concurrently with a Phase Two ESA and geotechnical investigation and based on the conceptual development design. A total of nine monitoring wells identified as BH/MW1 to BH/MW9 were completed at the Site for groundwater monitoring, sampling and testing. The approximate monitoring well locations are shown on Figure 2. The monitoring well construction details are provided in Table 1.

The completed scope of work for the preliminary hydrogeological assessment consisted of the following tasks:

- A review of well installation details obtained from the drilling program;
- A desktop water well inventory survey using data from the MECP Water Well Information
 System (WWIS) database within 500 m of the Site property boundaries;
- A review and summary of the regional geology and hydrogeology, and its linkage to the site-specific geology and hydrogeology;
- Groundwater level monitoring in all the monitoring wells;
- Rising head hydraulic conductivity testing of selected monitoring wells;
- Preparation of local scale geologic cross-sections, groundwater elevation contours and flow directions:
- Background groundwater quality analysis for Peel Region Sewer Use By-law parameters;
- A review of the preliminary site development design for the details of the proposed redevelopment, and completion of a preliminary dewatering assessment for the construction and operations phases of the proposed redevelopment;
- Potential impact assessment with mitigative measures, if required; and

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 Preparation of a hydrogeological assessment report summarizing the findings of the investigation.

4.0 WATER WELL RECORDS

Water well records from within a 500 m radius of the Site were accessed from the Ontario Ministry of the Environment, Conservation and Parks (MECP) Water Well Information System (WWIS).

Based on a review of the water well database, a total of 29 water well records were found within a radius of 500 m from the Site. The MECP water well records are provided in Appendix II. The approximate MECP water well locations are presented on Figure 3.

Among the identified water well records within the 500 m radius, five were for water supply wells (domestic or commercial), seven are abandoned wells or wells with no details, and the others are monitoring wells, observation wells or test holes. No existing water well was found within the Site area.

Based on the water well records, the encountered soils were variable, including clay, silt, sand or gravel. The shale bedrock was encountered at depths ranging from approximately 1.5 to 5.5 mbgs. All five water supply wells were constructed and completed in bedrock, with the recorded groundwater levels between 2.1 and 4.6 mbgs.

5.0 GEOLOGY

Based on data from the Ontario Geological Survey, the Site is located in the Shale Plain physiographic landform within the South Slope physiographic region, underlain by the Queenston Formation of shale, siltstone, minor limestone and sandstone.

6.0 SURFACE WATER AND TOPOGRAPHY

Based on the Credit Valley Watershed Plan, the Site is located in the Lake Ontario Shoreline West Tributaries Subwatershed within the Credit River Watershed under the jurisdiction of Credit Valley Conservation (CVC).

As shown on Figure 3, the Site generally slopes towards the east, with the elevations ranging between 95 and 100 masl, and a creek named Sheridan Creek is located approximately 330 m east of the Site. It is noted that Lake Ontario is located approximately 2.5 km southeast of the Site.

7.0 RESULTS

7.1 Soil Stratigraphy

In general, the soil stratigraphy at the Site comprises an asphaltic concrete pavement structure underlain by fill material, followed by native clayey silt soil, and then by bedrock to the maximum borehole termination depth of approximately 12.6 mbgs.

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Asphaltic concrete was encountered surficially at all borehole locations and was approximately 50 to 100 mm thick. Fill material was encountered below the asphaltic concrete, and generally consisted of sand and gravel, or sand and gravel with clayey silt, extending to depths ranging from 0.3 to 1.5 mbgs.

Clayey silt deposits were encountered below the fill material in all of the boreholes, extending to depths ranging between 2.4 to 3.4 mbgs. The clayey silt deposits had a compact to very dense relative density based on SPT 'N' values of 11 to >50 blows per 300 mm penetration of a split spoon sampler. The results of particle size distribution analysis completed on two samples indicate that the samples contain 1 to 2% gravel, 9 to 16% sand, 60 to 64% silt, and 19 to 29% clay.

Bedrock was encountered in all of the boreholes at depths ranging from 2.3 to 3.4 mbgs and confirmed by rock coring at BH22-4. The Rock Quality Designation (RQD) was calculated for the recovered core samples and the upper 8 metres of the bedrock was highly weathered. The calculated RQD values show that the bedrock classification based on the RQD is in the range of very poor to fair quality.

The details of the soil descriptions and stratigraphy are presented in the Borehole Logs provided in Appendix III. Cross-sections showing the stratigraphy across the Site are provided on Figures 4A and 4B of this report.

7.2 Water Level Elevations and Groundwater Flow Regime

Groundwater level measurements were undertaken in all of the monitoring wells on August 5, 15 and 31, 2022 and September 20, 2022. The groundwater level data is presented in Table 2 of this letter report.

The measured groundwater levels ranged from 2.01 mbgs at MW22-6 (August 5, 2022) to 4.08 mbgs at MW22-1 (September 20, 2022), and groundwater level elevations ranged from 95.05 masl at MW22-7 (September 20, 2022) to 96.7 masl at MW22-6 (August 5, 2022). The maximum average of the groundwater levels across the Site was found to be 96.11 masl, measured on August 15, 2022.

Based on the groundwater elevations measured on August 15, 2022, groundwater elevation contours were prepared and are presented on Figure 5. The groundwater flow generally appears to converge towards a low groundwater elevation area located in the northeast portion of the Site, with the groundwater flowing towards the northeast in the southwest portion of the Site and towards the southwest in the northeast portion of the Site.

7.3 Hydraulic Conductivity Estimates

The hydraulic conductivity (K) of the soil/bedrock was estimated based on the rising head hydraulic conductivity tests completed at four monitoring wells. Rising head K- tests were conducted in four monitoring wells (MW22-1 to MW22-4) on August 15, 2022. The results of the K-tests and data processing records are provided in Appendix IV.

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The estimated hydraulic conductivities (K-values) for the screened intervals at the four tested on-Site wells are as follows:

MWs	Screen Interval (mbgs)	Screened Medium	K-Estimate (cm/sec)			
MW22-1	1.5 – 4.6	Clayey Silt; Weathered Shale	1.2 X 10 ⁻⁶			
MW22-2	1.5 – 4.6	Clayey Silt; Weathered Shale	5.1 X 10 ⁻⁶			
MW22-3	1.8 – 4.9	Clayey Silt; Weathered Shale	1.8 X 10 ⁻⁴			
MW22-4	9.2 – 12.2	Shale	2.6 X 10 ⁻⁴			

The K-values for the soil and shale bedrock interface interval ranged from 1.2×10^{-6} cm/sec (MW22-1) to 1.8×10^{-4} cm/sec (MW22-3), and the K-value for the relatively deep shale bedrock was estimated to be 2.6×10^{-4} cm/sec (MW22-4).

8.0 DEWATERING ASSESSMENT

As indicated in Section 1.2, the proposed buildings on Phase 1 (West Block) area will have 5-levels of underground parking and the buildings on Phase 2 (East Block) area will have 3-levels of underground parking. Based on the general ground elevation across the Site, it could be assumed that the finished floor elevation for the proposed buildings will be at 99 masl (Note: an averaged grade elevation of 98.7 masl was estimated from the monitoring well locations). The P5 level could be calculated to be at 82.5 masl and the P3 level could be calculated as 88.5 masl.

Assuming that the excavation extends to 1 m below the designed P5 and P3 elevations to allow for construction of the footings/foundations and the underground floor slab, the excavation will extend to the elevations of 81.5 masl for the P5 Level and 87.5 masl for the P3 Level.

Based on the groundwater monitoring, the groundwater elevations measured in the on-site monitoring wells between August and September 2022 ranged from 95.05 to 96.7 masl, which are above the P5 Level (82.5 masl) and P3 Level (88.5 masl) and the required excavation bottom elevations. Therefore, groundwater control will be required during the construction and operations phases of the proposed buildings.

It is understood that the construction may take place in phases. As a result, the dewatering estimates are provided for Phase 1 (West Block) and Phase 2 (East Block) separately.

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8.1 Short-Term Dewatering Estimates

8.1.1 Groundwater Inflow

Based on the conceptual designs provided by the Client, a conservative groundwater dewatering scenario during construction was undertaken that employed the following parameters and assumptions.

- The excavation/dewatering area is 4,245 m² for Phase 1 (West Block) area and 6,412 m² for Phase 2 (East Block) area (assuming a whole area excavation for footing/foundation construction);
- Assuming that the target dewatering level will be 0.5 m below the excavation bottom, the target groundwater elevation will be 81 masl for the P5 Level in the Phase 1 (West Block) area and 87 masl for the P3 Level in the Phase 2 (East Block) area;
- The initial groundwater level will be assumed to be 96.2 masl (the highest averaged groundwater level was 96.11 masl).
- The hydraulic conductivity is 2.6 x 10⁻⁴ cm/sec (the hydraulic conductivity estimated from the bedrock).

Based on the above assumptions, the short-term construction dewatering rate and zone of influence were estimated and are presented below.

Phase/ Block	Dewatering Area (m²)	Initial Water Level (masl)	Target Water Level (masl)	K- Estimate (cm/sec)	Estimated Maximum Zone of Influence (m from Edge of Excavation)	Dewatering Rate (without Safety Factor) (L/day)	Dewatering Rate Estimate with Safety Factor of 2 or 100% (L/day)
Phase 1 (West Block)	4,245	96.2	81	2.6 x 10 ⁻⁴	74	158,111	316,222
Phase 2 (East Block)	6,412	96.2	87	2.6 x 10 ⁻⁴	45	96,555	193,110

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It should be noted that the application of a Safety Factor provides a more conservative assessment for planning purposes to account for potential variabilities in the hydraulic conductivities in the soil and bedrock across the Site. In addition, during the initial stages of the construction dewatering, the dewatering volumes would be greater than those under a steady state condition, because the water stored in the soil and bedrock fractures is also being removed.

The above total volume estimates, assuming that one bulk excavation will be undertaken for the underground structure for Phase 1 (West Block) or Phase 2 (East Block), and including a Safety Factor of 2, or 100%, is above the threshold for an Environmental Activity Sector Registration (EASR) requirement for construction dewatering of more than 50,000 L/day (50 m³/day) and below the threshold limit of 400,000 L/day (400 m³/day) for a Permit-to-Taka-Water (PTTW) requirement. Therefore, an EASR registration will be required for the construction of the proposed buildings.

8.1.2 Stormwater Inflow

A significant amount of the dewatering demand from any construction project is the volume of water that is derived from stormwater that is generated during and after precipitation events. In the case of the proposed development, it will be necessary to handle stormwater that will accumulate within the excavation footprint.

For planning purposes, dewatering estimates are developed assuming the potential occurrence of extreme storm events, which are based upon events that have an observed "return period" or period of recurrence.

Based on the Canadian Climatic Normals 1981-2010 Station Data for Toronto Pearson International Airport Station, the days which had a precipitation rate between 10 mm/day and 25 mm/day vary from 0.77 to 2.6 days per year, with an average of 1.9 days per year, and the days which had a precipitation rate greater than 25 mm/day vary from 0.07 to 0.9 days per year, with an average of 0.4 days per year.

The volumes of storm water that can be generated within the Phase 1 (West Block) and Phase 2 (East Block) development areas were estimated for a 30 mm/day high-precipitation storm event, and are summarized below:

Phase/ Block	Excavation Area (m²)	Precipitation Rate (mm/day)	Stormwater Volume (L/day)		
Phase 1 (West Block)	4,245	30	127,350		
Phase 2 (East Block)	6,412	30	192,360		

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It should be noted that the above estimates do not take into account any infiltration or evaporation in the excavation area. However, it should also be noted that, for infrequent extreme storm events, the great majority of the generated stormwater becomes run-off or accumulates in the excavation area, due to the fixed assimilative capacity of the soils and the minimal evaporation until the cessation of the event.

8.1.3 Summary of Construction Dewatering Estimates

Based on the short-term construction dewatering calculations discussed above, the estimated construction phase dewatering rates are summarized below.

Phase/ Block	Construction Dewatering	Total Volume without Safety Factor for Groundwater (L/day)	Total Volume with Safety Factor of 2 for Groundwater (L/day)
	Discharge of Groundwater	158,111	316,222
Phase 1 (West	Discharge of Stormwater	127,350	127,350
Block)	Discharge of Groundwater and Stormwater	285,461	443,572
	Discharge of Groundwater	96,555	193,110
Phase 2 (East	Discharge of Stormwater	192,360	192,360
Block)	Discharge of Groundwater and Stormwater	288,915	385,470

8.2 Long-Term Dewatering Estimate - Operations

The same calculation methodology for short-term dewatering estimates was used for the long-term dewatering estimates, except for employing a different target groundwater level, which is just below the projected P5 or P3 slab elevation. The following parameters were employed:

 Target Water Level: 88.3 masl for P3 Level and 82.3 masl for P5 Level for (0.2 m below P3/P5 concrete slab).

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The estimated long-term dewatering rate and zone of influence are presented below.

Phase/ Block	Footprint Area (m²)	Initial Water Level (masl)	Target Water Level (masl)	K- Estimate (cm/sec)	Estimated Maximum Zone of Influence (m from edge of Excavation)	Dewatering Rate (without safety factor) (L/day)	Dewatering Rate Estimate with safety factor of 2 or 100% (L/day)
Phase 1 (West Block)	4,245	96.2	82.3	2.6 X 10 ⁻⁴	67	131,065	262,130
Phase 2 (East Block)	6,412	96.2	88.3	2.6 X 10 ⁻⁴	38	71,832	143,664

The dewatering volumes estimated for long-term building operations in the Phase 1 (West Block) area and Phase 2 (East Block) area, including a Safety Factor of 2, are above the threshold for long-term dewatering of 50,000 L/day (50 m³/day) that triggers a PTTW requirement from the MECP. PTTWs will be required for the proposed building operations in Phase 1 (West Block) area and Phase 2 (East Block) area.

9.0 GROUNDWATER QUALITY

One unfiltered groundwater sample was initially obtained on August 8, 2022 from MW22-2 (Sample ID: MW22-2) to evaluate the water quality with reference to the Peel Region Sewer Use By-Law parameter criteria, for storm sewer and sanitary sewer discharge. Re-sampling was conducted from the same well on August 31, 2022 for analysis of selected parameters including total suspended solid (TSS), Total Kjeldahl Nitrogen (TKN), volatile organic compounds (VOCs) and metals.

The groundwater samples were submitted to and analyzed by Bureau Veritas Laboratories (BV). BV has been accredited by the Canadian Association For Laboratory Accreditation Inc. (CALA).

The analytical results were compared with the Peel Region Sewer Use Bylaw – Sanitary and Storm Sewer Discharge Limits. Exceedances of the Sanitary and/or Storm Sewer Discharge limits were detected in the analyzed water samples for a maximum of four parameters, including TSS, TKN, manganese and zinc. In addition, detection limits were raised above the storm sewer criteria for VOC parameters in the initial groundwater sample.

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The identified exceedances are listed below.

Date of Sampling	Parameter	Unit	Storm Water Guideline Value	Sanitary Sewer Guideline Value	Measured Concentration	
	TSS	mg/L	<u>15</u>	<u>350</u>	1000	
August 8,	TKN	mg/L	1	100	4.5	
2022	Manganese	mg/L	<u>0.05</u>	5	1.1	
	Zinc	mg/L	0.04	3	0.084	
August 31,	TSS	mg/L	<u>15</u>	350	67	
2022	TKN	mg/L	1	100	3.7	
	Manganese	mg/L	0.05	5	0.28	
	Dissolved Manganese	mg/L	0.05	5	0.24	

It is considered that some of the exceedances of the sewer use discharge limits are attributed to sediment within the sample and may be reduced to acceptable levels following treatment for TSS. However, special treatment shall be considered to reduce manganese and TKN in the groundwater if the storm sewer system is selected for receiving the excess water discharge. Manganese concentrations are often elevated in shallow groundwater in the Greater Toronto Area.

It is recommended that samples from several wells be obtained and be analyzed for TKN to confirm its elevated presence across the Site.

10.0 CONCLUSIONS

Pinchin provides the following conclusions arising out of the Hydrogeology Assessment activities to date:

- The Site is located in the Shale Plain physiographic landform within the South Slope physiographic region, underlain by the Queenston Formation of shale, siltstone, minor limestone and sandstone.
- The Site is located in the Lake Ontario Shoreline West Tributaries Subwatershed within
 the Credit River Watershed under the jurisdiction of the Credit Valley Conservation
 (CVC). A creek named Sheridan Creek is located to the east of the Site. It is noted that
 Lake Ontario is located approximately 2.5 km east of the Site.

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- In general, the soil stratigraphy at the Site comprises an asphaltic concrete pavement structure underlain by fill material followed by native soil of clayey silt and then by bedrock. Shale bedrock was encountered at depths ranging from 2.3 to 3.4 mbgs.
- Groundwater level measurements completed in August and September 2022 indicated that the measured groundwater levels ranged from 2.01 to 4.08 mbgs, with groundwater elevations ranging from 95.05 to 96.70 masl. The groundwater flow generally appears to converge towards a low groundwater elevation area located in the northeast portion of the Site, with the groundwater flowing towards the northeast in the southwest portion of the Site and towards the southwest in the northeast portion of the Site;
- The hydraulic conductivities (K-values) estimated for clayey silt and weather shale bedrock from three monitoring wells ranged from 1.2 x 10⁻⁶ cm/sec to 1.8 x 10⁻⁴ cm/sec, and the K value estimated for shale from one monitoring well was 2.6 x 10⁻⁴ cm/sec;
- The short-term dewatering rates that were estimated for the construction phases, including groundwater inflow and stormwater inflow, and incorporating a Safety Factor of 2 for groundwater inflow, are 443,572 L/day for the Phase 1 (West Block) area and 385,470 L/day for the Phase 2 (East Block) area;
- The long-term dewatering rates estimated for the proposed building operations are 262,130 L/day in the Phase 1 (West Block) area with a five-level underground structure, and 143,664 L/day in Phase 2 (East Block)area with three-level underground structure;
- An EASR registration will be required for the short-term construction dewatering, and PTTWs will be required for the long-term drainage discharges for Phase 1 (West Block) area and Phase 2 (East Block) area; and
- A groundwater quality assessment completed as per Peel Region Sewer Use Bylaw
 indicated that the water generated at the Site could not be discharged to the local sewer
 system without appropriate treatment for TSS, and special treatment may be required for
 TKN and manganese if storm sewer is selected for receiving the excess water discharge.

