

ENGINEERING



LABORATORY



HYDROGEOLOGICAL INVESTIGATION



PROPOSED DEVELOPMENT, 3855 Dundas Street West, Mississauga, ONTARIO

Prepared for:

Dymon Group of Companies

Project No: FH 21-11440 Revised July 26, 2023

400 Esna Park Drive, Unit 15 Markham, ON L3R 3K2

Tel: (905) 475-7755 Fax: (905) 475-7718 www.fishereng.com



Issued to:	Dymon Group of Companies 2-1830 Walkley Road, Ottawa, ON K1H 8K3
Contact:	James Byck jbyck@dymon.ca
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Sean Fisher, M.Sc. Eng., Project Manager, sean@fishereng.com

Report Prepared By:

Clive Wiggan, PhD, PMP, Project Manager <u>clive@fishereng.com</u>

FESS M. FAN un NCE OF ON

Report Reviewed By:

Frank Fan, PEng, Geotechnical Engineer <u>frank@fishereng.com</u>

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1. INTRODUCTION

Fisher Engineering Ltd (Fisher) was commissioned by Dymon Group of Companies to carry out a Hydrogeological Investigation at the property municipally addressed as 3855 Dundas Street West in Mississauga, Ontario, hereinafter referred to as the 'Site'.

The purpose of the Hydrogeological Investigation was to evaluate groundwater conditions with respect to the proposed construction of a new building.

Updates in relation to the previous versions of the report are summarized as follows:

- A four-storey building, with one underground level, along with industrial condo building to be constructed as slab on grade, is now proposed.
- Construction groundwater dewatering rates of 8.50 m³/day and 3.34 m³/day for the four-storey building with one UG level and industrial condo respectively.
- Permanent drainage rate of 4.82 m³/day was obtained for the four-storey building with one UG level.

2. SITE AND PROJECT DESCRIPTIONS

Site Settings

The Site is located at the north side of Dundas Street West, approximately 350m west of Highway 403, in a mixed-use area, and is bounded by Ninth Line to the west, baseball diamonds to the north, undeveloped land to the east, beyond which is HWY403 and Dundas Street West to the south. The property has an approximate area of 8,053m² and is rectangular in shape.

At the time of the investigation, the Site was mainly covered with grass/weeds but appeared to have been graded in the recent past. Access to the property is via an unpaved entrance off Dundas Street East.

Topography

The Site is generally flat and slopes gently towards drainage ditches. An average ground surface elevation of 171.15m asl was used for this report based on elevations at BH/MW locations.



Proposed Development

It was understood that the proposed development will consist of the construction of a four-storey selfstorage facility and one-storey industrial condo, covering the western portion of the Site, adjacent to Ninth Line. The self-storage building will have one underground level while the industrial condo will be constructed as slab on grade. Based on the Site Plan, prepared by Global Architect Inc, dated June 14, 2023, finished ground floor elevation (FFE) is 171.40m asl while top of slab (TOS) for P1 is 168.05m asl. The proposed building, including the industrial condo, will have a footprint of 7,810m² while P1 area is 5,064.9m². Average footing depths, for conventional footings, of 1.2m below P1 and 2.2m below ground floor were assumed for the storage building, with one UG level, and industrial condo, with slab on grade, respectively, based on recommendations in the geotechnical engineering report.

3. SCOPE OF HYDROGEOLOGICAL INVESTIGATION

The Hydrogeological Investigation works were required to:

- 1) Establish groundwater conditions for the design of dewatering works, if required, prior to construction of the proposed building.
- 2) Determine the need for permanent drainage and
- Conduct calculations/analyses of the groundwater quantity and quality to be used for the necessary permits applications prior to proceeding with construction dewatering and design of permanent drainage, if necessary.

The scope of this work generally consisted of the following:

- **Drilling/locating Monitoring Wells.** Drilling of, and locating existing, monitoring wells and reviewing / compiling borehole logs and onsite / laboratory testing.
- **Data Evaluation.** Evaluating the results of soil types, groundwater static levels, ground surface elevation, groundwater quality, flow direction and other available hydrogeological data for the Site and their potential impact on the proposed development.
- **Hydraulic Conductivity Tests.** Conduct single well response tests in monitoring wells and record groundwater level drawdown and recovery to model/calculate hydraulic conductivity.



- **Groundwater Quality Analysis.** Carry out laboratory analyses on soil and groundwater to determine compliance with the Ontario Reg. Mun of Peel Sanitary Bylaw #53-2010 and Peel Storm Sewer By-law #53-201 (Apr 2011).
- **Groundwater Level Monitoring.** Conduct long term monitoring of the groundwater levels to determine seasonal highwater levels at the Site.
- **Private Well Survey.** Carry out a search of private supply wells in proximity to the Site.
- **Hydrogeological Report.** Prepare and submit a report detailing the findings and recommendations of the Hydrogeological Investigation.

4. FIELD AND LABORATORY WORKS

Subsurface exploration for the initial Hydrogeological Investigation was conducted on August 19, 2020 and consisted of the drilling of four (4) boreholes to depths of 5.03m below existing grades (BH1 to BH4). Seven (7) additional boreholes were drilled on September 13 and 14, 2021 to depths of 5.03m bgs. All boreholes were instrumented as monitoring wells (MW101 to MW104 and MW201 to 207) for groundwater monitoring and testing. Groundwater monitoring was carried out in all installed wells and two existing monitoring wells (MW2 & MW4, installed during a previous geotechnical investigation in 2018). A clean silica sand pack was placed around the well screens and isolated with bentonite to depths below existing grade as shown in the borehole details in Appendix B. Six (6) shallow boreholes (TH1 to TH6) were drilled during the recent investigation to be used for infiltration tests.

Truck/track mounted drill rigs equipped with solid stem augers, supplied by Terra Firma Services, were used for all drilling work.

Laboratory Analyses

Five (5) representative soil samples, from BH101 were selected and submitted to Fisher Environmental laboratory for grain size distribution and moisture content analyses. Two (2) soil samples from BH102 and BH103 were submitted to ALS Environmental laboratory for grain size and hydrometer analyses. Six (6) soil samples from the shallow boreholes (TH1 to TH6) were submitted for grain size and moisture content analyses and three (3) samples for hydrometer testing. The laboratory results, which are presented in Appendix C, are consistent with the field description for subsurface soils discussed in Section 5.0.



One groundwater sample from MW202 was submitted to ALS Environmental laboratory for analysis of water quality under the Ontario Reg. Mun of Peel Sanitary Bylaw #53-2010 and Peel Storm Sewer By-law #53-201 (Apr 2011). The results are presented in Appendix D.

The soil samples recovered during the investigations were stored in the Fisher Environmental laboratory for a period of 30 days after submitting the initial reports and were discarded thereafter.

Site Survey

Elevations at borehole/monitoring well locations were interpolated from a survey plan prepared by Speight, Van Nostrand & Gibson Limited dated September 10, 2018 which was provided to Fisher during the investigation.

5. PAVEMENT AND SOIL CONDITIONS

Surface and subsurface conditions encountered at borehole locations are shown in Appendix B - Log of Boreholes, and are summarized as follows:

Fill/Disturbed Soil: – Layers of fill/disturbed soil were encountered in all boreholes at ground surface extending to depths of 0.30m to 3.00m below prevailing grade. The fill materials generally consisted of reddish brown/to grey, silt/clayey silt, with trace of gravel/shale fragments, asphalt and bricks. Brown to grey silty clay with sand seams followed by black organic silty clay fill was reported in BH2 below the earth fill layer. The encountered layer of fill, which appears to be due to recent earth work, was moist to dry and was in a loose to compact state and was generally deeper in the northern section of the property covered by BH2, BH201 and BH202. A deeper layer of fill/disturbed soil was also encountered in the southeast section covered by BH207.

Depth and elevation of the fill encountered in all boreholes are presented in Table 1.

• **Clayey Silt Till:** – Reddish brown to greyish brown, moist to dry, stiff to hard clayey silt till with trace gravel and pieces of shale were encountered below the fill extending to termination depth in most boreholes. The clayey silt till was overlain by a dark brown to grey clayey silt layer in BH102.



 Suspected Shale: – Reddish brown, dry, hard shale/weathered shale was encountered at 3.2m bgs in BH203. SPT values of over 100 blows per 300mm of penetration were observed in the shale. Refusal to power auguring occurred at approximately 4.72m bgs in the shale material.

Borehole No.	BH201	BH202	BH203	BH204	BH205	BH206	BH207	BH101	BH102	BH103	BH104	BH2	BH4
Surface Elevation (m asl)	171.50	171.09	170.98	170.41	171.33	171.42	170.89	171.40	171.22	171.25	171.35	171.09	170.98
Depth of Borehole (m bgs)	5.03	5.03	5.03	4.72	5.03	5.03	4.99	5.03	5.03	5.03	5.03	6.71	6.55
Elevation at Bottom of Borehole (m asl)	166.47	166.06	165.95	165.69	166.30	166.39	165.90	166.37	166.19	166.22	166.32	164.38	164.43
Depth of Fill (m bgs)	3.05	1.98	0.23	1.07	1.07	1.37	2.44	0.76	1.22	0.3	0.61	1.85	0.46
Elevation at Bottom of Fill (m asl)	168.45	169.11	170.75	169.34	170.26	170.05	168.45	170.64	170.00	170.95	170.74	169.24	170.52

Table 1: Fill depths and Elevations

6. HYDROGEOLOGICAL STUDY

Hydrogeological study for the subject Site was conducted based on the boreholes/wells' exploration, observation and Site/Laboratory testing. Groundwater details from the eleven newly installed and two existing monitoring wells were used in the Hydrogeological Study. The wells were constructed with 3.05 (10') long, 51mm diameter PVC slotted screen pipes and risers as shown in Appendix B. Clean silica sand packs were placed around each well screen which was isolated with bentonite extending to slightly below existing grade.

6.1 Hydrogeological Conditions

Review of the available surficial geological and hydrogeological information for the area shows that the soils comprise generally of Glacial Ice Deposits consisting predominantly of Young Tills, clayey silt till and sandy silt till (Quaternary Geology, Toronto and Surrounding Area, Ontario Geological Survey Map 2204,



1998). Underlying bedrock is represented by shale, limestone, dolostone and siltstone of the Queenston Formation and is generally less than 10m below existing grade.

The subsoils and hydrogeological conditions were observed and recorded during the previous Geotechnical and current Hydrogeological Investigations. Based on the boreholes/wells' exploration, subsoils at the site were dominated by a layer of reddish brown, moist to dry, stiff to hard clayey silt till beneath the fill/disturbed soil layers. A layer of grey to brown, moist, firm clayey silt was observed in some boreholes overlying the clayey silt till. Pieces of shale were observed embedded in the clayey silt till at further depths. Dry, hard, weathered shale was observed in one borehole at 3.2m bgs. The observed soil stratigraphy is consistent with the regional geology.

All monitoring wells used for the investigation, including existing wells, were purged/developed, and groundwater levels measured on subsequent occasions. Measured groundwater depths and elevations are summarized in Table 2.

Notes on Table 2:

The following general comments regarding groundwater conditions are based on the groundwater level data and the Site investigation:

- Groundwater levels were monitored over the period September to November 2021 and on November 2, 2018, August 27, 2020 and September 4, 2020.
- All boreholes were observed to be generally dry on completion of drilling. Small quantity of water was observed in the open borehole at the bottom of BH202.
- Groundwater levels vary between 0.40m and 5.10m below existing grade (elevations of 165.99m to 170.01m asl). Depths to observed groundwater were generally greater than 1.2m. Higher gwls were observed in MW204 towards the eastern boundary of the property.
- No defined aquifer was encountered within the investigated depths on the Site.
- Given the proposed development, recommended average conventional footing elevations would be approximately 166.85m and 169.02m asl for the four-storey building with one UG level and the industrial condo with slab on grade respectively. Footings for the elevator shaft are expected to be another 1.5m below. Therefore, conventional footings would extend into the groundwater levels observed during the Hydrogeological Investigation.
- The nearest body of surface water is the Credit River located approximately 5.1km east of the Site. Historical maps show numerous small creeks/drainage ditches within 1km radius of the Site.



Table 2: Groundwater Levels and Elevations

Well No.		MW201	MW202	MW203	MW204	MW205	MW206	MW207	MW101	MW102	MW103	MW104	MW2	MW4
Elev. at Ground	d (m)	171.50	171.09	170.98	170.41	171.33	171.42	170.89	171.40	171.22	171.25	171.35	171.09	170.98
Depth of	m bgs	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	6.10	6.10
Well/BH	m asl	166.93	166.52	166.41	165.84	166.76	166.85	166.32	166.83	166.65	166.68	166.78	164.99	164.88
On	GW level, m bgs	Dry	4.55	Dry										
Completion	GW Ele, m asl	-	166.54	-	-	-	-	-	-	-	-	-	-	-
2-Nov-18	GW level, m bgs	n/a	5.10	1.67										
	GW Ele, m asl	-	-	-	-	-	-	-	-	-	-	-	165.99	169.31
27-Aug-20	GW level, m bgs	n/a	Dry	Dry	Dry	4.32	4.12	2.09						
	GW Ele, m asl	-	-	-	-	-	-	-	-	-	-	167.03	166.97	168.89
4-Sep-20	GW level, m bgs	n/a	Dry	3.77	Dry	3.89	3.04	1.40						
·	GW Ele, m asl	-	-	-	-	-	-	-	-	167.45		167.47	168.05	169.58
17-Sep-21	GW level, m bgs	2.89	1.43	1.62	1.45	3.94	4.11	3.72	1.83	1.46	4.12	3.38	1.64	1.56
•	GW Ele, m asl	168.61	169.66	169.36	168.96	167.39	167.31	167.17	169.57	169.76	167.13	167.97	169.45	169.42



Fisher Engineering Ltd

MW201

171.50

2.81

168.69

2.59

168.91

2.42

169.08

2.40

169.10

2.37

169.13

1.39

169.70

1.35

169.74

1.45

169.53

1.41

169.57

Well No.

Elev. at Ground (m)

29-Sep-21

13-Oct-21

27-Oct-21

10-Nov-21

24-Nov-21

GW level, m

bgs

GW Ele,

m asl GW level, m

bgs

GW Ele,

m asl

)1	MW202	MW203	MW204	MW205	MW206	MW207	MW101	MW102	MW103	MW104	MW2
0	171.09	170.98	170.41	171.33	171.42	170.89	171.40	171.22	171.25	171.35	171.09
	1.33	1.53	0.71	3.91	4.03	3.67	1.71	1.28	4.10	3.39	1.62
9	169.76	169.45	169.70	167.42	167.39	167.22	169.69	169.94	167.15	167.96	169.47
	1.43	1.55	0.49	3.40	3.64	2.83	1.72	1.41	3.96	2.95	1.51
1	169.66	169.43	169.92	167.93	167.78	168.06	169.68	169.81	167.29	168.40	169.58
	1.40	1.48	0.42	2.99	3.98	2.19	1.74	1.32	3.87	1.27	2.69
8	169.69	169.50	169.99	168.34	167.44	168.70	169.66	169.90	167.38	170.08	168.40

2.17

168.72

2.15

168.74

1.71

169.69

1.70

169.70



2.95

168.38

2.90

168.43

0.41

170.00

0.40

170.01

3.96

167.46

3.91

167.51

MW4

170.98

1.37

169.61

1.26

169.72

1.25

169.73

1.27

169.71

1.24

169.74

2.60

168.49

2.57

168.52

1.26

170.09

1.28

170.07

1.29

169.93

1.30

169.92

3.81

167.44

3.75

167.50

6.2Hydraulic Conductivity K Modeling Results

Single Well Response Tests

Single well response tests (SWRT) were conducted in MW102 and MW104 on September 4, 2020 and in MW204, MW205 and MW207 on September 17, 2021. The water bearing media, consisting of silt seams/pockets embedded in the predominantly clayey silt till, were assumed to be unconfined, homogenous, isotropic and of uniform thickness. It was also assumed that the wells fully penetrated the water bearing seams/pockets. Data from the single well response tests were used to calculate the hydraulic conductivity values using Luthin's method.

Details of the hydraulic conductivity analyses derived from single well response tests are presented in Appendix E and summarized in Table 3.

Test	Well Surface	Groundwater	Screen	Variance of water head	30 Minutes/ Recovery	Hydraulic Co (Luthin's	
Wells	Elevation (m asl)	Depth (m)	Elevation (m asl)	created (m)	Percentage	m/s	m/day
MW204	170.41	1.45	165.84 - 168.89	2.595	30 min / 19%	1.36 x 10 ⁻⁷	0.012
MW205	171.33	3.94	166.76 - 169.81	0.53	30 min / 22%	1.06 x 10 ⁻⁷	0.009
MW207	170.89	3.72	166.32 – 169.37	0.73	30 min / 17%	7.57 x 10⁻ ⁸	0.007
MW102	171.22	3.77	166.65 - 169.70	0.66	25 min / 15%	1.06 x 10 ⁻⁷	0.009
MW104	171.35	3.89	166.78 - 169.83	0.61	25 min / 14%	9.08 x 10 ⁻⁸	0.008

Table 3: Summary of Single Well Response Tests and Hydraulic Conductivity Results

The average hydraulic conductivity was used in the calculation of dewatering volumes.

6.3Grain Size Analysis for Hydraulic Conductivity K

Representative soil samples from BH102, BH103, TH2, TH4 and TH6 were selected from depths associated with the recommended footing locations or change in soil stratigraphy and submitted to ALS Environmental Laboratory and Fisher Environmental Laboratory for grain size distribution and hydrometer analyses. The results for the grain size distribution and hydrometer analyses are presented in Appendix C.

The grain size distribution results were used to estimate the hydraulic conductivity (k) of the overburden soils. The hydraulic conductivity values at various depths, based on grain size, are summarized in Table 4. The estimated k values are expectedly lower than those obtained during the single well response tests as



the insitu tests account for more permeable horizontal seams which are not represented in the laboratory samples.

Location	Depth of soil sample (feet)	Soil Classification	Estimated Hydrau (Hazen N	-
			m/s	m/day
TH1	5 - 6½	Clay and Silt, some Sand, trace gravel (Till)	9x 10 ⁻¹⁰	0.0000778
TH4	2½ - 4	Clay and Silt, some Sand, Trace gravel (Till)	9 x 10 ⁻¹⁰	0.0000778
тн6	5 - 6½	Sandy Clay, trace Gravel (Till)	4 x 10 ⁻⁹	0.0003456
BH102	10-11½'	Clayey, Sandy Silt, trace gravel (Till)	1 x 10 ⁻⁹	0.0000864
BH103	10-11½'	Sandy, Clayey Silt, trace Gravel (Till)	1 x 10 ⁻⁸	0.000864

Table 4: Hydraulic Conductivity Estimated from Grain Size Analysis

7. CONSTRUCTION DEWATERING & PERMANENT DRAINAGE

7.1 Construction Dewatering

Finished floor elevations, based on the site plan provided, are 171.40m and 168.05m asl for the industrial condo and P1 of the four-storey building respectively. Underside of footings were assumed at 169.02m and 166.85m asl based on the geotechnical engineering report. Building areas of 2,745.1m² and 5,064.9m² were used in the calculation of dewatering quantities for the industrial condo and four-storey building respectively.

The highest groundwater levels observed in monitoring wells covering the areas of the industrial condo and four-storey building (both 1.26m bgs) were used to calculate construction dewatering rates. Based on the highest groundwater levels, observed during the investigation, the recommended average footing depths will be below the groundwater levels, depending on the time of year that construction takes place. Groundwater levels should therefore be lowered to at least 1m below the base of the footings to prevent hydraulic uplift/piping during construction.

Based on the calculations, shown in Appendix F, construction dewatering flowrates of 8.50 m³/day and 3.34 m³/day were obtained for the four-storey building and industrial condo respectively (total



unfactored construction groundwater dewatering rate of 11,840 L/day). A factor of safety of 1.5 should be applied to construction dewatering rates to give 12.75 and 5.01 m³/day (total factored groundwater dewatering rate of 17.76 m³/day or 17,760 L/day).

Provisions should be made to pump any encountered groundwater from the excavation area for the Wilkinson Heavy Precast Fire Tank and Onsite Sewage System tank for Waterloo Biofilter or equivalent to be located as per site plan. A nominal flowrate of **1.0 m³/day** for each structure should be used for planning purposes.

Seasonal High Groundwater Levels

Additional groundwater level monitoring was carried out over the period September to November 2021. The highest groundwater levels observed on the site may be taken as representative of seasonal highwater levels at the site. These were used to estimate permanent drainage rates and construction dewatering quantities.

Accounting for Accumulated Precipitation

Provisions should be made to pump any accumulated water from the excavation areas during construction, particularly following a period of heavy rainfall. For example, 25mm rainfall in 24 hrs may result in accumulation of approximately 195m³ in the excavated area for the four-storey building and industrial condo (predominantly clayey silt till). Considering the low infiltration capacity of the soils at the expected excavation base, some of this water will accumulate. A conservative accumulated volume of **30** m³/day may be assumed for rainfall events in the excavation area. Accumulated precipitation may be stored on Site for subsequent disposal to an MECP-licensed facility. If the water is to be discharged into the public sewer system, then an application for the discharge of private water will have to be made to the City of Mississauga (storm) or the Region of Peel (sanitary). The water quality, at the time of the application, will need to be ascertained to ensure compliance with the Ontario Reg. Mun of Peel Sanitary Bylaw #53-2010 and Peel Storm Sewer By-law #53-201 (Apr 2011).

The **maximum total construction discharge** rates, taking into consideration accumulated precipitation volumes and seasonal high groundwater levels, are:

Unfactored: 41.84 m³/day (41,840 L/day) and

Factored: 47.76 m³/day (47,760 L/day).



Permanent Drainage

The highest groundwater elevations observed in the location of the building is 169.94m asl with FFE/P1 TOS of 171.40m and 168.05m asl for the industrial condo and four-storey building respectively. These represent a difference of 1.46m above the highest observed groundwater elevation for the industrial condo. Under the observed groundwater conditions, for the portion of the building with no underground levels, neither permanent under slab nor perimeter drainage will be required.

For the four-storey building with one underground level, permanent drainage of **4.82 m³/day** will be required. A factored discharge rate of **7.23 m³/day** (**7,230 L/day**) should be used for planning purposes.

It is also recommended that the subsurface portion of the elevator shaft be designed as watertight.

Permission to take water (PTTW)

As the calculated total construction dewatering flow rate, including accumulated precipitation, is less than 50,000 L/day, registration on the MECP Environmental Activity and Sector Registry (EASR) for Water Taking will not be required. An application for permission to take water (PTTW) is not required as the daily flow rate is less than 400,000 litres for construction and less than 50,000 litres for permanent drainage.

7.2Groundwater Quality

The results (September 23, 2021) of analyses for water quality under the Ontario Reg. Mun of Peel Sanitary Bylaw #53-2010 and Peel Storm Sewer By-law #53-201 (Apr 2011), show compliance with all parameters except as listed in Table 5.

Parameters	Guide Li	mits	Results	
	Table 1	Table 2	MW102	
Total suspended solids, mg/L	350	15	161	
Manganese, mg/L	5	0.05	1.21	
Kjeldahl Nitrogen (TKN), mg/L	100	1.0	1.40	
Sulphate, mg/L	1500	-	1540	
Fecal Coliforms, CFU/100mL	-	0	770	

Table 5: Results from Sewer Use Bylaw tests



Based on the results in Table 5, the groundwater will need to be treated before it can be discharged into the public storm or sanitary sewer system.

It should also be noted that testing of groundwater at the depths observed during the investigation would not be representative of the water that might accumulate during a high rainfall event. Any accumulation of precipitation occurring in the excavation during construction, that may require offsite discharge, will have to be tested at the time of the event to determine the quality of water for discharge.

7.3Dewatering Influence Zone

Based on the preceding calculations for dewatering quantities during excavation/footing construction, groundwater drawdown influence zones are up to 2.64m from the edge of the excavation areas in the mainly clayey silt till. As the dewatering quantity, if any, will be nominal, dewatering can be carried out by pumping from sump pits. Consequently, there should be no impact on surrounding structures due to construction dewatering.

7.4 Hydrogeological Impact

During the investigation, it was determined that there will not be any negative impact to the natural environment, City of Mississauga/Peel Region Sewer works nor surrounding properties due to construction dewatering because of the depth at which groundwater was observed and the short influence zone in the mainly clayey silt till. No groundwater induced depression at surface level is expected. Consequently, it is not expected that construction will impact public infrastructure, the natural environment nor will there be any settlement issues.

8. ONTARIO MINISTRY OF ENVIRONMENT WATER WELL RECORDS

The MECP Water Well Records for existing private wells in a 500m radius of the Site were obtained to determine the characteristics of existing private wells in the vicinity of the subject Site. A Total of sixteen (16) well records were reviewed from the MECP online water well record mapping resource. The records show that fourteen (14) wells were installed in shale/limestone, encountered at depths of eight to fifty-five feet (8-55') below prevailing grades. Well depths vary from twenty-eight to two hundred and twenty-four feet (28-224') with an average approximate depth of 93'. Two wells were reportedly



decommissioned. A summary of the well characteristics for the fourteen (14) water wells within 500m of the Site is presented in Table 6 with details in Appendix G.

The MECP Water Well Records for drinking water wells surrounding the subject Site show that water in existing private wells was encountered at depth of twelve to one hundred and thirty (12-130') feet during installation with an average approximate depth of 65 feet bgs. Recommended pumping depths vary between 27 and 105 feet with an average recommended depth of 75'. Recommended pumping rates vary between 1 and 5 gpm with an average recommended rate of 2.3 gpm. One well was abandoned due to insufficient supply.

It would be expected that similar yield to those observed in existing supply wells would be possible from well(s) installed to similar depths on the subject site.



Table 6. MECP details of wells within 500m radius of Site boundary

No	MOE Well ID	Date Completed	Well Completion	Well Type	Bedrock depth, feet	Water Found at, feet	Static Water Level, feet	Well Depth, feet	Recommended pumping rate, GPM	Recommended Pumping Depth, feet
1	910346653	30-Sept-1959	Shale	Domestic Water Supply	26	66	15	81.0	2.5	70
2	910337800	7-Sept-1955	Shale	Domestic Water Supply	55	70	25	75.0	0.5	65
3	910337978	n/a	Limestone	Commercial Water Supply – drive in theatre	8	n/a	50	224.0	3.0	n/a
4	910337984	14-Sept-1967	Shale	Domestic Water Supply	23	69-85	20	85.0	1.0	80
5	910339323	2-Dec-1971	Shale	Domestic Water Supply	20	25	10	28.0	n/a	27
6	910485009	24-Apr-1982	Shale	Domestic Water Supply	22	98	12	110.0	5.0	105
7	910103887	29-Jul-1985	Shale	Commercial Water Supply	50	52	15	70.0	1.0	67
8	910103357	25-Apr-1992	Shale	Domestic Water Supply	35	88	9	93.0	3.5	89
9	910103811	8-May-1996	Shale	Domestic Water Supply- Abandoned – insufficient supply	26	n/a	n/a	100.0	n/a	n/a
10	910550859	19-Dec-2002	n/a	Decommissioning	n/a	n/a	n/a	n/a	n/a	n/a
11	910532650	14-Aug-2001	Shale	Domestic Water Supply	32	12-32	12	47.5	3.0	45
12	21071884	-Oct-2007	Shale	Commercial Water Supply	15.54m	26m	n/a	28.65m	4.5 L/min	27m
13	1003476639	08-Nov-2010	Shale	Place of Worship	29	35-60	n/a	70	4.0	65
14	1004128056	23-Jul-2012	Shale	Commercial Water Supply	52	130	n/a	130.0	1.0	125
15	1005391871	02-Dec-2014	n/a	Commercial Water Supply	n/a	n/a	n/a	n/a	n/a	n/a
16		05-Oct-2019	n/a	Decommissioning	n/a	n/a	n/a	n/a	n/a	n/a



Fisher Engineering Ltd

9. DISCUSSION

- Hydraulic conductivity values from the single well response tests vary between 7.57 x 10⁻⁸ m/s (0.007 m/day) and 1.36 x 10⁻⁷ m/s (0.012 m/day). An average value was used to calculate dewatering rates.
- Groundwater levels vary between 0.40m and 5.10m bgs (elevations of 165.99m to 170.01m asl). The highest observed groundwater level in the building location was used to calculate construction dewatering and permanent drainage quantities.
- Maximum factored total construction dewatering flowrate of 47.76 m³/day, including accumulated precipitation, was estimated for the building.
- Permanent drainage rate of 4.82 m³/day (factored rate of 7.23 m³/day) was estimated for the four-storey building with one UG level. Permanent drainage will not be required for the industrial condo to be constructed as slab on grade.
- Based on the groundwater levels observed during the investigation pumping from sump pits should be adequate for construction dewatering.
- It should be noted that if it is intended that any accumulated water/groundwater, following periods of heavy rainfall, be discharged into the public sewer, then a permit to discharge would be required along with laboratory analyses to ensure compliance with Ontario Reg. Mun of Peel Sanitary Bylaw #53-2010 and Peel Storm Sewer By-law #53-201 (Apr 2011).
- Based on the total dewatering quantities, including accumulated precipitation in the excavation areas, registration on the EASR for water taking will not be required during construction. An application for PTTW will not be required.
- Fourteen active supply wells were observed in proximity to the property with recommended pumping rates of 1-5 gpm from average depths of approximately 75 feet below prevailing grades.



10.LIMITATIONS

This report is limited in scope to those items specifically referenced in the text. The discussions and recommendations presented in this report are intended only as guidance for the named client, design engineers and those directly associated with the implementation and monitoring of the project. The information on which these recommendations are based is subject to confirmation by engineering personnel at the time of construction. Localized variations in the subsoil conditions may be present between and beyond the boreholes and should be verified during construction.

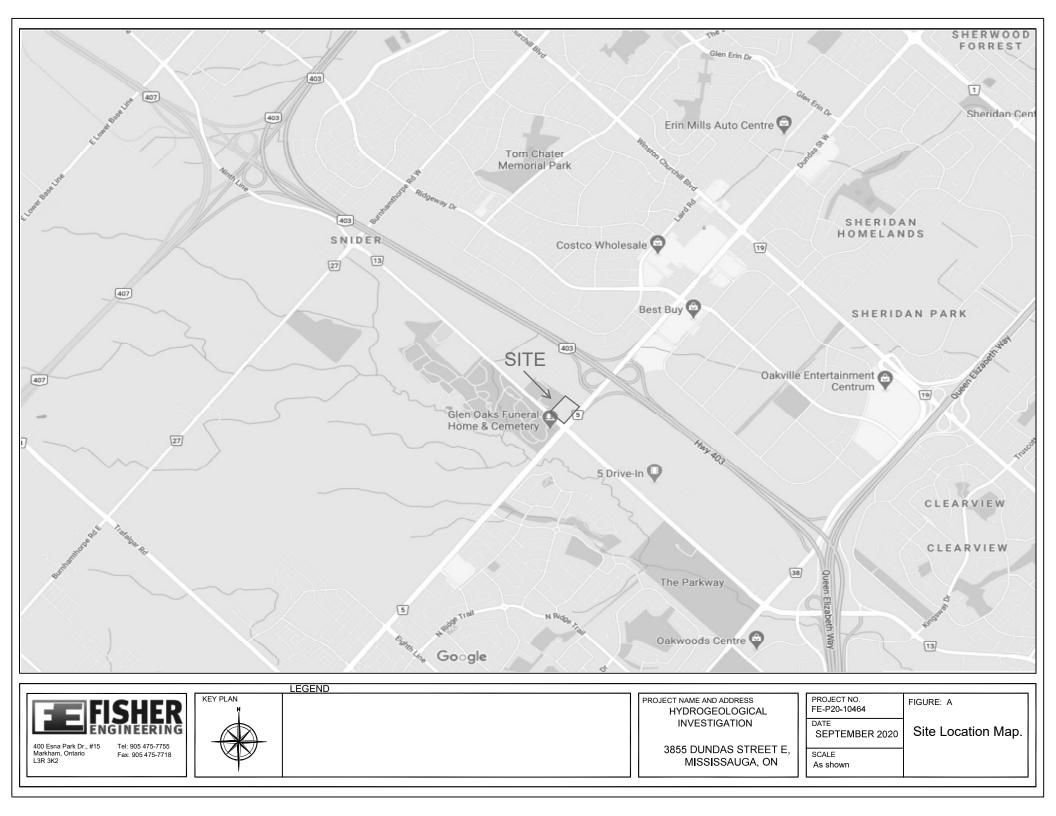
As more specific subsurface information becomes available during excavations on the Site, this report should be updated. Contractors bidding on or undertaking the work should decide on their own investigations, as well as their own interpretations of the factual borehole results. This concern specifically applies to the classification of the subsurface soil and the potential reuse of these soils on/off Site. Contractors should draw their own conclusions as to how the near surface and subsurface conditions may affect them.

