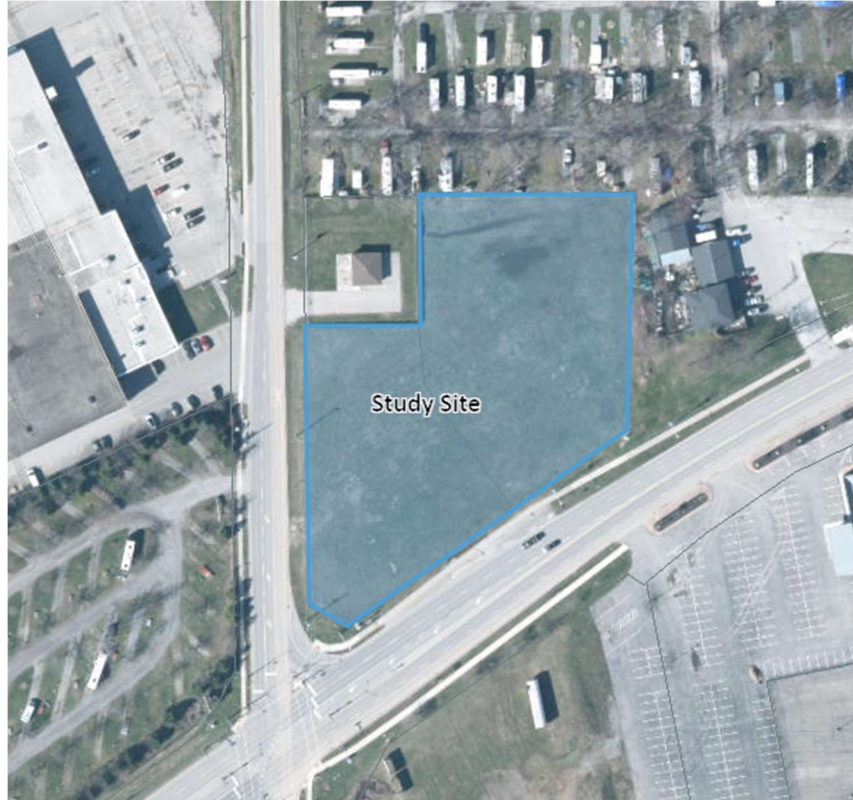


**8885 – 8911 Lundy's Lane**  
**Phase One Environmental Site Assessment Update**



**Project Location:**

8885 – 8911 Lundy's Lane  
Niagara Falls, Ontario  
L2H 1H5

**Prepared For:**

M5V Developments  
10 Rolling Green Court  
Kleinburg, Ontario, L4H 4K7



**Prepared By:**

Niagara Soils Solutions Ltd.  
3300 Merrittville Highway, Unit 5  
Thorold, ON  
L2V 4Y6

**Date:** June 10, 2022  
**NSSL File No.:** NS2255-01



## PHASE ONE LETTER UPDATE

A Phase One Letter Update was prepared in accordance with O. Reg. 153/04 (as amended). The Phase One Letter Update is detailed below and should be read along with Figures 1-4.

The Phase One Letter Update addresses the vacant property situated at 8885 – 8911 Lundy's Lane, Niagara Falls, Ontario herein referred to as the "Phase One Property" or the "Site". Refer to Figure 1 for the Site Location Map.

### Site Description

The size of the study site is approximately 0.92 hectares. The site is located northeast of the intersection at Lundy's Lane and Garner Road in the City of Niagara Falls. The property is vacant with no structures on-site and is currently covered with fill / granular material. Initial land use was noted as agricultural in 1934. The site was later redeveloped in 1954/55 for commercial and residential purposes including one [1] motel and one [1] dwelling located on the southwestern portion of the property. The motel was noted as having various owners throughout the decades including Chateau-Gay Motel from 1960 to 1975, the Anchor Motel in 1990, and the three Diamond Inn since 1995. The site also developed a "Diamond Pizza and Sub" Store at the beginning of 2009. All buildings on-site were demolished and removed in 2018 for potential land development purposes. The site has since remained vacant with no activities or operations noted. The site location and layout are illustrated in Figures 1 and 2.

### Previous Environmental Report

Amec Foster Wheeler [Amec] previously completed a Phase One Environmental Site Assessment [ESA] on June 5<sup>th</sup>, 2017, of 8885 & 8911 Lundy's Lane, Niagara Falls, ON [study site]. At the time of the ESA, the site contained two [2] parallel commercial motel buildings and one [1] residential dwelling. AMEC reviewed historical information pertaining to the study site and study area, including aerial photographs, fire insurance plans, EcoLog ERIS report, and other relevant information sources. Observations of the property and surrounding properties from a site inspection were also considered for the ESA. Amec concluded no environmental issues were identified at the site and the surrounding area in 2017.