11.0 RECOMMENDATIONS

The preliminary hydrogeological assessment was completed based on the soil and groundwater conditions observed and on the information provided in the progressive development plans. Additional boreholes and monitoring wells will be required to be completed at the appropriate depth to support an SPA application and/or for detailed building design. As a result, the preliminary hydrogeological assessment will need to be updated with the data obtained from additional subsurface investigations, based on the detailed design for the development.

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It is recommended that samples from several wells be obtained and be analyzed for TKN to confirm its presence in elevated concentrations across the Site.

12.0 LIMITATIONS

Conclusions derived are specific to the immediate area of study and cannot be extrapolated extensively away from sample or testing locations. Samples have been analyzed for a limited number of parameters, and the absence of information relating to a specific contaminant does not indicate that it is not present.

This report was prepared for the exclusive use of the Client and the City of Mississauga, subject to the terms, conditions and limitations contained within the duly authorized proposal for this project. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

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Pinchin will not be responsible for any consequential or indirect damages. Pinchin will only be liable for damages resulting from negligence or wilful misconduct of Pinchin. All claims by the Client shall be deemed relinquished if not made within two years after last date of services provided.

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2077, 2087, 2097 and 2105 Royal Windsor Drive, Mississauga, Ontario CRW 1 LP and CRW 2 LP

December 14, 2022 Pinchin File: 306354.003

FINAL

13.0 CLOSING REMARKS

We trust that the information provided in this letter meets your requirements. If you have any questions, or require additional information, please do not hesitate to contact either of the undersigned.

Yours truly,

Pinchin Ltd.

Prepared by:

Bujing Guan, M.A.Sc., P.Geo.

Hydrogeologist 437.993.1832

bguan@pinchin.com

Encl.: Figures

Table 1 – Monitoring Well Construction Details

Table 2 – Water Level Summary Table

Appendix I - Site Plans

Appendix II - MECP Water Well Records

Appendix III - Borehole Logs

Appendix IV – Rising Head Hydraulic Conductivity Test Curves

Appendix V – Laboratory Analytical Results

306354.003 HG Assessment 2015 Royal Windsor Drive Mississauga ON DEC 14 2022.docx

Reviewed by:

Craig S. Kelly, B.Sc., P.Geo. Senior Geoscientist

289.971.8372

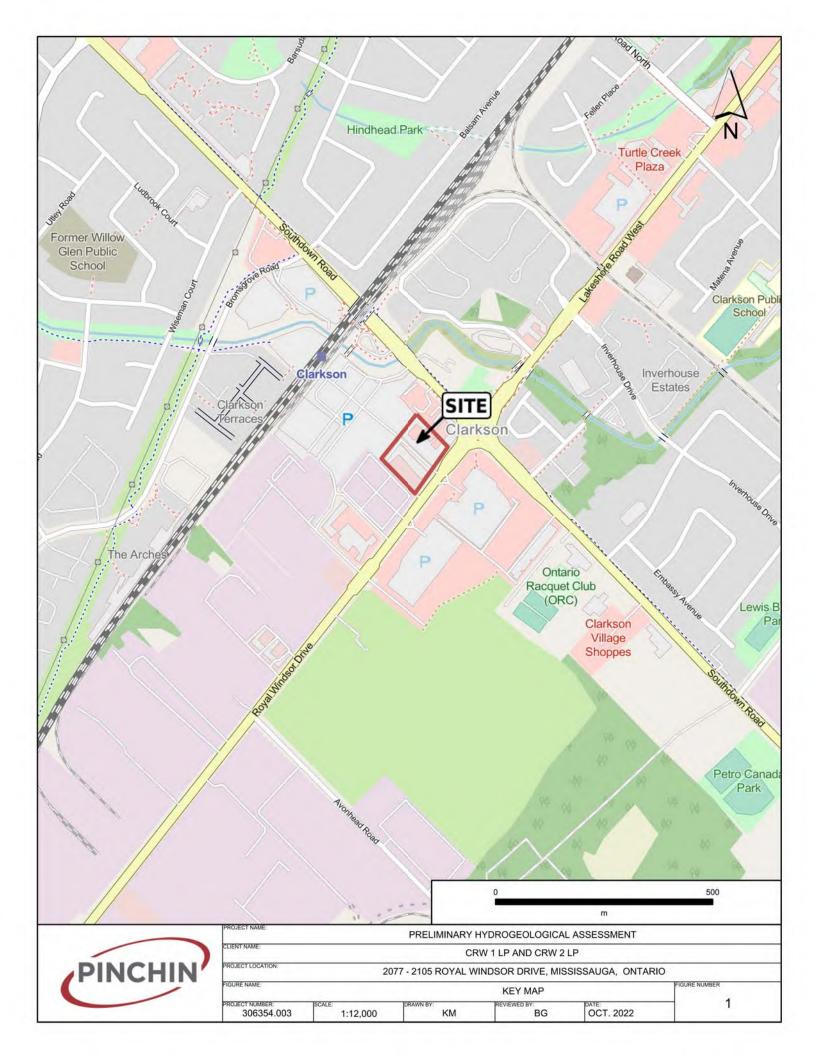
cxkelly@pinchin.com

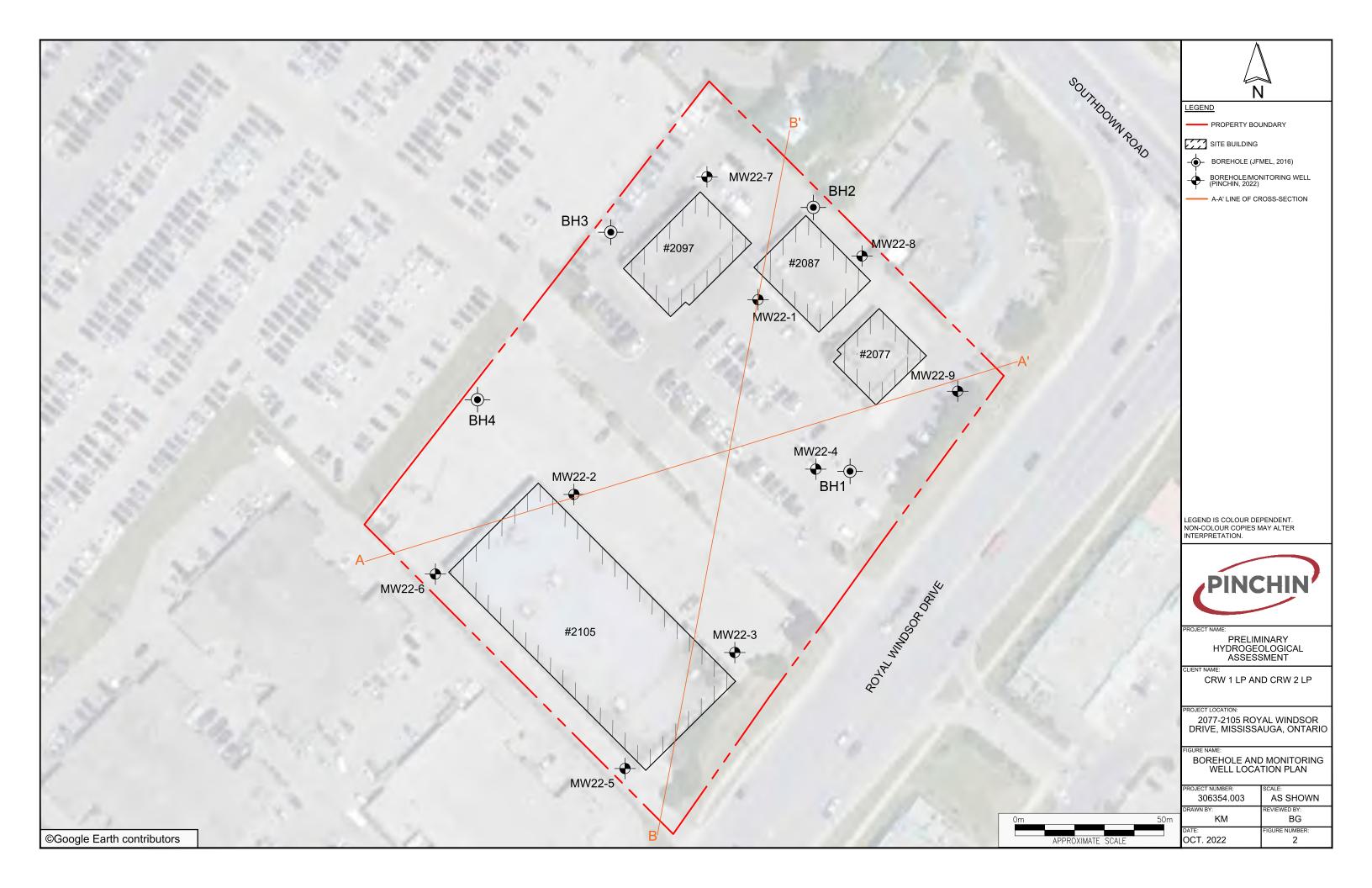


December 14, 2022

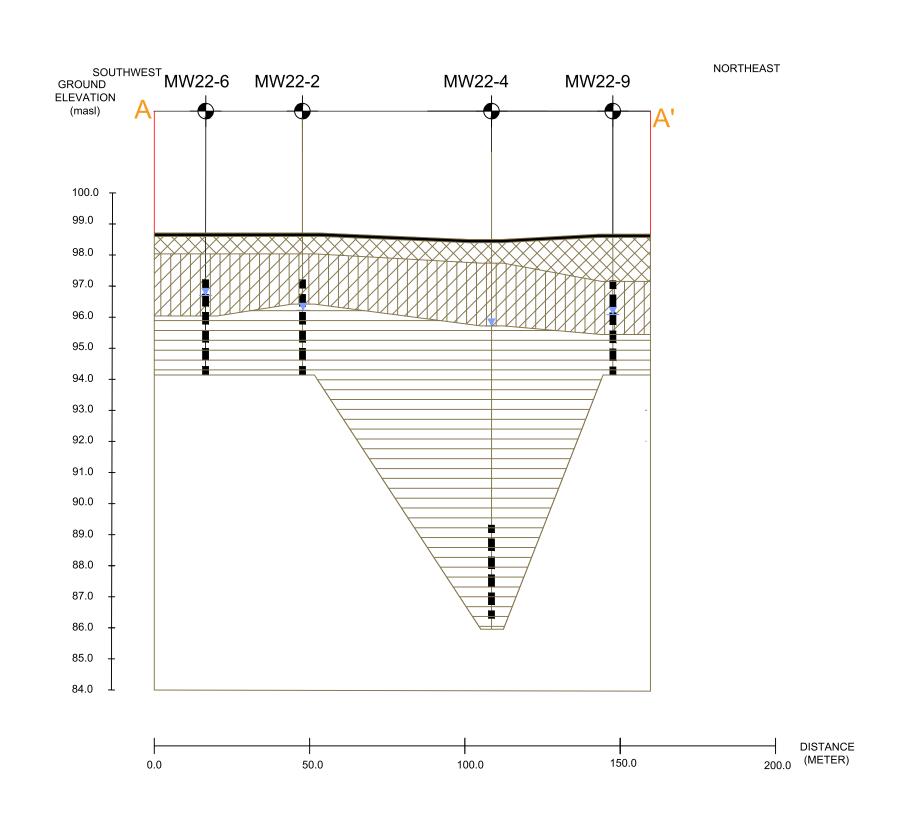
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PROJECT NAMI

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

CLIENT NAM

CRW 1 LP AND CRW 2 LP

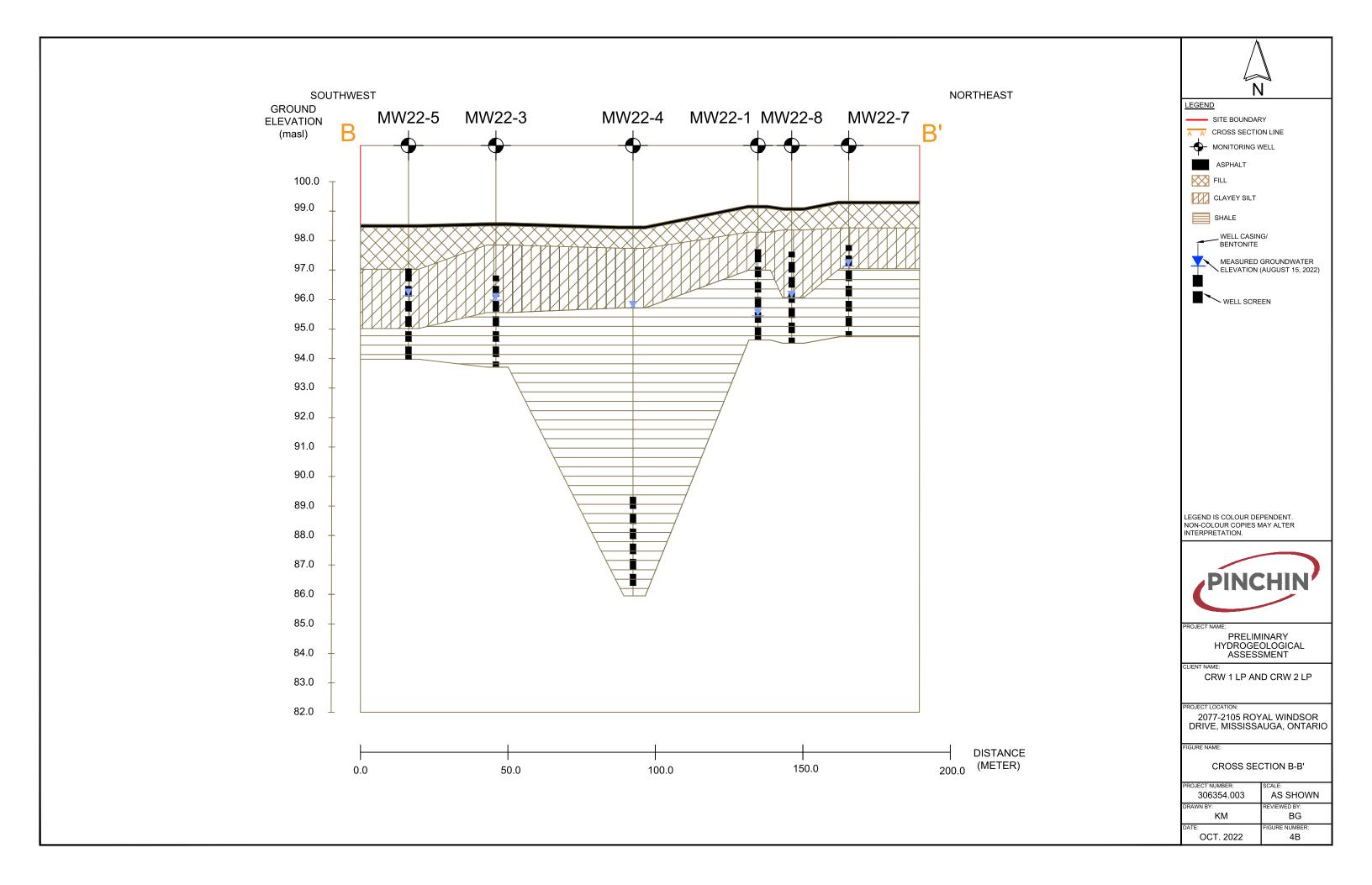
PROJECT LOCATION

2077-2105 ROYAL WINDSOR DRIVE, MISSISSAUGA, ONTARIO

FIGURE NAME:

CROSS SECTION A-A'