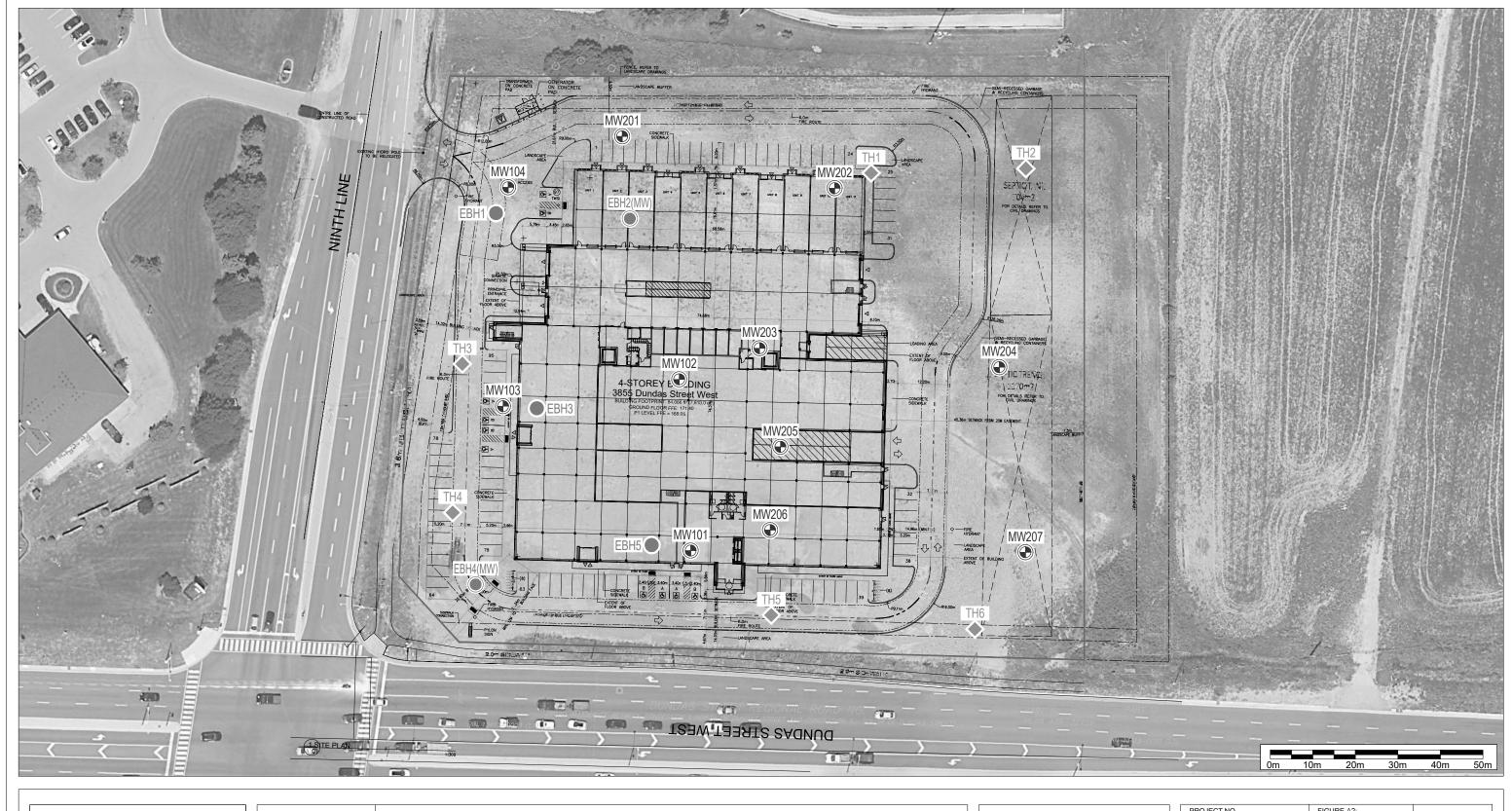


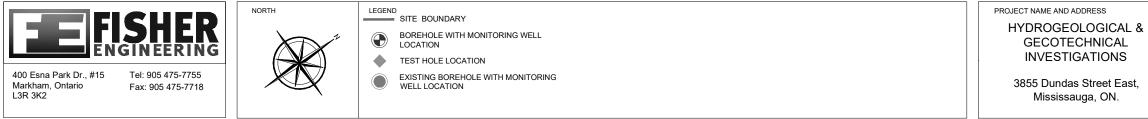
APPENDIX A – SITE AND LOCATION PLANS



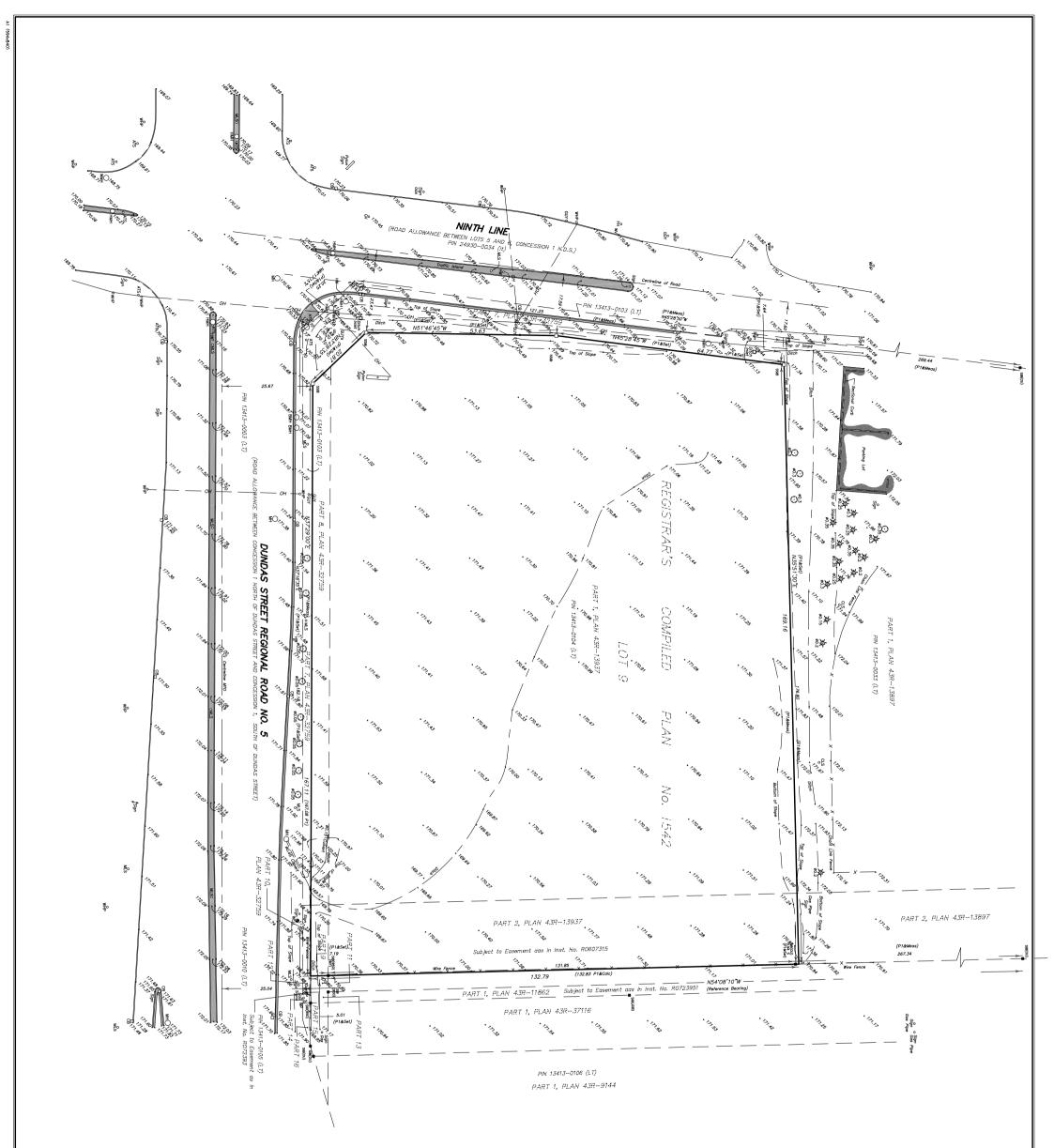
Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023

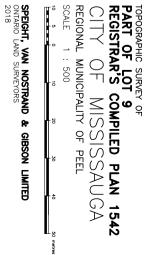






PROJECT NO. FE-P 21-11439/40	FIGURE A2:	SHEET NO.
DATE. 25 July 2023	SITE PLAN WITH TEST HOLE AND MONITORING WELL	A2
SCALE. AS SHOWN	LOCATIONS	





 \bigcirc THE REPRODUCTION, ALTERATION OR USE OF THIS PLAN, IN WHOLE OR IN PART, WITHOUT THE EXPRESS PERMISSION OF SPEIGHT, VAN NOSTRAND & GIBSON LIMITED IS STRUCTLY PROHIBITED.

ELEVATION NOTE

ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM THE CITY OF MISSISSAUGA BENCHMARK No. 075023031.

BRASS CAP SET AT TOP OF CONCRETE CYLNDER LOCATED AT THE NORTH-EAST CORNER OF THE INTERSECTION OF DUNDAS STREET WEST AND VEGA BOULEVARD, 15M EAST OF THE CENTRELINE OF VEGA BOULEVARD AND 27M NORTH OF CENTRELINE OF DUNDAS STREET WEST. LOCATION

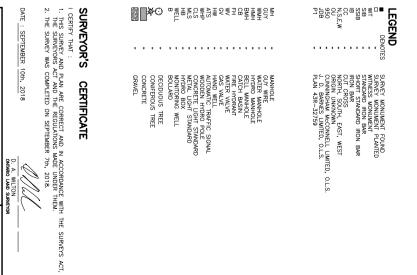
ELEVATION:

PUBLISHED ELEVATION = 163.073 metres. TO OBTAIN GEODETIC ELEVATIONS (1978 G.S.C. RE-ADJUSTMENT) SUBTRACT (0.121 metres) FROM VALUES SHOWN HEREIN.

BEARING NOTE

BEARINGS SHOWN HEREON ARE GRID AND ARE REFERRED TO THE EASTERLY LIMIT OF PART 9. AS SHOWN ON PLAN 43R-32759, HAVING A BEARING OF N54'08'10'W.

METRIC DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.



ASSOCIATION OF ONTARIO LAND SURVEYORS PLM SUBMISSION FORM 2068653

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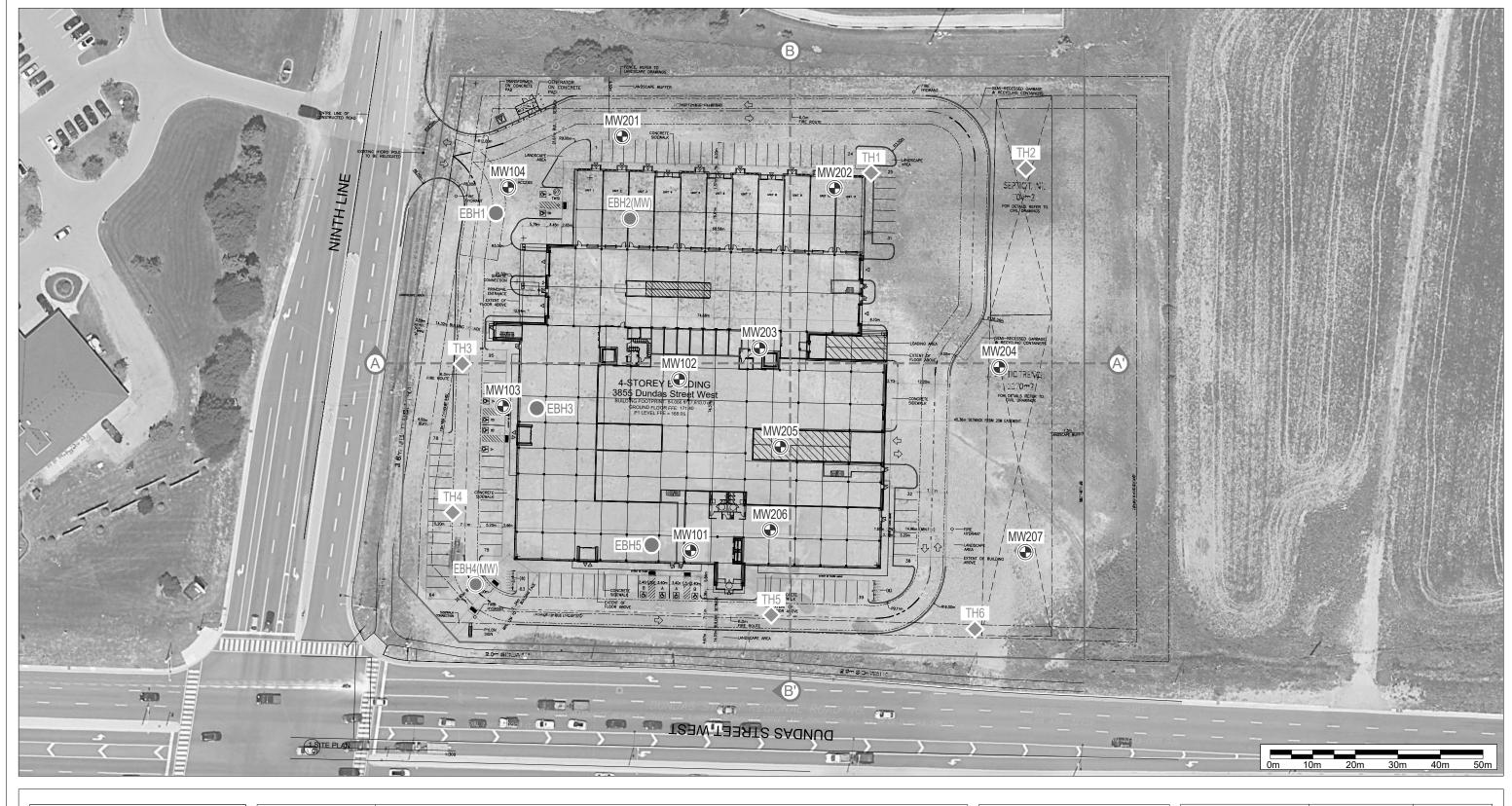
SPEIGHT, VAN NOSTRAND & GIBSON LIMITED ONTARIO LAND SURVEYORS 750 OAKDAE Rody, Units 65 & 66 TORONIO, ONTARIO LAND SURVEYORS TEL. 416 724-SNA(7264), FXX 416 749-7866 E-MAL: toronto@syng.on.co HECKED : D. A. W. E. D./F. P. B. PLOT SCALE : MET.1=0.50 PLOTTED : APRIL 25, 2018 FILE NAME : A1800104.DWG

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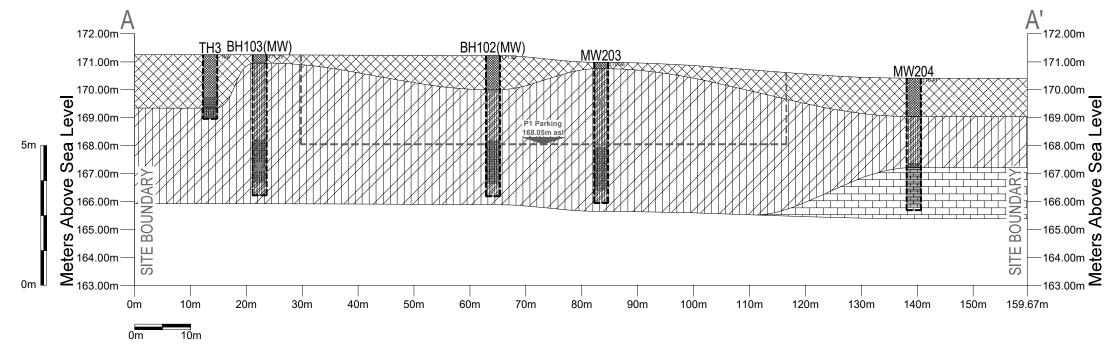
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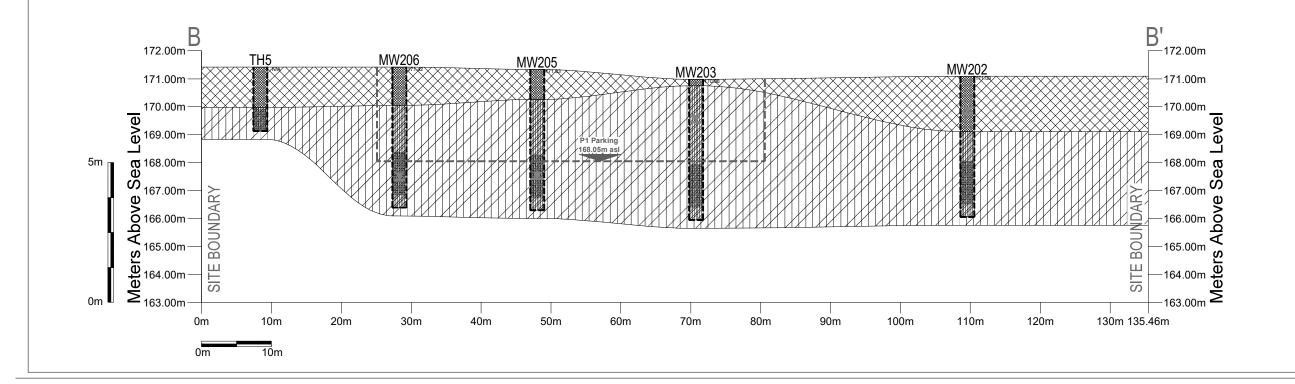


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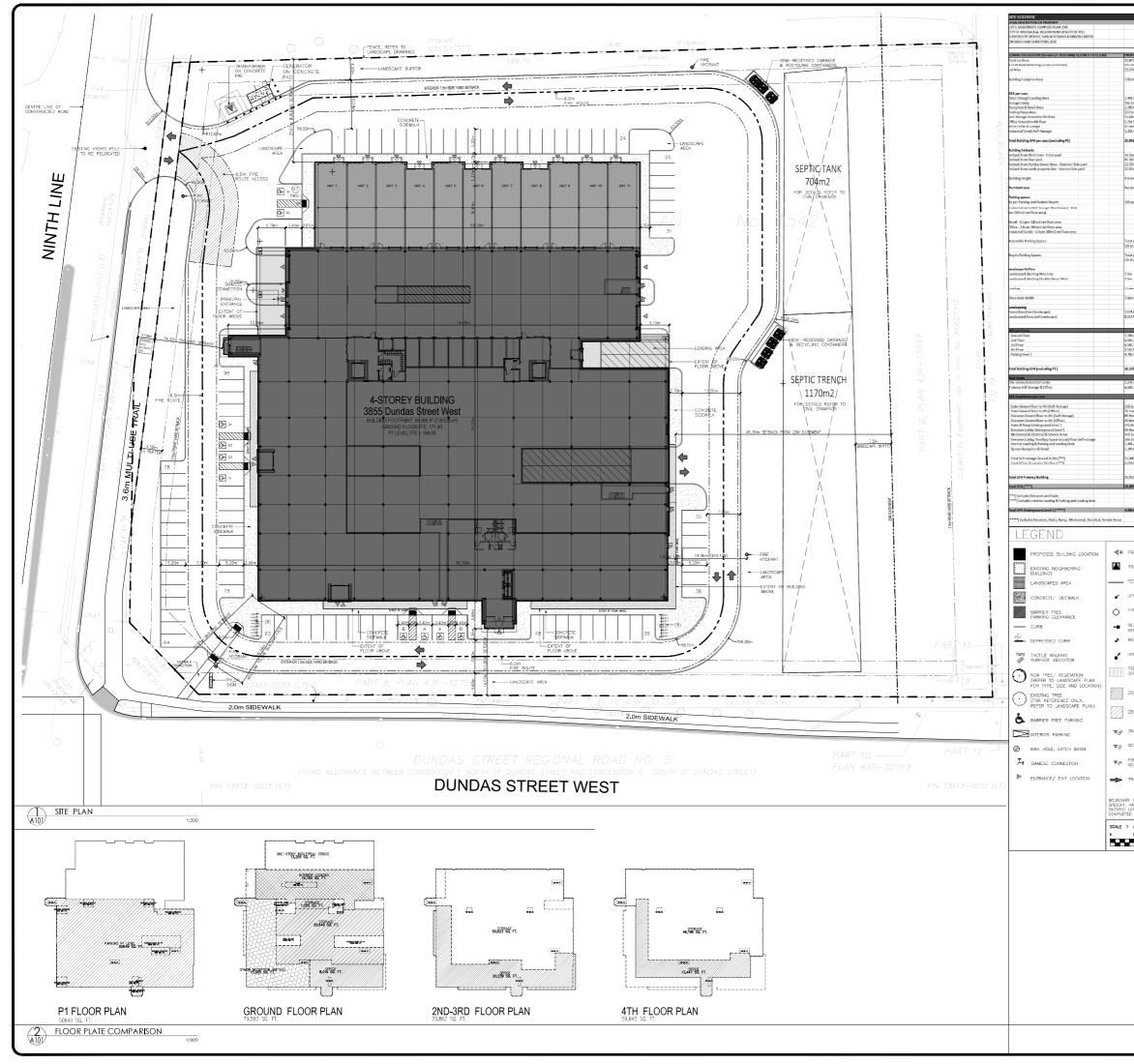
	PROJECT NO. FE-P 21-11439/40	FIGURE A4:	SHEET NO.
Ś.	DATE. 25 July 2023	SITE PLAN WITH CROSS SECTIONS	A4
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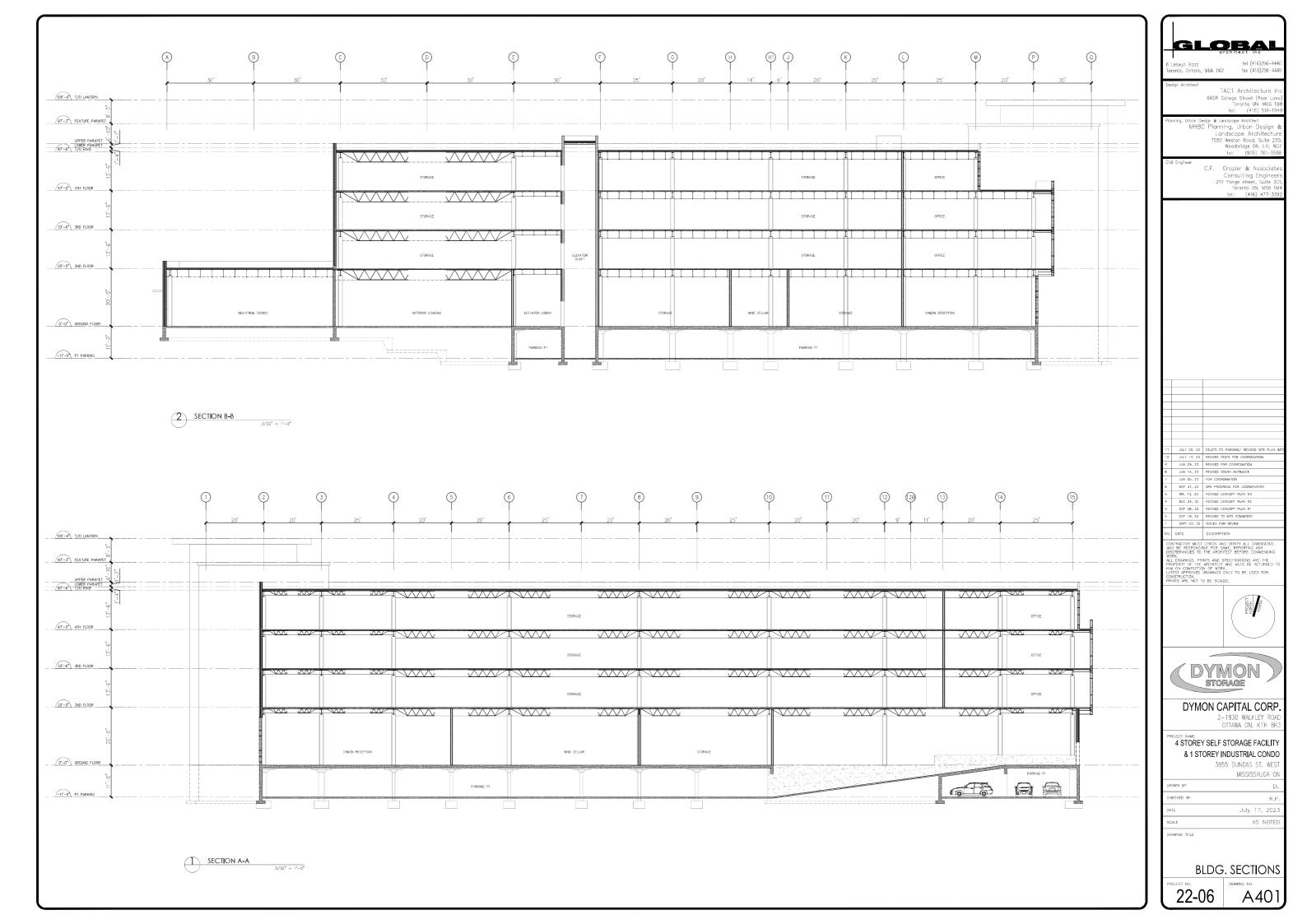


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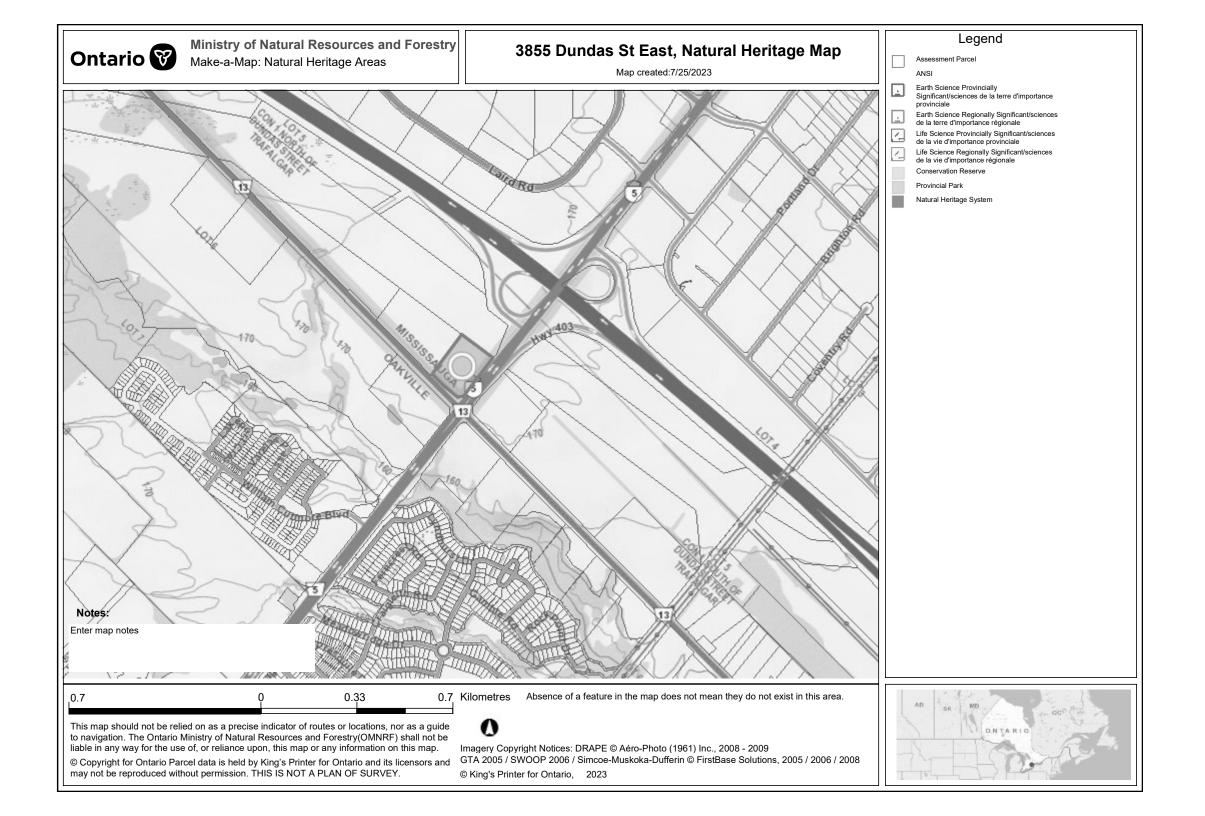


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BRAIN UNLINE BRAIN UPARING BRAING UPARING BRAIN	BRAIN UNLINE BRAIN UPARING BRAING UPARING BRAIN	BRAIN UNLINE BRAIN UPARING BRAING UPARING BRAIN	1.7sm 5.7sm 64.2sm	[3,656sf] [1,794sf] [15,760sf4			1.30% 1% 5.6%
Rate [27,854] Bio [21,854] PRINCIPAL ENTRANCE [21,854] TRANSFORMER [21,954] TEVEC & GATE [21,954] JTLITY POLE [21,954] REC HYDRAHT [21,954] SC (MEY UCH STANDARD, REFER TO ELECTRICAL) [21,954] DILARD PARKIT SENDIES FAIR ROUTE ACCESS DENOTES FAIR ROUTE ACCESS DICH FOR SIGN IRE FORTER SIGN INFR POUTE ACCESS DICH FORT SIGN IRAFIC DIRECTION ''MOBARION FROM SURVEY BY: MIN MOSTINAND CONSON LINEED DICH APPL 22, 2018 SNO SNO	Rate [27,854] Bio [21,854] PRINCIPAL ENTRANCE [21,854] TRANSFORMER [21,954] TEVEC & GATE [21,954] JTLITY POLE [21,954] REC HYDRAHT [21,954] SC (MEY UCH STANDARD, REFER TO ELECTRICAL) [21,954] DILARD PARKIT SENDIES FAIR ROUTE ACCESS DENOTES FAIR ROUTE ACCESS DICH FOR SIGN IRE FORTER SIGN INFR POUTE ACCESS DICH FORT SIGN IRAFIC DIRECTION ''MOBARION FROM SURVEY BY: MIN MOSTINAND CONSON LINEED DICH APPL 22, 2018 SNO SNO	Rate [27,854] Bio [21,854] PRINCIPAL ENTRANCE [21,854] TRANSFORMER [21,954] TEVEC & GATE [21,954] JTLITY POLE [21,954] REC HYDRAHT [21,954] SC (MEY UCH STANDARD, REFER TO ELECTRICAL) [21,954] DILARD PARKIT SENDIES FAIR ROUTE ACCESS DENOTES FAIR ROUTE ACCESS DICH FOR SIGN IRE FORTER SIGN INFR POUTE ACCESS DICH FORT SIGN IRAFIC DIRECTION ''MOBARION FROM SURVEY BY: MIN MOSTINAND CONSON LINEED DICH APPL 22, 2018 SNO SNO		[15,065sf]			
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0 10m			ILS (NEW LIGHT REFER TO ELECT ROLLARD HURO POLE PEDESTRIAN CRO PEDESTRIAN CRO PEMARCATON PA DENOTES PARTE REMOTES FIRE R DIE - WAY SIGN NO ENTRY SIGN NO ENTRY SIGN NO ENTRY SIGN NO PARKING SIG DO PARKING SIG REAFFIC DIRECTIO	INTED D LINES KOUTE ACCES ESS / IN			
			ILS (NEW LIGHT REFER TO ELECT SQLLARD WTORO POLE PERESTRIAN CRO PERESTRIAN CRO PERAFICATION FA DENOTES PAINTE DENOTES PAINTE DENOTES PAINTE SIGN AND ENTRY SIGN NO ENTRY SIGN SIGN NO ENTRY SIGN SIGN SIGN SIGN SIGN SIGN SIGN SIGN	INTED D LINES KOUTE ACCES ESS / IN			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			
			ILS (NEW LIGHT REFER TO ELECT KOLLARD NERO POLE PEDESTRIANI OR DEMOTES PARTE DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE R DEMOTES FIRE SIGN NO PARENTS SIGN	DISSING INTED DI LINES ROUTE ACCES ROUTE ACCES IN N N N N N N N N N N N N N N N N N N			

G	OBAL
6 Leswyn Road Toronto, Ontario, M	tel (416)256-4440 v6A 1K2 fax (416)256-4449
Design Architect Planning, Urban Des	TACT Architecture Inc 660R College Street (Rear Lone) Toronto ON, M6G 188 tel: (416) 516-1949 ign & Landscope Architect
MHBC Civil Engineer	Planning, Urban Design & Landscape Architecture 7050 Weston Road, Suite 230, Woodbridge ON. L4L 8G7 tel: (905) 761-5588
	C.F. Crozier & Associates Consulting Engineers 211 Yonge street, Suite 301, Toronto 0N. M5B 1N4 tel: (416) 477-3392
	DELETE P2 PARKING/ REVISED SITE PLAN INFO REVISED STATS FOR COORDINATION
8 JUN 14, 23	REVISED FOR COORDINATION REVISED SOUTH ENTRANCE
6 MAY 31, 23 5 APL 13, 23	FOR COORDINATION SPA PROGRESS FOR COORDINATION REVISED CONCEPT PLAN R3
3 OCT 28, 22	REVISED CONCEPT PLAN R2 REVISED CONCEPT PLAN R1
1 SEPT 02, 22	REVISED TO MTO COMMENTS ISSUED FOR REVIEW
	DESCRIPTION CHECK AND VERIFY ALL DIMENSIONS LE FOR SAME, REPORTING ANY THE ARCHITECT BEFORE COMMENCING
	TS AND SPECIFICATIONS ARE THE RCHITECT AND MUST BE RETURNED TO I OF WORK.
	PROFECT NORTH
	YMON
DYMC	DN CAPITAL CORP. 2-1830 WALKLEY ROAD OTTAWA ON. K1H 8K3
	SELF STORAGE FACILITY OREY INDUSTRIAL CONDO 3855 DUNDAS ST. WEST
DRAWN BY	MISSISSAUGA ON
CHECKED BY	R.P.
DATE	June 14, 2023 AS NOTED
DRAWING TITLE	
	SITE PLAN
PROJECT NO.	DRAWING NO.