### Water Bodies & Areas of Natural Significance

The Welland Canal is located approximately 4.81 km west of the study site. NSSL did not identify any significant features including provincially significant wetlands, natural heritage features, or Areas of Natural Significance onsite or within the Study Area. The Site is not considered a sensitive site based on the definition of O. Reg. 153/04.



The BDSC [Beaver Dams Shriners Creek] Beaver Dams Creek [15,488,022 m2] was identified as the watershed associated with the study site and study area. Surface water runoff and groundwater flow were noted as northwest towards the BDSC watershed.

### Underground Utilities

The site is currently serviced by hydro, natural gas, municipal water, and municipal sanitary sewer. The status and location of the buried utilities are unknown. No potable water supply well or other water source was observed during the site inspection.

### Regional and Site Specific Geologic and Hydrogeological Information

A review of the Ministry of Natural Resources’ “Quaternary Geology, Niagara-Welland Southern Ontario, Map M2496” indicates that the Site is in an area of the Glaciolacustrine deeper water clay and silt. A review of a nearby Domestic Water Well [ID 7292256] located approximately 100 m east of the subject site completed in 2017 reports dense clay from 0.31 – 6.71 m bgs over fractured rock until borehole termination [13.72 m bgs]. A review of the Ministry of Natural Resources’ “Paleozoic Geology of Niagara M2344” indicates that the dark brown or black, bituminous dolostone is from the Lockport Formation.

Regional groundwater flow is expected to be northwest towards the Niagara River. The Phase One Property is not located within 30 m of a body of water. Pondered surface water was not encountered during the site visit.

### Drinking-Water Wells

The MECP provides the public with access to their well record inventory. The study site and area are serviced by the municipal drinking water system, however, well records [if available] were accessed and reviewed for information pertaining to the area’s hydrogeological and geological characteristics. Five [5] well records were found within the study area [250 m radius]. The record can contain descriptive information pertaining to soil stratigraphy and aquifer groundwater levels. The water well record in the closest proximity to the study site is summarized below. All available records are provided in Appendix B.

| Well ID                          | Description   |
|----------------------------------|---|
| 7292256 [100 m east of the site] | 0 – 0.31 m Black Unconsolidated Topsoil<br>0.31 – 6.71 m Brown Dense Clay<br>6.71 – 13.72 m Black/Grey Fractured Rock |

### Roads Within the Phase One Study Area

Refer to Figure 1 for the names of the roads within the Phase One Study Area.

### Uses of Properties Adjacent to the Site

The study area is a mix of residential, commercial, and industrial properties. Adjacent properties were documented as commercial to the north [Lundy’s Lane Sewage Pumping Station and Scott’s Tent & Trailer



Park], and east [Scott's Tent & Trailer Park], a vacant lot to the south, and industrial [BV Glazing Systems] to the west. All adjacent properties are highlighted on Figure 3.

### Potentially Contaminating Activities

Based on information obtained and reviewed during this Phase One ESA, three [3] Potentially Contaminating Activities associated with the site and surrounding properties were identified revealing the presence of one [1] Area of Potential Environmental Concern (APEC) on the Phase One property. A copy of the list of PCAs prescribed in O.Reg. 153/04 is provided in Appendix D.

#### ***On-site***

- **PCA-1/APEC-1: #30 Importation of Fill Material of Unknown Quality.** Based on a review of aerial photographs, a review of the previous Phase One ESA, and notes made from the site analysis, NSSL identified three [3] potential areas of fill material at the study site. The aerial photographs historically identified two [2] parallel elongated commercial buildings and one [1] residential dwelling occupying the study site from 1954/55 to 2018. The buildings were demolished in 2018 and the site was made vacant with no remaining structures within the property limits. Currently, the site is relatively flat and appears to have been regraded post demolition activities. The potential of fill material of unknown quality being introduced on the site for backfilling and regrading is a PCA resulting in an APEC to the study site's soil.