PROJECT NUMBER:	SCALE:
306354.003	AS SHOWN REVIEWED BY:
KM	BG
DATE:	FIGURE NUMBER:
OCT, 2022	4A



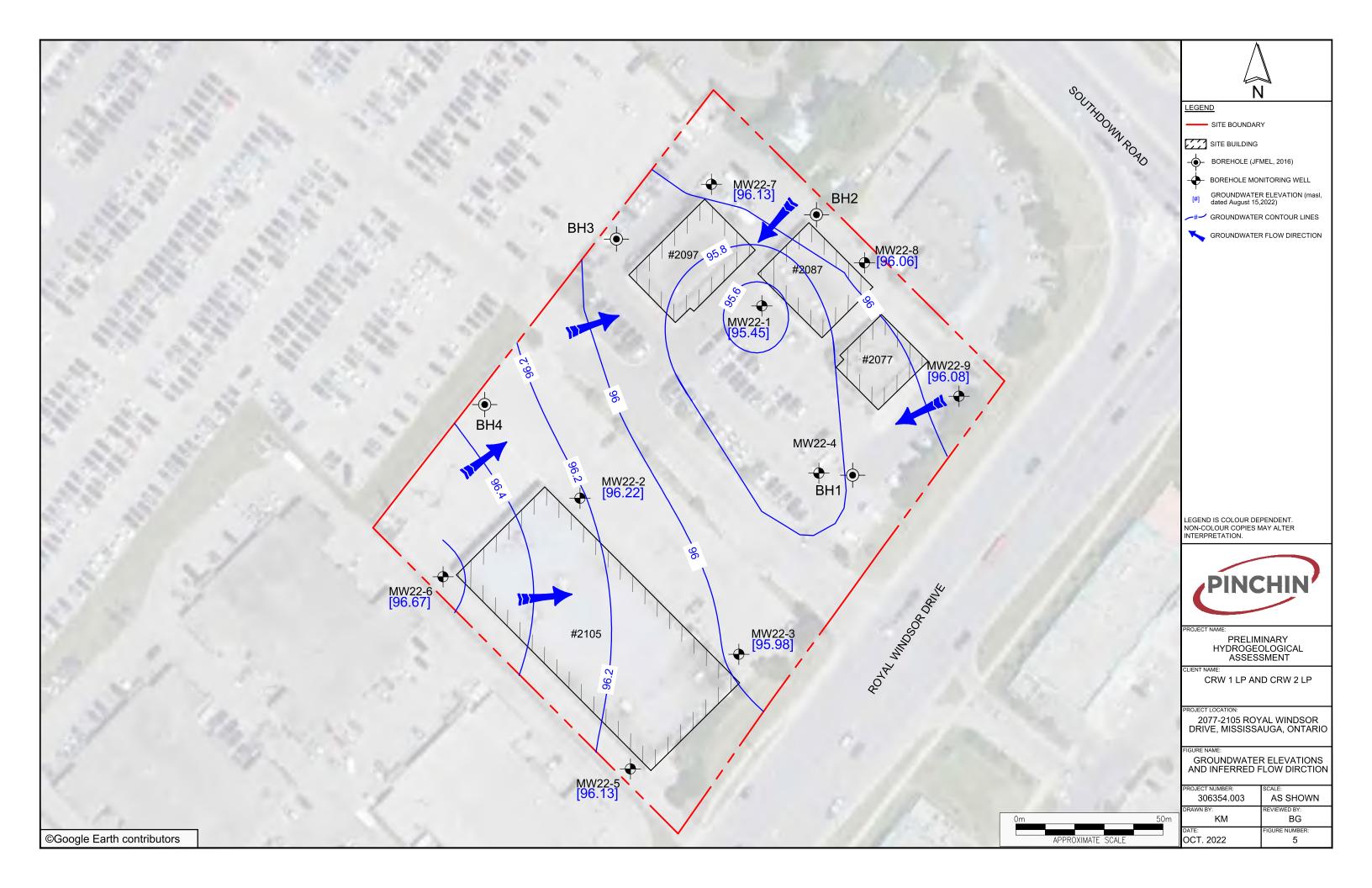


TABLE 1 MONITORING WELL CONSTRUCTION DETAILS

CRW 1 LP and CRW 2 LP

2077-2105 Royal Windsor Drive, Mississauga, Ontario

Well	Ground Elevation	TOP Elevation	Surveyed Height of	Borehole Depth	Well Size	Screen Interval	Screen	Stratigraphy in Screen
Number	(masl)	(masl)	Stickup (m)	(mbgs)	(cm)	(mbgs)	Length (m)	Interval
MW22-1	99.2	99.08	-0.12	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-2	98.71	98.56	-0.15	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-3	98.61	98.49	-0.12	5.00	5.1	1.8 ~ 4.9	3.05	Clayey Silt; weathered shale
MW22-4	98.5	98.36	-0.14	12.60	5.1	9.2 ~ 12.2	3.05	shale
MW22-5	98.55	98.46	-0.09	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-6	98.71	98.64	-0.07	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-7	98.34	98.24	-0.1	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-8	99.12	99.07	-0.05	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale
MW22-9	98.67	98.6	-0.07	4.60	5.1	1.5 ~ 4.6	3.05	Clayey Silt; weathered shale

Notes:

m - Metres

TOP - Top of Pipe

masl - Metres Above Sea Level

mbgs - Metres Below Ground Surface

TABLE 2 GROUNDWATER ELEVATION DATA

CRW 1 LP and CRW 2 LP

2077-2105 Royal Windsor Drive, Mississauga, Ontario

				3 /	F	August 5, 2022		,	August 15, 202	2	,	August 31, 2022		Se	ptember 20, 20	22
					Water	Water Level			Water Level			Water Level		Water	Water Level	
					Level from	from	Water	Water	from		Water	from	Water	Level from	from	Water
	Ground	TOP	Height of	Screen	Top of	Ground	Level	Level from	Ground	Water Level	Level from	Ground	Level	Top of	Ground	Level
Well	Elevation	Elevation	Stickup	Interval	Pipe	Surface	Elevation	Top of Pipe	Surface	Elevation	Top of Pipe	Surface	Elevation	Pipe	Surface	Elevation
Number	(masl)	(masl)	(m)	(mbgs)	(mbTOP)	(mbgs)	(masl)	(mbTOP)	(mbgs)	(masl)	(mbTOP)	(mbgs)	(masl)	(mbTOP)	(mbgs)	(masl)
MW22-1	99.20	99.08	-0.12	1.5 ~ 4.6	Dry	Dry	Dry	3.63	3.75	95.45	2.03	2.15	97.05	3.96	4.08	95.12
MW22-2	98.71	98.56	-0.15	1.5 ~ 4.6	2.43	2.58	96.13	2.34	2.49	96.22	2.37	2.52	96.19	2.41	2.56	96.15
MW22-3	98.61	98.49	-0.12	1.8 ~ 4.9	-	-	-	2.51	2.63	95.98	2.53	2.65	95.96	2.59	2.71	95.90
MW22-4	98.50	98.36	-0.14	9.2 ~ 12.2	2.38	2.52	95.98	2.65	2.79	95.71	2.55	2.69	95.81	2.59	2.73	95.77
MW22-5	98.55	98.46	-0.09	1.5 ~ 4.6	2.22	2.31	96.24	2.33	2.42	96.13	2.33	2.42	96.13	2.44	2.53	96.02
MW22-6	98.71	98.64	-0.07	1.5 ~ 4.6	1.94	2.01	96.70	1.97	2.04	96.67	1.99	2.06	96.65	2.06	2.13	96.58
MW22-7	98.34	98.24	-0.10	1.5 ~ 4.6	3.01	3.11	95.23	2.11	2.21	96.13	3.13	3.23	95.11	3.19	3.29	95.05
MW22-8	99.12	99.07	-0.05	1.5 ~ 4.6	2.98	3.03	96.09	3.01	3.06	96.06	3.02	3.07	96.05	3.13	3.18	95.94
MW22-9	98.67	98.60	-0.07	1.5 ~ 4.6	2.47	2.54	96.13	2.52	2.59	96.08	2.52	2.59	96.08	2.58	2.65	96.02

Notes:

m - Metres

TOC - Top of Casing

masl - Metres Above Sea Level

mbgs - Metres Below Ground Surface

APPENDIX I Site Plans

CLARKSON GO

SLATE ASSET MANAGEMENT

121 King St W
Unit 200
Toronto ON M5H 3T9

REZONING SUBMISSION DECEMBER 2022

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Oakville ON L6K 0B3
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Planning Legal
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#3400
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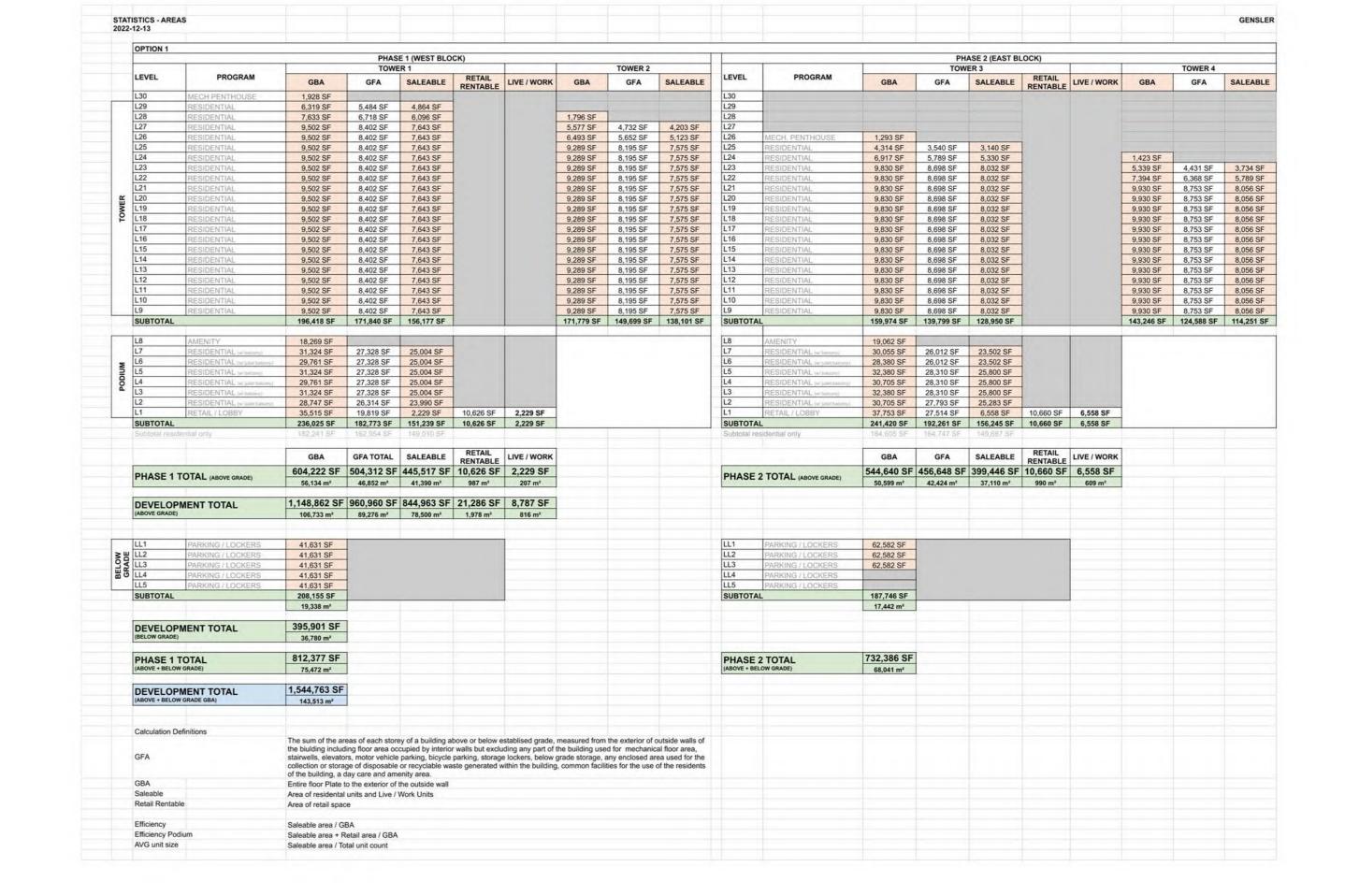
Theakston
Wind Consultant
Glengarry Crescent
Fergus ON N1M 3E2
Canada
Tel. 519-787-2910

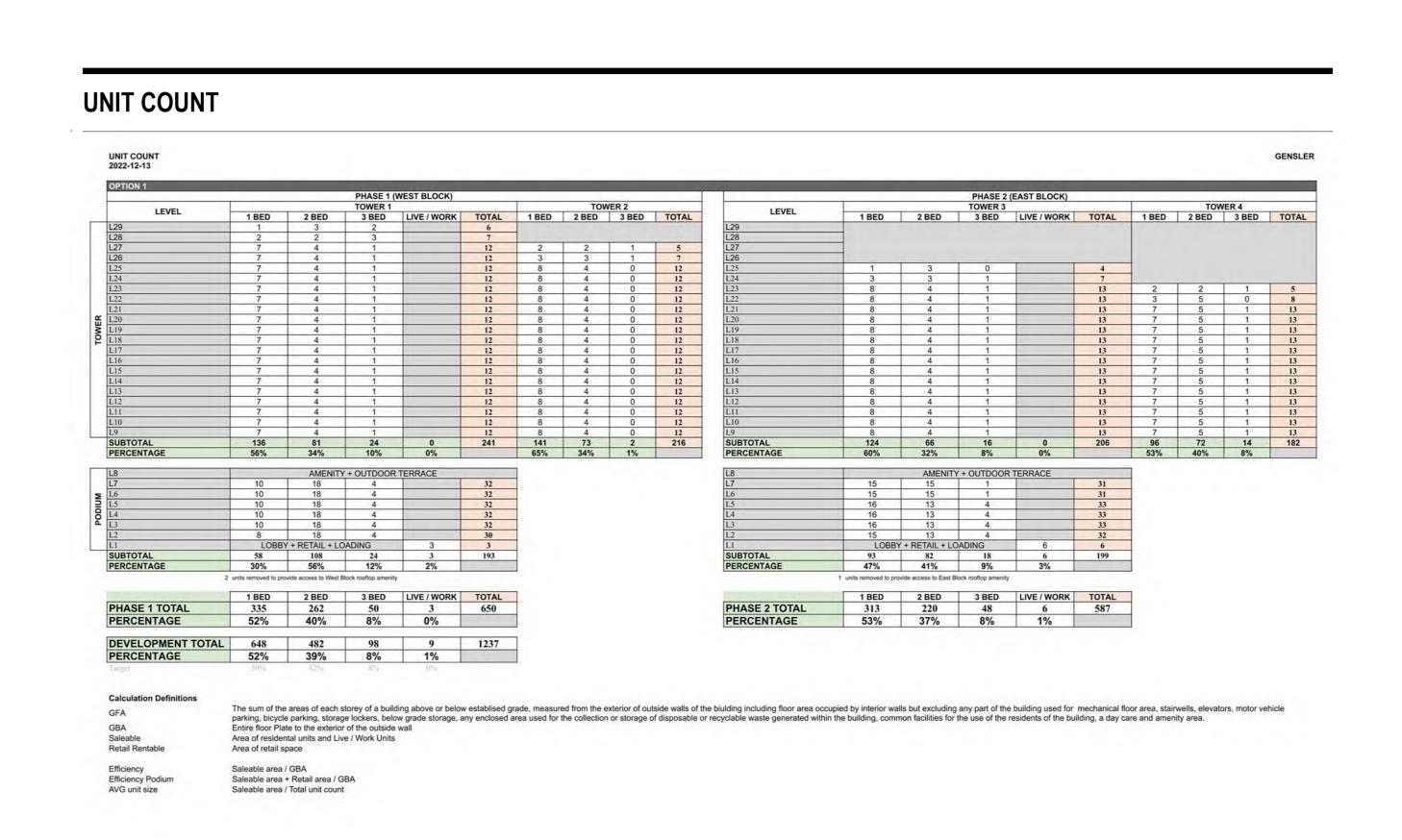
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Geotechnical Consultant
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Mississauga ON L5N 6S2
Canada
Tel. 905-363-0678

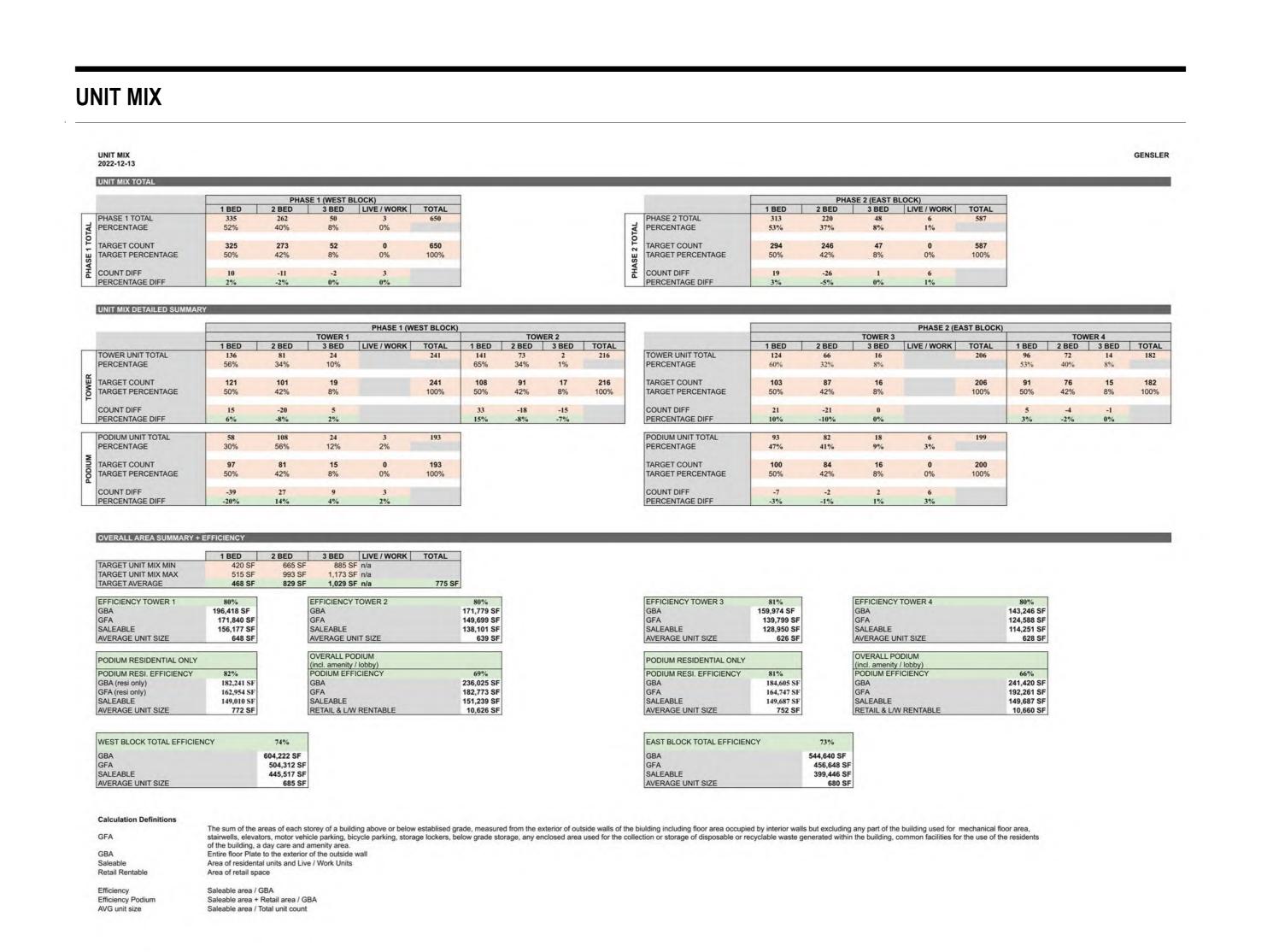
WSP
Air Consultant
2300 Yonge St
Toronto ON M4P 1E4
Canada
Tel. 416-487-5256