79°45' 	or and a contraction of the second of the se
400 Esna Park Dr., #15 LaR 3K2 Tel: 905 475-7758 Fax: 905 475-7718	PROJECT NAME AND ADDRESS PROJECT NO. FIGURE: A7 HYDROGEOLOGICAL DATE Surficial INVESTIGATION July 2023 Geology Map. 3855 Dundas Street West, SCALE As shown



APPENDIX B – LOG OF BOREHOLES



Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023

	FISHE	R		_0G	С)F	BO	REI	101	E	NC). <u>M</u> W	/201	_ SHEI	<u>1 of 1</u>		
										NO.: FE-P 21-11439/40							
PRC	Geotechnical & Hydrogeological PROJECT NAME: Investigation									3855	Dund	as St.	Eas	st, Miss	issauga, ON		
										ATE:	Sep	tembe	er 13	th , 202	1		
	SOIL PROFILE	5			AMPLE					TING (SPT))▲	VAPOUR F	READING		- PIEZOMETER ORWELL		
(feet))EPTH (metres)	DESCRIPTION	STRATA PLOI	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	S⊦	ear s'		H (Kpa) 🛾	•	MOISTURE		NT (%) ●	CONSTRUCTION		
○ (feet) DEPTH ○ (metres)	GROUND SURFACE (m asl) FILL:	***	171.50														
2	Grey to Greyish brown silt, trace of clay, some gravel, asphalt, bricks and wood, moist			SS-1		12									ets Concrete		
				SS-2		16									blank PVC		
				SS-3		10											
8	FILL: Dark reddish brown silt, trace		169.06 /2.44	SS-4		18											
	clay, trace gravel, moist CLAYEY SILT TILL:		168.45 /3.05	SS-5		27											
	Reddish brown, trace of gravel, moist to very moist, very stiff to hard														Slotted Pipe		
				SS-6		26									2" SI		
16 5			166.47 /5.03	SS-7		44									4.57m bgs		
	End of Borehole 5.03m bgs		75.05														
20 6																	
²² —— 7																	
24																	
26 8																	
28																	
30 9																	
32 <u>–</u> – 10	Groundwater Depth (m): on comple	l etion:	L : Dry	/ On	Sep	temb				2.81m							
							DR/	AWN:	AM			OGGED:	SP		CHECKED: CW		

									BOREHOLE NO. MW202 SHEET. 1 of 1 NO.: FE-P 21-11439/40							
	Geotechnical & Hydrogeological PROJECT NAME: Investigation													st Mis	sissauga, ON	
													eptember 1		-	
	וואט	LLING METHOD: Marooka, Solid SOIL PROFILE	Ste	em	s	AMPLE	S				ATE:		VAPOUR READIN			
			N PLOT	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	VALUE				ing (Si io 8			60 80	PIEZOMETER ORWELL CONSTRUCTION	
(feet)	UET IN (metres)	DESCRIPTION	STRATA PLOT		NUM	Type	۸ "N"			IRENGT	H (Kpa 0 16		MOISTURE CON 10 20	ENT (%) ● 30 40		
*) 		GROUND SURFACE (m asl) FILL: Reddish brown sandy silt, trace		171.09	SS-1		11									
2	1	clay, gravel and roots, moist			SS-2		10								Pellets Concrete	
4					SS-3		6								blank PVC -	
6	2	CLAYEY SILT TILL:		169.11 /1.98			0									
8		Reddish brown, some sand, trace gravel, moist, very stiff to hard			SS-4		25									
10	3 3				SS-5		42									
12-	 														Slotted Pipe	
 14	4				SS-6		69			/						
 16	5			166.06 /5.03	SS-7		44								_ ↓ <u>[200</u>] 4.57m bgs	
		End of Borehole 5.03m bgs		75.05												
20-	6															
22	7															
24																
26	8															
_																
28	9															
30																
	—10·	Groundwater Depth (m):on compl	etion	: 4.5	7m b	gs/	On S	Septe DR/	mber AWN:	29, AM	2021	: 1.3	3m LOGGED: SP	• •	CHECKED: CW	

	Г	FISHE	D) [_0G	; Of		BO	REH	101			10. <u>MW20</u> 3	<u> </u>	ET. <u>1 of 1</u>	
	ENGINEERING PROJECT N								NO.: FE-P 21-11439/40							
	Geotechnical & Hydrogeological PROJECT NAME:Investigation)N: 3	3855	Dur	ndas St. Ec	ıst, Miss	sissauga, ON	
		LING METHOD: Marooka, Solid						DRI	LLIN	G D/	ATE:	S	eptember 1	3 th , 202	21	
•		SOIL PROFILE	oT			SAMPLES					ring (SF 50 8(VAPOUR READIN 20 40	IG (ppm) □ 60 80	PIEZOMETER ORWELL	
_ E	res)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE			RENGT	H (Kpa)		MOISTURE CON		CONSTRUCTION	
○ (feet)	ر (metres) ر	GROUND SURFACE (m asl)		170.98						0 12		0			╡	
2		FILL: Reddish brown sandy silt, trace of clay, gravel and roots, moist		170.75 /0.23	SS-1		27								ts Concrete	
4	1 1 1 	CLAYEY SILT TILL: Reddish brown, some sand and gravel, moist, stiff to hard			SS-2		9								PVC	
6	2				SS-3		17									
8					SS-4		11									
10	3 3				SS-5		34									
12															otted Pipe -	
	4 4									\backslash					2" Slotted	
- " 															4.57m bgs	
16	5	End of Borehole		165.95 /5.03	SS-6		52	-							Ŭ	
18		5.03m bgs														
20	6															
22	7															
24																
26	8															
28																
30-	9 															
32																
_	10	Groundwater Depth (m): on compl	etion	: Dry	/ On	Septe	emb		1 9, 20: AWN:		1.53m		LOGGED: SP	<u>í I</u>	CHECKED: CW	
L																

	Г		D)	_0G	; ()F	BOI	REH	101		N	MW204	SHEE	т 1 of 1		
										BUREHULE NO. <u>MW204</u> SHEET. <u>1 of 1</u> NO.: FE-P 21-11439/40							
	Geotechnical & Hydrogeological PROJECT NAME: Investigation								CATIO	DN: 3	3855	Dur	ndas St. Eas	st, Missi	ssauga, ON		
		LING METHOD: Marooka, Solid						DRILLING DATE: September 13 th , 2021									
-		SOIL PROFILE	TO								ring (Si 10 8		VAPOUR READING 20 40 6	G (ppm) □ 0 80	PIEZOMETER ORWELL		
, (feet) DFDTH	JEF I⊡ (metres)	DESCRIPTION	STRATA PLOI	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE				H (Kpa) 0 16		MOISTURE CONTE 10 20 3	ENT (%) ● 0 40	CONSTRUCTION		
O (feet)	<u>ڭ</u> 1	GROUND SURFACE (m asl) FILL:	***	170.41													
2		Reddish brown sandy silt, trace of clay, gravel, topsoil and topsoil mix soils,		× × × ×	SS-1		8								Concrete		
4	- - 1 - -	Layer of topsoil below 1.07m		× 169.04 /1.37	SS-2		6								Jank PVC		
6	2	CLAYEY SILT TILL: Reddish brown, some sand and gravel, moist, stiff to very stiff			SS-3		14								- 2" blan		
8					SS-4		23										
10	3 3	SHALE:		167.21 /3.20	SS-5		100+										
12	 	Reddish brown, dry hard		-											Slotted Pipe		
 14	4 4			-											- 2" Slot		
16		End of Borehole		165.69 /4.72	SS-6		100+								4.57m bgs		
	5 	4.72m bgs															
18																	
20	6 																
22																	
24	7 																
26	8 																
28																	
30	9 																
32																	
	—10 	Groundwater Depth (m):on compl	etion	: Dry	/ On	Sep	temb	er 29 DRA), 20 \WN:).71m	 ו	LOGGED: SP	· · · · ·	CHECKED: CW		

Γ	FISHE	R	l	_0G	C)F	BOREH	101	Ē	NO	Shee	T. <u>1 of 1</u>
	ENGINEERI	N G				CT N	NO.: FE-F	2 ⁻	1–11439	9/40		
PF	Geotechnical & H OJECT NAME:Investigation	lydro	ogeo	logic	al		LOCATIO)N: 3	3855 Di	undas St. Ea	st, Missi	ssauga, ON
	RILLING METHOD: Marooka, Solid						DRILLING	3 Di	ATE:	September 13	3 th , 2021	1
	SOIL PROFILE	Ц			AMPLE		PENETRATION 20 40		⊓NG (SPT)▲ 0 80		G (ppm) 🗆 60 80	
o (feet) DEPTH (matres)	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	SHEAR ST	RENGT	н (Кра) ф	MOISTURE CONTI		PIEZOMETER ORWELL CONSTRUCTION
○ (feet)	GROUND SURFACE (m asl) FILL:	***	171.33									
2	Reddish brown sandy silt to grey clayey sandy silt, trace of gravel, moist			SS-1		36						MANA MANA Provide Prov
	CLAYEY SILT TILL: Reddish brown, some sand		170.26 /1.07	SS-2		14						
6	and gravel, moist, stiff to very stiff			SS-3		29						– 2" blank PV
8				SS-4		24						
	3			SS-5		29						
				33-0		29						Slotted Pipe -
	1											2" Slotte
												4.57m bgs
	End of Borehole		166.30 /5.03	SS-6		23						
	5.03m bgs											
20	5											
22												
	7											
24												
26 {	3											
28												
30												
32	o Groundwater Depth (m):on comple	etion:	Dry	/ On	Sep	temb	er 29, 202		 3.91m			
							DRAWN:	AM		LOGGED: SP		CHECKED: CW

	Г	FISHE	R		_0G	; ()F	BO	REI	101	_E	NO. <u>MW</u>	/ <u>206</u> SH	HEET. <u>1 of 1</u>
	Ľ		NG	i			CT N	10.:	FE-	P 2'	1–1143	39/40		
	PRC	Geotechnical & H DJECT NAME: Investigation	ryur	oyec	nogic									ississauga, ON
	DRI	LING METHOD: Marooka, Solid	Ste	em				DRI	LLIN	G D	ATE:	Septembe	er 13 th , 2	021
		SOIL PROFILE	LOT	EI EV							TING (SPT). 50 80		READING (ppm) 0 60 80	
et))EP IH (metres)	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE				H (Kpa) 🖷 20 160		CONTENT (%)	
0 (feet)	DEP IH 0 (metres)	GROUND SURFACE (m asl) FILL:	×××	171.42										
2		Reddish brown sandy silt, trace of clay and gravel, moist			SS-1		9							by Concrete - Concrete -
4				170.05 /1.37	SS-2		5							
6		CLAYEY SILT TILL: Reddish brown, some sand and gravel, moist, stiff to hard		/1.3/	SS-3		14							- 2" blank PV
8 -					SS-4		24							
10					SS-5		35	-						
12 <u>-</u>														Slotted Pipe
14— 								-						4.57m bgs
	5			166.39 /5.03	SS-6		31							4.57 m bgs
		End of Borehole 5.03m bgs		ľ										
20														
22														
26	8													
28														
	- - - - - - 9													
-														
32—	E 10	Groundwater Depth (m): on comple	l ation	• Dr:		Son	temb	er 29		21.	4.03m			
				ر ال . ال	7 UI	Jeh	temp		9, 20 AWN:	AM	T.UJIII	LOGGED:	SP	CHECKED: CW

	FICUE	D		00)F	BOF	?Fŀ	101	F			1207		
JL	FISHE ENGINEERI	NG					10.: F						1207	_ SHE	ET. <u>1 of 1</u>
PRC	Geotechnical & H DJECT NAME:Investigation	Hydro	geo	logic	al		LOC	ATIC)N: 3	3855	Dui	ndas St	. Eas	t, Miss	issauga, ON
	LLING METHOD:Marooka, Solid	Ster	m				DRIL	LIN(G DA	ATE:	S	eptemb	er 14 ¹	<u>th</u> , 202	.1
	SOIL PROFILE				ample 		PENET 20			1NG (SF 0 8		VAPOUR 20	READING 40 60		
(feet))EPTH (metres)	DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE		AR ST		Н (Кра)) 🛖	MOISTUR		NT (%) ●	- PIEZOMETER ORWELL CONSTRUCTION
⊖ (feet) □ □ □ (metres)	GROUND SURFACE (m asl)		170.89												
2	FILL: Reddish brown to brown to grey sandy silt, trace of clay, gravel and topsoil,			SS-1		7									ts Concrete
	Layers of topsoil below 1.83m, moist			SS-2		20									ank PVC
				SS-3		8									- 2" blank PVC
8 4 4	CLAYEY SILT TILL: Reddish brown, trace sand		168.45 /2.44	SS-4		15									
10 - 3	and gravel, occasional boulders and rocks moist, very stiff to			SS-5		24									
12	hard			33-5		24									Slotted Pipe -
14 4															- 2" Slott
			165.90	SS-6		100+									4.57m bgs
	End of Borehole 4.99m bgs		/4.99												
18															
20 - 6															
22															
- <u>-</u> 7 - <u>-</u> 7															
24— <u>+</u> 															
26 _ 8															
28															
20 9															
30															
32															
10	Groundwater Depth (m): on comple	etion:	Dry	/ On	Sep	temb	er 29, DRA			3.67m	ו] ו	LOGGED		I	CHECKED: CW
									7 1111						

Г	_														
		FISHE ENGINEERI	R		_0G	(()F	BORE	HOI	<u> </u>	NO. <u>TH1</u>	SHEE	T. <u>1 of 1</u>		
							CT N	10.: FE-	P 2'	1–11439,	/40				
	PRC	Geotechnical & H DJECT NAME: Investigation	lydr	ogeo	logic	al		LOCATI	ON: 3	3855 Dui	ndas St. Eo	ist, Missi	ssauga, ON		
		LLING METHOD:Marooka, Solid	Ste	em				DRILLIN	G D,	ATE: S	eptember 1	4 th , 202 ⁻			
		SOIL PROFILE	L L			AMPLE				⊓NG (SPT)▲ 0 80	VAPOUR READIN 20 40	IG (ppm) □ 60 80			
	(6	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	'N" VALUE			<u>ю ор</u> Н (Кра) ф	MOISTURE CONT		PIEZOMETER ORWELL CONSTRUCTION		
⊙ (feet) DEPTH	o (metres)	GROUND SURFACE (m asl)	STI				*	40	<u>30 12</u>	20 160	10 20	30 40			
		FILL: Reddish brown sandy silt, trace of clay, gravel and roots,			SS-1		12						ank PVC		
	1 1 1	Layers of topsoil below 1.85m, moist			SS-2		10				● ^{14.0}		- 80mm blank PVC		
	-				SS-3		9								
	- - 2 -	CLAYEY SILT TILL: Reddish brown, some sand, moist, stiff													
8	End of Borehole 2.28m bgs														
10	2.28m bgs														
12	4														
14	- - -														
16															
	5 														
18	 														
20	- 														
22	 														
	7														
24	-														
26															
	- 														
28															
30	9 														
32	 														
Ť	- —10	Groundwater Depth (m): on comple	l etion	l : Dry											
L								DRAWN:	AM		LOGGED: SP		CHECKED: CW		

ſ	-				_0G	·										
	Ľ	FISHE ENGINEERI	N G								 1143		<u> </u>	2 :	SHEE	T. <u>1 of 1</u>
		Geotechnical & H DJECT NAME:Investigation					<u> </u>						s St.	East,	Missi	ssauga, ON
		LLING METHOD: Marooka, Solid	Ste	em				DRII	LLIN	G D/	ATE:	Septe	mber	14 th ,	2021	
L		SOIL PROFILE		1	s	AMPLE					ING (SPT)▲			ADING (ppn		
т	es)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE		EAR ST	RENGT	<u>0 80</u> H (Kpa) +	мо		CONTENT (%	-	PIEZOMETER ORWELL CONSTRUCTION
⊖ (feet) ⊢ DEPTH	0 (metres)	GROUND SURFACE (m asl)	N N					4	08	0 12	0 160		0 20	30	40	, <u> </u>
2	-	FILL: Reddish brown sandy silt, trace of clay, gravel and roots, moist			SS-1		10									ank PVC -
4	1 1 1				SS-2		38									
	- - - - - 2	CLAYEY SILT TILL: Reddish brown, trace of sand			SS-3		26						13.0			
	3	and gravel, moist, very stiff End of Borehole 2.28m bgs														2.28m bgs
	5															
24 24 26 28 28	- 7 - 7 - 8 - 8															
30 30 32 32		Groundwater Depth (m):on comple	etion	: Dry												
								DRA	WN:	AM		LOG	GED: S	SP		CHECKED: CW

-															
		FISHE ENGINEERI	R		_0G	С)F	BORE	HOl	_E ı	NO. <u>TH3</u>	SHEE	T. <u>1 of 1</u>		
							CT N	10.: FE-	•P 2′	1-11439	/40				
	PRC	Geotechnical & F DJECT NAME: Investigation	∣ydr	ogeo	logic	al		LOCATI	ON: 3	3855 Du	ndas St. Ea	st, Missi	ssauga, ON		
		LLING METHOD:Marooka, Solid						DRILLIN	IG D <i>i</i>	ATE: S	eptember 14	4 <u>th</u> , 202 ⁻	1		
L		SOIL PROFILE	_		S	AMPLE	S			⊓NG (SPT)▲	VAPOUR READING	G (ppm) 🗆			
Т	п es)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	SHEAR S	TRENGT	i0 80 H (Kpa) +	20 40 6 MOISTURE CONT	ENT (%) ●	PIEZOMETER ORWELL CONSTRUCTION		
⊖ (feet)) UET IN O (metres)	GROUND SURFACE (m asl)	S					40	80 12	0 160		<u>30 40</u>			
2		FILL: Reddish brown sandy silt, to dark brown silty sand, trace of			SS-1		23						ank PVC		
4	1 1	clay, gravel, roots, topsoil and topsoil mixed soils, moist			SS-2		8								
		CLAYEY SILT TILL:			SS-3		20				20.0				
6	2	Reddish brown, trace of sand and gravel, very stiff			33-5		20	Ī							
8															
10															
12															
14 —															
16	5 5														
18															
20	6														
22	7														
24															
26	8														
28															
30															
32	10	Groundwater Depth (m): on compl	etion	 : Drv											
			5 . 01	y ات .				DRAWN:	АМ		LOGGED: SP		CHECKED: CW		

ſ																
		FICHE	P) [_0G	С)F	BOI	REF	HOL	E	NO	Tł	-14	_ SHE	ET. <u>1 of 1</u>
		FISHE	NG		PR	OJE	CT N	10.:	FE-	P 21	-1143					
	PRC	Geotechnical & H DJECT NAME:Investigation	∣ydr	ogeo								•	s St.	Eas	t, Mis	sissauga, ON
		LLING METHOD: Marooka, Solid	Ste	em				DRI	LLIN	g da	ATE:	Septe	embe	r 14	th , 202	21
I		SOIL PROFILE			s	AMPLE	S				ING (SPT)	VA			(ppm) 🗆	T
Ξ	es)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	SH	EAR ST		H (Kpa) 🖶	м		CONTEN	NT (%) ●	— PIEZOMETER ORWELL CONSTRUCTION
⊖ (feet) 	O (metres)	GROUND SURFACE (m asl)	S					4	08	0 12	0 160		0 2	0 30) 40	
2		FILL: Reddish brown sandy silt, to dark brown silty sand, trace of			SS-1		7									ank PVC
4	1 1 1	clay and gravel, moist			SS-2		16						● ^{15.0}			
6	 2	CLAYEY SILT TILL: Reddish brown, trace of sand and gravel, moist, hard			SS-3		32									
8 -	End of Borehole 2.28m bgs															
10	2.28m bgs															
12 — 																
14	- 4															
 16																
	5 															
18																
20	6 6															
22	 															
	7 7															
24																
26	- 															
28																
	9															
30 <u> </u>																
32																
	10	Groundwater Depth (m): on comple	etion	: Dry	,			DRA	WN:	AM	•	LOC	GGED:	SP	•	CHECKED: CW
								_								

[_		_												
	Ľ	FISHE ENGINEERI	R									Shee	T. <u>1 of 1</u>		
-		Geotechnical & H DJECT NAME: Investigation								1—11439, 3855 Dur		ast, Miss	issauga, ON		
-		_LING METHOD: Marooka, Solid						DRILLIN	IG D/	ATE: S	eptember 1	14 ^{<u>th</u>, 202}	1		
L		SOIL PROFILE			S	AMPLES	5			ING (SPT)▲	VAPOUR READI				
_ 7	es)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	SHEAR S		Н (Кра) ╋	20 40 MOISTURE CON		PIEZOMETER ORWELL CONSTRUCTION		
⊖ (feet) └┤ DFPTH	O (metres)	GROUND SURFACE (m asl)	s S					40	<u>50 12</u>	0 160	10 20	30 40			
2		FILL: Reddish brown sandy silt, trace of clay and gravel, moist			SS-1		15	^					ank PVC		
4	1 1				SS-2		9				● ^{22.0}		Dum bl		
6	 	CLAYEY SILT TILL: Reddish brown, trace of sand			SS-3		16						Silica		
8-8	^	and gravel, very stiff End of Borehole											2.28m bgs		
10	2.28m bgs														
14 —															
16 —	5														
20	6														
22															
24	7 7 														
26	8														
28	 														
30	9 9														
32	 														
	- 	Groundwater Depth (m): on compl	l etion	 : Dry	,			DRAWN:	AM		LOGGED: SF	 >	CHECKED: CW		
L															

-																
	Е	FISHE	R		_0G	C)F	BOF	REF	HOL	E	NC	. <u> </u>	H6	_ SHEE	T. <u>1 of 1</u>
		ENGINEERI	NG		PR	OJE	CTN	10.: I	-E-H	P 21	-114	39/4	0			
	PRO	Geotechnical & H DJECT NAME:Investigation	lydr	ogeo	logic	al		LOC	ATIC)N: 3	855	Dund	as St.	Eas	t, Miss	issauga, ON
		LLING METHOD:Marooka, Solid	Ste	em				DRIL	_LIN(G DA	ATE:	Sep	tembe	er 14 ¹	th , 202	1
L		SOIL PROFILE			s	AMPLE					ing (SPT)		VAPOUR F			
	s)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	TYPE NUMBER	Type NO.	"N" VALUE	2(She			<u>0 80</u> H (Kpa) H		20 4 Moisture	0 60 CONTEN	•	PIEZOMETER ORWELL CONSTRUCTION
⊖ (feet) DFPTH	our III	GROUND SURFACE (m asl)	ST				2	40) 8	0 12	0 160	+	10 2	0 30	40	- ,
	0	FILL: Reddish brown to brownish grey silt, trace, of clay, gravel, shale			SS-1		16									ank PVC
	1 1	and top soil, moist			SS-2		4						12.0			H- 80mm blank PVC
6	2				SS-3		9									
8-	-	End of Borehole	****													↓ 2.28m bgs
	2.28m bgs															
10	End of Borehole 2.28m bgs 2.28m bgs															
12																
14																
16																
	5 															
18	-															
	6															
20	-															
22	_															
	7 															
24	-															
26	- 8															
28	_															
30-	9 															
	-															
32	_ 10	Groundwater Depth (m):on comple		· Dro												
		Goundwater Depth (m): on comple	suon	. יזע אזע				DRA	WN:	АМ		L	OGGED:	SP		CHECKED: CW

DRILLING METHOD: D-50, Solid Stem DRILLING DATE: August 19, 2020 SOL PROFILE SOL PROFILE DESCRPTION SELES STREACH (res) OPECAGE (res) <	PR	OJECT NAME: Hydrogeological	NĞ	PRO	JECT N	0.:		20-10464	_{D.} BH101(MW) Dundas St. E		
SUL_PROFILE SMPLIS PESTRETION W-PUR ESTING (pm) W-PUR ESTING (pm) PESTRETIP OR SUL_PROFILE PESTRETIP OR SUL_PROFILE		ILLING METHOD: D=50 Solid S	Stem			-					
8 6 CRONN SUPPACE (m cm) m cm 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1				S		<u> </u>					
8 6 5 0	, 프 (se		ELEV. DEPTH	LAB ID:	YPE NUMBER	N VALUE	SHEAR STR	ENGTH (Kpa) 🖶	MOISTURE CON	NTENT (%) 🔵	PIEZOMETER OR WELL CONSTRUCTION
16 5.00 5.00 5.00 18 16.37 16.37 18 1 19 16.37 10 1 10	0 0 0 2 1 4 1 4 1	GROUND SURFACE (m asl) TOPSOIL/DISTURBED SOIL FILL: clayey silt, trace of gravel, red with grey pieces, moist, stiff. CLAYEY SILT TILL: trace of gravel, red brown,	171.40	- - - - - - - - - - - - - - - - - - -	SS-1 SS-2 SS-3 SS-4 3	6 2.3 56					
L (Groundwater Depth (m); on completion; dry		End of Borehole			SS-6 5	56					4.57m bgs

	JECT NAME: Hydrogeologi	RINO	B PR	OJECT	NO		HOLE 20-1046	64	<u>02(MW)</u> as St. E.		
			-		-						c, on
	LING METHOD: D-50, Sol Soil profile	id Ster	n I	SAMPLES			DATE: A	-			
-		LOT	, .		VALUE		i testing (SPT 0 60 80	· .	APOUR READING 20 40 6	G (ppm) 🗆 0 80	PIEZOMETER OR
es) H	DESCRIPTION	STRATA PLOT	TH 🙄	TYPE NUMBER	"N" VAL		IRENGTH (Kpa) 10 120 160		OISTURE CONTI 10 20 3	ENT (%) 🔵 60 40	WELL CONSTRUCTION
0 (metres)	GROUND SURFACE (m asl) FILL/DISTURBED SOIL FILL: clayey silt, trace of gravel, some cobbles, red brown,		22	SS-1	24						KKKK KKKK MOMOM
	slightly moist, some ash, debris. CLAYEY SILT:	1.2	2/ .00	SS-2	15						いたいで、 「 ここのでき」 「 Pellets 一 ush Mount
	grey to brown, moist, firm to very stiff.	2.2	9/ 93	SS-3 SS-4	6 22						50mm blank PVC
	CLAYEY SILT TILL: trace of gravel, red brown, moist, very stiff to hard.			SS-5	33						- 50mm Slotted Pipe - 50
	End of Borehole	5.0 166	3/ .19	SS-6	21						4.57m bgs
	BH dry on completion.										
2	Groundwater Depth (m): on ca		n' dry								
						DRAWN:	BL	LO	GGED: RR		CHECKED: CW

L.	DJECT NAME: Hydrogeological	R NG	PROJECT	NC	- BOREHOLE NO. 0.: FE-Р 20-10464 LOCATION: 3855 Du	<u>BH103(MW)</u> SHEET ndas St. E., Oakvill	
				+	DRILLING DATE: Augus		
DRI	LLING METHOD: D-50, Solid S SOIL PROFILE	Stem	SAMPLES			VAPOUR READING (ppm)	
t) TH tres)	DESCRIPTION LEVELS	ELEV. DEPTH (m)	LAB ID: TYPE NUMBER P.I.D. Reading	"N" VALUE	20 40 60 80 SHEAR STRENGTH (Kpa) ♣ 40 80 120 160	20 40 60 80 MOISTURE CONTENT (%) ● 10 20 30 40	PIEZOMETER OR WELL CONSTRUCTION
$(\mathbf{y}_{2}, \mathbf{y}_{2}) = 0 + \mathbf{H}_{1} + \mathbf{H}_{1} + \mathbf{H}_{1} + \mathbf{H}_{1} + \mathbf{H}_{2} + \mathbf{H}$	GROUND SURFACE (m asl) TOPSOIL/DISTURBED SOIL FILL: clayey silt, trace of gravel, brown, moist. CLAYEY SILT TILL: trace of gravel, red brown, moist, very stiff to hard.	171.25	Image: sign of the second s	21 18 25 49 29 28			
	Groundwater Depth (m): on compl	etion:	dry		DRAWN: BL	LOGGED: RR	CHECKED: CW

	ROJECT NAME: Hydrogeolog	RING	PR	OJECT	NO.	BOREHOI : FE-P 20-	10464	. <u>BH104(MW)</u> undas St. E		
			-							
DF	RILLING METHOD: D-50, So	lid Sten	ו ו	0.000		DRILLING DAT	E: Augu	st 19, 202	0	
	SOIL PROFILE	LOT		SAMPLES	щ	PENETRATION TESTIN 20 40 60		VAPOUR READI 20 40	NG (ppm) 🗆 60 80	PIEZOMETER OR
. = Î	DESCRIPTION	STRATA PLOT	H 🛱	TYPE NUMBER P.I.D. Reading	"N" VALUE	SHEAR STRENGTH		MOISTURE CON		WELL CONSTRUCTION
⊖ (feet) DEPTH		171.3			-	40 80 12	0 160	10 20	30 40	
2	FILL: sandy silt, brown to grey, slightly moist.	0.61	4	SS-1	14					
	CLAYEY SILT TILL:			SS-2	20					Contraction Contraction
	trace of gravel, red brown, stiff to hard, occasional sand seams.			SS-3	10					비 '비아프라이 윈드니
	2			33-3	10					ank PVC
8				SS-4	26					50mm blank PVC
	3									
				SS-5	33					Slotted Pipe
2 — [— []	4									50mm
4										
	5	166 /5.0	37	SS-6	26					4.57m bgs
	End of Borehole	/5.0	3							
	⁶ BH dry on completion.									
2										
	7									
	8									
	9									
	10									
	Groundwater Depth (m): on c	ompletior	: dry			DRAWN: BL		LOGGED: R	R	CHECKED: CW

		DJECT NAME: Geotechnical Inve	ID.	<u> </u>	ROJI		NC).:	BORE FE-P	18–	908	9				<u>2 of 5</u>
		LLING METHOD: Solid Stem						LOCATION: 3855 Dundas St East, Mississauga ON DRILLING DATE: 26 October, 2018								
L		SOIL PROFILE			5	SAMPLE	s	_ P	PENETRATION TESTING (SPT) VAPOUR READING (ppm							
	rres)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	NUMBER	ТҮРЕ	"N" VALUE		20 44 SHEAR ST 40 80	RENGTI			MOISTURE	0 60 CONTENT	80 (%) () 40	PIEZOMETER OR WELL CONSTRUCTION
⊖ (feet) □	O (metres)	GROUND SURFACE (m asl)	~~~~~	100.10				╀		<u>, 12</u>						
2		FILL: Clayey silt, trace shale fragments, reddish brown, moist, loose.			1	SS	7									
4	1 1 	Silty clay, brown to grey, trace sand seams, moist, brown sand layers at 4'		98.58/	2	SS	5									VC
6 —	2	FILL: Silty clay, organics, black, moist, soft.		1.52 98.27/ 1.83	3	SS	3									2" blank PVC
8		CLAYEY SILT TILL: Trace gravel, limestone,			4	SS	19	,								Provenski Provenski Provenski Bento
10 — — 12 —	3 - -	and shale pieces, reddishbrown, moist, very stiff.			5	SS	31	_								
14	4	Gray silty sand, silty clay at 6'.														
16	5	Greyish brown below 15'.			6	SS	30)								Led Pipe
18 — — 20 —	6	Redish brown clayey silt with weathered shale														
 22		complex at 20' very dense.		93.39/ 6.71	7	SS	83	\$ 								6.10
 24	7 7	End of Borehole														
 26																
 28																
 30	9															
 32																
	—10	Groundwater Depth (m): On Comple	tion:	L Dry	. On	1 2 No	ov 2	<u>201</u>	18: 5.10r	<u></u>			LOGGED:	DL		CHECKED: FF

		DJECT NAME: Geotechnical Inve	ID.	<u> </u>	ROJI		NO	0.:	BORE FE-P	18–	908	9				<u>4 of 5</u> issauga ON
		LLING METHOD: Solid Stem	Jug										Dctober,			
l	DINI	SOIL PROFILE	S		ENETRATION				VAPOUR F							
	ULT III (metres)	DESCRIPTION	strata plot	ELEV. DEPTH (m)	NUMBER	TYPE	"N" VALUE	א ארער	20 4 SHEAR S1 40 8		Н (Кра)) 🛖	MOISTURE	<u>0 60</u> CONTEN 0 30		PIEZOMETER OR WELL CONSTRUCTION
⊖ (feet) 	0 (met	GROUND SURFACE (m asl) FILL:		100.35				1		0 12	.0 10					+
	_	Clayey silt, trace gravel, shale pieces, reddish brown silty sand, sand pocket		99.89/ 0.46	1	SS	28	3								
4	1 1 	below 1.5', compact			2	SS	13	3								/C ZOPYOPYOPYOP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	2	CLAYEY SILT TILL: trace shale fragments, reddish brown, moist, gray			3	SS	15	5								blank PVC
8		at uper 2', stiff to hard. Boulder at 8.5'			4	SS	30	0								HONON
10 — — 12 — —	3 	Greyish brown at 11'			5	SS	29	9								Control of the second of
	5				6	SS	31	-1								ted Pipe
18 — — 20 —	6	Greyish brown below 20'														
				94.80/ 6.55	7	SS	32	2								6.10
22 — — 24 —	7 7	End of Borehole		0.00												
 26	- - - - 8															
 28																
30 -	9															
32 — 																
	10	Groundwater Depth (m): On Comple	tion:	Dry.	On	2 N	ov 2	201	8: 1.67r	n.			LOGGED:	DL	-	CHECKED: FF

APPENDIX C – GRAIN SIZE DISTRIBUTION ANALYSES





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East

Client:	Dymon Group of Companies	F.E. Job #:	21-7241A
Address:	2-1830 Walkley Road Pro	ject Name:	Infiltration Tests
	Ottawa, ON	Project ID:	FE-P 21-11439
	K1H 8K3 Data	e Sampled:	14-Sep-2021
Tel.:	Date	e Received:	17-Sep-2021
Email:	Date	e Reported:	24-Sep-2021
Attn.:		Location:	3855 Dundas Street I

Certificate of Analysis

Analyses	Matrix	Quantity	Date Extracted	Date Analyzed	Lab SOP	Method Reference
Moisture Content	Soil	6	N/A	17-Sep-21	Support Procedures F-99	Carter (1993)
Grain Size	Soil	6	N/A	21-Sep-21	Grain Size F-28	ASTM D6913-04

Fisher Environmental Laboratories is accredited by CALA (the Canadian Association for Laboratory Accreditation Inc.) for specific parameters as required by Ontario Regulation 153/04. All analytical testing has been performed in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act published by Ontario Ministry of the Environment.