#### ***Off-site***

- **PCA-2: #29 Glass Manufacturing, #32 Iron and Steel Manufacturing and Processing, #33 Metal Treatment, Coating, Plating, and Finishing, #34 Metal Fabrication, #39 Paints Manufacturing, Processing, and Bulk Storage, #43 Plastics [Including Fibreglass] Manufacturing, and Processing, and #46 Rail Yards, Tracks, and Spurs.** Based on a review of the site analysis, NSSL identified a manufacturer of residential and commercial building equipment "BV Glazing Systems", approximately 30 m west of the study site. "BV Glazing Systems" was noted as a large-scale manufacturer and processor of metals and glass for walls, doors, railings, and other building equipment for residential houses and commercial sky scrappers. This commercial activity was also noted as containing a railway line connected to the "Canadian National Railway" line for shipping and receiving materials and goods. "BV Glazing Systems" represents a PCA however does not result in an on-site APEC due to the distance away from the site and inferred groundwater direction.
- **PCA-3: #46 Rail Yards, Tracks, and Spurs.** Based on a review of the site analysis, NSSL identified the "Canadian National Railway" approximately 125 m north of the study site. The presence of potential railway material [slag] and operational railway activities is a PCA, however, did not result in an on-site APEC due to the distance away from the site and inferred groundwater flow direction.





The PCAs identified above result in one [1] onsite Area of Potential Environmental Concern (APEC) on the Phase One ESA property with the potential to have impacted the study site’s soil. These are depicted on Figure 4 and tabulated below:

| Area of potential environmental concern <sup>1</sup> | Location of area of potential environmental concern on phase one property | Potentially contaminating activity <sup>2</sup>     | Location of PCA (on-site or off-site) | Contaminants of potential concern <sup>3</sup> | Media potentially impacted (Groundwater, soil and/or sediment) |
|--|---|---|---------------------------------------|--|--|
| APEC-1A<br>APEC-1B<br>APEC-1C<br>APEC-1D             | Within the previous residential and commercial building footprints        | #30 Importation of Fill Material of Unknown Quality | On-site                               | Metals, PHC/ BTEX, PAHs, and pH/SAR/ EC        | Soil   |

The Phase One ESA identified three [3] potentially contaminating activities within the study area resulting in one [1] on-site area of environmental concern on the Phase One property. NSSL, therefore recommends a Phase Two ESA be completed to investigate the potential for soil contamination at the study site resulting from the on-site historical fill material being introduced in 2018.