	STATISTICS - SUMMARY 2022-12-13									GENSLER		
						- 1-1				ì		
				West Block		East Block	44.4.2	1	otal			
					Notes		Notes			Notes related to area number 1 as		
	Site Area							15,146 m²	163,025 SF	indicated on diagram below		
	New Private Road			2,346 m²		3,467 m ²		5,813 m²	62,571 SF			
	Proposed development area			4,245 m²	related to area number 3 as indicated on diagram below	6,412 m²	related to area number das indicated on diagram below	10,657 m²	114,712 SF	related to area number 2 as indicated on diagram below		
	Parkland			255 m²		315 m²		570 m²	6,135 SF			
	Landscape Open space			1,876 m²		1,704 m²	Sidewalks and paving surfaces	3,580 m²	38,537 SF			
	Gross Building Area (Above ground)			56,134 m²		50,599 m ²			1,148,871 SF			
	Gross Building Area (Underground)			19,338 m²		17,442 m²		36,780 m ²	395,904 SF			
	Total GBA			75,472 m ²		68,041 m ²		143,513 m ²	1,544,775 SF			
	GFA Total			46,852 m²		42,424 m ²		89,276 m ²	960,968 SF			
	GFA Residential			45,011 m ²		39,868 m ²		84,879 m ²	913,634 SF			
	Residential Saleable			41,183 m ²		36,500 m ²		77,683 m ²	836,183 SF			
	GFA Non-Residential			1,841 m ²		1,600 m ²		3,441 m²	37,037 SF			
	Retail Saleable			987 m²		990 m²		1,978 m ²	21,286 SF			
	GFA Live / Work Saleable			207 m²		609 m²		816 m²	8,787 SF			
	STATE TO THE TOTAL SALES			207 111		000 111		0.0	0,101 01			
	Efficiency (Resi Saleable/GBA)			73.4%		72.1%		70	9.5%			
	Efficiency ((Resi Saleable+Live Work)/GBA)			73.7%		73.3%			0.3%			
	Efficiency ((Resi Saleable+Live Work)/(GBA-Retail))			75.1%		74.8%			1.8%			
				83.5%		83.8%			3.6%			
	Efficiency (GFA/GBA)		-	03.376	+	03.076		0.	3.0 /6			
	Gross FSI (GFA / Site Area)							5.89				related to area number 1 as indicated on diagram below
	Net FSI (GFA / Proposed dev. area)			11.04	related to area number 3 as indicated on diagram below	6.62	related to area number 4 as indicated on diagram below	8.38		related to area number 2 as indicated on diagram below		
	D -: 4 8-111-7-			047111170		FOA LINUTO		4 000	LINUTO			
	Residential Units			647 UNITS		581 UNITS		10000	UNITS			
	Live / Work Units			3 UNITS		6 UNITS			JNITS			
	Average unit size			685 SF		680 SF		68	3 SF			
	TOTAL Required Amenity			3,640 m ²		3,287 m ²		6,927 m ²	74,564 SF			
	TOTAL Proposed Amenity			3,160 m ²		3,540 m ²		6,700 m ²	72,121 SF			
	Indoor Amenity			1,697 m²		1,771 m²		3,468 m²	37,331 SF			
	Outdoor Amenity			1,463 m²		1,769 m²		3,232 m²	34,789 SF			
	Net Retail Area			987 m²		990 m²		1,978 m²	21,286 SF			
	Below Ground Parking Breakdown											
	Residential	0.6		388	approx. 4 1/4 levels UG	349	approx. 2 1/4 levels UG		737			
	Visitor/Retail Shared	0.1		65	Located on P1	58	Located on P1		123			
	TOTAL Proposed Parking			453		407			860			
	Bike Parking											
	Residential Bikes											
	Residential	Long Term Short Term	0.6 0.05	388 32		349 29			737 61			
	1200	Long Term	0.1 per 100 sm	1		1			2			
	Retail	Short Term	0.2 per 100 sm	3		4			7			
	TOTAL Required Bike Parking			425		383			807			
	Required Bike Parking (underground)			389		350			739			
	Required Bike Parking (anderground)			35		33			68			
	TOTAL Proposed Bike Parking			450		332			782			
	Proposed Bike Parking (underground)			416		288			704			
	Proposed Bike Parking (at grade)			34		44			78			
ntes.	GBA includes all above grade construction											
	Interior Amenity is provided on 2nd floor and podium	roof										
	Exterior amenity is provided on 2nd floor and podium											
	20% parking required to be EV	.,			+		+		1			
	25.5 paining required to be £4											









SLATE ASSET MANAGEMENT 121 King St W Unit 200

Gensler

Tel 416.601.3890

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150 King Street West Suite 1400 Toronto, Ontario M5H 1J9]

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Project Name

CLARKSON GO Project Number

067.1245.000 Description STATISTICS

Scale







BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS BUILDING SECTIONS

STATISTICS
ARCHITECTURAL SITE PLAN
PHASING PLAN

LOWER LEVEL 05 PLAN (WEST)

LOWER LEVEL - TYPICAL PLAN

SUBDIVISION PLAN

LEVEL 01 PLAN

LEVEL 03-05 PLAN LEVEL 06 PLAN LEVEL 07 PLAN

LEVEL 08 PLAN - AMENITY

CONTEXT PLAN (SCALE: NTS)

DRAWING INDEX



01 SITE PLAN
SCALE: 1:300

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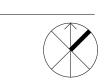
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ARCHITECTURAL SITE PLAN

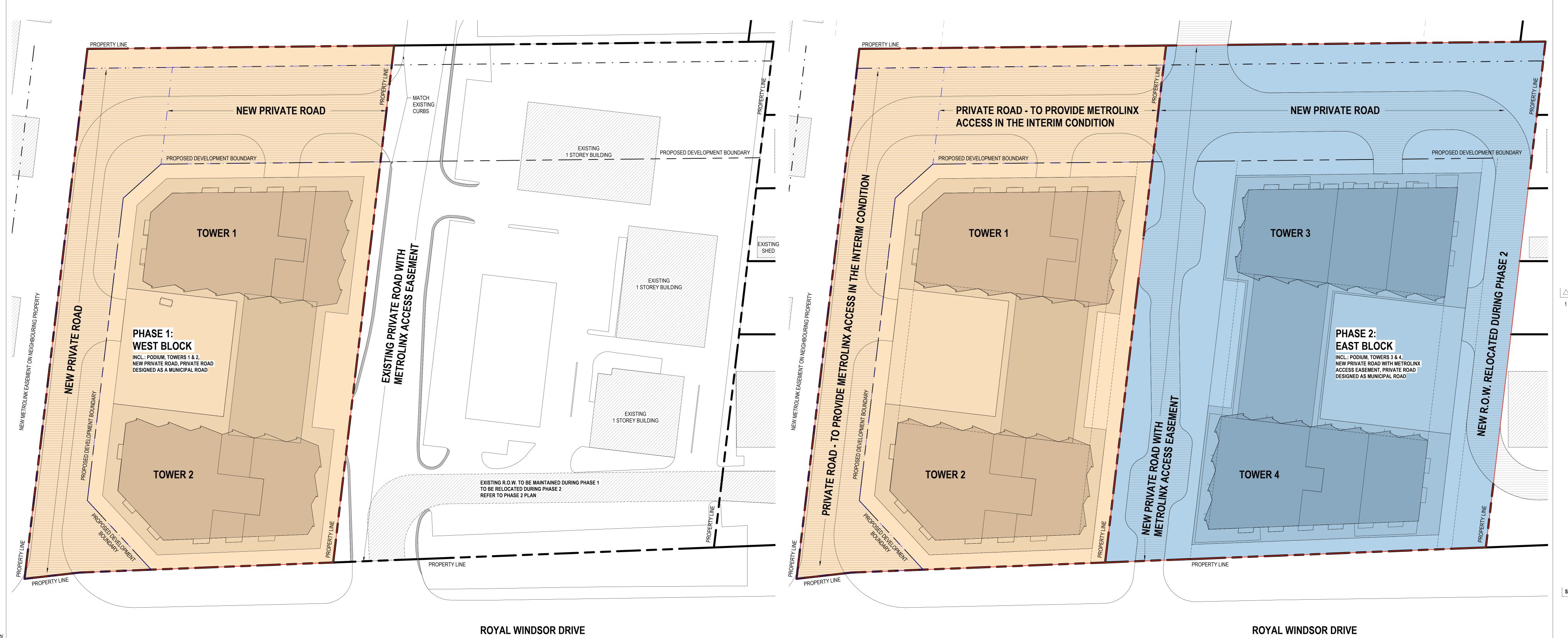
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PHASE 2 PLAN - EAST BLOCK SCALE: 1:300

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Project Number 067.1245.000

PHASING PLAN

As indicated

LEGEND

PHASE 1 - WEST BLOCK

PHASE 2 - EAST BLOCK

PHASE 1 PLAN - WEST BLOCK SCALE: 1:300



SLATE ASSET MANAGEMENT

121 King St W Unit 200 Toronto ON M5H 3T9

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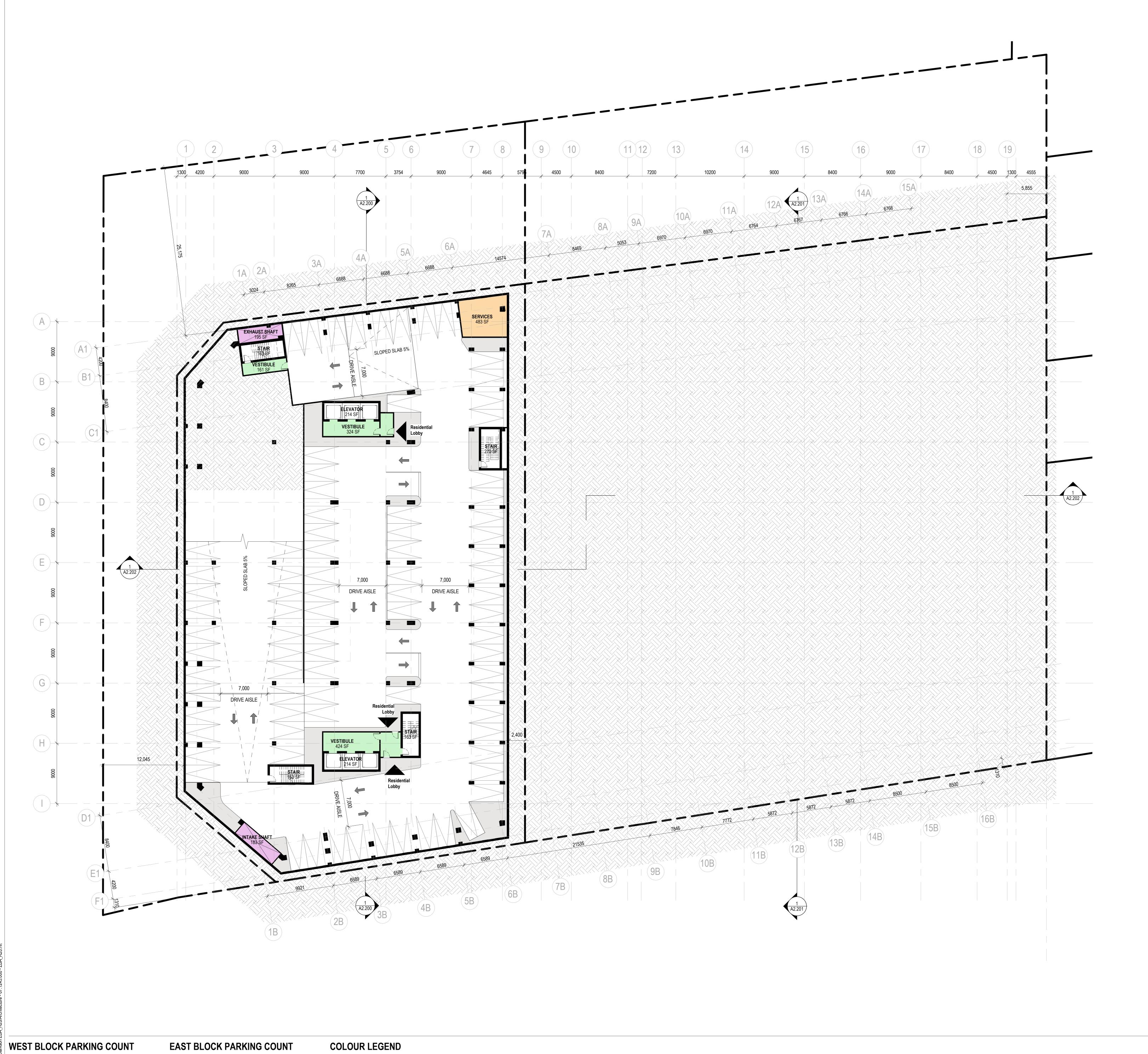
Project Number

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Description

SITE SURVEY

Scale



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MANAGEMENT

121 King St W Unit 200 Toronto ON M5H 3T9

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150 King Street West Tel 416.60 Suite 1400 Toronto, Ontario M5H 1J9] Canada

Description
Description
Description
Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

LOWER LEVEL 05 PLAN (WEST)

1:200

LEVEL P5

Standard - 2600 x 5200 Mississauga 67

LEVEL P4

Standard - 2600 x 5200 Mississauga 97

LEVEL P3

Standard - 2600 x 5200 Mississauga 97

LEVEL P2

Standard - 2600 x 5200 Mississauga 99

LEVEL P1

LEVEL P3
Standard - 2600 x 5200 Mississauga 127
LEVEL P2
Standard - 2600 x 5200 Mississauga 159
LEVEL P1
Standard - 2600 x 5200 Mississauga 112
Type A - 4900 x 5200 Barrier Free 6

Type B - 3900 x 5200 Barrier Free 10

ELEVATOR
EXHAUST
SHAFT
INTAKE SHAFT
SERVICES
STAIR
VESTIBULE



SLATE ASSET MANAGEMENT

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Project Number 067.1245.000

LOWER LEVELS 03 PLAN (EAST)

1:200

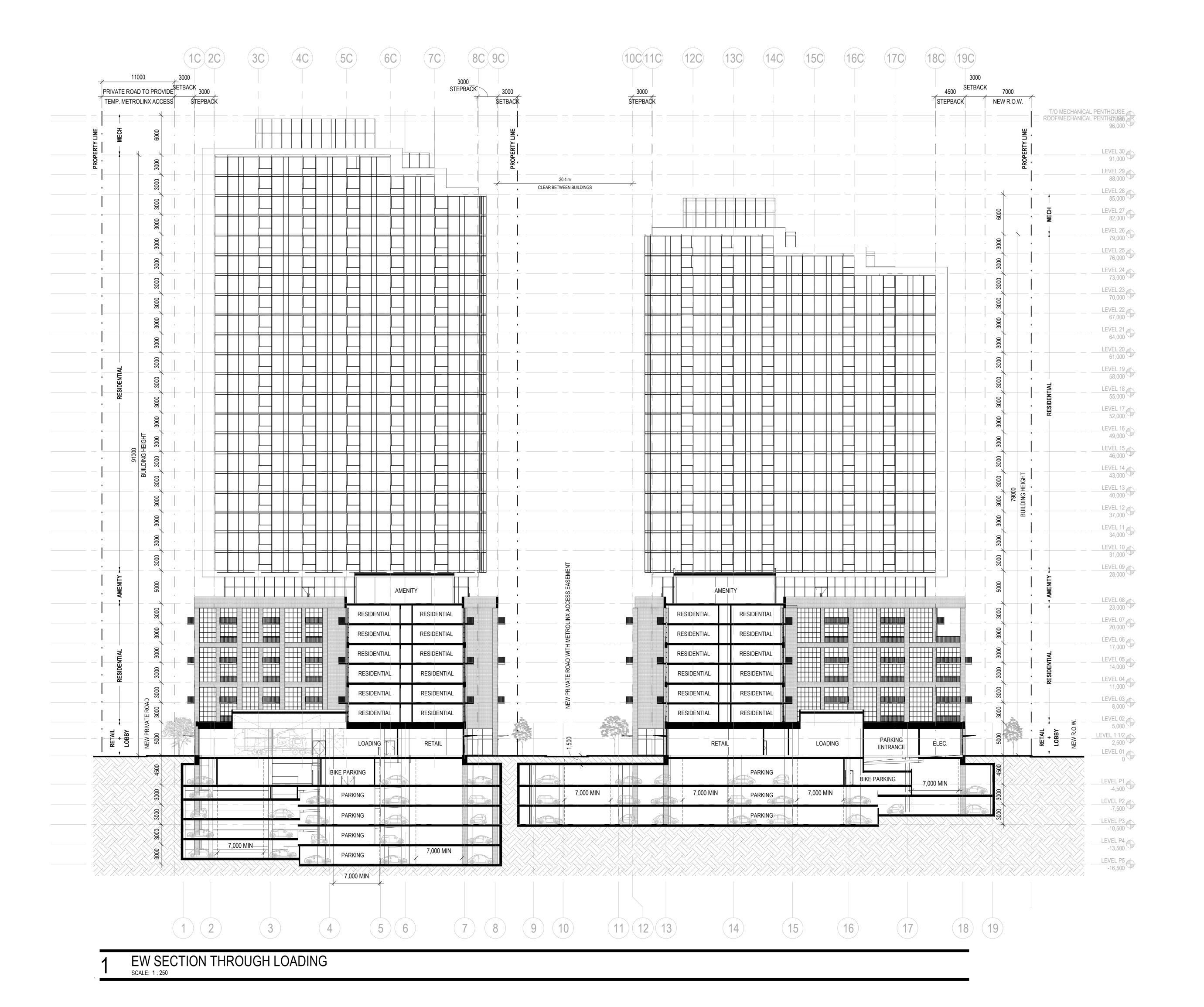
Standard - 2600 x 5200 Mississauga 67 LEVEL P4 Standard - 2600 x 5200 Mississauga 97 Standard - 2600 x 5200 Mississauga 97 LEVEL P2 Standard - 2600 x 5200 Mississauga 99 LEVEL P1