CHEMICAL PA esociation pr. CHARTERED Ronggen (Roger) Lin Authorized by: CHEMIST Roger Lin, Ph. D., C. Chem Laboratory Manager

Analysis Requested:	Moisture Conter	Moisture Content, Grain Size								
Sample Description:	8 Soil Sample(s)	8 Soil Sample(s)								
	21-7241-1	21-7241-3	21-7241-4	21-7241-5	21-7241-6	21-7241-8				
Parameter	TH1	TH2	TH3	TH4	TH5	TH6				
	0.75-1.20m	1.50-1.95m	1.50-1.95m	0.75-1.20m	0.75-1.20m	0.75-1.20m				
Geo Moisture Content (%)	14	13	20	15	22	12				

Certificate of Analysis

QA/QC Report

Parameter	Blank	RL	LCS	AR	Duplicate AR	
rarameter			Recov	ery (%)	RP	D (%)
Geo Moisture Content (%)	<0.1	0.1	100	70-130	4.9	0-20

LEGEND:

RL - Reporting Limit

LCS - Laboratory Control Sample

AR - Acceptable Range

RPD - Relative Percent Difference

Analysis Requested:	Moisture Conter	nt, Grain Size										
Sample Description:	8 Soil Sample(s)	8 Soil Sample(s)										
1												
	21-7241-1	21-7241-3	21-7241-4	21-7241-5	21-7241-6	21-7241-8						
Parameter	TH1	TH2	TH3	TH4	TH5	TH6						
	0.75-1.20m	1.50-1.95m	1.50-1.95m	0.75-1.20m	0.75-1.20m	0.75-1.20m						
Grain Size (%)												
>19mm	0.0	0.0	0.0	0.0	0.0	0.0						
9.5mm-19mm	0.0	0.0	2.3	0.0	0.0	2.3						
4.75mm-9.5mm	1.4	4.2	4.2	2.2	0.7	4.2						
1.18m-4.75mmm	4.4	3.2	2.3	2.5	0.6	8.5						
300um-1.18mm	5.3	4.1	2.4	3.1	1.9	9.6						
75um-300um	9.1	7.8	5.6	6.3	4.5	12.7						
<75um	79.9	80.8	83.2	85.9	92.3	62.8						
Clay & Silt	80	81	83	86	92	63						
Sand	19	15	10	12	7	31						
Gravel	1	4	7	2	1	6						

Certificate of Analysis

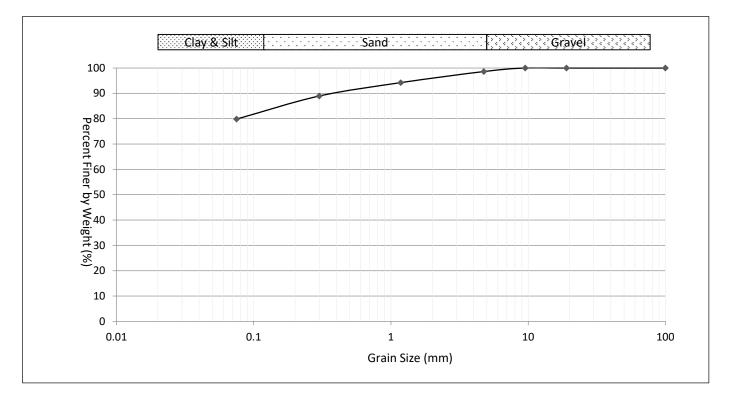
Sample ID: 21-7241-1 TH1

0.75-1.20m

Clay & Silt: 80%

Sand: 19%

Gravel: 1%



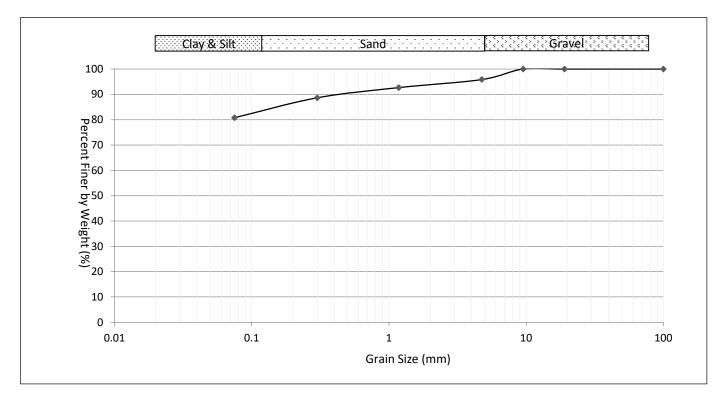
Sample ID: 21-7241-3 TH2 1

1.50-1.95m

Clay & Silt: 81%

Sand: 15%

Gravel: 4%



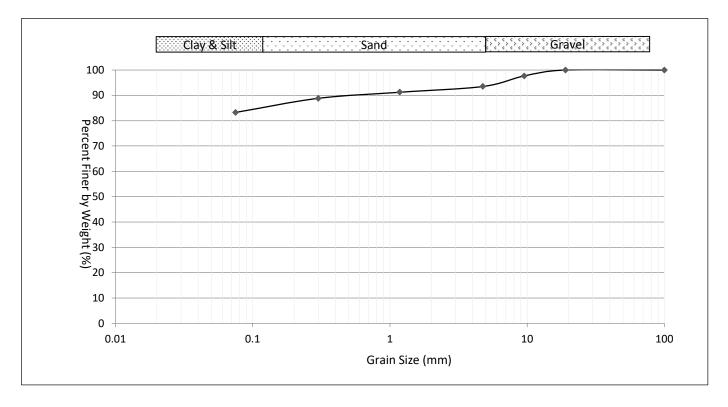
Sample ID: 21-7241-4 TH3

1.50-1.95m

Clay & Silt: 83%

Sand: 10%

Gravel: 7%



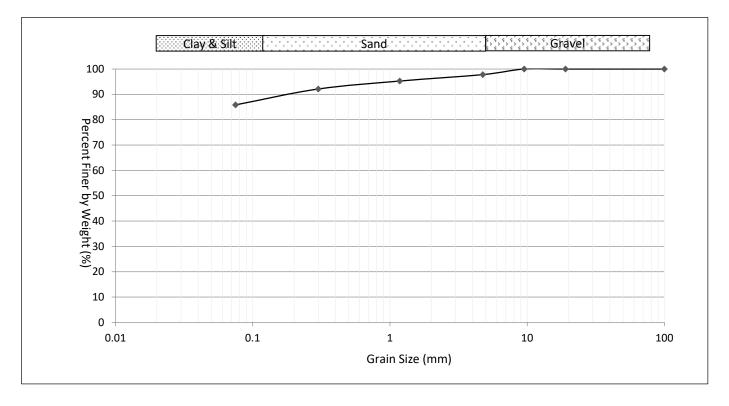
Sample ID: 21-7241-5 TH4 0

0.75-1.20m

Clay & Silt: 86%

Sand: 12%

Gravel: 2%

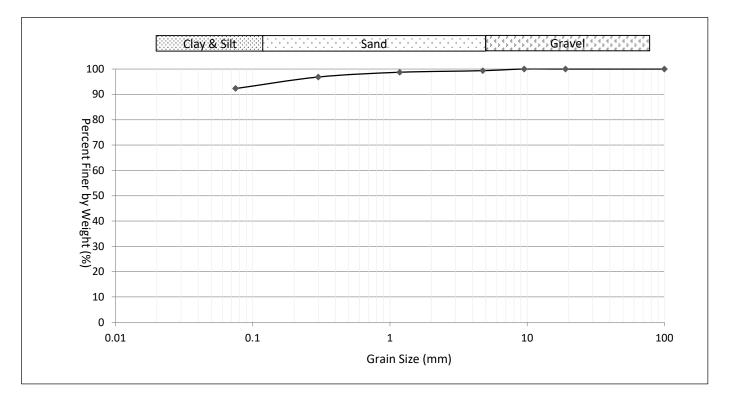


Sample ID: 21-7241-6 0.75-1.20m TH5

Clay & Silt: 92%

Sand: 7%

Gravel: 1%

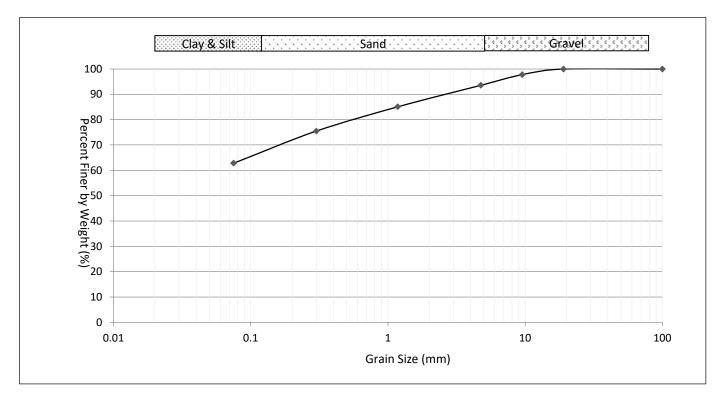


Sample ID: 21-7241-8 0.75-1.20m TH6

Clay & Silt: 63%

Sand: 31%

Gravel: 6%





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Client:	Dymon Group of Companies	F.E. Job #:	21-7241B
Address:	2-1830 Walkley Road	Project Name:	Infiltration Tests
	Ottawa, ON	Project ID:	FE-P 21-11439
	K1H 8K3	Date Sampled:	14-Sep-2021
Tel.:		Date Received:	17-Sep-2021
Email:		Date Reported:	24-Sep-2021
Attn.:		Location:	3855 Dundas Street East

Certificate of Analysis

Analyses	Matrix	Quantity	Date Extracted	Date Analyzed	Lab SOP	Method Reference
Hydrometer	Soil	3	N/A	22-Sep-21	Hydrometer SOP	ASTM D7928-17

Fisher Environmental Laboratories is accredited by CALA (the Canadian Association for Laboratory Accreditation Inc.) for specific parameters as required by Ontario Regulation 153/04. All analytical testing has been performed in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act published by Ontario Ministry of the Environment.

EMICALD esociation pr. CHARTERED Authorized by: in Ronggen (Roger) Lin CHEMIST Roger Lin, Ph. D., C. Chem. Laboratory Manager

Certificate of Analysis

Analysis Requested:	Hydrometer
Sample Description:	3 Soil Sample(s)

Parameter	21-7241-2	21-7241-5	21-7241-7		
	TH1	TH4	TH6		
	1.50-1.95m	0.75-1.20m	1.50-1.95m		
Grain Size (%)					
>19mm	0.0	0.0	0.0		
9.5mm-19mm	0.0	0.0	2.3		
4.75mm-9.5mm	3.8	2.2	4.2		
1.18mm-4.75mm	2.4	2.5	8.5		
300um-1.18mm	4.0	3.1	9.6		
75um-300um	14.0	6.3	12.7		
5um-75um	36	36	29		
2um-5um	8	11	10		
<2um	32	39	24		
Clay	40	50	34		
Silt	36	36	29		
Sand	20	12	31	 	
Gravel	4	2	6		

Client: Dymon Group of Companies

F.E. Job #: 21-7241B

Clay: 40% Gravel: 4% Sand: 20% Silt: 36% GRAVEL SAND SIZES COBBLE S BOULDERS SILT CLAY MEDIUM COARSE FINE COARSE FINE 100 90 80 70 Percent finer 60 50 40 30 20 10 0 1000 100 10 1 0.1 0.01 0.001 0.0001 Particle size (mm)

Grain Size Distribution

Sample	Sample ID: 21-7241-2 TH1 1.50-1.95m											
Diameter	Weight (%)	Grain Size										
>4.75mm	3.8	Gravel										
1.18mm-4.75mm	2.4	Coarse Sand										
300um-1.18mm	4.0	Medium Sand										
75um-300um	14.0	Fine Sand										
5um-75um	36	Silt										
2um-5um	8	Clay										
<2um	32	Clay										

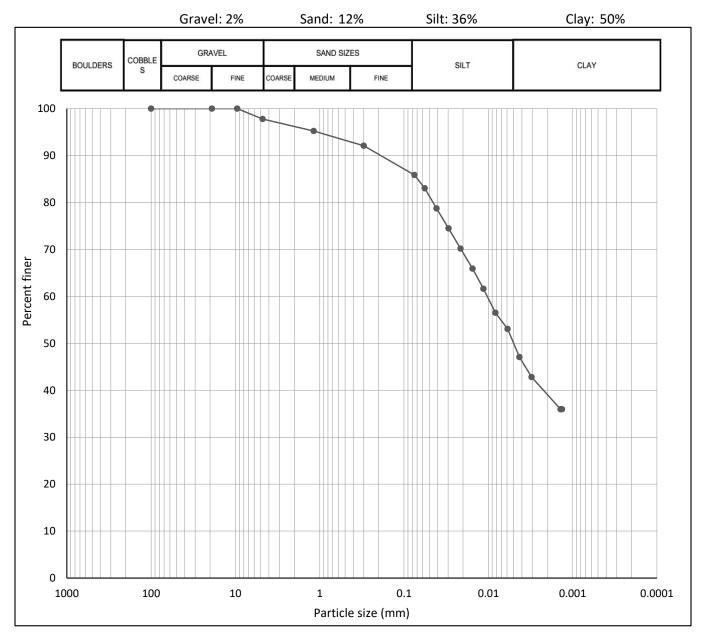
Sample ID: 21-7241-2 TH1 1.50-1.95m

Client: Dymon Group of Companies

F.E. Job #: 21-7241B

Grain Size Distribution

Sample ID: 21-7241-5 TH4 0.75-1.20m



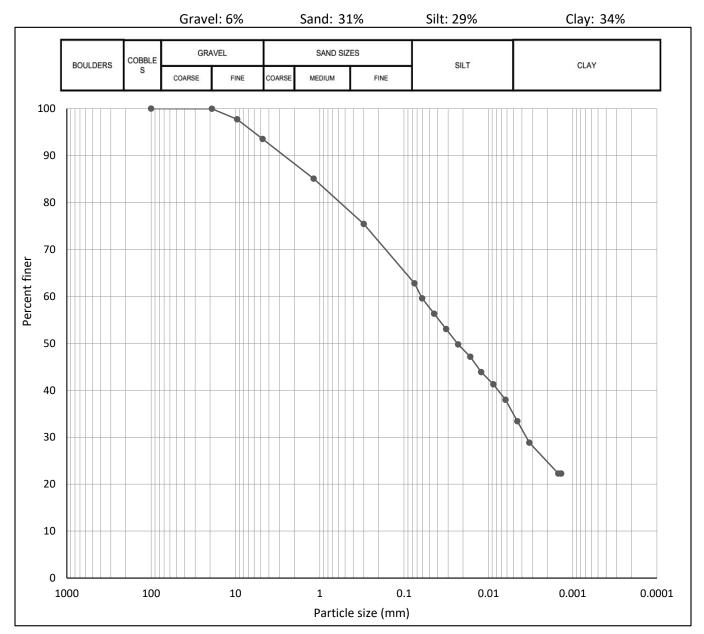
Sample ID: 21-7241-5 TH4 0.75-1.20m											
Diameter	Weight (%)	Grain Size									
>4.75mm	2.2	Gravel									
1.18mm-4.75mm	2.5	Coarse Sand									
300um-1.18mm	3.1	Medium Sand									
75um-300um	6.3	Fine Sand									
5um-75um	36	Silt									
2um-5um	11	Clay									
<2um	39	Clay									

Client: Dymon Group of Companies

F.E. Job #: 21-7241B

Grain Size Distribution

Sample ID: 21-7241-7 TH6 1.50-1.95m



Sample	Sample ID: 21-7241-7 TH6 1.50-1.95m											
Diameter	Weight (%)	Grain Size										
>4.75mm	6.4	Gravel										
1.18mm-4.75mm	8.5	Coarse Sand										
300um-1.18mm	9.6	Medium Sand										
75um-300um	12.7	Fine Sand										
5um-75um	28.8	Silt										
2um-5um	10.0	Clay										
<2um	24	Clay										

Temp(K/C)				y (poise)		ic Gravity						
297		0.9973	329795 0.009	120211	3 F	FS	FSW		S		DS G	
24					122.80	4 138.649	9 335.394	324.193	15.845	1	15.845	3
Time	Reading	Comp Correction	Corrected Reading	Hm (cm)	Particle size (µm)	Perce	nt Finer	% finer	whole			
30	43	4	39	11.46204	56.5998063	3	94.557375	71.	75013615			
60	40.5	3.5	37	11.79742	40.6034180	2	89.887875	68.	20691955			
120	37	3.5	33.5	12.38435	29.4164703	8	81.71625	62	2.0062905			
240	35	3.5	31.5	12.71973	21.0803580	1	77.04675	58	8.4630739			
480	32	3.5	28.5	13.22281	15.1979799	2	70.0425	5	53.148249			
900	30	3.5	26.5	13.55819	11.2389123	6	65.373	49	9.6050324			
1800	27.5	3	24.5	13.89358	8 8.04480325	7	60.7035	46	5.0618158			
3600	25	3	22	14.31281	5.77372125	7	54.866625	41.	63279505			
7200	22.5	3	19.5	14.73204	4.14199737	9	49.02975	37	7.2037743			
14400	21	3	18	14.98358	3 2.95373242	8	45.527625	34.	54636185			
73800	18	3	15	15.48665	1.3264633	7	38.523375	29.	23153695			
86400	17.5	3				1	37.356	28	8.3457328			
		3		18.50511	#DIV/0!		-3.502125	-2.	65741245			
		3	-3	18.50511	#DIV/0!		-3.502125	-2.	65741245			
							100		100			
			21-72	41-2			19		100			
				TI 2			9.5		100			
		• • •	100				4.75		96.18			
			90				1.18		93.81			
			80				0.3		89.86			
			80				0.075		75.88			
			70				0.0566			"corrected"	for sieve dat	ta
	e		60				0.040603		68.2069			
	Percent finer						0.029416		62.0063			
	cen		50				0.02108		58.4631			
	Per		40				0.015198		53.1482			
			30		**.		0.011239		49.6050			
			30		•		0.008045		46.0618			
			20				0.005774		41.6328			
			10				0.004142		37.2038			
							0.002954		34.5464			
	1000	100	0	0.1	0.01 0.001	0.0001	0.001326		29.2315			
	1000	100	10 1 Darticla siz		0.01 0.001	0.0001	0.001229		28.3457			
			Particle siz	2 (11111)			#DIV/0!	-2.6574	-2.6574			
							#DIV/0!	-2.6574	-2.6574			

Temp(K/C)	Soil Wei	ght (g) W	/ater g/ml	viscosity	y (poise)	G(solid)	Specif	fic Gravity						
297	49.0	0.9	97329795	0.0091	120211		2.75 F	FS	FSW		S	DW		G
24							122.80	138.6	49 335.394	324.193	15.845	1	15.845	2.75
Time	Reading	Comp Correction	n Correcte	ed Reading	Hm (cm)	Partic	cle size (μm)	Per	cent Finer	% finer	whole			
30	51	·	4	-	10.1205		56.8566110		96.72037156		.03443898			
60	48		3.5		10.53973		41.0279433		91.73478539		.75431326			
120	45.5		3.5		10.95896		29.5824877		86.74919923		.47418754			
240	43		3.5		11.37819		21.3143272	3	81.76361307	70	.19406182			
480	40.5		3.5	37	11.79742	2	15.3466494	9	76.77802691	. 6	5.9139361			
900	38		3.5	34.5	12.21665	5	11.4050054	2	71.79244074	61	.63381038			
1800	34.5		3	31.5	12.71973	}	8.22892916	8	65.80973735	56	.49765951			
3600	32.5		3	29.5	13.05511	L	5.89494455	2	61.82126842	53	.07355894			
7200	29		3	26	13.64204	ļ	4.26102424	1	54.84144779	47	.08138293			
14400	26.5		3	23.5	14.06127	7	3.05894476	52	49.85586163	42	.80125721			
72900	22.5		3	19.5	14.73204	ļ	1.39158031	.7	41.87892377	35	.95305605			
79200	22.5		3		14.73204		1.33508664	2	41.87892377	35	.95305605			
			3		18.50511		#DIV/0!		-2.991351698	-2.5	68075432			
			3	-3	18.50511	L #	#DIV/0!		-2.991351698	-2.5	68075432			
									100		100			
				21-724	11-5				19		100			
									9.5		100			
		•		100					4.75		97.79			
				90					1.18		95.25			
				80					0.3		92.11			
					•				0.075		85.85			
				70					0.056857			"corrected"	" for sieve da	ata
	Jer			60		N			0.041028		78.7543			
	t fi								0.029582		74.4742			
	Percent finer			50			X.		0.021314		70.1941			
	Pel			40			· ·		0.015347		65.9139			
				30			•		0.011405		61.6338			
									0.008229		56.4977			
				20					0.005895		53.0736			
				10					0.004261		47.0814			
				0					0.003059		42.8013			
	1000	100	10	1	0.1	0.01	0.001	0.000	0.001392		35.9531			
			-	Particle size					0.001335		35.9531			
					. /				#DIV/0!	-2.5681	-2.5681			
									#DIV/0!	-2.5681	-2.5681			

Temp(K/C)				y (poise)		c Gravity						
297	48.	5 0.9973	329795 0.0093	120211	2.6 F	FS	FSW	FW S			DS G	
24					122.804	138.649	335.394	324.193	15.845	1	15.845	2.6
Time	Reading	Comp Correction	Corrected Reading	Hm (cm)	Particle size (µm)	Perce	nt Finer	% finer	whole			
30	48	4	44	10.62358	60.92203515	94	4.91440722	59.	59675629			
60	45	3.5	41.5	11.04281	43.92014618	5	89.6993299	56.	32220924			
120	42.5	3.5	39	11.46204	31.64025362	84	4.48425258	53.	04766219			
240	40	3.5	36.5	11.88127	22.77851704	79	9.26917526	49.	77311514			
480	38	3.5	34.5	12.21665	16.33259395	-	75.0971134	47.	15347751			
900	35.5	3.5	32	12.63588	3 12.13057036	69	9.88203608	43.	87893046			
1800	33	3	30	12.97127	8.690697524	65	5.70997423	41.	25929282			
3600	30.5	3					0.49489691		98474577			
7200	27	3		13.97742			3.19378866	33	.4003799			
14400	23.5	3		14.56435			5.89268041		81601403			
73800	18.5	3		15.40281			5.46252577	22.	26691993			
86400	18.5	3		15.40281			5.46252577		26691993			
		3		18.50511			129046392		64728229			
		3	-3	18.50511	#DIV/0!	-3.	129046392	-1.9	64728229			
							100		100			
			21-72	41-7			19		99.99			
							9.5		97.73			
			100				4.75		93.55			
			90				1.18		85.08			
							0.3		75.44			
							0.075		62.79			
			70				0.060922	59.5968		corrected	" for sieve data	1
	ner		60				0.04392	56.3222	56.3222			
	nt fi		50		•		0.03164	53.0477	53.0477			
	Percent finer						0.022779 0.016333	49.7731 47.1535	49.7731 47.1535			
	Å		40				0.010333	47.1555	43.8789			
			30				0.002131	43.8789	41.2593			
			20				0.006244	37.9847	37.9847			
			20				0.000244	33.4004	33.4004			
			10				0.003256	28.8160	28.8160			
			0				0.003230	22.2669	22.2669			
	1000	100	10 1	0.1	0.01 0.001	0.0001	0.001367	22.2669	22.2669			
			Particle size	e (mm)			#DIV/0!	-1.9647	-1.9647			
							#DIV/0!	-1.9647	-1.9647			
							.,					



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LAB JOB #	= 21-7241		C		IN OF	CL	IST		DY	6	258	8			Pa	ge_ (of	
CLIENT INF	FORMATION	a ann an a		PROJEC	T INFORM	TION				ini ali ini materi poleti.		terretter er en der	BILL	ING I	NFOR	MATION	1	
Company Name: Dymen Group					ame: In	Pilla	tin	- 1	-1					ase Or				
IConfact:	9					TUMP	and		218									
Address: 3	855 Dur	das stre	at East	Project ID):								Verba	I Autho	rization			
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v	Mississau	ga		TURNAF	ROUND TIM	E (TAT)	REQU	JIRED)				Credit	Card (t	ype):			
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Fax:			Fax results? YN	SR - Semi F	Rush (48 hours)	50%		ges appl				ay-Friday	Credit	Card #	:			
Email:			Email results?(Y)N	R - Rush (2-	4 hours)	75%		received idered re			9:0	0am-						
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LAB	CLIENT'	S SAMPLE ID	SAMPLING	SAMPLE	CONTAINER	TAT		ANAL	YSIS	REQ	UEST	ED (Che	ck or S	Specify)	1	NO	FFO	
SAMPLE ID	AND DI	ESCRIPTION	DATE/TIME	MATRIX	# & TYPE	(Above)	Metals	PHCs	VOCs	PAHs	PCBs	Asbestos	GS	m	Hyd	ometer	IES	
4	TH1: 22	-4	14/09/21	soil	Bag		I						V		1 14			
2	5 -	-64	1 1									******		F	V			
- 3	TRIDE		ч	<u> </u>	<u> ((</u>							*****		-				
	14602 -	- 63	*	<u> (</u>	1 1								-					
- 4	TH3:5 -	- 6 k	51	82	ι,								-	-				
5	TH4: 21/2		4	در	V/								/	-	V			
6	THS: 22	-4	(1		(1								5	-				
7	TH6: 5-	and a second designed of the second	V	f.	6										V			
3	TH6: 22	-4	. (~	5.					4			5	~				
	7																	
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and the second statement of the se	Method of Shipment: By Hund Received by: (Signature & Print) Arrival Tem						4				/ Comm				Region			
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Date & Time:	0 -		Laboratory R	emarks:	bC				_	exture					Reg. 5	58		
	Sept 17.	21	Lasoratory	Sindino.							□ Med/	Fine			TCL			
										0100		i ilic						



FISHER ENVIRONMENTAL ATTN: CLIVE 15-400 ESNA PARK DRIVE MARKHAM ON NA Date Received:01-SEP-20Report Date:14-SEP-20 12:39 (MT)Version:FINAL

Client Phone: 905-475-7755

Certificate of Analysis

Lab Work Order #:

Project P.O. #: Job Reference: C of C Numbers: Legal Site Desc: **L2497329** 3855 DUNDAS ST E 20-10464

MISSISSAUGA

yHarser

Emily Hansen Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

				Extracted	Analyzed	Batch
				11-SEP-20	11-SEP-20	R5222734
<1.0		1.0	%	11-SEP-20	11-SEP-20	R5222734
9.6		1.0	%	11-SEP-20	11-SEP-20	R5222734
<1.0		1.0	%	11-SEP-20	11-SEP-20	R5222734
18.0		1.0	%	11-SEP-20	11-SEP-20	R5222734
47.7		1.0	%	11-SEP-20	11-SEP-20	R5222734
37.1		1.0	%	11-SEP-20	11-SEP-20	R5222734
24.0		1.0	%	11-SEP-20	11-SEP-20	R5222734
34.6		1.0	%	11-SEP-20		R5222734
SEE ATTACHED				11-SEP-20	11-SEP-20	R5222734
						R5222734
						R5222734
						R5222734
						R5222734
						R5222734
28.9		1.0	%	11-SEP-20	11-SEP-20	R5222734
	9.6 <1.0 18.0 47.7 37.1 24.0	<1.0 9.6 <1.0 18.0 47.7 37.1 24.0 34.6 SEE ATTACHED <1.0 12.9 <1.0 21.8 45.0 36.1 20.1	<1.0	<1.0	<1.0	<1.0

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
GRAIN SIZE-HYD-SK	Soil	Grain Size by Hydrometer	ASTM D6913/D7928
·			
ASTM D422-63 has beer	n withdrawn	the ASTM D6913/D7928 standard s	serves as the successor method.
* ALS test methods may in	corporate m	odifications from specified reference	e methods to improve performance.
The last two letters of the a	above test c	ode(s) indicate the laboratory that p	erformed analytical analysis for that test. Refer to the list below:
Laboratory Definition Co	de Lab	oratory Location	
SK	ALS	ENVIRONMENTAL - SASKATOON	, SASKATCHEWAN, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there. mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION. Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder:L2497329Report Date:14-SEP-20FISHER ENVIRONMENTAL
15-400 ESNA PARK DRIVE555

Page 1 of 2

15-400 ESNA PA	ARK I
MARKHAM ON	NA

Contact: CLIVE

Client:

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
GRAIN SIZE-HYD-SK	Soil							
Batch R522	2734							
WG3401674-1 E	DUP	L2497329-2						
Gravel (4.75mm -	3in.)	<1.0	<1.0	RPD-NA	%	N/A	5	11-SEP-20
Coarse Sand (2.0r	nm - 4.75mm)	<1.0	<1.0	RPD-NA	%	N/A	5	11-SEP-20
Medium Sand (0.4	25mm - 2.0mm)	12.9	12.0	J	%	1.0	5	11-SEP-20
Fine Sand (0.075n	nm - 0.425mm)	21.8	21.1	J	%	0.6	5	11-SEP-20
Silt (0.005mm - 0.0	075mm)	36.1	36.4	J	%	0.4	5	11-SEP-20
Clay (<0.005mm)		28.9	30.2	J	%	1.3	5	11-SEP-20
Silt (0.002mm - 0.0	075mm)	45.0	46.2	J	%	1.3	5	11-SEP-20
Clay (<0.002mm)		20.1	20.4	J	%	0.4	5	11-SEP-20
WG3401674-2 II	RM	2017-PSA						
Medium Sand (0.4	25mm - 2.0mm)		8.9		%		3.9-13.9	11-SEP-20
Fine Sand (0.075n	nm - 0.425mm)		34.5		%		27.6-37.6	11-SEP-20
Silt (0.005mm - 0.0	075mm)		31.1		%		25.8-35.8	11-SEP-20
Clay (<0.005mm)			25.5		%		22.7-32.7	11-SEP-20
Silt (0.002mm - 0.0	075mm)		36.7		%		31.1-41.1	11-SEP-20
Clay (<0.002mm)			20.0		%		17.4-27.4	11-SEP-20

Workorder: L2497329

Report Date: 14-SEP-20

Legend:

_		
	Limit DUP	ALS Control Limit (Data Quality Objectives)
		Duplicate
	RPD	Relative Percent Difference
	N/A	Not Available
	LCS	Laboratory Control Sample
	SRM	Standard Reference Material
	MS	Matrix Spike
	MSD	Matrix Spike Duplicate
	ADE	Average Desorption Efficiency
	MB	Method Blank
	IRM	Internal Reference Material
	CRM	Certified Reference Material
	CCV	Continuing Calibration Verification
	CVS	Calibration Verification Standard
	LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Quali	fier	Description
J		Duplicate results and limits are expressed in terms of absolute difference.
RPD-	NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

ALS Laboratory Group

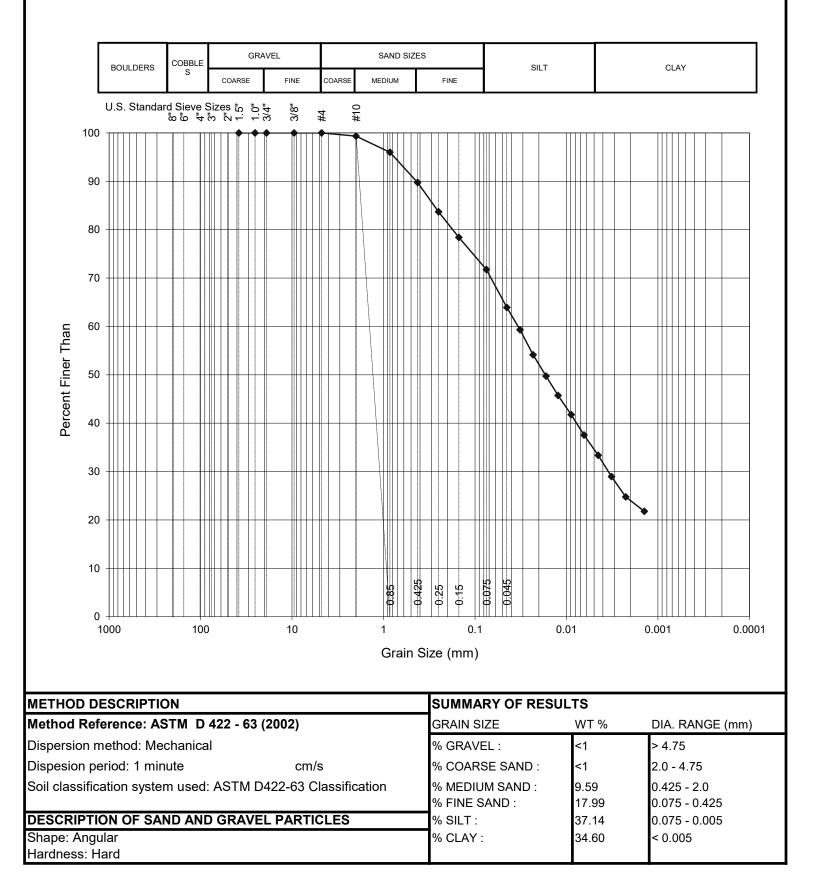
819-58th Street, Saskatoon,SK

PARTICLE SIZE DISTRIBUTION CURVE

FISHER ENVIRONMENTAL

Project Number:Client Sample IDBH102- 10-11 1/2Lab Sample IDL2497329-1Date Sample Received 01-Sep-20Test Completion Date:12-Sep-20Analyst:SHCH

Client Name:



ALS Laboratory Group

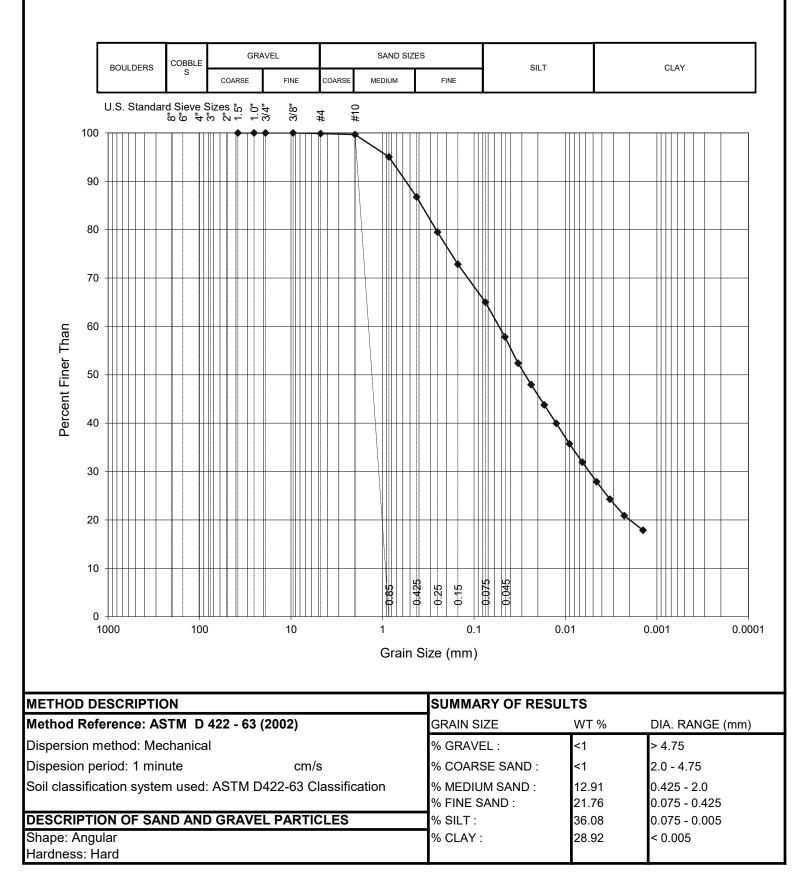
819-58th Street, Saskatoon,SK

PARTICLE SIZE DISTRIBUTION CURVE

FISHER ENVIRONMENTAL

Project Number:Client Sample IDBH103- 10-11 1/2Lab Sample IDL2497329-2Date Sample Received 01-Sep-20Test Completion Date:12-Sep-20Analyst:SHCH

Client Name:



Chain of Custody (COC) / Analytical **Request Form**



COC Number: 17 -

Page

of

NM

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Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear on the final n	eport	Report Format]	S											ges may a	apply)
Company:	Fisher Environmental		ct Report Format:	EXCEL ED	D (DIGITAL)	Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply												
Contact:	Clue	Qualit	ity Control (QC) Report with Re	eport 🗖 🛛 I	□ NO	≥ 🚡 4 day [P4-20%] 🔲 💆 1 Business day [E - 100%]												
Phone:	246 605 9722		Compare Results to Criteria on Report - provide details below if box checked				🛓 🖁 3 day [P3-25%] 🗆 🖉 Same Day, Weekend or Statutory holiday [E2 -200						200%					
	Company address below will appear on the final report	Selec	Select Distribution: 🗹 EMAIL 🗌 MAIL 🔲 FAX				🐮 💈 2 day [P2-50%] 🔲 📲 (Laboratory opening fees may apply)]											
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ALS Lab Wo	rk Order # (lab use only): $[\mathcal{O}\mathcal{H} \ 13]$	27 123	Contact.	oumpion:		2	n.											1
ALS Sample #	Sample Identification and/or Coo	rdinates	Date	Time	Sample Type	121	8										12	
(lab use only)	(This description will appear on the	e report)	(dd-mmm-yy)	(hh:mm)		Z						┝──┼			_		<u> </u>	
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	SHIPMENT RELEASE (client use)		INITIAL SHIPMEN	T RECEPTION	lab use only)			•		FINA	L SHI	MENT	RECE	TION	l (lab us	e only)	·	
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	AND SAME FOR ALS LOCATIONS AND SAMELING INFORMAT	ION	WH	ITE - LABORATO	RY COPY YEL	LOW -	CLIENT	COPY			/						v	NOV 2010 F

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

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Client: Dymon	F.E. Job #: 20-5123
Address:	Project Name: Geo/Hydro Investigations
	Project ID: FE-P 20-10404
	Date Sampled: 19-Aug-2020
Tel.:	Date Received: 28-Aug-2020
Email:	Date Reported: 4-Sep-2020
Attn.:	Location: 3855 Dundas Street, East
	Mississauga, ON

Certificate of Analysis

Analyses	Matrix	Quantity	Date Extracted	Date Analyzed	Lab SOP	Method Reference
Moisture Content	Soil	5	N/A	1-Sep-20	Support Procedures F-99	Carter (1993)
Grain Size	Soil	5	N/A	3-Sep-20	Grain Size F-28	ASTM D6913-04

Fisher Environmental Laboratories is accredited by CALA (the Canadian Association for Laboratory Accreditation Inc.) for specific parameters as required by Ontario Regulation 153/04. All analytical testing has been performed in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act published by Ontario Ministry of the Environment.

CHEMICAL PAC esociation or CHARTERED Authorized by: <u>Lin</u> Ronggen (Roger) Lin CHEMIST Roger Lin, Ph. D., C. Chem. Laboratory Manager

Analysis Requested:	Moisture Cont	Moisture Content, Grain Size								
Sample Description:	5 Soil Sample	5 Soil Sample(s)								
	20-5123-1	20-5123-2	20-5123-3	20-5123-4	20-5123-5					
Parameter	BH101	BH101	BH101	BH101	BH101					
	1.50-1.95m	2.25-2.70m	3.00-3.45m	4.55-5.00m	0.75-1.20m					
Moisture Content (%)	12	12	9.8	10	18					

Certificate of Analysis

QA/QC Report

Parameter	Blank	RL	LCS	AR	Duplicate	AR
Tarameter			Recov	ery (%)	RPD) (%)
Moisture Content (%)	< 0.1	0.1	100	70-130	4.1	0-20

LEGEND:

RL - Reporting Limit

LCS - Laboratory Control Sample

AR - Acceptable Range

RPD - Relative Percent Difference

Analysis Requested:	Moisture Cont	Moisture Content, Grain Size									
Sample Description:	5 Soil Sample	5 Soil Sample(s)									
	20-5123-1	20-5123-2	20-5123-3	20-5123-4	20-5123-5						
Parameter	BH101	BH101	BH101	BH101	BH101						
	1.50-1.95m	2.25-2.70m	3.00-3.45m	4.55-5.00m	0.75-1.20m						
Grain Size (%)											
>19mm	0.0	0.0	0.0	0.0	0.0						
9.5mm-19mm	0.0	0.0	0.0	0.0	0.0						
4.75mm-9.5mm	2.1	2.2	1.9	2.0	0.8						
1.18m-4.75mmm	3.9	5.2	7.8	9.4	1.8						
300um-1.18mm	4.1	3.3	6.1	6.6	2.1						
75um-300um	6.5	5.0	4.4	5.4	5.0						
<75um	83.4	84.3	79.7	76.6	90.3						
Clay & Silt	83	84	80	77	90						
Sand	15	14	18	21	9						
Gravel	2	2	2	2	1						

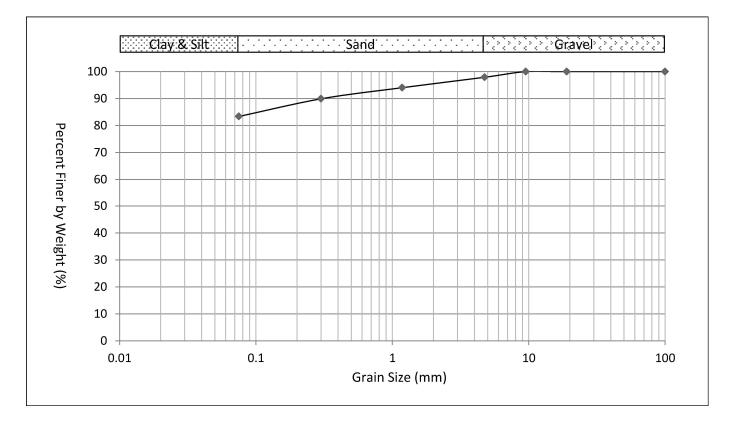
Certificate of Analysis

Sample ID: 20-5123-1 BH101

1.50-1.95m

Clay & Silt: 83%

Sand: 15%

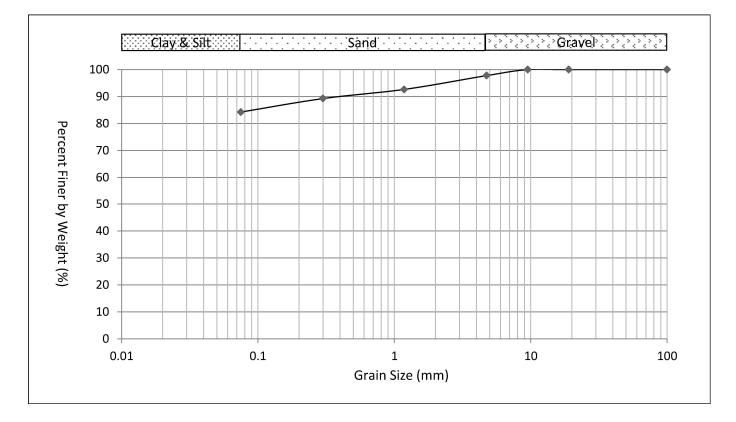


Sample ID: 20-5123-2 BH101

2.25-2.70m

Clay & Silt: 84%

Sand: 14%

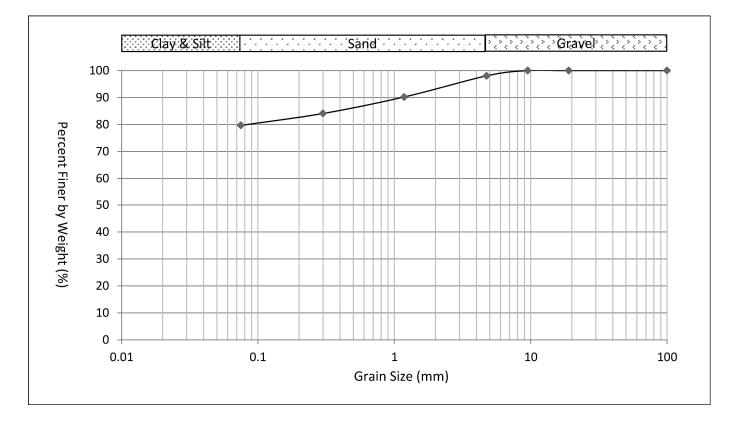


Sample ID: 20-5123-3 BH101

3.00-3.45m

Clay & Silt: 80%

Sand: 18%

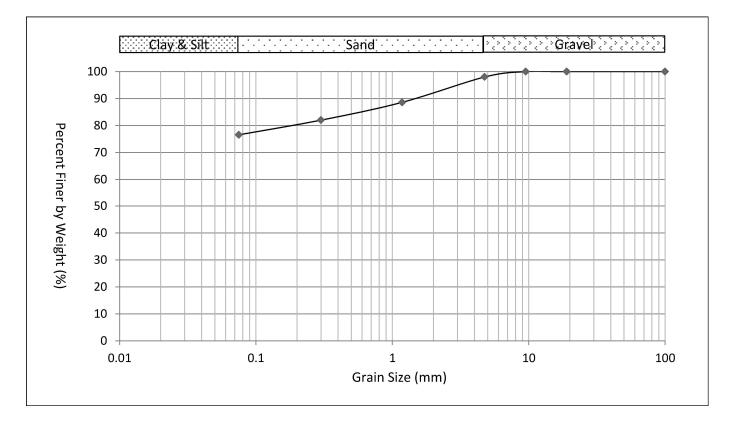


Sample ID: 20-5123-4 BH101

4.55-5.00m

Clay & Silt: 77%

Sand: 21%



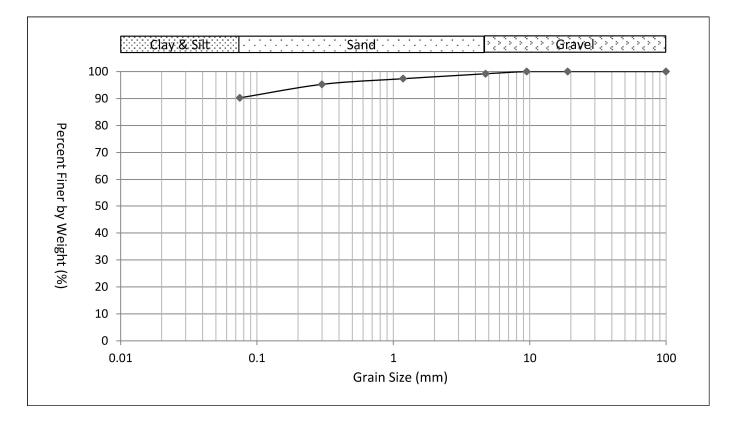
Sample ID: 20-5123-5 BH101

0.75-1.20m

Clay & Silt: 90%

Sand: 9%

Gravel: 1%



APPENDIX D – SEWER BYLAWS RESULTS



Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023



FISHER ENVIRONMENTAL ATTN: CLIVE 15-400 ESNA PARK DRIVE MARKHAM ON N/A Date Received:16-SEP-21Report Date:23-SEP-21 15:18 (MT)Version:FINAL

Client Phone: 905-475-7755

Certificate of Analysis

Lab Work Order #: L2640093 Project P.O. #: NOT SUBMITTED Job Reference: C of C Numbers: Legal Site Desc:

lyffarser

Emily Hansen Account Manager [This report shall not be reproduced except in full without the written authority of the Laboratory.]

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Summary of Guideline Exceedances

Guideline ALS ID	Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
Ontario Reg	. Mun. of Peel Sanitary Bylaw #5	3-2010 (APR. 2011) - Reg. M	un. of Peel Sanitary by-law #53-2010			
L2640093-1	3855 DUNDAS ST. EAST MW202	Anions and Nutrients	Sulfate (SO4)	1540	1500	mg/L
Ontario Reg	. Mun. of Peel Sanitary Bylaw #5	3-2010 (APR. 2011) - Peel St	orm Sewer By-Law #53-201- (APR. 2011)			
L2640093-1	3855 DUNDAS ST. EAST MW202	Physical Tests	Total Suspended Solids	161	15	mg/L
		Anions and Nutrients	Total Kjeldahl Nitrogen	1.40	1	mg/L
		Bacteriological Tests	Fecal Coliforms	770	0	CFU/100mL
		Total Metals	Manganese (Mn)-Total	1.21	0.05	mg/L



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Physical Tests - WATER

	:	Sample		L2640093-1 15-SEP-21
		Sam	ple ID	3855 DUNDAS ST. EAST MW202
		Guide	Limits	
Analyte	Unit	#1	#2	
рН	pH units	5.5-10	6-9	6.89
Total Suspended Solids	mg/L	350	15	161

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010

Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Anions and Nutrients - WATER

		Sample	.ab ID 9 Date ple ID	L2640093-1 15-SEP-21 3855 DUNDAS
Analyte	Unit	Guide #1	Limits #2	ST. EAST MW202
Fluoride (F)	mg/L	10	-	<0.10 ^{DLDS}
Total Kjeldahl Nitrogen	mg/L	100	1	1.40 DLM
Phosphorus, Total	mg/L	10	0.4	0.0353
Sulfate (SO4)	mg/L	1500	-	1540 DLDS

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Cyanides - WATER

			Lab ID	L2640093-1
		Sampl	e Date	15-SEP-21
		Sam	ple ID	3855 DUNDAS ST. EAST MW202
		Guide	Limits	
Analyte	Unit	#1	#2	
Cyanide, Total	mg/L	2	0.02	<0.0020

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



PAGE 6 of 18 23-SEP-21 15:18 (MT)

Bacteriological Tests - WATER

		mple		L264009 15-SEP 3855 DUN ST. EA MW20	-21 NDAS ST
Analyte		ide∣ #1	Limits #2		
E. Coli	CFU/100m L	-	200	<2	DLM
Fecal Coliforms	CFU/100m L	-	0	770	DLM

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



PAGE 7 of 18 23-SEP-21 15:18 (MT)

Total Metals - WATER

		Sampl	Lab ID e Date iple ID	L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Aluminum (Al)-Total	mg/L	50	-	2.74 DLHC
Antimony (Sb)-Total	mg/L	5	-	<0.0010 ^{DLHC}
Arsenic (As)-Total	mg/L	1	0.02	0.0035 ^{DLHC}
Cadmium (Cd)-Total	mg/L	0.7	0.008	<0.000050
Chromium (Cr)-Total	mg/L	5	0.08	<0.0050 ^{DLHC}
Cobalt (Co)-Total	mg/L	5	-	0.0041 ^{DLHC}
Copper (Cu)-Total	mg/L	3	0.05	0.0052 ^{DLHC}
Lead (Pb)-Total	mg/L	3	0.120	0.00177 ^{DLHC}
Manganese (Mn)-Total	mg/L	5	0.05	1.21 DLHC
Mercury (Hg)-Total	mg/L	0.01	0.0004	<0.0000050
Molybdenum (Mo)-Total	mg/L	5	-	0.00170 ^{DLHC}
Nickel (Ni)-Total	mg/L	3	0.08	0.0065 ^{DLHC}
Selenium (Se)-Total	mg/L	1	0.02	<0.00050
Silver (Ag)-Total	mg/L	5	0.12	< 0.00050
Tin (Sn)-Total	mg/L	5	-	< 0.0010 ^{DLHC}
Titanium (Ti)-Total	mg/L	5	-	0.0854 ^{DLHC}
Zinc (Zn)-Total	mg/L	3	0.04	< 0.030 ^{DLHC}

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



PAGE 8 of 18 23-SEP-21 15:18 (MT)

Aggregate Organics - WATER

			Lab ID	L2640093-1
		Sampl	e Date	15-SEP-21
		Sam	ple ID	3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
BOD Carbonaceous	mg/L	300	15	<3.0 ^{BODL}
Oil and Grease, Total	mg/L	-	-	<5.0
Animal/Veg Oil & Grease	mg/L	150	-	<5.0
Mineral Oil and Grease	mg/L	15	-	<2.5
Phenols (4AAP)	mg/L	1	0.008	<0.0010

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

L2640093 CONT'D

PAGE 9 of 18 23-SEP-21 15:18 (MT)

Volatile Organic Compounds - WATER

		Lab ID Sample Date Sample ID		L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Acetone	ug/L	-	-	<20 OWP
Benzene	ug/L	10	2	<0.50 ^{°OWP}
Bromodichloromethane	ug/L	-	-	<1.0 ^{OWP}
Bromoform	ug/L	-	-	<1.0 ^{OWP}
Bromomethane	ug/L	-	-	<0.50 ^{°OWP}
Carbon Disulfide	ug/L	-	-	<1.0 ^{OWP}
Carbon tetrachloride	ug/L	-	-	<0.20 ^{OWP}
Chlorobenzene	ug/L	-	-	<0.50 ^{°OWP}
Dibromochloromethane	ug/L	-	-	<1.0 ^{OWP}
Chloroethane	ug/L	-	-	<1.0 ^{OWP}
Chloroform	ug/L	40	2	<1.0 ^{OWP}
Chloromethane	ug/L	-	-	<2.0 ^{OWP}
1,2-Dibromoethane	ug/L	-	-	<0.20 ^{OWP}
1,2-Dichlorobenzene	ug/L	50	5.6	<0.50 ^{OWP}
1,3-Dichlorobenzene	ug/L	-	-	<0.50 ^{°OWP}
1,4-Dichlorobenzene	ug/L	80	6.8	<0.50 ^{OWP}
Dichlorodifluoromethane	ug/L	-	-	<1.0 ^{OWP}
1,1-Dichloroethane	ug/L	-	-	<0.50 ^{OWP}
1,2-Dichloroethane	ug/L	-	-	<0.50 ^{OWP}
1,1-Dichloroethylene	ug/L	-	-	<0.50 ^{OWP}
cis-1,2-Dichloroethylene	ug/L	4000	5.6	<0.50 ^{°OWP}
trans-1,2-Dichloroethylene	ug/L	-	-	<0.50 ^{OWP}
Dichloromethane	ug/L	2000	5.2	<2.0 ^{OWP}
1,2-Dichloropropane	ug/L	-	-	<0.50 ^{OWP}
cis-1,3-Dichloropropene	ug/L	-	-	<0.30 ^{OWP}
trans-1,3-Dichloropropene	ug/L	140	5.6	<0.30 ^{OWP}
Ethylbenzene	ug/L	160	2	<0.50 ^{°OWP}
n-Hexane	ug/L	-	-	<0.50 ^{°OWP}
2-Hexanone	ug/L	-	-	<20 ^{OWP}
Methyl Ethyl Ketone	ug/L	8000	-	<20 ^{OWP}

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

* Please refer to the Reference Information section for an explanation of any qualifiers noted.



ANALYTICAL REPORT

L2640093 CONT'D

PAGE 10 of 18 23-SEP-21 15:18 (MT)

Volatile Organic Compounds - WATER

			Lab ID	L2640093-1
		Sampl	e Date	15-SEP-21
		Sam	ple ID	3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Methyl Isobutyl Ketone	ug/L	-	-	<20 OWP
МТВЕ	ug/L	-	-	<0.50 ^{°OWP}
Styrene	ug/L	200	-	<0.50 ^{°OWP}
1,1,1,2-Tetrachloroethane	ug/L	-	-	<0.50 ^{OWP}
1,1,2,2-Tetrachloroethane	ug/L	1400	17	<0.50 ^{°OWP}
Tetrachloroethylene	ug/L	1000	4.4	<0.50 ^{OWP}
Toluene	ug/L	270	2	<0.40 ^{°OWP}
1,1,1-Trichloroethane	ug/L	-	-	<0.50 ^{OWP}
1,1,2-Trichloroethane	ug/L	-	-	<0.50 ^{OWP}
Trichloroethylene	ug/L	400	8	<0.50 ^{OWP}
Trichlorofluoromethane	ug/L	-	-	<1.0 ^{OWP}
Vinyl chloride	ug/L	-	-	<0.50 ^{OWP}
o-Xylene	ug/L	-	-	<0.30 ^{OWP}
m+p-Xylenes	ug/L	-	-	<0.40 ^{OWP}
Xylenes (Total)	ug/L	1400	4.4	<0.50
Surrogate: 4-Bromofluorobenzene	%	-	-	103.4
Surrogate: 1,4-Difluorobenzene	%	-	-	102.1

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Phthalate Esters - WATER

		Sampl	Lab ID e Date ıple ID	L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Bis(2-ethylhexyl)phthalate	ug/L	12	8.8	<2.0
Surrogate: 2-fluorobiphenyl	%	-	-	83.4
Surrogate: p-Terphenyl d14	%	-	-	83.0

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010

Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Semi-Volatile Organics - WATER

	Sample	e Date	L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST
Unit	Guide #1	Limits #2	MW202
ug/L	80	15	<1.0
%	-	-	83.4
%	-	-	83.0
	ug/L %	Sample Sam Unit Guide #1 ug/L 80 % -	ug/L 80 15 %

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010

Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Polychlorinated Biphenyls - WATER

		Samp	Lab ID le Date nple ID	L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Aroclor 1242	ug/L	-	-	<0.020
Aroclor 1248	ug/L	-	-	<0.020
Aroclor 1254	ug/L	-	-	<0.020
Aroclor 1260	ug/L	-	-	<0.020
Surrogate: Decachlorobiphenyl	%	-	-	76.2
Total PCBs	ug/L	1	0.4	<0.040
Surrogate: Tetrachloro-m-xylene	%	-	-	95.1

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made. Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



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Organic Parameters - WATER

		Sample	Lab ID e Date ple ID	L2640093-1 15-SEP-21 3855 DUNDAS ST. EAST MW202
Analyte	Unit	Guide #1	Limits #2	
Nonylphenol	ug/L	20	-	<1.0
Nonylphenol Diethoxylates	ug/L	-	-	<0.10
Total Nonylphenol Ethoxylates	ug/L	200	-	<2.0
Nonylphenol Monoethoxylates	ug/L	-	-	<2.0

Guide Limit #1: Reg. Mun. of Peel Sanitary by-law #53-2010 Guide Limit #2: Peel Storm Sewer By-Law #53-201- (APR. 2011)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

L2640093 CONT'D

Reference Information

PAGE 15 of 18 23-SEP-21 15:18 (MT)

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
BODL	Limit of Reporting for BOD was increased to account for the largest volume of sample tested.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
OWP	Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of

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sediment.