WEST BLOCK PARKING COUNT **EAST BLOCK PARKING COUNT** Standard - 2600 x 5200 Mississauga 127

Standard - 2600 x 5200 Mississauga 159 Standard - 2600 x 5200 Mississauga 112 Type A - 4900 x 5200 Barrier Free

Type B - 3900 x 5200 Barrier Free 10

ELEVATOR EXHAUST SHAFT INTAKE SHAFT SERVICES STAIR VESTIBULE



SLATE ASSET
MANAGEMENT

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Unit 200
Toronto ON M5H 3T9

TOTONIO ON MOH 3

Gensler

150 King Street West Tel 41 Suite 1400 Toronto, Ontario M5H 1J9] Canada

Date Description

1 2022-12-13 ISSUED FOR REZONING

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

BUILDING SECTIONS

Scale 1: 250

APPENDIX II
Water Well Records

MECP Water Well Records

Well ID: 7194810

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	SILT	LOAM	0 ft	1 ft
BRWN	SAND	SILT		1 ft	7 ft
GREY	<mark>SHLE</mark>			<mark>7 ft</mark>	18.5 ft

Monitoring/observation well, 2" plastic screen 8.5-18.5'

Well ID: 7202215, no details

Well ID: 4902276

General Colour	Most Common Material	Other Materials	General Description	Depth From	
	LOAM			0 ft	1 ft
	MSND			1 ft	4 ft
	GRVL	CLAY	MSND	4 ft	7 ft
	CLAY			7 ft	8 ft
	<mark>SHLE</mark>	<mark>CLAY</mark>		<mark>8 ft</mark>	11 ft
	GRNT			11 ft	12 ft
	<mark>LMSN</mark>			12 ft	<mark>26 ft</mark>

Domestic water supply, 5" open hole 8'-26', fresh water found at 26', water level at 7', recommended pump at 24' with pump rate at 5 GPM.

Well ID: 7355168

Monitoring/observation well, 2.75" plastic 8-18', untested water found at 12'

Well ID: 4902280

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	LOAM	MSND		0 ft	5 ft
	SHLE SHLE			<mark>5 ft</mark>	<mark>76 ft</mark>

Domestic water supply, 4" open hole 10'-76', fresh water found at 27', water level at 12'

Well ID: 7125275, abandoned well

Well ID: 7355157

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
				0	
	SILT				
	CLAY				
	SAND				15 ft

Monitoring/observation well, 2.375" plastic 5-15'

Well ID: 7120158

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	HARD	0 m	3 m
GREY	<mark>SHLE</mark>			<mark>3 m</mark>	<mark>6 m</mark>

Monitoring/observation well, 6.4 cm plastic 3-6 m

Well ID: 4909936

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK				0 m	.15 m
RED	SILT	GRVL		.15 m	.6 m
BRWN	SILT	SAND		.6 m	3.3 m
GREY	<mark>SHLE</mark>	<mark>LMSN</mark>	CLAY	3.3 m	<mark>8.35 m</mark>

Observation well, 2.7 cm plastic 4.8-8.35 m

Well ID: 4902279

General Colour	Canaval Calaur	Mast Common Material	Other Meterials	Concret Description	Depth	Depth
	iviost Common iviateriai	Other Waterials	deneral Description	From	То	
BRWN	FSND			0 ft	10 ft	
GREY	<mark>SHLE</mark>			10 ft	<mark>51 ft</mark>	

Domestic water supply, 12" open hole 13'-51', fresh water found at 25', water level at 8', recommended pump at 51' with pump rate at 2 GPM.

Well ID: 7312445

General Colour	Most Common Material	Other Materials	General Description	Depth	Depth
			•	From	To
BRWN	SAND	GRVL		0 ft	7 ft
	<mark>SHLE</mark>			<mark>7 ft</mark>	<mark>8 ft</mark>
	<mark>ROCK</mark>			<mark>8 ft</mark>	50.5 ft

Monitoring/observation well, 2" plastic 9-19', untested water found at 15'

Well ID: 7355169

Monitoring/observation well, 2.375" plastic 6-16', untested water found at 10'

Well ID: 4910293

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	FILL			0 m	4.2 m
GREY	SHLE			<mark>4.2 m</mark>	<mark>6 m</mark>

Observation well, 6.4 cm plastic 4.5-6 m, water found at 4.8 m

Well ID: 4909713

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND			0 m	1.1 m
BRWN	SILT	STNS		1.1 m	3 m
BRWN	<mark>LMSN</mark>			<mark>3 m</mark>	4.5 m
GREY	<u>LMSN</u>			<mark>4.5 m</mark>	<mark>5.1 m</mark>

Observation well, 6.4 cm plastic 1.7-5.1 m

Well ID: 7106569; abandoned well

Well ID: 7046409

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	LOAM		0 m	.3 m
BRWN	CLAY	SILT	SAND	.3 m	2.7 m
GREY	SHLE	WTHD		<mark>2.7 m</mark>	<mark>7.2 m</mark>
GREY	SHLE SHLE	FCRD		7.2 m	14.8 m

Observation well, 4.2 cm plastic 13.3-14.8 m, fresh water found at 5.8 m

Well ID: 7106564; abandoned well

Well ID: 4902293

General Colour	Most Common Material	Other Materials	General Description	Depth	Depth
				From	То
	PRDG			0 ft	18 ft
GREY	<mark>SHLE</mark>			<mark>18 ft</mark>	<mark>28 ft</mark>

Commercial water supply, 6" open hole 18-28', fresh water found at 28', water level at 13'

Well ID: 7049659; abandoned well

Well ID: 7253416

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY				0 ft	6 ft
BRWN	SILT	CLAY	HARD	6 ft	9 ft
GREY	SHLE SHLE		<mark>WTHD</mark>	<mark>9 ft</mark>	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253417

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY				0 ft	6 ft
BRWN	SILT	CLAY	HARD	6 ft	9 ft
GREY	SHLE SHLE		<mark>WTHD</mark>	<mark>9 ft</mark>	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253418

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	GRVL			0 ft	5 ft
BRWN	SILT	CLAY	HARD	5 ft	9 ft
GREY	SHLE SHLE		<mark>WTHD</mark>	<mark>9 ft</mark>	15 ft

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7253419

General Colour	Most Common Material	Other Materials	General Description	Depth	Depth	
				From	То	
BRWN	SILT	CLAY		0 ft	8 ft	
GREY	SHLE SHLE		<mark>WTHD</mark>	<mark>8 ft</mark>	15 ft	

Monitoring/observation well, 1.75" plastic 5-15'

Well ID: 7043665

Conoral Colour	Most Common Material	Other Materials			Depth
General Colour				From	То
BRWN	LOAM			0 m	.3 m
BRWN	CLAY	DRY		.3 m	1.5 m
BRWN	CLAY	TILL	DRY	1.5 m	3.3 m
GREY	ROCK	SHLE .		<mark>3.3 m</mark>	8.1 m

Monitoring/observation well, 6.4 cm plastic 3.6 – 8.1 m

Well ID: 4902294

General Colour	Most Common Material	al Other Materials General Descrip	General Description	Depth From	Depth To
YLLW	CLAY			0 ft	15 ft
BLUE	<mark>SHLE</mark>			15 ft	90 ft

Commercial water supply, 6" open hole 15-90', fresh water found at 75', water level at 15'

Well ID: 4910038

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	GRVL	FILL	0 m	.8 m
BRWN	SILT	SAND	GRVL	.8 m	1.8 m
GREY	<mark>SHLE</mark>	<mark>WTHD</mark>		1.8 m	<mark>4.1 m</mark>

Monitoring/observation well, 6.4 cm plastic 1.1 – 4.1 m

Well ID: 4910066; abandoned well

Well ID: 7267442

General Colour	Most Common Material	Other Materials	General Description	Depth	Depth
				From	То
BLCK				0 ft	3 ft
BRWN	SAND	GRVL		3 ft	3 ft
BRWN	CLAY			3 ft	11 ft
GREY	SHLE SHLE		<mark>WTHD</mark>	11 ft	13 ft

Monitoring/observation well, 2.25" plastic 3 – 13'

Well ID: 7337084, no details

APPENDIX III
Borehole Logs



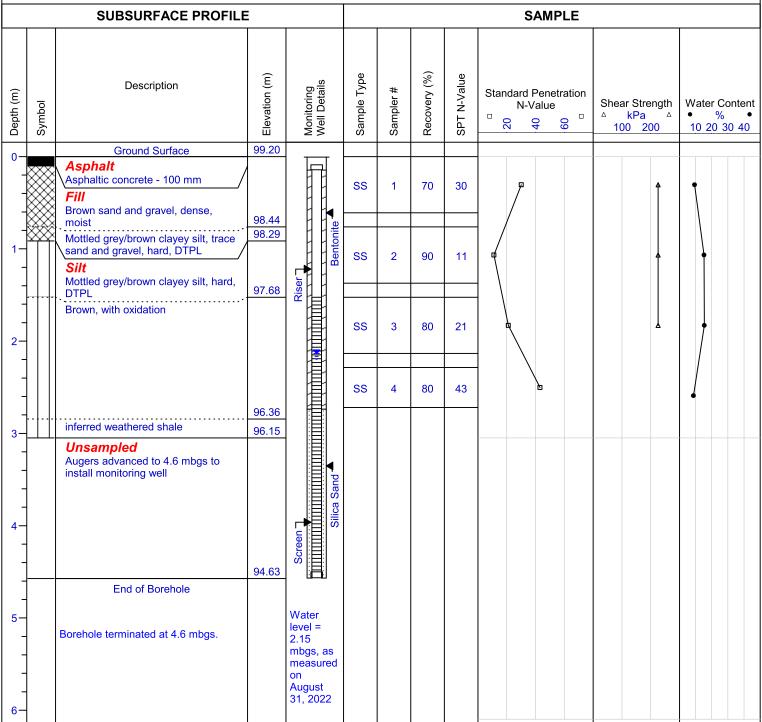
Log of Borehole: BH22-1 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 99.20 masl

Top of Casing Elevation: 99.08 masl



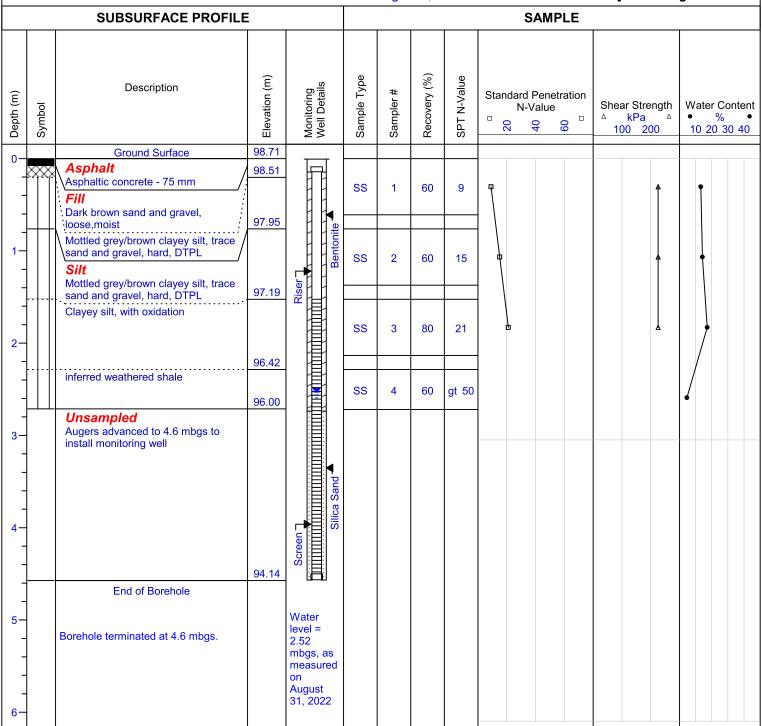
Log of Borehole: BH22-2 (MW)

Project #: 306354.002 Logged By: KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 98.71 masl

Top of Casing Elevation: 98.56 masl



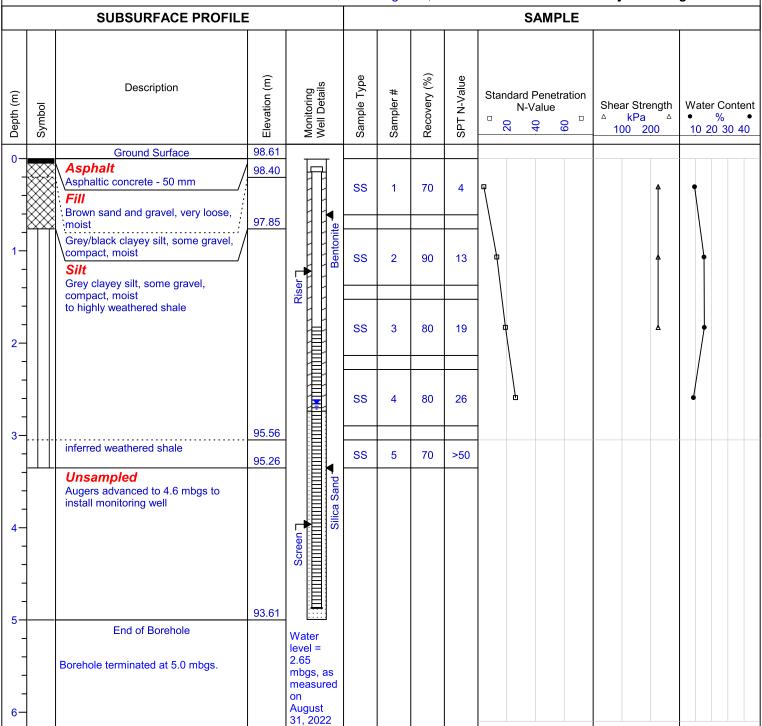
Log of Borehole: BH22-3 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 5, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 98.61 masl

Top of Casing Elevation: 98.49 masl



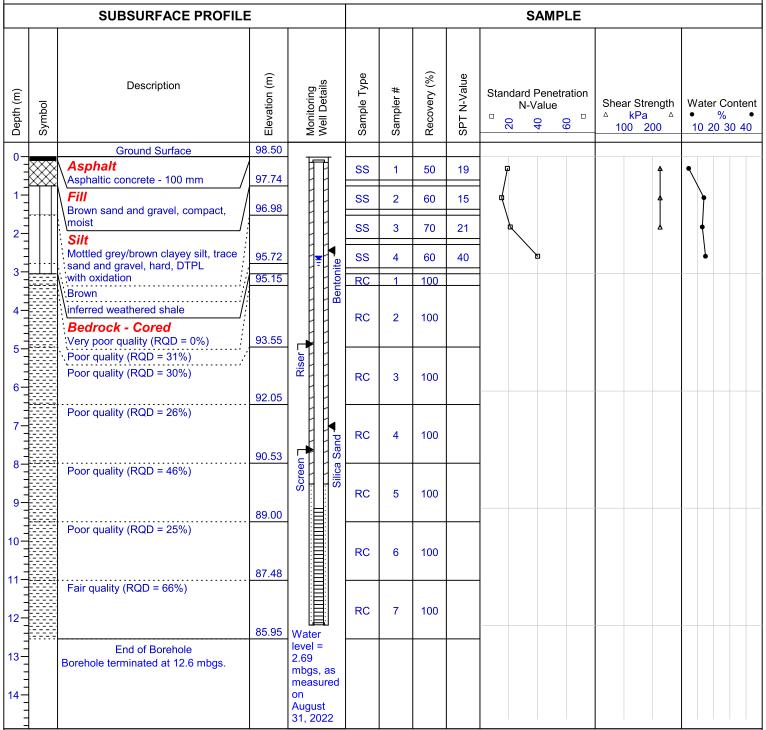
Log of Borehole: BH22-4 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 4, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 98.50 masl

Top of Casing Elevation: 98.36 masl



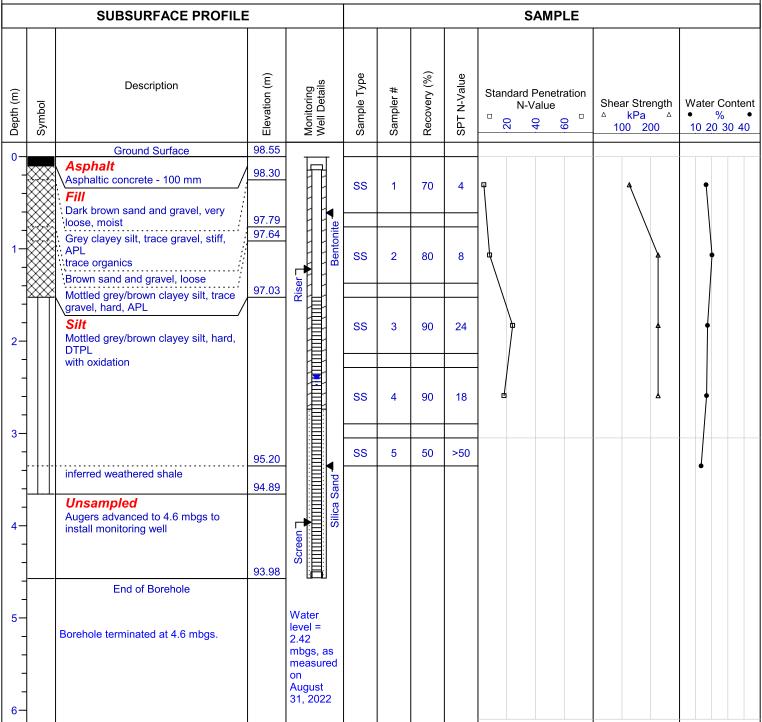
Log of Borehole: BH22-5 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 98.55 masl

Top of Casing Elevation: 98.46 masl



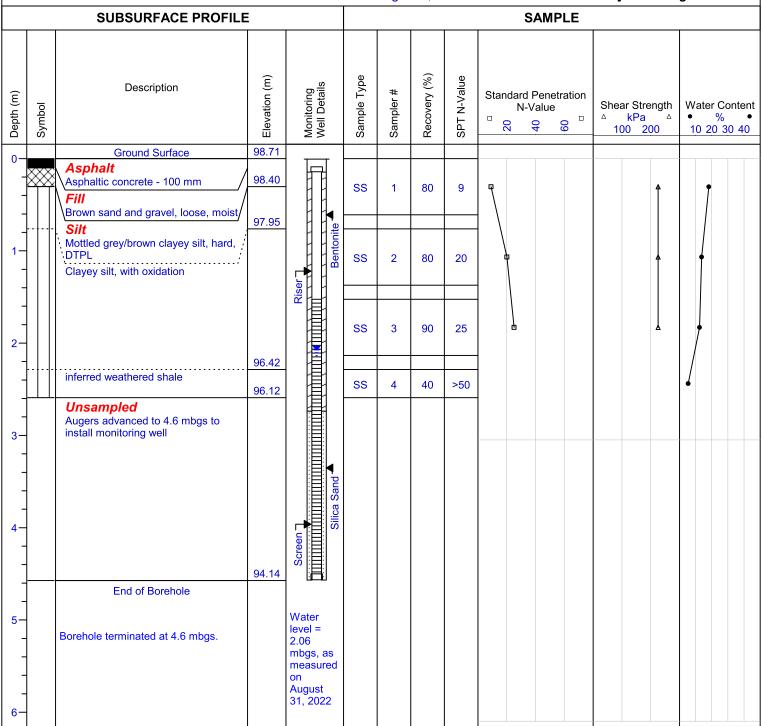
Log of Borehole: BH22-6 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 3, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 98.71 masl

Top of Casing Elevation: 98.64 masl



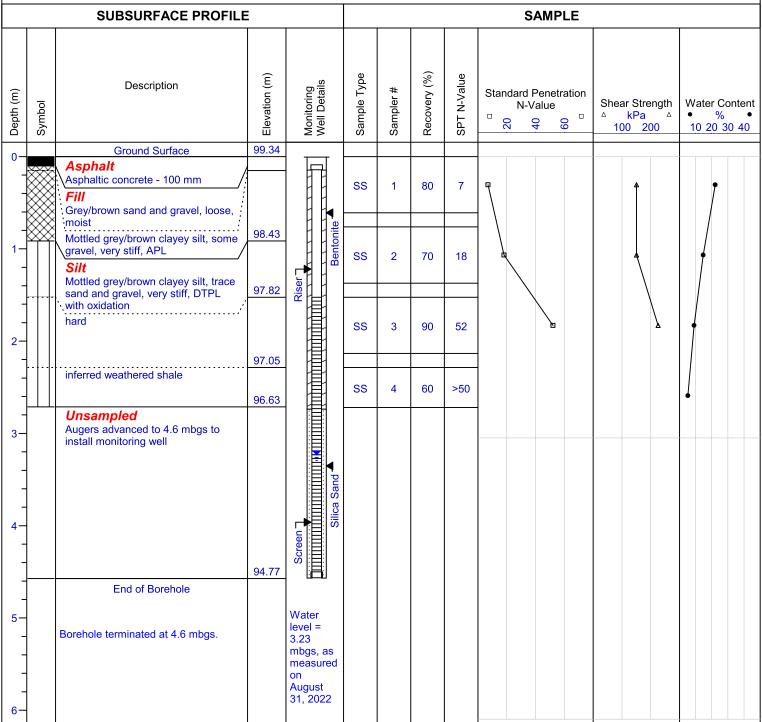
Log of Borehole: BH22-7 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 2, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 99.34 masl

Top of Casing Elevation: 99.24 masl



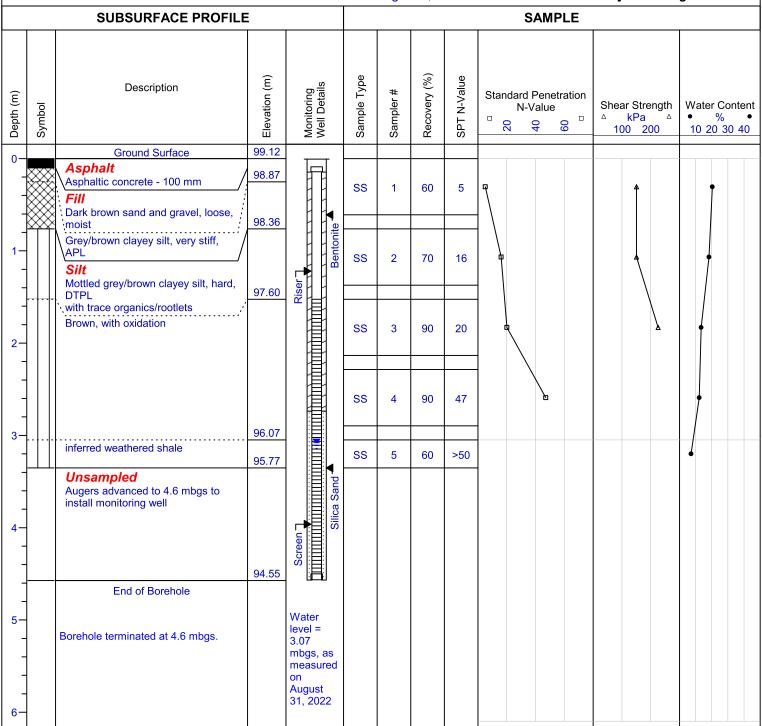
Log of Borehole: BH22-8 (MW)

Project #: 306354.002 Logged By: KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 2, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

Well Casing Size: 51 mm

Grade Elevation: 99.12 masl

Top of Casing Elevation: 99.07 masl



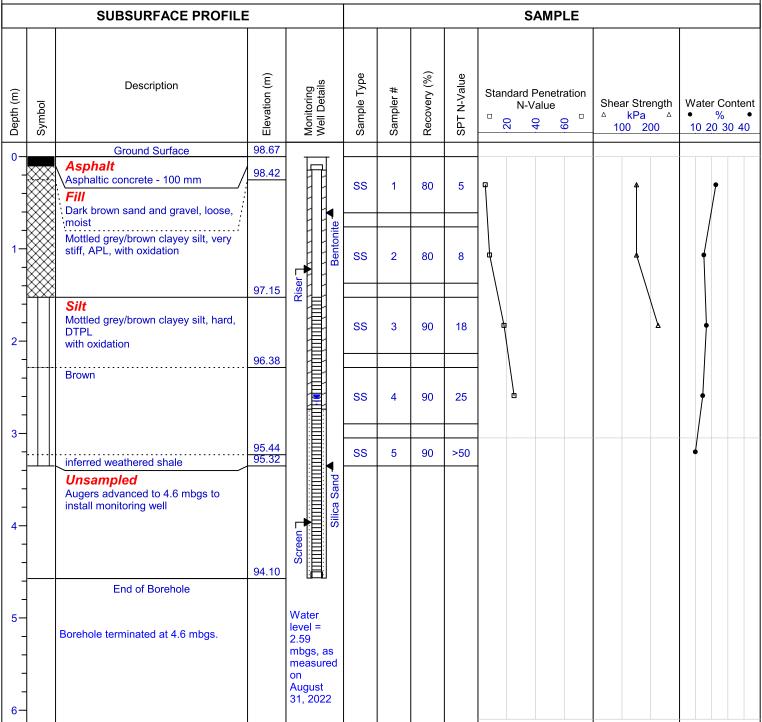
Log of Borehole: BH22-9 (MW)

Project #: 306354.002 **Logged By:** KS

Project: Geotechnical Investigation **Client:** Slate Asset Managementt LP

Location: 2077-2105 Royal Windsor Drive, Mississauga, ON

Drill Date: August 2, 2022 Project Manager: RM



Contractor: Strata Drilling Inc.

Drilling Method: Hollow Stem Augers

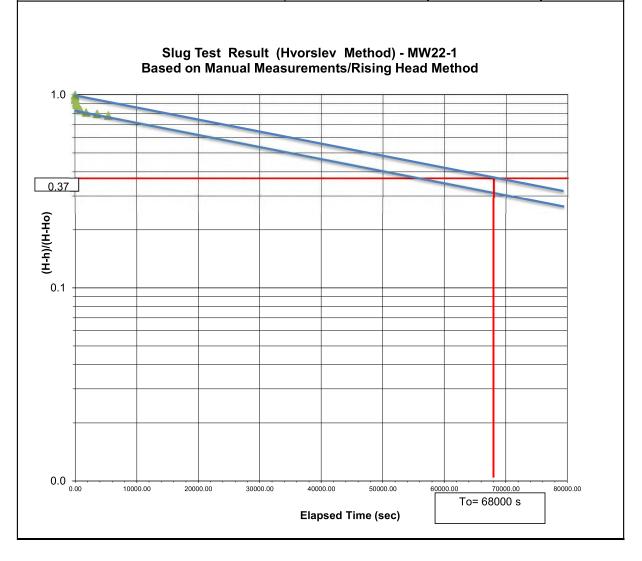
Well Casing Size: 51 mm

Grade Elevation: 98.67 masl

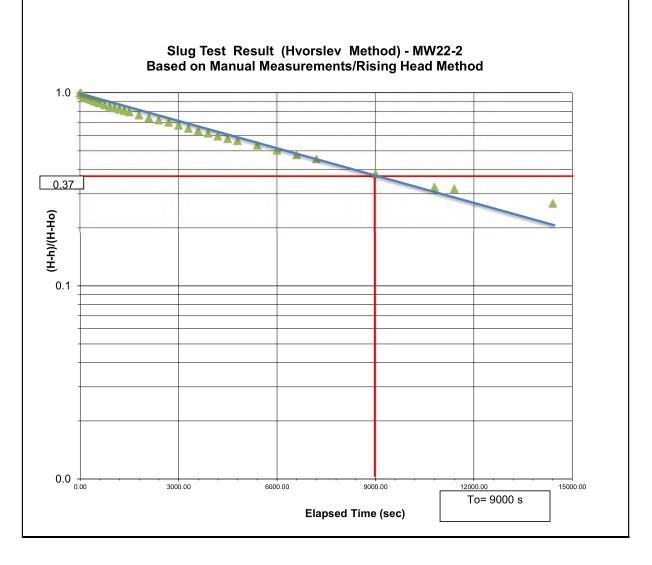
Top of Casing Elevation: 98.60 masl

APPENDIX IV
Rising Head Hydraulic Conductivity Test Curves

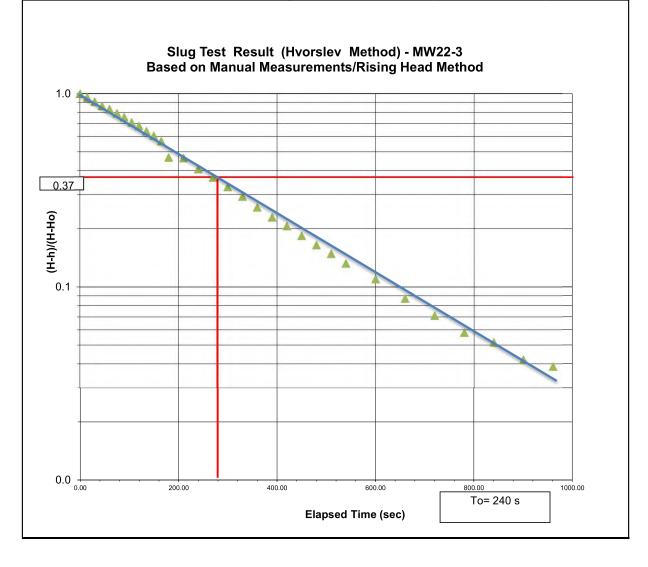
Slug Test: MW22-1		Project No.:	306354.003			
Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario						
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022 Conducted by: Rishi M.						
Interpreted by:	Bujing Guan	H =	Initial Water Head prio	r to test		
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time =	0		
Screen Depth (mbgs):	1.5 ~ 4.6	h =	Water Head/Level at ti	me t		
Screened Soil:	Clayey Silt; weather	ed shale				
Well Diameter:	2"	L =	87	cm		
Static Water Level (mbgs):	3.73	R =	10.2	cm		
Initial Reading (mTOP)	3.63	r =	2.54	cm		
Test Start Reading (H0) (mTOP)	4.06	To=	68000	sec		
Test End Reading (mTOP)	3.966	$K = r^2 \ln(L/R)/(2LTo) =$	1.2E-06	cm/s		



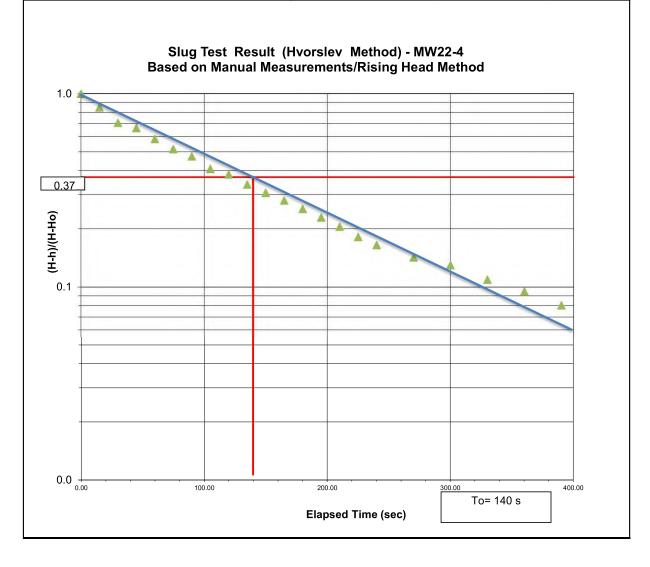
Slug Test: MW22-2		Project No.:	Project No.: 306354.003			
Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario						
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022 Conducted by: Rishi M.						
Interpreted by:	Bujing Guan	H =	Initial Water Head pric	or to test		
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time =	0		
Screen Depth (mbgs):	1.5 ~ 4.6	h =	Water Head/Level at t	ime t		
Screened Soil:	Clayey Silt; weather	ed shale				
Well Diameter:	2"	L =	216	cm		
Static Water Level (mbgs):	2.44	R =	10.2	cm		
Initial Reading (mTOP)	2.34	r =	2.54	cm		
Test Start Reading (H0) (mTOP)	4.07	To=	9000	sec		
Test End Reading (mTOP)	2.803	$K = r^2 ln(L/R)/(2LTo) =$	5.1E-06	cm/s		



Slug Test: MW22-3		Project No.:	306354.003			
Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario						
Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022 Conducted by: Rishi M.						
Interpreted by:	Bujing Guan	H =	Initial Water Head prio	r to test		
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time =	0		
Screen Depth (mbgs):	1.8 ~ 4.9	h =	Water Head/Level at ti	me t		
Screened Soil:	Clayey Silt; weather	ed shale				
Well Diameter:	2"	L =	229	cm		
Static Water Level (mbgs):	2.61	R =	10.2	cm		
Initial Reading (mTOP)	2.51	r =	2.54	cm		
Test Start Reading (H0) (mTOP)	4.06	To=	240	sec		
Test End Reading (mTOP)	2.525	$K = r^2 \ln(L/R)/(2LTo) =$	1.8E-04	cm/s		



Slug Test: MW22-4		Project No.:	306354.003								
Project Location: 2077-2105	Project Location: 2077-2105 Royal Windsor Drive, Mississauga, Ontario										
Data Source: Based on Manua Conducted by:	Data Source: Based on Manual Measurements as per Rising Head Method dated August 15, 2022 Conducted by: Rishi M.										
Interpreted by:	Bujing Guan	H =	Initial Water Head prio	r to test							
Processing Date:	Aug. 16, 2022	Ho =	Water Head at time = 0								
Screen Depth (mbgs):	9.2 ~ 12.2	h =	Water Head/Level at time t								
Screened Soil:	Shale										
Well Diameter:	2"	L =	305	cm							
Static Water Level (mbgs):	2.79	R =	10.2	cm							
Initial Reading (mTOP)	2.65	r =	2.54	cm							
Test Start Reading (H0) (mTOP)	7.5	To=	140	sec							
Test End Reading (mTOP)	2.645	$K = r^2 \ln(L/R)/(2LTo) =$	2.6E-04	cm/s							