DLHC Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

_S Test Code	Matrix	Test Description	Method Reference**
625-BIS-2-PHTH-WT	Water	Bis(2-ethylhexyl)phthalate	SW846 8270
Aqueous samples are	extracted and ex	stracts are analyzed on GC/MSD.	
625-DNB-PHTH-WT	Water	Di-n-Butyl Phthalate	SW846 8270
Aqueous samples are	extracted and ex	stracts are analyzed on GC/MSD.	
BOD-C-WT	Water	BOD Carbonaceous	APHA 5210 B (CBOD)
and incubating a samp	e for a specified	d time period, and measuring the oxygen o	3 - "Biochemical Oxygen Demand (BOD)". All forms of biochemical oxygen demand (BOD) are determined by diluting depletion using a dissolved oxygen meter. Dissolved BOD (SOLUBLE) is determined by filtering the sample through a dding a nitrification inhibitor to the diluted sample prior to incubation.
CN-TOT-WT	Water	Cyanide, Total	ISO 14403-2
		nbination of UV digestion and distillation. icotinic acid to form a highly colored com	Cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a olex.
		f thiocyanate in samples can cause false nate to check for this potential interference	positives at ~1-2% of the thiocyanate concentration. For samples with detectable cyanide analyzed by this method,
EC-SCREEN-WT	Water	Conductivity Screen (Internal Use Only)	APHA 2510
Qualitative analysis of	conductivity whe	ere required during preparation of other te	sts - e.g. TDS, metals, etc.
	Water	E. Coli	SM 9222D
EC-WW-MF-WT	vvalei	21 001	
			aced on mFC-BCIG agar and incubated at 44.5 –0 .2 $$ C for 24 – 2 h. Method ID: WT-TM-1200
A 100 mL volume of sa			aced on mFC-BCIG agar and incubated at 44.5 –0 .2 C for 24 – 2 h. Method ID: WT-TM-1200 EPA 300.1 (mod)
A 100 mL volume of sa F-IC-N-WT	mple is filtered Water	through a membrane, the membrane is pl	EPA 300.1 (mod)
A 100 mL volume of sa F-IC-N-WT	mple is filtered Water	through a membrane, the membrane is pl Fluoride in Water by IC	EPA 300.1 (mod)
A 100 mL volume of sa F-IC-N-WT Inorganic anions are ar	mple is filtered Water nalyzed by Ion C	through a membrane, the membrane is pl Fluoride in Water by IC Chromatography with conductivity and/or L	EPA 300.1 (mod) JV detection.
A 100 mL volume of sa F-IC-N-WT Inorganic anions are ar FC-WW-MF-WT	mple is filtered Water halyzed by Ion C Water	through a membrane, the membrane is pl Fluoride in Water by IC Chromatography with conductivity and/or U Fecal Coliforms	EPA 300.1 (mod) JV detection. APHA 9223B
A 100 mL volume of sa F-IC-N-WT Inorganic anions are ar FC-WW-MF-WT FC-WW-MF-WT HG-T-CVAA-WT	mple is filtered Water halyzed by Ion C Water Water Water	through a membrane, the membrane is pl Fluoride in Water by IC Chromatography with conductivity and/or U Fecal Coliforms Fecal Coliforms Total Mercury in Water by CVAAS	EPA 300.1 (mod) JV detection. APHA 9223B SM 9222D

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

Reference Information

L2640093 CONT'D

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LS Test Code	Matrix	Test Description	Method Reference**
Analysis conducted in a	accordance with	h the Protocol for Analytical Methods Use	ed in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).
NP,NPE-LCMS-WT	Water	Nonylphenols and Ethoxylates by LC/MS-MS	J. Chrom A849 (1999) p.467-482
Water samples are filte	ered and analyz	zed on LCMS/MS by direct injection.	
OGG-SPEC-CALC-WT	Water	Speciated Oil and Grease A/V Calc	CALCULATION
Sample is extracted wit	h hexane, sam	ple speciation into mineral and animal/ve	egetable fractions is achieved via silica gel separation and is then determined gravimetrically.
OGG-SPEC-WT	Water	Speciated Oil and Grease-Gravime	tric APHA 5520 B
The procedure involves determined gravimetric		of the entire water sample with hexane.	Sample speciation into mineral and animal/vegetable fractions is achieved via silica gel separation and is then
P-T-COL-WT	Water	Total P in Water by Colour	APHA 4500-P PHOSPHORUS
This analysis is carried	out using proc	edures adapted from APHA Method 4500	0-P "Phosphorus". Total Phosphorus is deteremined colourimetrically after persulphate digestion of the sample.
PCB-WT	Water	Polychlorinated Biphenyls	EPA 8082
PCBs are extracted from	m an aqueous	sample at neutral pH with aliquots of dicl	nloromethane using a modified separatory funnel technique. The extracts are analyzed by GC/MSD.
PH-WT	Water	рН	APHA 4500 H-Electrode
Water samples are ana	lyzed directly b	by a calibrated pH meter.	
Analysis conducted in a samples under this reg			ed in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011). Holdtime for
PHENOLS-4AAP-WT	Water	Phenol (4AAP)	EPA 9066
An automated method colorimetrically.	is used to distil	I the sample. The distillate is then buffere	ed to pH 9.4 which reacts with 4AAP and potassium ferricyanide to form a red complex which is measured
SO4-IC-N-WT	Water	Sulfate in Water by IC	EPA 300.1 (mod)
Inorganic anions are ar	alyzed by lon (Chromatography with conductivity and/or	UV detection.
SOLIDS-TSS-WT	Water	Suspended solids	APHA 2540 D-Gravimetric
A well-mixed sample is	filtered through	h a weighed standard glass fibre filter and	d the residue retained is dried in an oven at 104–1 C for a minimum of four hours or until a constant weight is achieved
TKN-F-WT	Water	TKN in Water by Fluorescence	J. ENVIRON. MONIT., 2005,7,37-42,RSC
Total Kieldehl Nitrogen	is determined	using block digestion followed by Flow-in	jection analysis with fluorescence detection
rotal Kjeluani Nitrogen			

L2640093 CONT'D

Reference Information

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Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**	
				·

XYLENES-SUM-CALC-WT Water Sum of Xylene Isomer Concentrations CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:							
The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:							
Laboratory Definition Code Laboratory Location							
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA						

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

		Workorder:	L264009	3	Report Date: 23	-SEP-21		Page 1 of 14
Client:	FISHER ENVIRONMENT 15-400 ESNA PARK DRI MARKHAM ON N/A							
Contact:	CLIVE							
Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
625-BIS-2-PHTH	-WT Water							
Batch WG3620987-2 Bis(2-ethylhe			129.7		%		50-140	23-SEP-21
WG3620987- Bis(2-ethylhe			<2.0		ug/L		2	23-SEP-21
Surrogate: 2-	fluorobiphenyl		75.8		%		40-130	23-SEP-21
Surrogate: p-	Terphenyl d14		111.6		%		40-130	23-SEP-21
625-DNB-PHTH-	WT Water							
	R5592637							
WG3620987-2 Di-n-butylphtl	nalate		103.9		%		50-150	23-SEP-21
WG3620987- Di-n-butylphtl			<1.0		ug/L		1	23-SEP-21
	Fluorobiphenyl		75.8		~ <u>9</u> / <u>-</u> %		40-130	23-SEP-21
-	Terphenyl d14		111.6		%		40-130	23-SEP-21
BOD-C-WT	Water							
Batch	R5595897							
WG3619785-2 BOD Carbon		L2639932-1 3.9	2.3	J	mg/L	1.6	4	17-SEP-21
WG3619785-3 BOD Carbon			98.0		%		85-115	17-SEP-21
WG3619785- BOD Carbon			<2.0		mg/L		2	17-SEP-21
CN-TOT-WT	Water							
Batch	R5587382							
WG3619703-8 Cyanide, Tota		WG3619703-1 <0.0020	0 <0.0020	RPD-NA	mg/L	N/A	20	17-SEP-21
WG3619703-7 Cyanide, Tota			91.4		%		80-120	17-SEP-21
WG3619703-6 Cyanide, Tota			<0.0020		mg/L		0.002	17-SEP-21
WG3619703- Cyanide, Tota		WG3619703-1	0 92.0		%		70-130	17-SEP-21
EC-WW-MF-WT	Water							
Batch WG3619317-3 E. Coli	R5589616 3 DUP	L2640525-6 0	0		CFU/100mL	0.0	65	17-SEP-21
WG3619317-	1 MB							



Quality Control Report

			Workorder:	L2640093	Rep	oort Date: 23-SE	P-21		Page 2 of 14
Client:	15-400 ES	NVIRONMENTAL SNA PARK DRIVE M ON N/A							
Contact:	CLIVE								
Test		Matrix	Reference	Result C	ualifier	Units	RPD	Limit	Analyzed
EC-WW-MF-WT		Water							
Batch	R5589616								
WG3619317- E. Coli	1 MB			0		CFU/100mL		1	17-SEP-21
F-IC-N-WT		Water							
Batch	R5587323								
WG3619689- Fluoride (F)	4 DUP		WG3619689-3 0.046	0.047		mg/L	0.7	20	17-SEP-21
WG3619689-2	2 LCS		0.040	0.047		iiig/L	0.7	20	17-3EF-21
Fluoride (F)	200			101.2		%		90-110	17-SEP-21
WG3619689- Fluoride (F)	1 MB			<0.020		mg/L		0.02	17-SEP-21
WG3619689-	5 MS		WG3619689-3	0.020		<u>g</u> , _		0.02	17-3E1-21
Fluoride (F)				103.8		%		75-125	17-SEP-21
FC-WW-MF-WT		Water							
Batch WG3619308- Fecal Colifor				0		CFU/100mL		1	17-SEP-21
HG-T-CVAA-WT		Water							
Batch	R5587825								
WG3619639- Mercury (Hg)			L2639289-1 0.0000120	0.0000123		mg/L	2.5	20	20-SEP-21
WG3619639-2				101.0		0/		/	
Mercury (Hg) WG3619639 -				104.0		%		80-120	20-SEP-21
Mercury (Hg)				<0.0000050		mg/L		0.000005	20-SEP-21
WG3619639- Mercury (Hg)			L2639774-1	109.0		%		70-130	20-SEP-21
MET-T-CCMS-W	T	Water							
	R5586131								
WG3619129- Aluminum (A			WG3619129-3 0.0658	0.0604		mg/L	8.5	20	17-SEP-21
Antimony (St	o)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-SEP-21
Arsenic (As)-	Total		0.00018	0.00020		mg/L	11	20	17-SEP-21
Cadmium (C	d)-Total		0.0000097	0.0000121	J	mg/L	0.0000024	0.00001	17-SEP-21
Chromium (C	Cr)-Total		<0.00050	0.00055	RPD-NA	mg/L	N/A	20	17-SEP-21
Cobalt (Co)-Total			0.00018	0.00019		mg/L	5.8	20	17-SEP-21



Quality Control Report

Workorder: L2640093

Report Date: 23-SEP-21

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Client: FISHER ENVIRONMENTAL 15-400 ESNA PARK DRIVE

MARKHAM ON N/A

CLIVE

Contact:

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-T-CCMS-WT	Water							
Batch R5586131								
WG3619129-4 DUP		WG3619129-3	0.00044			4.0		
Copper (Cu)-Total		0.00240	0.00244		mg/L	1.9	20	17-SEP-21
Lead (Pb)-Total		0.000093	0.000092		mg/L	0.5	20	17-SEP-21
Manganese (Mn)-Total		0.00721	0.00757		mg/L	4.8	20	17-SEP-21
Molybdenum (Mo)-Total		<0.000050	<0.000050	RPD-NA	mg/L	N/A	20	17-SEP-21
Nickel (Ni)-Total		0.00210	0.00213		mg/L	1.6	20	17-SEP-21
Selenium (Se)-Total		0.000056	<0.000050		mg/L	N/A	20	17-SEP-21
Silver (Ag)-Total		<0.000050	<0.000050		mg/L	N/A	20	17-SEP-21
Tin (Sn)-Total		<0.00010	<0.00010	RPD-NA	mg/L	N/A	20	17-SEP-21
Titanium (Ti)-Total		0.00243	0.00224		mg/L	8.5	20	17-SEP-21
Zinc (Zn)-Total		0.0037	0.0036		mg/L	3.3	20	17-SEP-21
WG3619129-2 LCS Aluminum (Al)-Total			101.0		%		80-120	17-SEP-21
Antimony (Sb)-Total			99.1		%		80-120	17-SEP-21
Arsenic (As)-Total			100.3		%		80-120	17-SEP-21
Cadmium (Cd)-Total			98.2		%		80-120	17-SEP-21
Chromium (Cr)-Total			98.5		%		80-120	17-SEP-21
Cobalt (Co)-Total			100.2		%		80-120	17-SEP-21
Copper (Cu)-Total			98.7		%		80-120	17-SEP-21
Lead (Pb)-Total			99.4		%		80-120	17-SEP-21
Manganese (Mn)-Total			99.8		%		80-120	17-SEP-21
Molybdenum (Mo)-Total			100.1		%		80-120	17-SEP-21
Nickel (Ni)-Total			98.2		%		80-120	17-SEP-21
Selenium (Se)-Total			96.4		%		80-120	17-SEP-21
Silver (Ag)-Total			103.6		%		80-120	17-SEP-21
Tin (Sn)-Total			98.6		%		80-120	17-SEP-21
Titanium (Ti)-Total			94.2		%		80-120	17-SEP-21
Zinc (Zn)-Total			96.3		%		80-120	17-SEP-21
WG3619129-1 MB Aluminum (Al)-Total			<0.0050		mg/L		0.005	17-SEP-21
Antimony (Sb)-Total			<0.00010		mg/L		0.0001	17-SEP-21
Arsenic (As)-Total			<0.00010		mg/L		0.0001	17-SEP-21
Cadmium (Cd)-Total			<0.000005	0	mg/L		0.000005	17-SEP-21
Chromium (Cr)-Total			<0.00050		mg/L		0.0005	17-SEP-21
Cobalt (Co)-Total			<0.00010		mg/L		0.0001	17-SEP-21



Client:

Test

Batch

Batch

WG3619483-2

LCS

FISHER ENVIRONMENTAL

Quality Control Report

Report Date: 23-SEP-21

Workorder: L2640093

15-400 ESNA PARK DRIVE MARKHAM ON N/A Contact: CLIVE Matrix Reference Result Qualifier Units RPD Limit Analyzed MET-T-CCMS-WT Water R5586131 WG3619129-1 MB Copper (Cu)-Total < 0.00050 0.0005 mg/L 17-SEP-21 0.00005 Lead (Pb)-Total < 0.000050 mg/L 17-SEP-21 0.0005 Manganese (Mn)-Total < 0.00050 mg/L 17-SEP-21 Molybdenum (Mo)-Total < 0.000050 mg/L 0.00005 17-SEP-21 0.0005 Nickel (Ni)-Total < 0.00050 mg/L 17-SEP-21 Selenium (Se)-Total < 0.000050 mg/L 0.00005 17-SEP-21 0.00005 Silver (Ag)-Total < 0.000050 mg/L 17-SEP-21 Tin (Sn)-Total < 0.00010 mg/L 0.0001 17-SEP-21 Titanium (Ti)-Total < 0.00030 mg/L 0.0003 17-SEP-21 Zinc (Zn)-Total < 0.0030 mg/L 0.003 17-SEP-21 WG3619129-5 WG3619129-6 MS Aluminum (Al)-Total 94.2 % 70-130 17-SEP-21 Antimony (Sb)-Total 102.2 % 70-130 17-SEP-21 % Arsenic (As)-Total 101.7 70-130 17-SEP-21 Cadmium (Cd)-Total 101.8 % 70-130 17-SEP-21 Chromium (Cr)-Total 100.4 % 70-130 17-SEP-21 Cobalt (Co)-Total 103.0 % 70-130 17-SEP-21 Copper (Cu)-Total 102.0 % 70-130 17-SEP-21 Lead (Pb)-Total 103.2 % 70-130 17-SEP-21 Manganese (Mn)-Total N/A MS-B % _ 17-SEP-21 % Molybdenum (Mo)-Total 101.3 70-130 17-SEP-21 Nickel (Ni)-Total 103.2 % 70-130 17-SEP-21 % Selenium (Se)-Total 102.7 70-130 17-SEP-21 Silver (Ag)-Total 105.8 % 70-130 17-SEP-21 Tin (Sn)-Total 101.7 % 70-130 17-SEP-21 Titanium (Ti)-Total 93.2 % 70-130 17-SEP-21 Zinc (Zn)-Total 98.4 % 70-130 17-SEP-21 NP,NPE-LCMS-WT Water R5588139 WG3619483-3 DUP L2638090-1 Nonylphenol <1.0 <1.0 **RPD-NA** ug/L N/A 30 20-SEP-21 Nonylphenol Monoethoxylates <2.0 <2.0 **RPD-NA** ug/L N/A 30 20-SEP-21 Nonylphenol Diethoxylates 1.08 1.16 ug/L 7.2 30 20-SEP-21

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			Workorder:	L264009	3	Report Date: 23-	SEP-21		Page 5 of 14
Client: Contact:	15-400 ES	INVIRONMENTA ISNA PARK DRIVE M ON N/A							
	CEIVE	N - 4	Defenses	D	Overlifier	11 14		1	A
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NP,NPE-LCMS-V	VT	Water							
	R5588139								
WG3619483-2 Nonylphenol	2 LCS			84.2		%		75-125	20-SEP-21
Nonylphenol	Monoethoxy	ylates		92.4		%		75-125	20-SEP-21
Nonylphenol	Diethoxylate	es		98.5		%		75-125	20-SEP-21
WG3619483-1	МВ								
Nonylphenol				<1.0		ug/L		1	20-SEP-21
Nonylphenol	Monoethoxy	ylates		<2.0		ug/L		2	20-SEP-21
Nonylphenol	Diethoxylate	es		<0.10		ug/L		0.1	20-SEP-21
WG3619483-4	1 MS		L2638090-1	00.0		0/			
Nonylphenol	N	Jakan		60.0		%		60-140	20-SEP-21
Nonylphenol				80.4	M0 D	%		60-140	20-SEP-21
Nonylphenol	Diethoxylate	98		N/A	MS-B	%		-	20-SEP-21
OGG-SPEC-WT		Water							
	R5588940								
WG3620508-2 Oil and Greas				88.7		%		70-130	20-SEP-21
Mineral Oil ar				80.9		%		70-130	20-SEP-21
WG3620508-1	I MB								
Oil and Greas	se, Total			<5.0		mg/L		5	20-SEP-21
Mineral Oil ar	nd Grease			<2.5		mg/L		2.5	20-SEP-21
P-T-COL-WT		Water							
Batch	R5586099								
WG3618944-3			L2639948-1						
Phosphorus,			0.0089	0.0095		mg/L	6.7	20	17-SEP-21
WG3618944-2 Phosphorus,				101.6		%		80-120	17-SEP-21
WG3618944-1				101.0				00-120	
Phosphorus,				<0.0030		mg/L		0.003	17-SEP-21
WG3618944-4	1 MS		L2639948-1						
Phosphorus,	Total			98.5		%		70-130	17-SEP-21
PCB-WT		Water							
Batch I	R5590177								
WG3620703-2	2 LCS			06.0		0/		05 (00	
Aroclor 1242				96.2 111.6		%		65-130	21-SEP-21
Aroclor 1248 Aroclor 1254				97.2		%		65-130	21-SEP-21
ATUGUT 1204				51.2		/0		65-130	21-SEP-21



WG3619689-2

Sulfate (SO4)

LCS

Quality Control Report

			Workorder:	L2640093	3	Report Date: 23	-SEP-21		Page 6 of 14
Client:	15-400 ES	ENVIRONMENTAL SNA PARK DRIVE M ON N/A							
Contact:	CLIVE								
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-WT		Water							
	R5590177								
WG3620703-2 Aroclor 1260	2 LCS			126.6		%		65-130	21-SEP-21
WG3620703-3 Aroclor 1242	B LCSD		WG3620703-2 96.2	86.7		%	10	50	21-SEP-21
Aroclor 1248			111.6	111.6		%	0.0	50	21-SEP-21
Aroclor 1254			97.2	86.7		%	11	50	21-SEP-21
Aroclor 1260			126.6	115.2		%	9.4	50	21-SEP-21
WG3620703-1	I MB								
Aroclor 1242				<0.020		ug/L		0.02	21-SEP-21
Aroclor 1248 Aroclor 1254				<0.020 <0.020		ug/L		0.02 0.02	21-SEP-21
Aroclor 1254 Aroclor 1260				<0.020		ug/L ug/L		0.02	21-SEP-21 21-SEP-21
Surrogate: De	ecachlorobi	inhenvl		121.4		%		50-150	21-SEP-21 21-SEP-21
Surrogate: Te				85.9		%		50-150	21-SEP-21
PH-WT		Water							
	R5586818								
WG3620023-4 pH	1 DUP		WG3620023-3 8.27	8.17	J	pH units	0.10	0.2	17-SEP-21
WG3620023-2 рН	2 LCS			6.99		pH units		6.9-7.1	17-SEP-21
PHENOLS-4AAP	-WT	Water							
Batch I	R5586158								
WG3618908-3 Phenols (4AA			L2639437-4 <0.0010	<0.0010	RPD-NA	mg/L	N/A	20	16-SEP-21
WG3618908-2 Phenols (4AA				93.6		%		85-115	16-SEP-21
WG3618908- 1 Phenols (4AA				<0.0010		mg/L		0.001	16-SEP-21
WG3618908-4 Phenols (4AA			L2639437-4	97.1		%		75-125	16-SEP-21
SO4-IC-N-WT		Water							
Batch I	R5587323								
WG3619689-4 Sulfate (SO4)			WG3619689-3 1.08	1.06		mg/L	1.9	20	17-SEP-21

100.1

%

90-110

17-SEP-21



			Workorder:	۔ L2640093	- 6 Re	۔ eport Date: 23-s	SEP-21		Page 7 of 14
Client:	15-400 ES MARKHAI	ENVIRONMENTA SNA PARK DRIVE M ON N/A							
Contact:	CLIVE								
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SO4-IC-N-WT		Water							
Batch WG3619689- ⁻ Sulfate (SO4				<0.30		mg/L		0.3	17-SEP-21
WG3619689- Sulfate (SO4			WG3619689-3	101.3		%		75-125	17-SEP-21
SOLIDS-TSS-W	г	Water							
Batch	R5591856								
WG3620846-3 Total Suspen	ided Solids		L2640093-1 161	155		mg/L	3.6	20	21-SEP-21
WG3620846-2 Total Suspen	nded Solids			94.3		%		85-115	21-SEP-21
WG3620846- Total Suspen				<3.0		mg/L		3	21-SEP-21
TKN-F-WT		Water							
	R5593159								
WG3619118-3 Total Kjeldah			L2640038-1 0.330	0.420	J	mg/L	0.090	0.1	22-SEP-21
WG3619118-2 Total Kjeldah				110.5		%		75-125	22-SEP-21
WG3619118- Total Kjeldah				<0.050		mg/L		0.05	22-SEP-21
WG3619118- Total Kjeldah			L2640038-1	110.4		%		70-130	22-SEP-21
VOC-ROU-HS-W	/Т	Water							
Batch	R5586227								
WG3618821- 1,1,1,2-Tetra			WG3618821-3 <0.50	<0.50	RPD-NA	ug/L	N/A	30	
1,1,2-Tetra			<0.50	<0.50	RPD-NA	ug/L	N/A	30 30	17-SEP-21 17-SEP-21
1,1,1-Trichlor			<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,1,2-Trichlor			<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,2-Dibromoe			<0.20	<0.20	RPD-NA	ug/L	N/A	30	17-SEP-21
1,1-Dichloroe			<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,1-Dichloroe	ethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,2-Dichlorob	benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,2-Dichloroe	ethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,2-Dichlorop	propane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
1,3-Dichlorot	oenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21



Workorder: L2640093

Report Date: 23-SEP-21

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FISHER ENVIRONMENTAL Client: 15-400 ESNA PARK DRIVE

MARKHAM ON N/A CLIVE

Contact:

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	Water							
Batch R5586227								
WG3618821-4 DUP		WG3618821-3						
1,4-Dichlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
2-Hexanone		<20	<20	RPD-NA	ug/L	N/A	30	17-SEP-21
Acetone		<20	<20	RPD-NA	ug/L	N/A	30	17-SEP-21
Benzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Bromodichloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Bromoform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Bromomethane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Carbon Disulfide		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Carbon tetrachloride		<0.50	<0.20	RPD-NA	ug/L	N/A	30	17-SEP-21
Chlorobenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Chloroethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Chloroform		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Chloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	17-SEP-21
cis-1,2-Dichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
cis-1,3-Dichloropropene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	17-SEP-21
Dibromochloromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Dichlorodifluoromethane)	<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Dichloromethane		<2.0	<2.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Ethylbenzene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
m+p-Xylenes		<0.40	<0.40	RPD-NA	ug/L	N/A	30	17-SEP-21
Methyl Ethyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	17-SEP-21
Methyl Isobutyl Ketone		<20	<20	RPD-NA	ug/L	N/A	30	17-SEP-21
n-Hexane		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
MTBE		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
o-Xylene		<0.30	<0.30	RPD-NA	ug/L	N/A	30	17-SEP-21
Styrene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Tetrachloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Toluene		<0.40	<0.40	RPD-NA	ug/L	N/A	30	17-SEP-21
trans-1,2-Dichloroethyle	ne	<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
trans-1,3-Dichloroproper	ne	<0.30	<0.30	RPD-NA	ug/L	N/A	30	17-SEP-21
Trichloroethylene		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
Trichlorofluoromethane		<1.0	<1.0	RPD-NA	ug/L	N/A	30	17-SEP-21
Vinyl chloride		<0.50	<0.50		ug/L			17-SEP-21



Workorder: L2640093

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FISHER ENVIRONMENTAL Client:

15-400 ESNA PARK DRIVE MARKHAM ON N/A CLIVE

Contact:

			.					
Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	Water							
Batch R5586227								
WG3618821-4 DUP Vinyl chloride		WG3618821- <0.50	3 <0.50		ug/l	N1/A	20	
-		<0.50	<0.50	RPD-NA	ug/L	N/A	30	17-SEP-21
WG3618821-1 LCS 1,1,1,2-Tetrachloroethane	e		96.5		%		70-130	17-SEP-21
1,1,2,2-Tetrachloroethane	e		86.3		%		70-130	17-SEP-21
1,1,1-Trichloroethane			100.2		%		70-130	17-SEP-21
1,1,2-Trichloroethane			91.5		%		70-130	17-SEP-21
1,2-Dibromoethane			90.5		%		70-130	17-SEP-21
1,1-Dichloroethane			90.9		%		70-130	17-SEP-21
1,1-Dichloroethylene			96.8		%		70-130	17-SEP-21
1,2-Dichlorobenzene			97.6		%		70-130	17-SEP-21
1,2-Dichloroethane			95.0		%		70-130	17-SEP-21
1,2-Dichloropropane			93.9		%		70-130	17-SEP-21
1,3-Dichlorobenzene			100.0		%		70-130	17-SEP-21
1,4-Dichlorobenzene			100.4		%		70-130	17-SEP-21
2-Hexanone			77.8		%		60-140	17-SEP-21
Acetone			90.0		%		60-140	17-SEP-21
Benzene			93.3		%		70-130	17-SEP-21
Bromodichloromethane			101.4		%		70-130	17-SEP-21
Bromoform			85.0		%		70-130	17-SEP-21
Bromomethane			95.7		%		60-140	17-SEP-21
Carbon Disulfide			96.4		%		70-130	17-SEP-21
Carbon tetrachloride			100.9		%		70-130	17-SEP-21
Chlorobenzene			96.9		%		70-130	17-SEP-21
Chloroethane			91.9		%		70-130	17-SEP-21
Chloroform			97.4		%		70-130	17-SEP-21
Chloromethane			87.8		%		60-140	17-SEP-21
cis-1,2-Dichloroethylene			96.5		%		70-130	17-SEP-21
cis-1,3-Dichloropropene			88.3		%		70-130	17-SEP-21
Dibromochloromethane			91.9		%		70-130	17-SEP-21
Dichlorodifluoromethane			97.5		%		50-140	17-SEP-21
Dichloromethane			89.7		%		70-130	17-SEP-21
Ethylbenzene			97.7		%		70-130	17-SEP-21
m+p-Xylenes			98.3		%		70-130	17-SEP-21
Methyl Ethyl Ketone			81.9		%		60-140	17-SEP-21



Workorder: L2640093

Report Date: 23-SEP-21

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Client: FISHER ENVIRONMENTAL 15-400 ESNA PARK DRIVE MARKHAM ON N/A

CLIVE

Contact:

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	Water							
Batch R55862	27							
WG3618821-1 LC			04 5		0/		50 450	
Methyl Isobutyl Ketor	he		84.5		%		50-150	17-SEP-21
n-Hexane			92.0		%		70-130	17-SEP-21
MTBE			102.2		%		70-130	17-SEP-21
o-Xylene			96.8		%		70-130	17-SEP-21
Styrene			96.6		%		70-130	17-SEP-21
Tetrachloroethylene			101.6		%		70-130	17-SEP-21
Toluene			95.5		%		70-130	17-SEP-21
trans-1,2-Dichloroeth	-		95.4		%		70-130	17-SEP-21
trans-1,3-Dichloropro	opene		84.7		%		70-130	17-SEP-21
Trichloroethylene			97.8		%		70-130	17-SEP-21
Trichlorofluorometha	ine		102.9		%		60-140	17-SEP-21
Vinyl chloride			87.5		%		60-140	17-SEP-21
WG3618821-2 ME 1,1,1,2-Tetrachloroe			<0.50		ug/L		0.5	17-SEP-21
1,1,2,2-Tetrachloroe			<0.50		ug/L		0.5	17-SEP-21
1,1,1-Trichloroethan			<0.50		ug/L		0.5	17-SEP-21
1,1,2-Trichloroethan			< 0.50		ug/L		0.5	17-SEP-21
1,2-Dibromoethane			<0.20		ug/L		0.2	17-SEP-21
1,1-Dichloroethane			<0.50		ug/L		0.5	17-SEP-21
1,1-Dichloroethylene			<0.50		ug/L		0.5	17-SEP-21
1,2-Dichlorobenzene			<0.50		ug/L		0.5	17-SEP-21
1,2-Dichloroethane			<0.50		ug/L		0.5	17-SEP-21
1,2-Dichloropropane			<0.50		ug/L		0.5	17-SEP-21
1,3-Dichlorobenzene	•		<0.50		ug/L		0.5	17-SEP-21
1,4-Dichlorobenzene	•		<0.50		ug/L		0.5	17-SEP-21
2-Hexanone			<20		ug/L		20	17-SEP-21
Acetone			<20		ug/L		20	17-SEP-21
Benzene			<0.50		ug/L		0.5	17-SEP-21
Bromodichlorometha	ine		<1.0		ug/L		1	17-SEP-21
Bromoform			<1.0		ug/L		1	17-SEP-21
Bromomethane			<0.50		ug/L		0.5	17-SEP-21
Carbon Disulfide			<1.0		ug/L		1	17-SEP-21
Carbon tetrachloride			<0.20		ug/L		0.2	17-SEP-21
Chlorobenzene			<0.50		ug/L		0.5	17-SEP-21
1					-			···



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Client: FISHER ENVIRONMENTAL 15-400 ESNA PARK DRIVE MARKHAM ON N/A

CLIVE

Contact:

Test Matrix Reference Result Qualifier Units RPD Limit Analyzed VOC-ROU-HS-WT Water R5586227 Batch WG3618821-2 MB Chloroethane <1.0 1 ug/L 17-SEP-21 1 Chloroform <1.0 ug/L 17-SEP-21 2 Chloromethane <2.0 ug/L 17-SEP-21 cis-1,2-Dichloroethylene < 0.50 0.5 ug/L 17-SEP-21 cis-1,3-Dichloropropene < 0.30 ug/L 0.3 17-SEP-21 Dibromochloromethane <1.0 ug/L 1 17-SEP-21 Dichlorodifluoromethane 1 <1.0 ug/L 17-SEP-21 Dichloromethane <2.0 2 ug/L 17-SEP-21 Ethylbenzene < 0.50 ug/L 0.5 17-SEP-21 m+p-Xylenes < 0.40 ug/L 0.4 17-SEP-21 Methyl Ethyl Ketone <20 ug/L 20 17-SEP-21 Methyl Isobutyl Ketone <20 ug/L 20 17-SEP-21 n-Hexane 0.5 < 0.50 ug/L 17-SEP-21 MTBE < 0.50 ug/L 0.5 17-SEP-21 o-Xylene <0.30 ug/L 0.3 17-SEP-21 Styrene < 0.50 ug/L 0.5 17-SEP-21 Tetrachloroethylene 0.5 <0.50 ug/L 17-SEP-21 Toluene <0.40 ug/L 0.4 17-SEP-21 trans-1,2-Dichloroethylene 0.5 < 0.50 ug/L 17-SEP-21 trans-1,3-Dichloropropene <0.30 0.3 ug/L 17-SEP-21 Trichloroethylene <0.50 0.5 ug/L 17-SEP-21 Trichlorofluoromethane <1.0 ug/L 1 17-SEP-21 Vinyl chloride < 0.50 ug/L 0.5 17-SEP-21 Surrogate: 1,4-Difluorobenzene % 70-130 102.5 17-SEP-21 Surrogate: 4-Bromofluorobenzene 102.1 % 70-130 17-SEP-21 WG3618821-5 MS WG3618821-3 1,1,1,2-Tetrachloroethane 91.9 % 50-150 17-SEP-21 79.0 % 1,1,2,2-Tetrachloroethane 50-150 17-SEP-21 1,1,1-Trichloroethane 94.7 % 50-150 17-SEP-21 85.6 % 1,1,2-Trichloroethane 50-150 17-SEP-21 1,2-Dibromoethane % 50-150 84.0 17-SEP-21 1,1-Dichloroethane 85.8 % 50-150 17-SEP-21 1,1-Dichloroethylene 89.6 % 50-150 17-SEP-21 92.5 % 1,2-Dichlorobenzene 50-150 17-SEP-21



Workorder: L2640093

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FISHER ENVIRONMENTAL

Client:	FISHER ENVIRONMENTAL
	15-400 ESNA PARK DRIVE
	MARKHAM ON N/A

CLIVE

Contact:

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-WT	Water							
Batch R5586227								
WG3618821-5 MS		WG3618821-			0/			
1,2-Dichloroethane			87.7		%		50-150	17-SEP-21
1,2-Dichloropropane			88.2		%		50-150	17-SEP-21
1,3-Dichlorobenzene			95.7		%		50-150	17-SEP-21
1,4-Dichlorobenzene			95.3		%		50-150	17-SEP-21
2-Hexanone			69.7		%		50-150	17-SEP-21
Acetone			84.4		%		50-150	17-SEP-21
Benzene			87.4		%		50-150	17-SEP-21
Bromodichloromethane			95.3		%		50-150	17-SEP-21
Bromoform			78.7		%		50-150	17-SEP-21
Bromomethane			84.6		%		50-150	17-SEP-21
Carbon Disulfide			87.3		%		50-150	17-SEP-21
Carbon tetrachloride			95.6		%		50-150	17-SEP-21
Chlorobenzene			92.2		%		50-150	17-SEP-21
Chloroethane			83.5		%		50-150	17-SEP-21
Chloroform			91.7		%		50-150	17-SEP-21
Chloromethane			75.6		%		50-150	17-SEP-21
cis-1,2-Dichloroethylene			90.0		%		50-150	17-SEP-21
cis-1,3-Dichloropropene			79.8		%		50-150	17-SEP-21
Dibromochloromethane			86.3		%		50-150	17-SEP-21
Dichlorodifluoromethane			78.9		%		50-150	17-SEP-21
Dichloromethane			83.2		%		50-150	17-SEP-21
Ethylbenzene			93.5		%		50-150	17-SEP-21
m+p-Xylenes			94.1		%		50-150	17-SEP-21
Methyl Ethyl Ketone			73.1		%		50-150	17-SEP-21
Methyl Isobutyl Ketone			75.5		%		50-150	17-SEP-21
n-Hexane			85.0		%		50-150	17-SEP-21
MTBE			97.6		%		50-150	17-SEP-21
o-Xylene			92.1		%		50-150	17-SEP-21
Styrene			91.1		%		50-150	17-SEP-21
Tetrachloroethylene			97.0		%		50-150	17-SEP-21
Toluene			91.1		%		50-150	17-SEP-21
trans-1,2-Dichloroethyler	ne		88.9		%		50-150	17-SEP-21
trans-1,3-Dichloroproper	ne		76.6		%		50-150	17-SEP-21



			Workorder:	L2640093	i	Report Date:	23-SEP-21		Page 13 of 14
Client:	15-400 ES	ENVIRONMENTAI SNA PARK DRIVE M ON N/A	-						
Contact:	CLIVE								
Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-ROU-HS-W	/т	Water							
	/T R5586227	Water							
	R5586227	Water	WG3618821-3	6					
Batch	R5586227 5 MS	Water	WG3618821-3	92.2		%		50-150	17-SEP-21
Batch WG3618821-{	R5586227 5 MS lene	Water	WG3618821-3			% %		50-150 50-150	17-SEP-21 17-SEP-21

Client: FISHER ENVIRONMENTAL 15-400 ESNA PARK DRIVE MARKHAM ON N/A Contact: CLIVE

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.