APPENDIX V

Laboratory Analytical Results



Your Project #: 306354

Site Location: ROYAL WINDSOR SITE

Your C.O.C. #: 891788-01-01

Attention: Bujing Guan

Pinchin Ltd 2360 Meadowpine Blvd Unit # 2 Mississauga, ON CANADA L5N 6S2

Report Date: 2022/08/17

Report #: R7257300 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2M2908 Received: 2022/08/08, 16:17

Sample Matrix: Water # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2022/08/14	2022/08/15	CAM SOP-00301	EPA 8270 m
Carbonaceous BOD	1	2022/08/10	2022/08/15	CAM SOP-00427	SM 23 5210B m
Total Cyanide	1	2022/08/10	2022/08/10	CAM SOP-00457	OMOE E3015 5 m
Fluoride	1	2022/08/09	2022/08/10	CAM SOP-00449	SM 23 4500-F C m
Mercury in Water by CVAA	1	2022/08/12	2022/08/12	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	1	N/A	2022/08/11	CAM SOP-00447	EPA 6020B m
E.coli, (CFU/100mL)	1	N/A	2022/08/08	CAM SOP-00552	MECP E3433
Total Nonylphenol in Liquids by HPLC	1	2022/08/15	2022/08/16	CAM SOP-00313	In-house Method
Nonylphenol Ethoxylates in Liquids: HPLC	1	2022/08/15	2022/08/16	CAM SOP-00313	BV Labs Method
Animal and Vegetable Oil and Grease	1	N/A	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520B m
Total Oil and Grease	1	2022/08/11	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520B m
Polychlorinated Biphenyl in Water	1	2022/08/09	2022/08/10	CAM SOP-00309	EPA 8082A m
pH	1	2022/08/09	2022/08/10	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2022/08/11	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	1	N/A	2022/08/10	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2022/08/10	2022/08/11	CAM SOP-00938	OMOE E3516 m
Mineral/Synthetic O & G (TPH Heavy Oil) (1)	1	2022/08/11	2022/08/11	CAM SOP-00326	EPA1664B m,SM5520F m
Total Suspended Solids	1	2022/08/10	2022/08/11	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2022/08/10	CAM SOP-00228	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or



Your Project #: 306354

Site Location: ROYAL WINDSOR SITE

Your C.O.C. #: 891788-01-01

Attention: Bujing Guan

Pinchin Ltd 2360 Meadowpine Blvd Unit # 2 Mississauga, ON CANADA L5N 6S2

Report Date: 2022/08/17

Report #: R7257300 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2M2908

Received: 2022/08/08, 16:17

implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

 * RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Note: TPH (Heavy Oil) is equivalent to Mineral / Synthetic Oil & Grease

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Antonella Brasil, Senior Project Manager Email: Antonella.Brasil@bureauveritas.com

Phone# (905)817-5817

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



eau Veritas Job #: C2M2908 Pinchi

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
Calculated Parameters		•	-			<u> </u>	
Total Animal/Vegetable Oil and Grease	mg/L	-	150	4.7	0.50	0.10	8152799
Inorganics							
Total Carbonaceous BOD	mg/L	15	300	<2	2	0.2	8157607
Fluoride (F-)	mg/L	-	10	0.28	0.10	0.020	8157136
Total Kjeldahl Nitrogen (TKN)	mg/L	1	100	4.5	0.10	0.060	8157953
рН	рН	6.0:9.0	5.5:10.0	7.54			8157137
Phenols-4AAP	mg/L	0.008	1	0.0025	0.0010	0.00030	8160871
Total Suspended Solids	mg/L	15	350	1000	20	4.0	8157679
Dissolved Sulphate (SO4)	mg/L	-	1500	110	1.0	0.10	8157180
Total Cyanide (CN)	mg/L	0.02	2	<0.0050	0.0050	0.00010	8157419
Petroleum Hydrocarbons		•			•		
Total Oil & Grease	mg/L	-	-	5.4	0.50	0.10	8160207
TPH - Heavy Oils	mg/L	-	15	0.70	0.50	0.10	8160211
Miscellaneous Parameters							
Nonylphenol Ethoxylate (Total)	mg/L	-	0.2	<0.2	0.2	0.04	8167187
Nonylphenol (Total)	mg/L	-	0.02	<0.001	0.001	0.0002	8167167
Metals							
Mercury (Hg)	mg/L	0.0004	0.01	<0.00010	0.00010	0.000050	8162674
Total Aluminum (Al)	ug/L	-	50000	21000	25	10	8160171
Total Antimony (Sb)	ug/L	-	5000	0.55	0.50	0.30	8160171
Total Arsenic (As)	ug/L	20	1000	8.8	1.0	0.50	8160171
Total Cadmium (Cd)	ug/L	8	700	<0.090	0.090	0.090	8160171
Total Chromium (Cr)	ug/L	80	5000	32	5.0	5.0	8160171
Total Cobalt (Co)	ug/L	-	5000	20	0.50	0.10	8160171
Total Copper (Cu)	ug/L	50	3000	23	0.90	0.50	8160171
Total Lead (Pb)	ug/L	120	3000	2.9	0.50	0.10	8160171
Total Manganese (Mn)	ug/L	50	5000	1100	2.0	0.50	8160171

No Fill
Grey
Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

Criteria: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010.



Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
Total Molybdenum (Mo)	ug/L	-	5000	4.4	0.50	0.20	8160171
Total Nickel (Ni)	ug/L	80	3000	42	1.0	0.50	8160171
Total Phosphorus (P)	ug/L	-	10000	900	100	30	8160171
Total Selenium (Se)	ug/L	20	1000	<2.0	2.0	0.50	8160171
Total Silver (Ag)	ug/L	120	5000	<0.090	0.090	0.070	8160171
Total Tin (Sn)	ug/L	-	5000	1.1	1.0	0.50	8160171
Total Titanium (Ti)	ug/L	-	5000	180	5.0	4.0	8160171
Total Zinc (Zn)	ug/L	40	3000	84	5.0	3.0	8160171
Semivolatile Organics		•					•
Bis(2-ethylhexyl)phthalate	ug/L	8.8	12	<2.0	2.0	0.10	8165355
Di-N-butyl phthalate	ug/L	15	80	2.3	2.0	0.10	8165355
Volatile Organics		•					•
Benzene	ug/L	2	10	<10 (1)	10	1.0	8156330
Chloroform	ug/L	2	40	<10 (1)	10	2.5	8156330
1,2-Dichlorobenzene	ug/L	5.6	50	<20 (1)	20	2.5	8156330
1,4-Dichlorobenzene	ug/L	6.8	80	<20 (1)	20	2.5	8156330
cis-1,2-Dichloroethylene	ug/L	5.6	4000	<25 (1)	25	2.5	8156330
trans-1,3-Dichloropropene	ug/L	5.6	140	<20 (1)	20	2.5	8156330
Ethylbenzene	ug/L	2	160	<10 (1)	10	0.50	8156330
Methylene Chloride(Dichloromethane)	ug/L	5.2	2000	<100 (1)	100	5.0	8156330
Methyl Ethyl Ketone (2-Butanone)	ug/L	-	8000	<500	500	25	8156330
Styrene	ug/L	-	200	<20	20	2.5	8156330
1,1,2,2-Tetrachloroethane	ug/L	17	1400	<20 (1)	20	2.5	8156330
Tetrachloroethylene	ug/L	4.4	1000	<10 (1)	10	2.5	8156330
Toluene	ug/L	2	270	<10 (1)	10	0.50	8156330
Trichloroethylene	ug/L	8	400	<10 (1)	10	2.5	8156330
p+m-Xylene	ug/L	-	-	<10	10	0.50	8156330

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit QC Batch = Quality Control Batch

Criteria: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010. (1) RDL exceeds criteria



Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID				TJS069			
Sampling Date				2022/08/08 15:30			
	UNITS	Criteria	Criteria-2	MW22 - 2	RDL	MDL	QC Batch
o-Xylene	ug/L	-	-	<10	10	0.50	8156330
Total Xylenes	ug/L	4.4	1400	<10 (1)	10	0.50	8156330
PCBs							
Total PCB	ug/L	0.4	1	<0.05	0.05	0.01	8156405
Microbiological							
Escherichia coli	CFU/100mL	200	-	<10	10	N/A	8154425
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	-	-	83			8165355
2-Fluorobiphenyl	%	-	-	83			8165355
2-Fluorophenol	%	-	-	44			8165355
D14-Terphenyl	%	-	-	94			8165355
D5-Nitrobenzene	%	-	-	90			8165355
D5-Phenol	%	-	-	31			8165355
Decachlorobiphenyl	%	-	-	97			8156405
4-Bromofluorobenzene	%	-	-	98			8156330
D4-1,2-Dichloroethane	%	-	-	96			8156330
D8-Toluene	%	-	-	99			8156330

No Fill
Grey
Black

No Exceedance

Exceeds 1 criteria policy/level

Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010.

N/A = Not Applicable

(1) RDL exceeds criteria



By-Law Number 53-2010.

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

PEEL SANITARY & STORM SEWER (53-2010)

Bureau Veritas ID					TJS069			
Sampling Date					2022/08/08 15:30			
		UNITS	Criteria	Criteria-2	MW22 - 2 Lab-Dup	RDL	MDL	QC Batch
Miscellaneous Pa	rameters							
Nonylphenol Etho	xylate (Total)	mg/L	-	0.2	<0.2	0.2	0.04	8167187
No Fill	No Exceedance					-	•	
Grey	Exceeds 1 criteria po	licy/level						
Black	Exceeds both criteria	/levels						
RDL = Reportable	Detection Limit							
QC Batch = Qualit	y Control Batch							
Lab-Dup = Laborat	tory Initiated Duplicate							
Criteria: The Region By-Law Number 5	onal Municipality of Pee 3-2010.	el Storm Sewe	er Dischar	ge.				
Criteria-2: The Reg	gional Municipality of P	eel Sanitary S	Sewer Dis	charge.				



Report Date: 2022/08/17

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

TEST SUMMARY

Bureau Veritas ID: TJS069 Sample ID: MW22 - 2

Matrix: Water

Collected:

2022/08/08

Shipped:

Received: 2022/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	8165355	2022/08/14	2022/08/15	Anh Lieu
Carbonaceous BOD	DO	8157607	2022/08/10	2022/08/15	Gurjot Kaur
Total Cyanide	SKAL/CN	8157419	2022/08/10	2022/08/10	Prgya Panchal
Fluoride	ISE	8157136	2022/08/09	2022/08/10	Kien Tran
Mercury in Water by CVAA	CV/AA	8162674	2022/08/12	2022/08/12	Japneet Gill
Total Metals Analysis by ICPMS	ICP/MS	8160171	N/A	2022/08/11	Daniel Teclu
E.coli, (CFU/100mL)	PL	8154425	N/A	2022/08/08	Sonja Elavinamannil
Total Nonylphenol in Liquids by HPLC	LC/FLU	8167167	2022/08/15	2022/08/16	Dennis Boodram
Nonylphenol Ethoxylates in Liquids: HPLC	LC/FLU	8167187	2022/08/15	2022/08/16	Dennis Boodram
Animal and Vegetable Oil and Grease	BAL	8152799	N/A	2022/08/11	Automated Statchk
Total Oil and Grease	BAL	8160207	2022/08/11	2022/08/11	Mitul Patel
Polychlorinated Biphenyl in Water	GC/ECD	8156405	2022/08/09	2022/08/10	Svitlana Shaula
рН	AT	8157137	2022/08/09	2022/08/10	Kien Tran
Phenols (4AAP)	TECH/PHEN	8160871	N/A	2022/08/11	Mandeep Kaur
Sulphate by Automated Colourimetry	KONE	8157180	N/A	2022/08/10	Samuel Law
Total Kjeldahl Nitrogen in Water	SKAL	8157953	2022/08/10	2022/08/11	Rajni Tyagi
Mineral/Synthetic O & G (TPH Heavy Oil)	BAL	8160211	2022/08/11	2022/08/11	Mitul Patel
Total Suspended Solids	BAL	8157679	2022/08/10	2022/08/11	Shaneil Hall
Volatile Organic Compounds in Water	GC/MS	8156330	N/A	2022/08/10	Narayan Ghimire

Bureau Veritas ID: TJS069 Dup Sample ID: MW22 - 2

Matrix: Water

Collected: 2022/08/08

Shipped:

Received: 2022/08/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nonylphenol Ethoxylates in Liquids: HPLC	LC/FLU	8167187	2022/08/15	2022/08/16	Dennis Boodram



Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.3°C
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Sample TJS069 [MW22 - 2]: VOC Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Nonylphenol and Nonylphenol Ethoxylates Analysis:

Due to background interference, sample required dilution. The Detection limit was adjusted accordingly.

Results relate only to the items tested.



Bureau Veritas Job #: C2M2908 Report Date: 2022/08/17

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

			Matrix	Spike	SPIKED	BLANK	Method	Blank	RP	D	QC Sta	ındard
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8156330	4-Bromofluorobenzene	2022/08/10			99	70 - 130	102	%				
8156330	D4-1,2-Dichloroethane	2022/08/10			97	70 - 130	98	%				
8156330	D8-Toluene	2022/08/10			103	70 - 130	97	%				
8156405	Decachlorobiphenyl	2022/08/10	87	60 - 130	98	60 - 130	90	%				
8165355	2,4,6-Tribromophenol	2022/08/15	90	10 - 130	90	10 - 130	45	%				
8165355	2-Fluorobiphenyl	2022/08/15	73	30 - 130	74	30 - 130	86	%				
8165355	2-Fluorophenol	2022/08/15	46	10 - 130	49	10 - 130	29	%				
8165355	D14-Terphenyl	2022/08/15	91	30 - 130	94	30 - 130	93	%				
8165355	D5-Nitrobenzene	2022/08/15	80	30 - 130	90	30 - 130	90	%				
8165355	D5-Phenol	2022/08/15	31	10 - 130	32	10 - 130	27	%				
8156330	1,1,2,2-Tetrachloroethane	2022/08/10			81	70 - 130	<0.40	ug/L	NC	30		
8156330	1,2-Dichlorobenzene	2022/08/10			88	70 - 130	<0.40	ug/L	NC	30		
8156330	1,4-Dichlorobenzene	2022/08/10			104	70 - 130	<0.40	ug/L	NC	30		
8156330	Benzene	2022/08/10			87	70 - 130	<0.20	ug/L	NC	30		
8156330	Chloroform	2022/08/10			91	70 - 130	<0.20	ug/L	NC	30		
8156330	cis-1,2-Dichloroethylene	2022/08/10			92	70 - 130	<0.50	ug/L	NC	30		
8156330	Ethylbenzene	2022/08/10			89	70 - 130	<0.20	ug/L	NC	30		
8156330	Methyl Ethyl Ketone (2-Butanone)	2022/08/10			96	60 - 140	<10	ug/L	NC	30		
8156330	Methylene Chloride(Dichloromethane)	2022/08/10			90	70 - 130	<2.0	ug/L	NC	30		
8156330	o-Xylene	2022/08/10			88	70 - 130	<0.20	ug/L	NC	30		
8156330	p+m-Xylene	2022/08/10			93	70 - 130	<0.20	ug/L	NC	30		
8156330	Styrene	2022/08/10			94	70 - 130	<0.40	ug/L	NC	30		
8156330	Tetrachloroethylene	2022/08/10			88	70 - 130	<0.20	ug/L	NC	30		
8156330	Toluene	2022/08/10			90	70 - 130	<0.20	ug/L	NC	30		
8156330	Total Xylenes	2022/08/10					<0.20	ug/L	NC	30		
8156330	trans-1,3-Dichloropropene	2022/08/10			93	70 - 130	<0.40	ug/L	NC	30		
8156330	Trichloroethylene	2022/08/10			97	70 - 130	<0.20	ug/L	NC	30		
8156405	Total PCB	2022/08/10	65	60 - 130	96	60 - 130	<0.05	ug/L	NC	40		
8157136	Fluoride (F-)	2022/08/10	105	80 - 120	106	80 - 120	<0.10	mg/L	1.4	20		
8157137	рН	2022/08/10			102	98 - 103			0.074	N/A		
8157180	Dissolved Sulphate (SO4)	2022/08/10	NC	75 - 125	97	80 - 120	<1.0	mg/L	0.70	20		