Constody (COC) / Analytical Request Form

anada Toll Free: 1 800 668 9878

COC Number: 20 - 892424

Report To	Contact and company name below will app	1	Reports / Recipients					Turnaround Time (TAT) Requested													
Company:	Fisher Environin	nengl	Select Report -	🙀 PDF		DD (DIGITAL)		butine [R]	if receiv	red by 3	pm M-F-	no surcha	arges app	ly		7					
Contact:	Ciwe 416-605-9722	•	Merge QC/QC	I Reports with COA	🗌 YES 🔲 N	IO 🛄 N/A	0 4	day [P4] it	receive	ed by 3p	m M-F-	20% rush	surcharg	je minimur	m						
Phone:	46-605-9722		Compare Resul	lts to Criteria on Report - I	provide details below i	if box checked		day [P3]						-		AF		BARCO		EL HEF	₹E
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APPENDIX E – HYDRAULIC CONDUCTIVITY ANALYSES



Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023



Location:	3855 Dundas Street East, Mississauga
Project:	FE-P-20-10464 HydroGeo
Test Date:	2020-09-04
Well No.	MW102

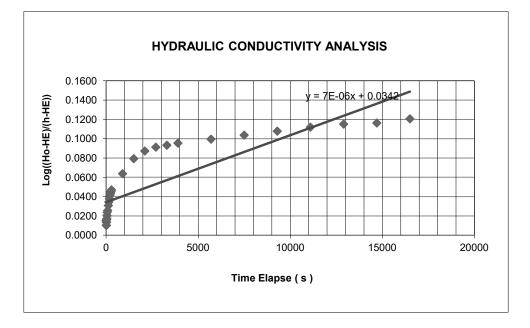
Equilibrium Water level (from top of pipe) HE	377	cm
Initial Water level (from top of pipe) Ho	443	ст
Monitoring well inner diameter d	0.05	m
Initial Time offset To	5	second
Reverse of Luthin's reference system Ru = Ho - HE	66.00	ст
Slope of Log((ho-he)/(ht-he)) / T	7.00E-06	
G = Ru / (HT - HE)		

Hydraulic conductivity computed k =

0.0000106	cm/s
1.06E-07	m/s
0.009	m/day

Tir	ne	HT (Wat	er Drop)	G	LOG (G)		
(Interval s)	(Elapsed s)	(m)	(cm)	ů,	.,		
5	5	4.420	442.00	1.0154	0.0147		
5	10	4.415	441.50	1.0233	0.0100		
5	15	4.415	441.50	1.0233	0.0100		
5	20	4.410	441.00	1.0313	0.0134		
5	25	4.410	441.00	1.0313	0.0134		
5	30	4.405	440.50	1.0394	0.0168		
5	35	4.405	440.50	1.0394	0.0168		
5	40	4.405	440.50	1.0394	0.0168		
5	45	4.405	440.50	1.0394	0.0168		
5	50	4.400	440.00	1.0476	0.0202		
5	55	4.400	440.00	1.0476	0.0202		
5	60	4.395	439.50	1.0560	0.0237		
30	90	4.393	439.25	1.0602	0.0254		
30	120	4.385	438.50	1.0732	0.0307		
30	150	150 4.380		1.0820	0.0342		
30	180	4.375	437.50	1.0909	0.0378		
30	210	4.370	437.00	1.1000	0.0414		
30	240	0 4.368 436.7		1.1046	0.0432		
30	270	4.365	436.50	1.1092	0.0450		
30	300	4.363 436.25		1.1139	0.0469		
600	900	4.340	434.00	1.1579	0.0637		
600	1500	4.320	432.00	1.2000	0.0792		
600	2100	4.310	431.00	1.2222	0.0872		
600	2700	4.305	430.50	1.2336	0.0912		
600	3300	4.303	430.25	1.2394	0.0932		
600	3900	4.300	430.00	1.2453	0.0953		
1800	5700	4.295	429.50	1.2571	0.0994		
1800	7500	4.290	429.00	1.2692	0.1035		
1800	9300	4.285	428.50	1.2816	0.1077		
1800	11100	4.280	428.00	1.2941	0.1120		
1800	12900	4.277	427.65	1.3031	0.1150		
1800	14700	4.275	427.50	1.3069	0.1163		
1800	16500	4.270	427.00	1.3200	0.1206		
1800	18300	4.268	426.75	1.3266	0.1228		







Location:	3855 Dundas Street East, Mississauga
Project:	FE-P-20-10464 HydroGeo
Test Date:	2020-09-04
Well No.	MW104

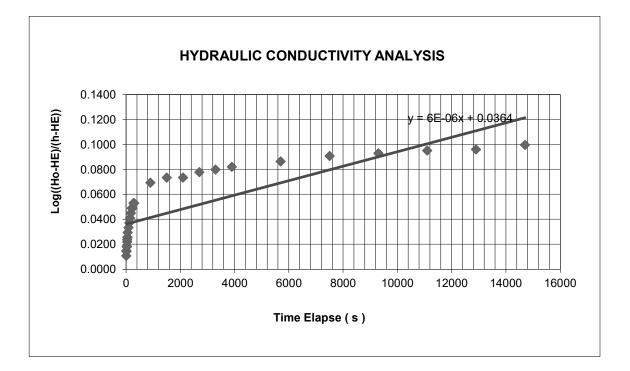
Equilibrium Water level (from top of pipe) HE 33	39 c	cm
Initial Water level (from top of pipe) Ho 44	50 c	ст
Monitoring well inner diameter d 0.)5 n	m
Initial Time offset To	5 s	second
Reverse of Luthin's reference system Ru = Ho - HE 61.)0 c	cm
Slope of Log((ho-he)/(ht-he)) / T 6.00E-)6	
G = Ru / (HT - HE)		

Hydraulic conductivity computed k =

0.0000091	cm/s
9.08E-08	m/s
0.008	m/day

Tir	ne	HT (Wat	ter Drop)	G	LOG (G)		
(Interval s)	(Elapsed s)	(m)	(cm)				
5	5	4.490	449.00	1.0167	0.0147		
5	10	4.485	448.50	1.0252	0.0108		
5	15	4.480	448.00	1.0339	0.0145		
5	20	4.480	448.00	1.0339	0.0145		
5	25	4.475	447.50	1.0427	0.0182		
5	30	4.475	447.50	1.0427	0.0182		
5	35	4.475	447.50	1.0427	0.0182		
5	40	4.470	447.00	1.0517	0.0219		
5	45	4.468	446.75	1.0563	0.0238		
5	50	4.465	446.50	1.0609	0.0257		
5	55	4.465	446.50	1.0609	0.0257		
5	60	4.460	446.00	1.0702	0.0295		
30	90	4.455	445.50	1.0796	0.0333		
30	120	4.450	445.00	1.0893	0.0371		
30	150	4.445	444.50	1.0991	0.0410		
30	180	4.440	444.00	44.00 1.1091			
30	210	4.435	443.50	1.1193	0.0489		
30	240	4.435	443.50	1.1193	0.0489		
30	270	4.430	443.00	1.1296	0.0529		
30	300	4.430	443.00	1.1296	0.0529		
600	900	4.410	441.00	1.1731	0.0693		
600	1500	4.405	440.50	1.1845	0.0735		
600	2100	4.405	440.50	1.1845	0.0735		
600	2700	4.400	440.00	1.1961	0.0778		
600	3300	4.398	439.75	1.2020	0.0799		
600	3900	4.395	439.50	1.2079	0.0820		
1800	5700	4.390	439.00	1.2200	0.0864		
1800	7500	4.385	438.50	1.2323	0.0907		
1800	9300	4.383	438.25	1.2386	0.0929		
1800	11100	4.380	438.00	1.2449	0.0951		
1800	12900	4.379	437.90	1.2474	0.0960		
1800	14700	4.375	437.50	1.2577	0.0996		
1800	16500	4.373	437.30	1.2629	0.1014		
1800	18300	4.370	437.00	1.2708	0.1041		







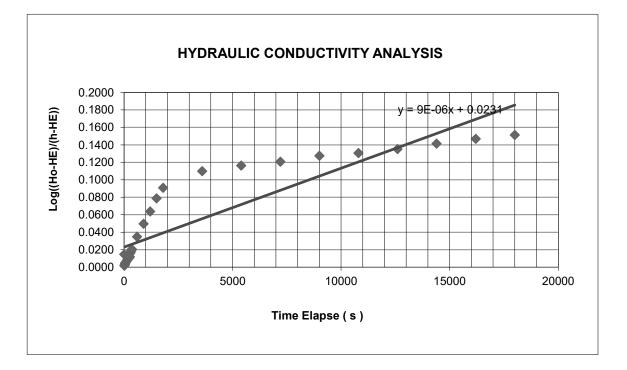
Equilibrium Water level (from top of pipe)HE145 cmInitial Water level (from top of pipe)Ho404.5 cmMonitoring well inner diameter d0.05 mInitial Time offset To5 secondReverse of Luthin's reference system Ru = Ho - HE259.50 cmSlope of Log((ho-he)/(ht-he)) / T9.00E-06G = Ru / (HT - HE)404.5 cm

Hydraulic conductivity computed k =

0.0000136 cm/s 1.36E-07 m/s 0.012 m/day

Tin	ne	HT (Wat	er Drop)	G	LOG (G)
(Interval s)	(Elapsed s)	(m)	(cm)	G	L00 (0)
10	10	4.040	404.00	1.0019	0.0147
10	20	4.035	403.50	1.0039	0.0017
10	30	4.030	403.00	1.0058	0.0025
10	40	4.025	402.50	1.0078	0.0034
10	50	4.020	402.00	1.0097	0.0042
10	60	4.015	401.50	1.0117	0.0050
30	90	4.010	401.00	1.0137	0.0059
30	120	4.005	400.50	1.0157	0.0067
30	150	3.995	399.50	1.0196	0.0084
30	180	3.990	399.00	1.0217	0.0093
30	210	3.988	398.80	1.0225	0.0096
30	240	3.981	398.10	1.0253	0.0108
30	270	3.975	3.975 397.50		0.0119
30	300	3.949	394.90	1.0384	0.0164
30	330	3.936	393.60	1.0438	0.0186
30	360	3.925	392.50	1.0485	0.0206
240	600	3.845	384.50	1.0835	0.0348
300	900	3.765	376.50	1.1210	0.0496
300	1200	3.691	369.10	1.1580	0.0637
300	1500	3.615	361.50	1.1986	0.0787
300	1800	3.555	355.50	1.2328	0.0909
1800	3600	3.465	346.50	1.2878	0.1099
1800	5400	3.435	343.50	1.3073	0.1164
1800	7200	3.415	341.50	1.3206	0.1208
1800	9000	3.385	338.50	1.3411	0.1275
1800	10800	3.371	337.10	1.3509	0.1306
1800	12600	3.351	335.10	1.3651	0.1352
1800	14400	3.324	332.40	1.3847	0.1414
1800	16200	3.300	330.00	1.4027	0.1470
1800	18000	3.282	328.20	1.4165	0.1512







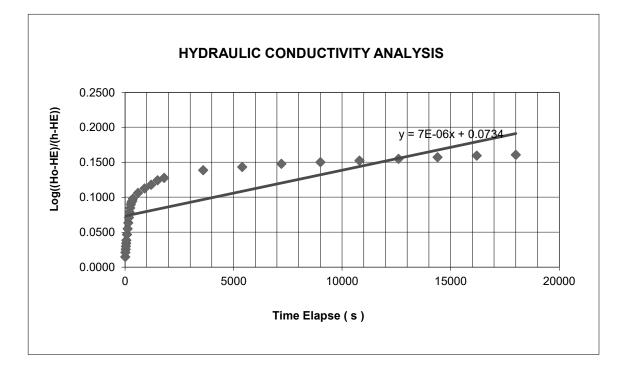
Equilibrium Water level (from top of pipe)HE $394 \, \mathrm{cm}$ Initial Water level (from top of pipe)Ho $447 \, \mathrm{cm}$ Monitoring well inner diameter d $0.05 \, \mathrm{m}$ Initial Time offset To $5 \, \mathrm{second}$ Reverse of Luthin's reference system Ru = Ho - HE $53.00 \, \mathrm{cm}$ Slope of Log((ho-he)/(ht-he)) / T7.00E-06G = Ru / (HT - HE) $50 \, \mathrm{cm}$

Hydraulic conductivity computed k =

0.0000106 cm/s 1.06E-07 m/s 0.009 m/day

Tin	ne	HT (Wat	er Drop)	G			
(Interval s)	(Elapsed s)	(m)	(cm)		LOG (G)		
10	10	4.450	445.00	1.0392	0.0147		
10	20	4.445	444.50	1.0495	0.0210		
10	30	4.440	444.00	1.0600	0.0253		
10	40	4.435	443.50	1.0707	0.0297		
10	50	4.430	443.00	1.0816	0.0341		
10	60	4.425	442.50	1.0928	0.0385		
30	90	4.416	441.60	1.1134	0.0467		
30	120	4.407	440.70	1.1349	0.0550		
30	150	4.398	439.80	1.1572	0.0634		
30	180	4.390	439.00	1.1778	0.0711		
30	210	4.382	438.20	1.1991	0.0789		
30	240	4.376	437.60	1.2156	0.0848		
30	270	4.371	437.10	1.2297	0.0898		
30	300	4.368	436.80	1.2383	0.0928		
30	330	4.366	436.60	1.2441	0.0949		
30	360	4.363	436.30	1.2530	0.0979		
240	600	4.355	435.50	1.2771	0.1062		
300	900	4.349	434.90	1.2958	0.1126		
300	1200	4.344	434.40	1.3119	0.1179		
300	1500	4.338	433.80	1.3317	0.1244		
300	1800	4.335	433.50	1.3418	0.1277		
1800	3600	4.325	432.50	1.3766	0.1388		
1800	5400	4.321	432.10	1.3911	0.1434		
1800	7200	4.317	431.70	1.4058	0.1479		
1800	9000	4.315	431.50	1.4133	0.1502		
1800	10800	4.313	431.30	1.4209	0.1526		
1800	12600	4.311	431.10	1.4286	0.1549		
1800	14400	4.309	430.90	1.4363	0.1572		
1800	16200	4.307	430.70	1.4441	0.1596		
1800	18000	4.306	430.60	1.4481	0.1608		







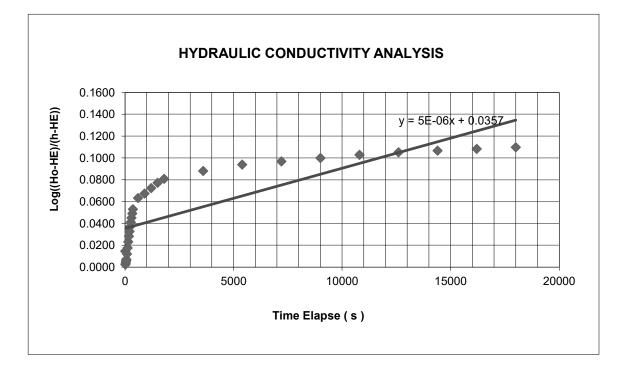
Equilibrium Water level (from top of pipe)HE372 cmInitial Water level (from top of pipe)Ho445 cmMonitoring well inner diameter d0.05 mInitial Time offset To5 secondReverse of Luthin's reference system Ru = Ho - HE73.00 cmSlope of Log((ho-he)/(ht-he)) / T5.00E-06G = Ru / (HT - HE)73.00 cm

Hydraulic conductivity computed k =

0.0000076 cm/s 7.57E-08 m/s 0.007 m/day

Tin	ne	HT (Wat	er Drop)	G	LOG (G)		
(Interval s)	(Elapsed s)	(m)	(cm)	G			
10	10	4.448	444.80	1.0027	0.0147		
10	20	4.446	444.60	1.0055	0.0024		
10	30	4.444	444.40	1.0083	0.0036		
10	40	4.442	444.20	1.0111	0.0048		
10	50	4.440	444.00	1.0139	0.0060		
10	60	4.438	443.80	1.0167	0.0072		
30	90	4.430	443.00	1.0282	0.0121		
30	120	4.421	442.10	1.0414	0.0176		
30	150	4.412	441.20	1.0549	0.0232		
30	180	4.404	440.40	1.0673	0.0283		
30	210	4.397	439.70	1.0783	0.0327		
30	240	4.390	439.00	1.0896	0.0372		
30	270	4.384	438.40	1.0994	0.0412		
30	300	4.378	437.80	1.1094	0.0451		
30	330	4.372	437.20	1.1196	0.0491		
30	360	4.366	436.60	1.1300	0.0531		
240	600	4.351	435.10	1.1569	0.0633		
300	900	4.345	434.50	1.1680	0.0674		
300	1200	4.338	433.80	1.1812	0.0723		
300	1500	4.331	433.10	1.1948	0.0773		
300	1800	4.326	432.60	1.2046	0.0809		
1800	3600	4.316	431.60	1.2248	0.0881		
1800	5400	4.308	430.80	1.2415	0.0939		
1800	7200	4.304	430.40	1.2500	0.0969		
1800	9000	4.300	430.00	1.2586	0.0999		
1800	10800	4.296	429.60	1.2674	0.1029		
1800	12600	4.293	429.30	1.2740	0.1052		
1800	14400	4.291	429.10	1.2785	0.1067		
1800	16200	4.289	428.90	1.2830	0.1082		
1800	18000	4.287	428.70	1.2875	0.1097		





APPENDIX F – DEWATERING RATES AND RADIUS OF INFLUENCE



Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023



Construction Dewatering Calculation

Location: 3855 Dundas Street West, Mississauga Project: FH 21-11440 Date: 7/25/2023

Dupuit Forcheimer for Radial Flow to a Closely Welled System or Excavation

Construction lo	Finished lowest floor elevation (m asl)	ISurface Flev	Surface Elev	^r Surface Elev.		Required Dewatering		water level	Well base elevation	H (m)	h _w (m)	H-h _w (m)	Ro	(m)	r _w	ab (m²)	K (m/s)	H ² -h _w ²	InR₀	Inrw	Q, (m ³ /s)	Q, (m ³ /day)
			(m asl)	on Elevation (m asl)		Elevation (m asl)	(m)				Model	Adjusted										
4-Storey building with 1 UG level	168.05	171.22	166.85	165.85	1.26	169.96	165.55	4.41	0.3	4.11	2.64	42.79	40.15	5064.9	1.03E-07	19.36	3.76	3.69	9.84E-05	8.50		
Industrial Condo with no UG levels	171.40	171.22	169.02	168.02	1.26	169.96	167.72	2.24	0.3	1.94	1.24	30.81	29.56	2745.1	1.03E-07	4.93	3.43	3.39	3.86E-05	3.34		

Dupuit Forcheimer Equation

$$Q = \frac{\pi K (H^2 - h_w^2)}{\ln R_0 - \ln r_w}$$

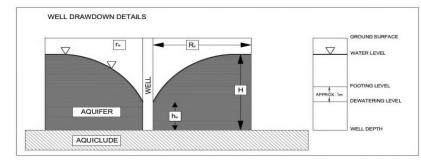
Equivalent radius of well, $r_{\!\scriptscriptstyle\rm w}$

$$=\sqrt{\frac{ab}{\pi}}$$

 $R_0 = 2000(H - h_w)\sqrt{k}$

 r_w

Radius of influence in m, calculated from Sichardt's equation



Where:

r_w = equivalent radius of the well in m,

H = hydraulic head of the original water table (total saturated aquifer thickness) in m,

h_w = hydraulic head at maximum dewatering (proposed drawdown) in m,

R₀ = radius of influence in m, calculated from Sichardt's equation, and

K = hydraulic conductivity, in m/s

a = length of excavation area in m

b = width of excavation area in m



Permanent Drainage Rates

 Location:
 3855 Dundas Street West, Mississauga

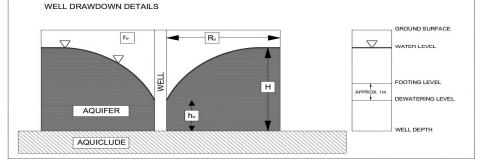
 Project:
 FH 21-11440

 Date:
 7/25/2023

Dupuit Forcheimer for Radial Flow to a Closely Welled System or Excavation

Construction Units	Finished lowest floor elevation (m asl)			Required Dewatering Elevation (m asl)		water level Elevation (m asl)	Well base elevation (m)	H (m)	h _w (m)	H-h _w (m)	R _o Model	(m) Adjusted	r _w	ab (m²)	K (m/s)	H ² -h _w ²	InR ₀	Inr _w	Q, (m ³ /s)	Q, (m³/day)
4-Storey building with 1 UG level		171.22	166.85	167.75	1.26	169.96	167.50	2.46	0.3	2.21	1.42	41.57	40.15	5064.9	1.03E-07	5.99	3.73	3.69	5.58E-05	4.82

Dupuit Forcheimer Equation	$Q = \frac{\pi K (H^2 - h_w^2)}{\ln R_0 - \ln r_w}$
Equivalent radius of well, $r_{\scriptscriptstyle \rm w}$	$r_w = \sqrt{\frac{ab}{\pi}}$
Radius of influence in m, calculated from Sichardt's equation	$R_0 = 2000(H - h_w)\sqrt{k}$

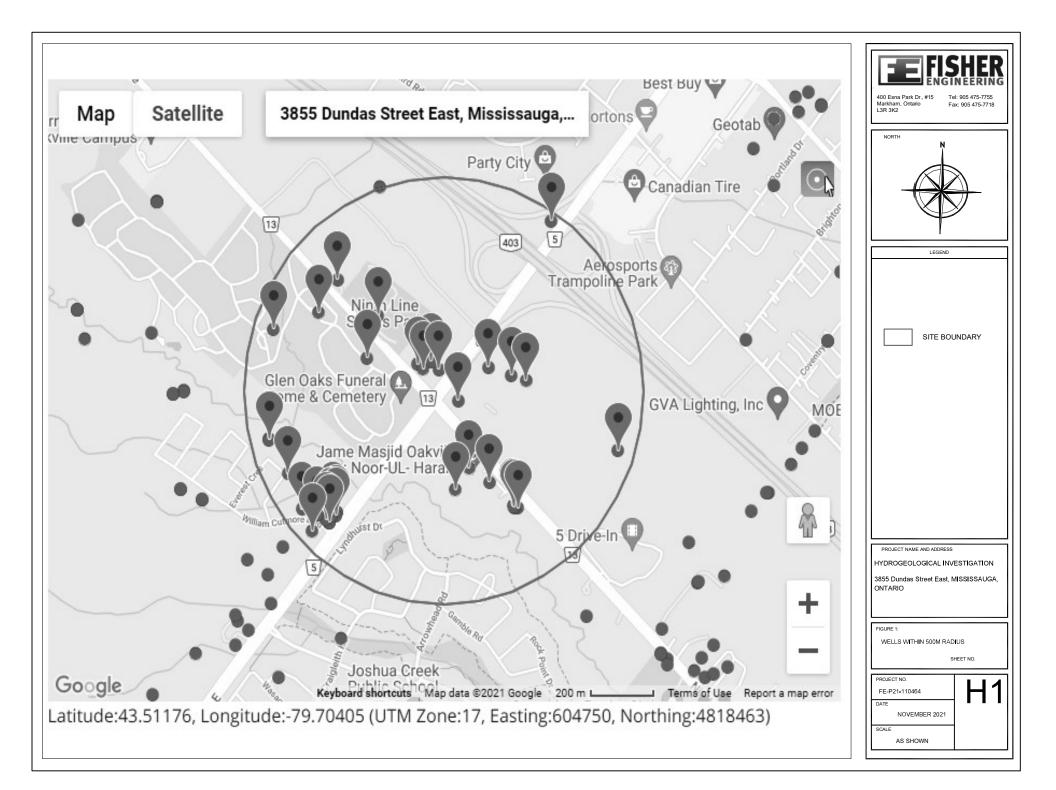


Where:

- rw = equivalent radius of the well in m,
- H = hydraulic head of the original water table (total saturated aquifer thickness) in m,
- h_w = hydraulic head at maximum dewatering (proposed drawdown) in m,
- R₀ = radius of influence in m, calculated from Sichardt's equation, and
- K = hydraulic conductivity, in m/s
- a = length of excavation area in m
- b = width of excavation area in m

APPENDIX G – PRIVATE WELL RECORDS





$\frac{117}{2} \frac{60555}{6055} = 30$ $\frac{918}{4} \frac{481}{8} \frac{18402}{1000}$ $\frac{126}{1000}$ The Ontario V $\frac{26}{1000} \frac{1000}{1000}$ $WATEH$ unty or District	Vater Resou R WE	rces Commissi LL RI	ECORD	Gity Trafalge	BRANCH GOD TYPR MIJSION
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nside diameter of casing. $6\frac{1}{4}$ " I.IFotal length of casing.7 ft.Type of screen.none.Length of screen."Depth to top of screen./Diameter of finished hole. $6\frac{1}{4}$ "		Test-pump Pumping Duration Water cle Becomme	oing rate level of test pumping ar or cloudy at o nded pumping	ft	G.P.M 'S. clear G.P.M
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Well Log Overburden and Bedrock Record ft.		To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of wate (fresh, salty sulphur)
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For what purpose(s) is the water to be used? Domestic Use Is well on upland, in valley, or on hillside? Upland Drilling Firm Address Licence Number 262 Name of Driller Don. P. Jacobs Address I75 Main St. DateNov. 25/59 Georgetown, O State Ordore	on North, ntario.		In diagram belo	ation of Well w show distances ne. Indicate nor we the the the the the the the the the th	th by arrow. 11 16 St. Som iers. Lot. Live N AL 75

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What is the source of contamination?			·					
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FORM 5			7 Signatu	ire of Licensee				

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30 MIZB 205551612E · UTM~ Nº. 28 81175319N The Ontario Water Resources Commission Act 512101 Eleve RECORD WEI DAKUIL WAT ER Basin 2 HALTON ...Township, Village, Town or City..... County or District Date completed Lot. 61 Con. ess. 9 H LINE. **Pumping Test** Casing and Screen Record 20 Static level Inside diameter of casing..... Test-pumping rate Total length of casing umps Pumping level..... Type of screen Duration of test pumping. Length of screen CLEAR Water clear or cloudy at end of test. Depth to top of screen. G.P.M. Recommended pumping rate. Diameter of finished hole 80 with pump setting of ... feet below ground surface Water Record Well Log Kind of water (fresh, salty, sulphur) Depth(s) at which water(s) found To ft. From ft. Overburden and Bedrock Record 69-85. ERES#. 85 For what purpose(s) is the water to be used? House. Location of Well Is well on upland, in valley, or on hillside? UPLANDIn diagram below show distances of well from road and lot line. Indicate north by arrow. Drilling or Boring Firm WM. E. CORE + SON 5. 2utÉN Address /6/ BRAMPTON '5 Licence Number. UIARD Name of Driller or B Address Date (Signature of Licensed Drilling or Boring Contractor) Form 7 15M-60-4138 OWRC COPY CSS.S8

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COUNTY OR	DISTRICT	TOWNSHIP. BOROUGH. CITY. TOWN. VILLAGE		CON BLOCK	TRACT, SURVEY	15 ETC		LOT - 25-27
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41 WATER FOU AT - FEET	WATER RECORD	DIAM MATERIAL THICKNESS	DEPTH - FEET				INCHES	FEET
88	0-13 I H FRESH 3 SULPHUR 14 2 SALTY 4 MINERALS 6 GAS	10-11 1 STEEL 12 188	13-16	S S			OF SCREEN	41-44 30 FEET
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wa	55-56 , 2 DOMESTIC 2 □ STOCK 3 □ IRR/GATION	S 🗋 COMMERCIAL G 🔲 MUNICIPAL 7 📮 PUBLIC SUPPLY	 ∳					
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	of well contractor angille Well Dri	Well CONTRACTOR'S LICENCE NUMBER 3349 4		SB CONTRACTO	OR 33-62 DA	TE RECEIVED	201	992 **** **
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Ministry of Environment and Energy

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The Ontario Water Resources Act WATER WELL RECORD

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25:20 1 Fresh as Sulphur Sulphur Salty a Gas Sulphur Salty a Gas Sulphur Sulph	ey, etc. Lot 25-27 6	Con block tract survey, et Conc. 1 SDS			hip/Borough/City/To				
21 LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) General colour Most commended in Overball Overball is finite instructions) Brown Clay General description Red Shale General description Grey Shale General description Grey Shale General description 1 Material material Overball is finite instruction instruction 2 Shale General description 31 Shale General description 32 Shale General description 32 General description General description 32 General description General description 33 General description General description 34 General description General description 35 General description General description 34 General description General description 35 General description General description 36 General description General description 36 General description General descriptis 36 G	48-53 d S nSnth 956er	completed d		Oakville,		Address			
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10 10 <td< td=""><td>inches feet Depth at top of screen 41-44</td><td>.) inche:</td><td></td><td>Depth - feet</td><td>Wall thickness inches .</td><td>e Material</td><td>ater linside diam inches</td><td>Kind of wat</td><td>Water found at - feet</td></td<>	inches feet Depth at top of screen 41-44	.) inche:		Depth - feet	Wall thickness inches .	e Material	ater linside diam inches	Kind of wat	Water found at - feet
2 - 37 Freeh a Static Minerals 2 - 37 Freeh a Suppur at Static 26 100 2 - 37 Freeh a Suppur at Static 26 100 Static 2 - 37 Freeh a Suppur at Static Static Static Static	feet	PLUGGING & SEALING F	26	+4 20	0.188	203 □ Concrete 4 □ Open hole 5 □ Plastic	Gas 6.2 Sulphur 19 Minerals Gas	2 () Salty 6 () 6	15-16 1
y = Saity & Baity & Concrete y = Saity & Concrete y = Saity & Concrete y = Saity & Concrete y = Gatwarized y = Gatwarized y = Concrete y = Conc	Abandonment	t - feet To Material and type (Cement	100 Depth set at - 1 From	26 1	d	2 Galvanized	Sulphur 24 Minerals Gas 6 Sulphur 29	2 Salty 4 0 0	2
71 Pump 2 Bailer • O GPM Hours Miris Miris			18 21		d	2 □ Galvanized 3 □ Concrete 4 □ Open hole	Minerals Gas Sulphur ³⁴ ⁶⁰ Minerals	2 Salty 4 6 6	30-33 1
Static level end of pumping Water levels during Pumping Pumpintake Pumping Pumping <td>bad and lot line.</td> <td>v distances of well from road a</td> <td>diagram below show d</td> <td></td> <td>urs Mins</td> <td>APM Hours</td> <td>0 GPM</td> <td>2 🛛 Bailer</td> <td>71 D Pump</td>	bad and lot line.	v distances of well from road a	diagram below show d		urs Mins	APM Hours	0 GPM	2 🛛 Bailer	71 D Pump
Teter teter <thteter< th=""> <thteter< th=""> <thte< td=""><td>n]</td><td>·</td><td>dicate north by arrow.</td><td></td><td>-34 60 minutes 35-37</td><td>es 45 minutes 32-34</td><td>15 minutes 26-28 30 minutes 29-3</td><td>22-24</td><td>19-21</td></thte<></thteter<></thteter<>	n]	·	dicate north by arrow.		-34 60 minutes 35-37	es 45 minutes 32-34	15 minutes 26-28 30 minutes 29-3	22-24	19-21
FINAL STATUS OF WELL 54 1 Water supply 5V 2 Observation well 6 3 Test hole 7 4 Recharge well 8 9 Domestic 55-56 1 Domestic 55-56 1 Domestic 5 1 Irrigation 7 2 Industrial 8 1 NORTH METHOD OF CONSTRUCTION 57	in Linc			Oak	of test 42 Cloudy d 46-49	Water at end of test feet □ Clear 43-45 Recommended pump rate	Pump intake set at feel Recommended pump setting	re rate 38-41 GPM led pump type	If flowing give If flowing give Recommended Shallow
1 Domestic 5 Commercial 9 Not used 2 Stock 6 Municipal 10 Other 3 Irrigation 7 Public supply 4 Industrial 8 Cooling & air conditioning					finished placement well	ient supply ∍ □ Unfinisl Jality to □ Replace	 Abandoned, insufficient Abandoned, poor quality Abandoned (Other) 	supply s vation well s ble s	1 Water s 2 Observ 3 Test ho
		Well	NORTH	N		10 Other	Commercial Municipal Public supply Cooling & air conditionir	stic 5 ion 7 rial 8	a Domes 2 ☐ Stock a ☐ Irrigatio a ☐ Industr
2 Rotary (conventional) 6 🗋 Boring 10 🗋 Digging	680 3	1668			gging		 5 Air percussion 6 Boring 7 Diamond 	tool s y (conventional) g y (reverse) y	Cable 1 2 Rotary 3 Rotary
Address Connor Well Drilling Ltd 4005)05 JUN (40	Source Date of inst	1		illing Ltd		
Name of Weil Millignove, Ont., LOR-1V0 Weil Technician's Licence No. IS Weil Millignove, Ont., LOR-1V0 Weil Technician's Licence No. IS Signature of Technician/Contractor Submission does 18 IS		<u> </u>		ñ Altsi			-	-	
Signature or rechnician/Contractor Submission date	0506 (07/94) Front Form			Ī			Slorm		

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The Ontario Water Resources Act WATER WELL RECORD