Bureau Veritas Job #: C2M2908 Report Date: 2022/08/17

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

			Matrix	Spike	SPIKED	BLANK	Method I	Blank	RP	D	QC Sta	ındard
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8157419	Total Cyanide (CN)	2022/08/10	95	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
8157607	Total Carbonaceous BOD	2022/08/15					<2	mg/L	2.9	30	88	85 - 115
8157679	Total Suspended Solids	2022/08/11					<10	mg/L	NC	25	96	85 - 115
8157953	Total Kjeldahl Nitrogen (TKN)	2022/08/11	85	80 - 120	97	80 - 120	<0.10	mg/L	NC (1)	20	96	80 - 120
8160171	Total Aluminum (Al)	2022/08/11	101	80 - 120	101	80 - 120	<4.9	ug/L	0.52	20		
8160171	Total Antimony (Sb)	2022/08/11	108	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Arsenic (As)	2022/08/11	102	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8160171	Total Cadmium (Cd)	2022/08/11	100	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
8160171	Total Chromium (Cr)	2022/08/11	96	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
8160171	Total Cobalt (Co)	2022/08/11	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Copper (Cu)	2022/08/11	97	80 - 120	98	80 - 120	<0.90	ug/L	4.2	20		
8160171	Total Lead (Pb)	2022/08/11	94	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
8160171	Total Manganese (Mn)	2022/08/11	100	80 - 120	98	80 - 120	<2.0	ug/L	3.6	20		
8160171	Total Molybdenum (Mo)	2022/08/11	104	80 - 120	96	80 - 120	<0.50	ug/L	1.2	20		
8160171	Total Nickel (Ni)	2022/08/11	100	80 - 120	100	80 - 120	<1.0	ug/L	3.2	20		
8160171	Total Phosphorus (P)	2022/08/11	103	80 - 120	110	80 - 120	<100	ug/L	NC	20		
8160171	Total Selenium (Se)	2022/08/11	101	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
8160171	Total Silver (Ag)	2022/08/11	95	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
8160171	Total Tin (Sn)	2022/08/11	103	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8160171	Total Titanium (Ti)	2022/08/11	98	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
8160171	Total Zinc (Zn)	2022/08/11	100	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
8160207	Total Oil & Grease	2022/08/11			100	85 - 115	<0.50	mg/L	1.3	25		
8160211	TPH - Heavy Oils	2022/08/11			97	85 - 115	<0.50	mg/L	1.6	25		
8160871	Phenols-4AAP	2022/08/11	103	80 - 120	100	80 - 120	<0.0010	mg/L	9.5	20		
8162674	Mercury (Hg)	2022/08/12	92	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
8165355	Bis(2-ethylhexyl)phthalate	2022/08/15	102	30 - 130	107	30 - 130	<2.0	ug/L	NC	40		
8165355	Di-N-butyl phthalate	2022/08/15	103	30 - 130	110	30 - 130	<2.0	ug/L	NC	40		
8167167	Nonylphenol (Total)	2022/08/16	104	50 - 130	105	50 - 130	<0.001	mg/L	NC	40		



Bureau Veritas Job #: C2M2908 Report Date: 2022/08/17

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8167187	Nonylphenol Ethoxylate (Total)	2022/08/16	104	50 - 130	109	50 - 130	<0.025	mg/L	NC	40		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristian Carrière
Cristina Carriere, Senior Scientific Specialist
Eve Pranic Q
Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist
Jone
Sonja Elavinamannil, Master of Biochemistry, Team Lead

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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iil:	ap@pinchin.com		03) 303-0001	Tel: Email:	hauani	@pinchin.com	P(h-AC	N pinchi	(a solo	Site #:			Windsor Sit	9		E III III		Antonella Brasil
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Client Project #: 306354

Site Location: ROYAL WINDSOR SITE

Sampler Initials: EC

Exceedance Summary Table – Peel Region Storm 2010 Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-10	Total Kjeldahl Nitrogen (TKN)	1	4.5	0.10	mg/L
MW22 - 2	TJS069-09	Total Manganese (Mn)	50	1100	2.0	ug/L
MW22 - 2	TJS069-06	Total Suspended Solids	15	1000	20	mg/L
MW22 - 2	TJS069-09	Total Zinc (Zn)	40	84	5.0	ug/L

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-13	1,1,2,2-Tetrachloroethane	17	<20	20	ug/L
MW22 - 2	TJS069-13	1,2-Dichlorobenzene	5.6	<20	20	ug/L
MW22 - 2	TJS069-13	1,4-Dichlorobenzene	6.8	<20	20	ug/L
MW22 - 2	TJS069-13	Benzene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Chloroform	2	<10	10	ug/L
MW22 - 2	TJS069-13	cis-1,2-Dichloroethylene	5.6	<25	25	ug/L
MW22 - 2	TJS069-13	Ethylbenzene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Methylene Chloride (Dichloromethane)	5.2	<100	100	ug/L
MW22 - 2	TJS069-13	Tetrachloroethylene	4.4	<10	10	ug/L
MW22 - 2	TJS069-13	Toluene	2	<10	10	ug/L
MW22 - 2	TJS069-13	Total Xylenes	4.4	<10	10	ug/L
MW22 - 2	TJS069-13	trans-1,3-Dichloropropene	5.6	<20	20	ug/L
MW22 - 2	TJS069-13	Trichloroethylene	8	<10	10	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Exceedance Summary Table – Peel Region Sanitary 2010 Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22 - 2	TJS069-06	Total Suspended Solids	350	1000	20	mg/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.



Your Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Your C.O.C. #: 895232-01-01

Attention: Bujing Guan

Pinchin Ltd 80 Tiverton Court, Suite 101 Markham, ON CANADA L3R 0G4

Report Date: 2022/09/21

Report #: R7307091 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2P0389 Received: 2022/08/31, 17:54

Sample Matrix: Water # Samples Received: 1

		Date	Date		
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Analytical Method
Lab Filtered Metals by ICPMS	1	2022/09/20	2022/09/21	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	N/A	2022/09/07	CAM SOP-00447	EPA 6020B m
Total Kjeldahl Nitrogen in Water	1	2022/09/02	2022/09/08	CAM SOP-00938	OMOE E3516 m
Total Suspended Solids	1	2022/09/02	2022/09/07	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2022/09/03	CAM SOP-00228	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

 $Reference\ Method\ suffix\ "m"\ indicates\ test\ methods\ incorporate\ validated\ modifications\ from\ specific\ reference\ methods\ to\ improve\ performance.$

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Your C.O.C. #: 895232-01-01

Attention: Bujing Guan

Pinchin Ltd 80 Tiverton Court, Suite 101 Markham, ON CANADA L3R 0G4

Report Date: 2022/09/21

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CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2P0389 Received: 2022/08/31, 17:54

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Antonella Brasil, Senior Project Manager Email: Antonella.Brasil@bureauveritas.com Phone# (905)817-5817

` '

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID				TPN761	TPN761			
Sampling Date				2022/08/31 14:45	2022/08/31 14:45			
COC Number				895232-01-01	895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	MW22-2 Lab-Dup	RDL	MDL	QC Batch
Inorganics								
Total Kjeldahl Nitrogen (TKN)	mg/L	100	1	3.7	N/A	0.10	0.060	8204122
				67	73		2.0	8203717

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010.

N/A = Not Applicable



Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID				TPN761	TPN761			
Compling Date				2022/08/31	2022/08/31			
Sampling Date				14:45	14:45			
COC Number				895232-01-01	895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	MW22-2 Lab-Dup	RDL	MDL	QC Batch
Metals								
Total Aluminum (AI)	ug/L	50000	-	1700	1700	4.9	2.0	8209243
Total Antimony (Sb)	ug/L	5000	-	<0.50	<0.50	0.50	0.30	8209243
Total Arsenic (As)	ug/L	1000	20	1.0	1.1	1.0	0.50	8209243
Total Cadmium (Cd)	ug/L	700	8	<0.090	<0.090	0.090	0.090	8209243
Total Chromium (Cr)	ug/L	5000	80	<5.0	<5.0	5.0	5.0	8209243
Total Cobalt (Co)	ug/L	5000	-	3.7	3.5	0.50	0.10	8209243
Total Copper (Cu)	ug/L	3000	50	1.4	1.3	0.90	0.50	8209243
Total Lead (Pb)	ug/L	3000	120	<0.50	<0.50	0.50	0.10	8209243
Dissolved Manganese (Mn)	ug/L	5000	50	240	N/A	2.0	N/A	8235334
Total Manganese (Mn)	ug/L	5000	50	280	280	2.0	0.50	8209243
Total Molybdenum (Mo)	ug/L	5000	-	3.1	3.2	0.50	0.20	8209243
Total Nickel (Ni)	ug/L	3000	80	3.9	3.9	1.0	0.50	8209243
Total Phosphorus (P)	ug/L	10000	-	<100	<100	100	30	8209243
Total Selenium (Se)	ug/L	1000	20	<2.0	<2.0	2.0	0.50	8209243
Total Silver (Ag)	ug/L	5000	120	<0.090	<0.090	0.090	0.070	8209243
Total Tin (Sn)	ug/L	5000	-	3.5	3.2	1.0	0.50	8209243
Total Titanium (Ti)	ug/L	5000	-	34	37	5.0	4.0	8209243
Total Zinc (Zn)	ug/L	3000	40	11	10	5.0	3.0	8209243

No Fill Grey

Black

No Exceedance

Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010. N/A = Not Applicable



Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID				TPN761			
Sampling Date				2022/08/31 14:45			
COC Number				895232-01-01			
	UNITS	Criteria	Criteria-2	MW22-2	RDL	MDL	QC Batch
Volatile Organics							
Benzene	ug/L	10	2	<0.40	0.40	0.040	8204734
Chloroform	ug/L	40	2	<0.40	0.40	0.10	8204734
1,2-Dichlorobenzene	ug/L	50	5.6	<0.80	0.80	0.10	8204734
1,4-Dichlorobenzene	ug/L	80	6.8	<0.80	0.80	0.10	8204734
cis-1,2-Dichloroethylene	ug/L	4000	5.6	<1.0	1.0	0.10	8204734
trans-1,3-Dichloropropene	ug/L	140	5.6	<0.80	0.80	0.10	8204734
Ethylbenzene	ug/L	160	2	<0.40	0.40	0.020	8204734
Methylene Chloride(Dichloromethane)	ug/L	2000	5.2	<4.0	4.0	0.20	8204734
Methyl Ethyl Ketone (2-Butanone)	ug/L	8000	-	<20	20	1.0	8204734
Styrene	ug/L	200	-	<0.80	0.80	0.10	8204734
1,1,2,2-Tetrachloroethane	ug/L	1400	17	<0.80	0.80	0.10	8204734
Tetrachloroethylene	ug/L	1000	4.4	<0.40	0.40	0.10	8204734
Toluene	ug/L	270	2	<0.40	0.40	0.020	8204734
Trichloroethylene	ug/L	400	8	<0.40	0.40	0.10	8204734
p+m-Xylene	ug/L	-	-	<0.40	0.40	0.020	8204734
o-Xylene	ug/L	-	-	<0.40	0.40	0.020	8204734
Total Xylenes	ug/L	1400	4.4	<0.40	0.40	0.020	8204734
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	-	-	84	N/A	N/A	8204734
D4-1,2-Dichloroethane	%	-	-	118	N/A	N/A	8204734
D8-Toluene	%	-	-	100	N/A	N/A	8204734

No Fill

No Exceedance

Grey Black Exceeds 1 criteria policy/level Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: The Regional Municipality of Peel Sanitary Sewer Discharge.

By-Law Number 53-2010.

Criteria-2: The Regional Municipality of Peel Storm Sewer Discharge.

By-Law Number 53-2010.

N/A = Not Applicable



Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1 5.3°C

Revised Report (2022/09/21): Dissolved Mn included as per client request .

Sample TPN761 [MW22-2]: VOC Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



Bureau Veritas Job #: C2P0389 Report Date: 2022/09/21

QUALITY ASSURANCE REPORT

Pinchin Ltd

Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

			Matrix	Spike	SPIKED	BLANK	Method	Blank	RP	D	QC Sta	ndard
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8204734	4-Bromofluorobenzene	2022/09/03	92	70 - 130	92	70 - 130	88	%				
8204734	D4-1,2-Dichloroethane	2022/09/03	109	70 - 130	111	70 - 130	112	%				
8204734	D8-Toluene	2022/09/03	110	70 - 130	109	70 - 130	103	%				
8203717	Total Suspended Solids	2022/09/07					<10	mg/L	8.6	25	95	85 - 115
8204122	Total Kjeldahl Nitrogen (TKN)	2022/09/08	96	80 - 120	96	80 - 120	<0.10	mg/L	2.3	20	95	80 - 120
8204734	1,1,2,2-Tetrachloroethane	2022/09/03	97	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
8204734	1,2-Dichlorobenzene	2022/09/03	105	70 - 130	105	70 - 130	<0.40	ug/L	NC	30		
8204734	1,4-Dichlorobenzene	2022/09/03	120	70 - 130	119	70 - 130	<0.40	ug/L	NC	30		
8204734	Benzene	2022/09/03	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30		
8204734	Chloroform	2022/09/03	103	70 - 130	104	70 - 130	<0.20	ug/L	7.3	30		
8204734	cis-1,2-Dichloroethylene	2022/09/03	112	70 - 130	113	70 - 130	<0.50	ug/L	NC	30		
8204734	Ethylbenzene	2022/09/03	100	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
8204734	Methyl Ethyl Ketone (2-Butanone)	2022/09/03	125	60 - 140	132	60 - 140	<10	ug/L	NC	30		
8204734	Methylene Chloride(Dichloromethane)	2022/09/03	101	70 - 130	103	70 - 130	<2.0	ug/L	NC	30		
8204734	o-Xylene	2022/09/03	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
8204734	p+m-Xylene	2022/09/03	105	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
8204734	Styrene	2022/09/03	105	70 - 130	107	70 - 130	<0.40	ug/L	NC	30		
8204734	Tetrachloroethylene	2022/09/03	96	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
8204734	Toluene	2022/09/03	106	70 - 130	105	70 - 130	<0.20	ug/L	NC	30		
8204734	Total Xylenes	2022/09/03					<0.20	ug/L	NC	30		
8204734	trans-1,3-Dichloropropene	2022/09/03	97	70 - 130	100	70 - 130	<0.40	ug/L	NC	30		
8204734	Trichloroethylene	2022/09/03	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30		
8209243	Total Aluminum (Al)	2022/09/07	NC	80 - 120	103	80 - 120	<4.9	ug/L	0.86	20		
8209243	Total Antimony (Sb)	2022/09/07	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
8209243	Total Arsenic (As)	2022/09/07	101	80 - 120	99	80 - 120	<1.0	ug/L	9.9	20		
8209243	Total Cadmium (Cd)	2022/09/07	98	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
8209243	Total Chromium (Cr)	2022/09/07	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
8209243	Total Cobalt (Co)	2022/09/07	96	80 - 120	97	80 - 120	<0.50	ug/L	5.3	20		
8209243	Total Copper (Cu)	2022/09/07	99	80 - 120	98	80 - 120	<0.90	ug/L	7.1	20		
8209243	Total Lead (Pb)	2022/09/07	88	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
8209243	Total Manganese (Mn)	2022/09/07	100	80 - 120	97	80 - 120	<2.0	ug/L	1.5	20		



Bureau Veritas Job #: C2P0389 Report Date: 2022/09/21

QUALITY ASSURANCE REPORT(CONT'D)

Pinchin Ltd

Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

			Matrix	Spike	SPIKED	BLANK	Method E	Blank	RP	D	QC Sta	ndard
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8209243	Total Molybdenum (Mo)	2022/09/07	108	80 - 120	98	80 - 120	<0.50	ug/L	3.4	20		
8209243	Total Nickel (Ni)	2022/09/07	93	80 - 120	98	80 - 120	<1.0	ug/L	0.31	20		
8209243	Total Phosphorus (P)	2022/09/07	116	80 - 120	109	80 - 120	<100	ug/L	NC	20		
8209243	Total Selenium (Se)	2022/09/07	104	80 - 120	105	80 - 120	<2.0	ug/L	NC	20		
8209243	Total Silver (Ag)	2022/09/07	99	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8209243	Total Tin (Sn)	2022/09/07	103	80 - 120	97	80 - 120	<1.0	ug/L	9.6	20		
8209243	Total Titanium (Ti)	2022/09/07	110	80 - 120	96	80 - 120	<5.0	ug/L	10	20		
8209243	Total Zinc (Zn)	2022/09/07	91	80 - 120	102	80 - 120	<5.0	ug/L	4.5	20		
8235334	Dissolved Manganese (Mn)	2022/09/21	98	80 - 120	100	80 - 120	<2.0	ug/L	3.2	20		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

VERIT		VOICE TO:				REPO	RT TO:						PROJECT	INFORMATION:			31-	Aug-22 17:54	
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il:	(365) 873-0301 ap@pinchin.com	Fax:		Tel Kwase EmailSele	(1cy (437) 9	93-1832	Fax:				Site #:		2077-	2105 Royal Wa	ector Dr. Mississ	es 111111	IGM I	ENV-1716	
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Sa	ample Barcode Label	Sample (Location) le	dentification	Date Sampled	Time Sampled	Matrix		Tota	Total	No.	Tota					# of Bottles		Comments	
		MW 22-	-2	202/08/31	2:45/	GW	N	V	/	V	1					5			
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-		1 Very Gr	22/08	15/ 32/	5-130	MY DA	BEC		7	408	131	1/	59	0	Time Sensitive	Temperatu	ure (°C) on Recei	Present Intact	Yes

Bureau Veritas Canada (2019) Inc.

Client Project #: 306354.003

Site Location: 2077-2105 ROYAL WINDSOR DR., MISSISSAUGA

Sampler Initials: JP

Exceedance Summary Table – Peel Region Sanitary 2010 Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS		
No Exceedances								
The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to								

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Exceedance Summary Table – Peel Region Storm 2010 Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22-2	TPN761-03	Total Kjeldahl Nitrogen (TKN)	1	3.7	0.10	mg/L
MW22-2	TPN761-02-Lab Dup	Total Manganese (Mn)	50	280	2.0	ug/L
MW22-2	TPN761-02	Total Manganese (Mn)	50	280	2.0	ug/L
MW22-2	TPN761-01	Dissolved Manganese (Mn)	50	240	2.0	ug/L
MW22-2	TPN761-01	Total Suspended Solids	15	67	10	mg/L
MW22-2	TPN761-01-Lab Dup	Total Suspended Solids	15	73	10	mg/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.