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County or District	LTON	Township/Borough/C OAKVILLE	City/Town/Village	9		Con block	tract survey	, etc.	Lot 25-27
		Address 1012 DUN		FACT	ARVITI	 	Date completed	19	12 0248-53
21	0, , ,	Northing	DA3 31,	RC Eleva		Basin Code	ii	day iii	month year
2				25 26		31			
General colour	Most common material	VERBURDEN AND BE Other materials		ERIALS (se		description		D	epth - feet
		WELL DECOM		THC				From	To
	DRILLED WELL I	NSIDE OF OL							
		ILLED WITH		ł				40	10
	OLD STONE WELL							10	9
		FILLED WITH						9	5
	OLD STONE WELL		11112 (1000) 1		FILL			5	0
····	ODD STOKE WEED	CIBBED WIT	II CDEAN	CDAI	FIDD				
						• • • • • • • • • • • • • • • • • • • •			
	NOTE: TOP FIRE	FEET OF ST	ONES RE	MOVED					
31						, ,			<u></u>]
32									
41 WATER		ASING & OPEN HOL			54 Sizes of o (Slot No.)	pening 31	-33 Diameter	34-38 L	75 80 ength 39-40
at - feet	Kind of water diam inches	Wall Material thickness inches	Depth - From	To	X (Slot No.)	ad hope		iches	feet
2	4 □ Minerats 10-11 1 Salty 6 □ Gas 2	Steel ¹² Galvanized Concrete		13-16	S	ia type		Deptn at t	op of screen 30 41-44 feet
15-18 1 🗌 2 🔲	Fresh ³ Sulphur ¹⁹ 4 Solby ⁴ Minerals 5	Open hole Plastic			61 F		& SEALING	PECO	
20-23 1	Fresh 3 3 Sulphur 24 2	Steel ¹⁹ Galvanized		20-23		Annular space		Abando	
2 🗌 : 25-28 1 🔲	Saity 6 Gas 4 Fresh 3 Sulphur 29 5	Concrete Open hole Plastic			From 10-13	To Materi	al and type (Cen	nent grout	bentonite, etc.)
2 🗌 1	4 Image: Minerals 24-25 1 6 □ Gas 2	Steel ²⁶ Galvanized		27-30	18-21	22-25			
30-33 1 🗌 1 2 🗌 3	Salty 4 Minerals 4	Concrete Open hole Plastic			26-29	30-33 80			
Pumping test met		Duration of pumping	╶┹			I			
71 1 Pump 2	Bailer GPM	Hours Mins	_	In diagram		ATION OF V distances of	VELL well from ro	ad and	lot line
	d of pumping water levels during 1 📋 H	Pumping 2 □ Recovery 5 minutes 60 minutes 35-34		Indicate no	rth by arrow.				
U U U U U U U U U U	feet feet feet	32-34 35-3 feet fee			3				
If flowing give rate		Vater at end of test 42	4		Ŧ				
Hecommended pum	np type Recommended ⁴³⁻⁴⁵	Clear Cloudy Recommended 46-4 pump rate	9		±1 S		-11		
Shallow	Deep feet	GPN				_ wl	IL		
FINAL STATUS					SH	IL			
 Water supply Observation Test hole 		y ⁹ □ Unfinished ¹⁰ □ Replacement well	10-	74		4	<u> </u>		
⁴ Recharge we				In	SBUT	1012	DUN	Dals	5 7
WATER USE	55-56 5 🔲 Commercial	9 🗆 Not use	7		TD TD	10.0			ļ
2 Stock 3 I Irrigation 4 Industrial	 6 Dunicipal 7 Dublic supply 8 Cooling & air conditioning 	10 🗋 Other			M				
	DNSTRUCTION 57		41		4				
¹ Cable tool ² Rotary (conve	5 🔲 Air percussion	⁹ Driving ¹⁰ Digging							
 ³ □ Rotary (revert ⁴ □ Rotary (air) 								242	2197
Name of Well Contract	lor	Woll Contractoria Lister			Contractor				
	ELL DRILLING	Well Contractor's Licence No 1660	Data Source	58	Contractor	60 ⁵	P-62 Date receive		2003
Address	ONTE ST, UNIT#10, MI		O B Date of	inspection		spector		<u>× </u>	
Name of Well Technicia	an	Well Technician's Licence No		ks	l,				
ROD CORE Signature of Technician		TO-479 Submission date	D. A Remari					CSS	S.ES3
<u> </u>	1/2	day mo yr							
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Ontario Ministry of the Environment			WATER WE		
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County or District	Township/Borough/City/Town/Vi	llage 7 U 6- A	Con block tract surv	ey, etc. Lo	t ²⁵⁻²⁷
wner's sumame 28-47 First Name CITI 01- MISSISS AUGA	Address 9th Lin		Date completed		8 87 ionth year
		RC Elevation RC	Basin Code ii		
	OVERBURDEN AND BEDROCK M	ATERIALS (see instruction	ns)	Deptr	n - feet
BROWN TOP-SOIL	Other materials	General d	escription	From	То
A A	.A7		••••	0	12
GREY SAND	LEAT LAY	IENS		12	20
GRET SAND FRET LLAT RED SHALF	LEAY LAY SILT	CATERS		20	32
RED SHALE				32	475
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10 14 15 21 WATER RECORD 51 51 ter found 1/1-1 1/1-1 1/1-1	CASING & OPEN HOLE RECOR		ening ³¹⁻³³ Diamete	r ³⁴⁻³⁸ Lengt	75 80 th 39-40
feet Kind of water diam inches	Material thickness From	To Material and	d type	inches Depth at top o	feet
	1 Steel 12 2 Galvanized 3 3 Concrete 5	475 S PE	A STONE		41-44 feet
$-\lambda O$ 2 Salty 6 Gas		20.23	LUGGING & SEALIN		
20-23 1 ⊡ Fresh 3 □ Sulphur 24 3 2 2 □ Salty 4 □ Minerals	2 Galvanized 3 Concrete	Depth set at -	Material and type (C	Abandonmo	
25-28 1 Fresh 3 Sulphur 29	4 □ Open hole 5 □ Plastic 1 □ Steel ²⁶		10 BENSEN	-	
30-33 1 □ Fresh ³ □ Sulphur ³⁴ 60	2 Galvanized 3 Concrete	18-21	22-25		
	4	20-29	30-33 00		
Pumping test method 10 Pumping rate 11-14 1 D Pump 2 D Bailer GPM	Duration of pumping 15-16 17-18 Hours Mins	LOCA	TION OF WELL		70
end of pumping	Pumping 2 🗌 Recovery	In diagram below show of Indicate north by arrow.	listances of well from	road and lot	483
12-21 22-24 15 minutes 26-28 30 minutes 29-31	45 minutes 32-34 60 minutes 35-37 BA	KK / L	\checkmark		<u>e</u>
feet feet feet feet If flowing give rate 38-41 Pump intake set at	feet feet Water at end of test 42	KK / (2	× IV	1 al
GPM feet Recommended pump type Recommended 4345 pump setting 445	Clear Cloudy Recommended 46-49		BALL		43
□ Shallow □ Deep pump setting 445 feet	pump rate 3INT GPM		PARK		
IAL STATUS OF WELL 54 1 Water supply 5 Abandoned, insufficient sup					Ħ
2 Observation well 6 Abandoned, poor quality 3 Test hole 7 Abandoned (Other)	pply ⁹ I Unfinished ¹⁰ Replacement well	WELL	<u> </u>		
4 Recharge well 8 Dewatering		•			- 4
TEP USE 55-56 1 Domestic 5 Commercial 2 Stock 6 Municipal	9 🗋 Not use 10 🗌 Other		ED DARY.		-1/1
3 Irrigation 7 Public supply 4 Industrial 8 Cooling & air conditioning		54. 6	PARKIN	NG-1	Pl
THOD OF CONSTRUCTION 57		1			
1 Cable tool 5 Air percussion 2 Rotary (conventional) 6 Description 3 Rotary (reverse) 7 Diamond	9 Driving 10 Digging 11 Other	9HLLINE			
⁴ □ Rotary (air) ⁶ □ Jetting		Y IL LINE		229	56 9
meet-Well Contractor	Well Contractor's Licence No.	ata 58 Contractor	9 1 59-62 Date rec		6 3-68 8 0
JOHNSON & DARTZ		<u> </u>	30 SEF	2720	
dress BLANTFORP me g[Well Technician	Well Technician's Licence No.	lemarks			
Town DALTZ	T-0333 Submission date				
naturo of Technician/Contractor	Image: Application of the second s				

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and the second			, fants	05416				Pa		of
Well Owner's	Information						<u> </u>		<u> </u>	
First Name		ast Name		E-mail ,	Address				U Well Cor	nstructed
Mailing Address	Street Number/Name,	RR)	Municipality		Pr	ovince	Postal Code	e Telepho	by Well	Owner
_2379	MARISA	2 COURT	mis	SiSSA	LGA C	INT		P7416	2/01/17	1151415
Part A Constr	uction and/or Major ocation (Street Number	Alteration of a W	ell Town							070
3091 9		AN 1542-3) ORIGINALLY			Saug	e.	Lot	Conces	sion P/10	
County/District/M	Aunicipality	CRIGINALLY	City/	M <u>llS</u> Town/Village	ORK	. Se ALLY	OAKOILLE	Province	Postal	Code
UTM Coordinates		, Northing	GPS UI	nit Make M	ndei	SS/SS	Queration:	Ontario		
NAD 8 3	17 481/181413					y ∏ Differ	entiated, specify	Undifferentiate	d Ave	raged
	d Bedrock Materials (see instructions on the	back of this for	m)						
General Colour	Most Common Mate	erial OI	her Materials			General I	Description		Depth From	(Metres)
BROWN	Topso1/		na di na i						0	.61
BROWN	SANO		rovel			1.11			+61	7.62
grey	Clay	SAND	rovel	e/					7.62	12.19
grey	graver	SILto	Y SAN	ρ		· · · · ·			12,19	15.54
Red	SHALF	·	·*	· · ·	,				15 01	25.15
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			1.							
							· · ·			<u> </u>
	Annular Space/A	bandonment Sealin	a Record				Decide		1	1
Depth Set at (Metr	res) Type	e of Sealant Used	<u>g.ecoid</u>	Volume Plac	ed Check	box if after tes	Results of We	Draw Down		covery
	Mai Bentonite	erial and Type)	,	(Cubic Metre	es) water v	vas: ear and sand	free	Time Water Lo (Min) (Metre		Vater Level (Metres)
0 6.1	1 10 20701110	2 Slurry	£	.062	Ca		to sand-free	Static	Ctotio	· · · · · · · · · · · · · · · · · · ·
		1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				and the second	led, give reason:	Level 3m51		• /
	, en l'entre des la second	ogeka dite.						1 31153		1.90
						ng test metho Ump		24.7		11.80
	Construction		Nater Use			ntake set at	(Metres)	3 5.9	6 3	11.75
Cable Tool	ional)		Commercial Municipal	Not use		27 ng rate (Litres	(min)	4 6.5	24	11.70
Rotary (Reverse)) Driving	Livestock	Test Hole	Dewate		4.5		5 6.8	8 5	11.65
Air percussion	Digging	Irrigation	Cooling & Air	Conditioning	Duratio	n of pumping	·	10 7.3	/ 10	11 79
Other, specify		Other, specify		···· . ··· .		hrs + ater level end	min	15 8,2		11
Water Supply	St	atus of Well	0		(Metres)		or brunbing			1. 12.00
Replacement We	ell 🗌 Abandoned, In	sufficient Supply	Alteration (Co	nd/or Monitoring I Instruction)	Recom	mended pum				10.13
Test Hole Recharge Well	Abandoned, Po	oor Water Quality 🛛 🗌	Other, specify		Becom	allow 1240 mended pum	Deep	25 9.0	9 25	10,48cm
		cation of Well			a d			30 9.60	a 30	10.23
Please provide a ma	ap below showing:			-	Recomi (Litres/n	mended pum		40 10.4	1 40	9.82
 an arrow indicating 	aries, and measurements the North direction					g give rate		50 11.2	7,00,50	946
 detailed drawings of vidigital pictures of 	can be provided as attachr inside of well can also be	nents no larger than leg provided	gal size (8.5" by	/ 14")	(Litres/n	y give rate		60 11,70		9 15
		b					Water	Details		
		ľ			Water	found at Dep	oth Kind of	Water		
		ereis s			E 26	Metres		h Salty	Sulphur] Minerals
<i>n</i>		N-33 merers	L			Metres		Water	Sulphur [Minerals
		1726			Water f	found at Dep	th Kind of	Water		
	:	66		•		(h Salty	Sulphur	Minerals
_	DUNDAS	57.				ng Used	Screen Used	Casing Diameter of th	and Well De	212 The Address of State Sta
	,				Galva Steel	1 -	Galvanized Steel	15	5511.	ý.
Date Well Complete	ed Was the well owner's	3 1/00	<u>75</u>		Fibreg	glass	Fibreglass	Depth of the H	ole (Métres)	
(yyyy/mm/dd)	nackage delivered?	Contraction Deliver	he Well Record red to Well Owr	and Package ner (yyyy/mm/do	り Plastie] Plastic] Concrete	Wall Thickness	, 65 s (Metres)	
1007/10/	1	Yes No 20	0//////				Screen Used	18	8	
usiness Name of V	Well Contractor and Vell Contractor	weustechnician li	A CONTRACTOR OF A CONTRACTOR A	actor's Licence N			3,10	Inside Diamete		g (Metres)
Langelle	Well Went	ung	33		Disinfecte	ed?		Depth of the C	asing (Metres	,
usiness Address (S	Street No./Name, numbe	r, RR) M	funicipality	1	Yes	s 🗍 No 👘		15.5		k
rovince	Postal Code Bu	siness E-mail Address	- F-lee	<u>.</u>	Audit No.		Ministry I	Jse Only Vell Contractor N		
Unt	1-64157 La	ingille welldr.	Iling 834	y up the CO		z 698	01 ľ	ren contractor N		
	nc. area code) Name of W	ell Technician (Last N	lame, First Na	me)	Date Rec	eived (yyyy/m	m/dd) D	ate of Inspection	(yyyy/mm/dd)	
Vell Technician's Licer	S 3 7 Kent	n Langel	Date Subr	nitted (yyyy/mm/	dd) Remarks	DV 2 6 200)7			
225	8	A start	2001	1 . 1						
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		y of ∕ironment etric ४४४m		Well Tag A 05		59945 Regulat	ion 903 (100 Mar 100 Mar	ater Res	ecord
Well Own	er's Information	at Name / On	appiration			E-mail Address	11/11/1			
First Name	Norld Islami	ast Name / On CCMissi		nada					by We	Constructed I Owner
Mailing Add	ress (Street Number/Nam	ne)		M	lunicipality	Province Postal Co	de	Telephone	No. (inc.	area code)
Well Loca				11111				Canada		
Address of V 2478	Nell Location (Street Num 3 9th line,		le	Т	ownship	Lot		Concessio	1	
	rict/Municipality Hal			C	ity/Town/Village Oak	ville	Provi	nce ario		Code 1 7G9
UTM Coordin	A DATE OF A DESCRIPTION OF A DATE OF	I Nort		CT Construction of the	lunicipal Plan and Suble	t Number	Other		1.1.1	
NAD	8 3 17 60537	and the state of t	17813		rd (see instructions on the	back of this form)		12194949	104220	Research State
General Co			Inclu Gell		er Materials	General Descript	ion		Dep From	th (<i>m/ft</i>) To
Black	topsoil	The second				and the second second			0	1 f
Grey	clay								1	29 f
Red	shale								29	70 f
5		1.13								
		Annular S	pace		CONTRACTOR OF STREET	Results of	Well Yie	eld Testin	g	
Depth Se From	t at (<i>m/ft</i>) To	Type of Seala (Material and	ant Used		Volume Placed (m³/ft³)	After test of well yield, water was:	Time)raw Down e Water Le		ecovery Water Level
20		enseal/		nite	(mm)	Other, specify	(min) (m/ft)	(min)	(m/ft)
20	010 2	enseary	Denoc	11100		If pumping discontinued, give reas	on: Stati			65 ft
							1	10		58 ft
						Pump intake set at (m/ft) 65 feet	2	12	4 2	55 ft
Meth	nod of Construction	21 - 22 - 24 - 24 - 24 - 24 - 24 - 24 -		Well Us	se .	Pumping rate (I/min / GPM)	3	13.	5 3	53 ft
X Cable To	ol Diamono	and the second se		Comme	rcial 🗌 Not used	seven gpm (7 Duration of pumping	7) 4	14.		49 ft
Rotary (C	Conventional) Jetting Reverse) Driving	Dom Live		Municip		one hrs + 30 min	5	19.	6 5	45 ft
Boring	Digging	Irriga		_	& Air Conditioning	Final water level end of pumping (65 ft	n/ft) 10	22.	-	33 ft
Other, s			er, specify	chur		If flowing give rate (I/min / GPM)	15	26.	1 15	27.9
Inside	Construction R Open Hole OR Material	ecord - Casi Wall	ng Depth	(m/ft)	Status of Well	Recommended pump depth (m/	(t) 20	69.	and the second se	24.7
Diameter (cm/in)	(Galvanized, Fibreglass, Concrete, Plastic, Steel)	Thickness (cm/in)	From	То	Replacement Well	65 ft	25	1		22 ft
64"	steel	0.188	+2 ft	30 f	+ Recharge Well	(I/min / GPM) 4 gpm	30	22 1.4.1	200 200	20.6
6"	open hole		30		t Observation and/or	four Well production (Vmin / GPM)	40	59.	5 40	17.9
					Monitoring Hole	five gpm (5)	50	65	50	16.3
					(Construction)	X Yes No	60	65	60	15 ft
Outside	Construction R	ecord - Scree		1	Abandoned, Poor	Map o Please provide a map below follow	f Well Lo		e back	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth From	(<i>m/ft</i>) To	Water Quality Abandoned, other,	- N-	ang madu	our of the	- and stru	II
10000	N/A		Sales.		specify					Hwy
	N/ A				Other, specify	i	G	a for		5
EN STATE	Water De	tails	22212123	1	Hole Diameter	1	7	EN 12		2
	nd at Depth Kind of Wate	er; 🕅 Fresh	Untested	Color Statements in the American	th (<i>m/ft</i>) Diameter To (<i>cm/in</i>)	1		1415		(dundas
	n/ft) Gas Other, sp nd at Depth Kind of Wate		Untested	0	20ft 8 in		well (XX &	4	dag
60 (n	n/ft) Gas Other, sp	ecify		20	70 6"	1		キー		4 e
	nd at Depth Kind of Wate		Untested			}		. !		
	Well Contract		Technicia	and the second second second			Building	J i	A Stable	
	lame of Well Contractor 's Well Dril	ling		SASAN 52 22	lell Contractor's Licence No.	9th Cin	e	5		
Business A	ddress (Street Number/N	ame)	0	M	unicipality	Comments:	23.	e. 1994		
264 Br Province	onte St. S. Postal Code		0 Mil E-mail Add	Contraction of the second	Halton	m= monitoring wel	Ľ		3. 33	
C	nt L9T 5A3	1				Well owner's Date Package Del		and the second s	nistry Us	e Only
and the second	one No. <i>(inc. area code)</i> N 8 4515	core,		.ast Name	, First Name)	delivered Y Y Y M		Audit No	114	531.
Well Technic	cian's Licence No. Signatur			actor Da	ate Submitted	X Yes Date Work Compl 2010 11			EB 1	7 2011
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Well Ta	ag No. (Place Sticker al	nd/or Print Below)	I	Vell Reco	ord
	Tag#: A1246	91 ^{Reg}	ulation 903 Ontario I Pag		s Act
Well Owner's Information				·	
First Name Last Name / Organization	Hardeno	E-mail Address		Well Construct by Well Owne	
Mailing Address (Street Number/Name)	Municipality			ie No. <i>(inc. area coc</i>	ide)
3164 Ninth Line Well Location	Odrvine		<u> 7 8 </u>		
Address of Well Location (Street Number/Name)	Township	Lot	Concess	ion	
County/District/Municipality	City/Town/Village	002	Province	Postal Code	
UTM Coordinates Zone, Easting	Municipal Plan and Suble	t Number	Ontario Other		
NAD 8 3 1 7 6 8 4 9 1 8 5 8	1 1 1 1 11	the structure to the state of t			
Overburden and Bedrock Materials/Abandonment Sealing Rec General Colour Most Common Material O	ord (see instructions on the ther Materials	General Des	cription	Depth (<i>m/ft)</i> From To	
GREY SANOY CIAY		Sof	1	0 20	λ
GREY SOFT CIAY		SOF		22 50	<u>ð (</u>
NED SHARE/ SHALE		DEN	6	20, 100	$\frac{0}{n}$
GKE SHALE		12=11~2	<u>C</u>	100 150	<u> </u>
Annular Space Depth Set at (m/ft) Type of Sealant Used	Volume Placed	Result: After test of well yield, water w	Contraction of the second s	n Recovery	
From To (Material and Type)	(m³/ft³)	Clear and sand free	Time Water L (min) (m/ft	evel Time Water Lo (<i>min</i>) (<i>m/ft</i>)	
D DCNTUNITE STURAL		If pumping discontinued, give	reason: Static 14.		
		Randry	1 26	9 1 193)
		Pump intake set at (m/ft)	2 24	3 2 3	<u>; Y.</u>
Method of Construction Well L	lse	Pumping rate (I/min / GPM)	3 30	3 1.66,	<u>. 4</u>
Cable Tool Diamond Diamond Diamond Comm Conventional Jetting Domestic Munic		Duration of pumping	<u> </u>	1 4 65	<u>' d</u> 2
Rotary (Reverse) Driving Livestock Test H	Iole Donitoring	hrs + <u>6</u> min Final water level end of pumpi		9 10 115	$\frac{1}{2}$
□ Air percussion AIR ROTARY □ Industrial □ Other, specify		30 If flowing give rate (I/min / GF		15	<u>v</u>
Construction Record - Casing	Status of Well		20	20	
Inside Open Hole OR Material Wall Depth (m/ft) Diameter (Galvanized, Fibreglass, (cm/in) Thickness Concrete, Plastic, Steel) Thickness (cm/in) From To	Water Supply	Recommended pump depth	(m/ft) 25	25	
6 STALL 188 0 52	Test Hole	Recommended pump rate (//min / GPM)	30	30	
	Dewatering Well Observation and/or	L 5T/9 Well production (I/min / GPM	40	40	
	Monitoring Hole	1.5 Disinfected?	50	50	
	(Construction)		60	60	
Construction Record - Screen	Abandoned, Poor Water Quality	Ma Please provide a map below f	p of Well Location	ne back.	
Outside Material Diameter (Plastic, Galvanized, Steel) Slot No. From To	Abandoned, other,		PAS		1
ROCH WELL					11
-	Other, specify		家唱	L.	
Water Details Water found at Depth Kind of Water: Fresh Untested De	Hole Diameter		Wei -	R	
I2() (m/ft) Gas Other, specify From			同日		
Water found at Depth Kind of Water: Fresh Untested U (m/ft) Gas Other, specify	$ \mathcal{B} \mathcal{U} \mathcal{U}$		12E	F	
Water found at Depth Kind of Water: Fresh Untested					
(m/ft) Gas Other, specify	ation	DV	NARST BERGE	<u>r </u>	
	Vell'Contractor's Licence No.			[Alapozet - atasard
Business Address (Street Number/Name)	Aunicipality	Comments:			
IS /J-J IWI UJ SINUE Province Postal Code Business E-mail Address					
ONTARIO LIVIATZIXE	a Eiret Name)	Well owner's Date Package	Delivered Mi Audit N	nistry Use Only	1
Bus Telephone No. (inc. area code), Name of Well Technician (Last Name	TAEL	delivered Date Work Co	M M D D mpleted	z14132	
Well Technician's Licence No. Signature of Technician and/or Contractor D				UG 2 1 2012	2
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Ontario Ministry of	Well Tag No. (Place Sticker ar		V 903 Ontario V		ecord
easurements recorded in:		Negulation	Pag		of
/ell Owner's Information		-			
rst Name Last Name / Organization	MEDICIPE PROFESSION	E-mail Address		tannot	onstructed
ailing Address (Street Number/Name)	Municipality	Province Postal Code		e No. (inc. a	
2435 NINTH LINE	<u>UAKVILLE</u>	ONT 1674	22416	211710	5907
Idress of Well Location (Street Number/Name)	Township CON	Lot	Concess		Road
2435 NINTH LINE	City/Town/Village	REDION LORP	Province	13900 Postal	Code
HALTON	OAKVILLE Municipal Plan and Suble	t Numbor	Ontario Other	46	1422
TM Coordinates Zone Easting Northing NAD 8 3 1 7 6 0 4 3 1 7	•	or Number	Other		
verburden and Bedrock Materials/Abandonment Sea	aling Record (see instructions on the			Dept	h (<i>m/ft</i>)
Seneral Colour Most Common Material	Other Materials	General Description		From	To
NELL DECOM	MISSION OI	U 30" PIA BO	OKTI)	NEL	- <u> </u>
3/4 CLEAR GRAVE	1			28	23
HRIS PIUG				23	20
3/4 GLER GRAVEL				20	15
HOLEPLUG				15	12
3ROWN CLEAN CL	AU			12	O
		0.051			
7 OF TILE	S REMOVE	D BELOW S			
Annular Space Depth Set at (m/ft) Type of Sealant Used	Volume Placed	Results of We After test of well yield, water was:	Bll Yield Testir		covery
From To (Material and Type)	<u>(m³/ft³)</u>	Clear and sand free	Time Water Le (min) (m/ft)		Water Level (m/ft)
		If pumping discontinued, give reason:	Static Level		
			1	1	
		Pump intake set at (m/ft)	2	2	
		Pumping rate (Ilmin GPM)	3	3	
Method of Construction 1Cable Tool Diamond Public	Well Use	O G.P.M	4	4	
Rotary (Conventional) Jetting Domestic Rotary (Reverse) Driving Livestock	Municipal Dewatering Test Hole Monitoring	Duration of pumping hrs + min	5	5	
Boring Digging Irrigation	Cooling & Air Conditioning	Final water level end of pumping (mlft)	10	10	
Air percussion Industrial Other, specify Other, specify		If flowing give rate (I/min / GPM)	15	15	
Construction Record - Casing	Status of Well		20	20	
Inside Open Hole OR Material Wall Depth Diameter (Galvanized, Fibreglass, Thickness (cm/in) Concrete, Plastic, Steel) (cm/in) From	(<i>mlft</i>) Uater Supply	Recommended pump depth (m/ft)	25	25	
	Test Hole Recharge Well	Recommended pump rate (Ilmin / GPM)	30	30	
	Dewatering Well		40	40	
	Monitoring Hole	Well production (Ilmin I GPM)	50	50	
	(Construction)	Disinfected?	60	60	
Construction Record - Screen	Abandoned, Insufficient Supply		ell Location		
Diameter Slot No.	(<i>m/ft</i>) Water Quality	Please provide a map below following	instructions on th	e back.	
(cm/in) (Plastic, Galvanized, Steel) From	To Specify				
	Other, <i>specify</i>				
		BUILDING	Hwy	5	
Water Details	Hole Diameter			an a suit d'anna a suit d'anna an anna an anna an anna an anna an an	A.
(<i>m/ft</i>) Gas Other, <i>specify</i>	From To (cm/in)	DUILDING			\bigwedge
'ater found at Depth Kind of Water: Fresh Untested (<i>mlft</i>) Gas Other, specify					N/
ater found at Depth Kind of Water: Fresh Untested		1 At 1	WELL	- (V
(m/ft) Gas Other, specify	n Information	111-1			
isiness Name of Well Contractor	Well Contractor's Licence No.				
LL HALTON WATEL SVC Isiness Address (Street Number/Name)	7 2 6 8 Municipality	Comments:			
377 SECONDLING CAMPBELLUIL	E HALTON				
ovince Postal Code Business E-mail Add	ress	Well owner's Date Package Delivere	d Mir	listry Use	Only
Is.Telephone No. (inc. area code) Name of Well Technician (I		information package	Audit No	•	
US 6 9944 5 15 CORE Ro ell Technician's Licence No. Signatúle of Technician and/or Co	ntractor Date Submitted	delivered Date Work Completed		1733	51
(479 1.h	YVYYYMMDD	201412	OR Recent	IN 04	2015
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)- Ontario	Ministry of the Environment, Conservation and Parks	Well Tag No. (Place Sticker a	nd/or Print Below)	Regulation	903 Ontario Wa	÷	ecord
Measurements recorded	in: 💢 Metric 🔲 Imperial	Notac - Dec	.om -		Page		of
Well Owner's Informa		U	E-mail Address				
First Name	Last Name / Organization	tones	E-mail Address		Ľ		Constructed
Mailing Address (Street Nu	imber/Name)	Municipality	Province	Postal Code	Telephone		area code) 3 9 0 0
433 Steeles H Well Location	Wert, Milton	<u>Halton</u>		<u> </u>			
Address of Well Location (S	Street Number/Name)	Township	E.J	Lot	Concessio	n	
1345 Danda County/District/Municipality		Oak whe'l City/Town/Village			Province	Postal	Code
Halton	,	Dakville			Ontario		
UTM Coordinates Zone E NAD 8 3 7	asting O HIGILHUM	Municipal Plan and Subl	ot Number		Other		
		aling Record (see instructions on the	ne back of this form)			Provinski digi	
General Colour N	Nost Common Material	Other Materials	Gen	eral Description			th (<i>m/ft</i>) To
Cle	an Fill / Nortice Soi					6	
Ben	tonite Chips					2	2.2
<u> </u>	op Fill /bentonitele	nyers-				2.2	7
<u>B</u> e	atonite Styrm	1				<u> </u>	8
Cl-	ean gravel !					8	9.14
	U						
Depth Set at (m/ft)	Annular Space Type of Sealant Used	Volume Placed	After test of well yield		II Yield Testing Draw Down		ecovery
From To	(Material and Type)	(m³/ft³)	Clear and sand	free	Time Water Lev (min) (m/ft)	el Time (min)	Water Level (m/ft)
			If pumping discontinu	ied, give reason:	Static Level	1	
			Wetter ven	wed-	1	1	
			Pump intake set at (n		2	2	
					3	3	
Method of Const	en per en en la presentación de contra en terrente de terre de la presentación de la presentación de la present	Well Use	Pumping rate (Vmin /	GPM)	4	4	
	Diamond Public	Commercial Ont used Municipal Dewatering	Duration of pumping		5	5	
	Driving Livestock	Test Hole Monitoring Cooling & Air Conditioning	hrs + Final water level end	min of pumping (m/#)		_	
Air percussion	Industrial			e, herribu (3 (121)	10	10	
Other, specify	ruction Record - Casing	Status of Well	If flowing give rate (//	nin / GPM)	15	15	
Inside Open Hole OF	R Material Wall Dep	th (<i>m/ft</i>) Uvater Supply	Recommended pum	p depth (<i>m/ft</i>)	20	20	
Diameter (Galvanized, F (cm/in) Concrete, Plas	Thickness Thickness Stic, Steel) (cm/in) From	To Replacement Well		4 .	25	25	
91.44 Fields	Fone 15.24 0		Recommended pum (I/min / GPM)	p rate	30	30	
		Dewatering Well	Well production (I/min	/GPM)	40	40	
		Monitoring Hole	Disinfected?		50	50	
		(Construction)	Yes No		60	60	
Const	ruction Record - Screen	Insufficient Supply		desident for a second second second	Il Location		edonascation
Outside Materi Diameter (Plastic, Galvan	Slot No.	th (<i>m/ft</i>) Water Quality To Mater Quality	Please provide a m	ap below followir	ng instructions on	the back	к. • /Л
(cm/in) (include, Carvar	From	Vent 20pt					N
		Other, specify	•			a	4
						1	
	Water Details	d Depth (<i>m/ft</i>) Diameter					
(<i>m/ft</i>) Gas	· · · · · · · · · · · · · · · · · · ·	From To (cm/in)		ß	621M	•	
Water found at Depth Kir (m/ft) Gas	nd of Water: Fresh Untester	d		48 1		1	
	nd of Water: Fresh Unteste	d					
(<i>m/ft</i>) 🗍 Gas 🗌				V			
Well Business Name of Well Co	Contractor and Well Technicia	an Information Well Contractor's Licence No		Non	das.	an constraints	
Lansille We	ater Services	751213			· · · · · · · · · · · · · · · · · · ·	1	
Business Address (Street	Number/Name)	Municipality	Comments:				
Province Post	al Code Bulsiness E-mail Ac	ddenog ()					2
ON VII	16472 laughtere	Mol / 174 av rogers, cou		Package Delivere	ed Min Audit No.	istry Us	e Only
Bus.Telephone No. (<i>inc. are</i>	2 code) Name of Well Technician		delivered			63 L	4119
Well Technician's Licence No	. Signature of Technician and/or C	Contractor Date Submitted	Yes 7	Work Completed	2		
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APPENDIX H – DRAINAGE



Fisher Engineering Ltd Project No. FH 21-11440 Revised July 26, 2023