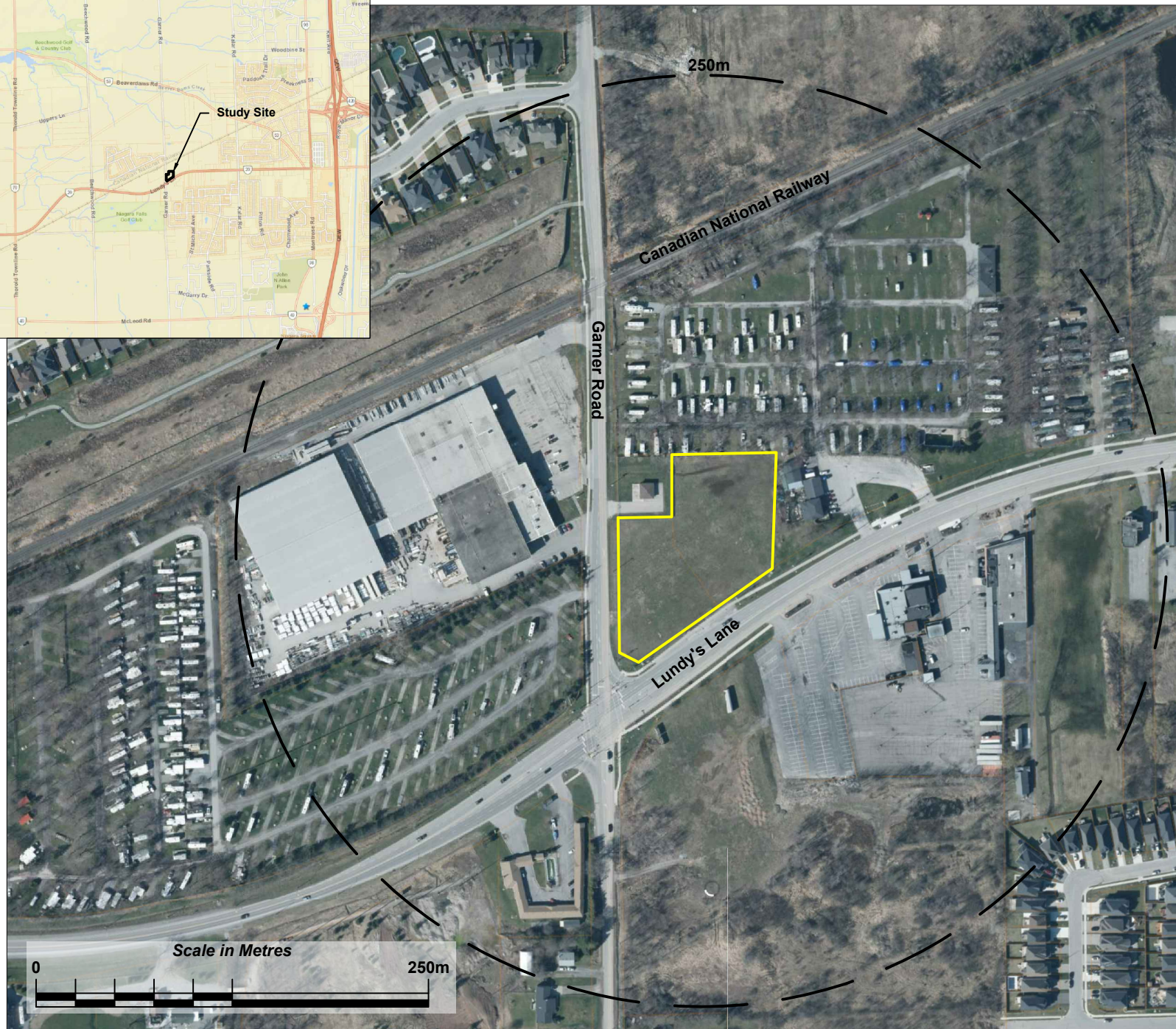
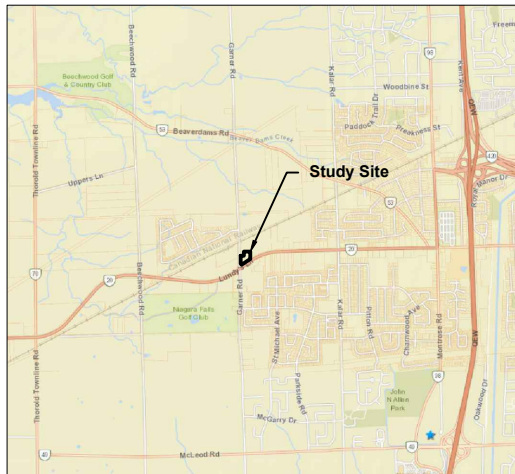
**Phase One ESA Conclusions - Addendum**

NSSL assessed the material on-site during the geotechnical drilling investigation completed by Niagara Testing & Inspection on June 3<sup>rd</sup>, 2022. Boreholes were placed within the former building locations and suspected fill areas across the site. The material in question was determined to be representative of imported granular A [crush or run limestone] material, and not “fill material of unknown quality”. Therefore, a Phase Two ESA is not required.

# FIGURES

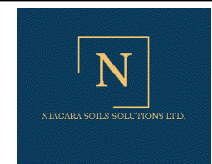
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1. SITE LOCATION
2. SITE LAYOUT
3. POTENTIALLY CONTAMINATING ACTIVITIES
4. AREAS OF POTENTIAL ENVIRONMENTAL CONCERN



**LEGEND**

- Phase One ESA Property Boundary
- 250 m Study Area



CLIENT:  
**M5V Developments**

PROJECT:  
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT**  
8885 - 8911 Lundy's Lane,  
Niagara Falls, Ontario

TITLE:  
**SITE LOCATION PLAN**

DRAWN BY: DN

CHECKED BY: JM

DATE: June 2022

PROJECT NO: NS2255-01

SCALE: AS SHOWN


NO:  
**Figure 1**

REFERENCE: BASE MAP PROVIDED BY NIAGARA NAVIGATOR, <https://maps-beta.niagararegion.ca/Navigator/>  
NOTE: FOR ILLUSTRATION PURPOSES ONLY, ALL LOCATIONS APPROXIMATE.





**LEGEND**

 Phase One ESA Property Boundary



CLIENT:

**M5V Developments**

PROJECT:

**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT**  
**8885 - 8911 Lundy's Lane,**  
**Niagara Falls, Ontario**

TITLE:

**SITE LAYOUT & FEATURES**

DRAWN BY:

DN

CHECKED BY:

JM

DATE:

June 2022

PROJECT NO:

NS2255-01

SCALE:

AS SHOWN

NO:

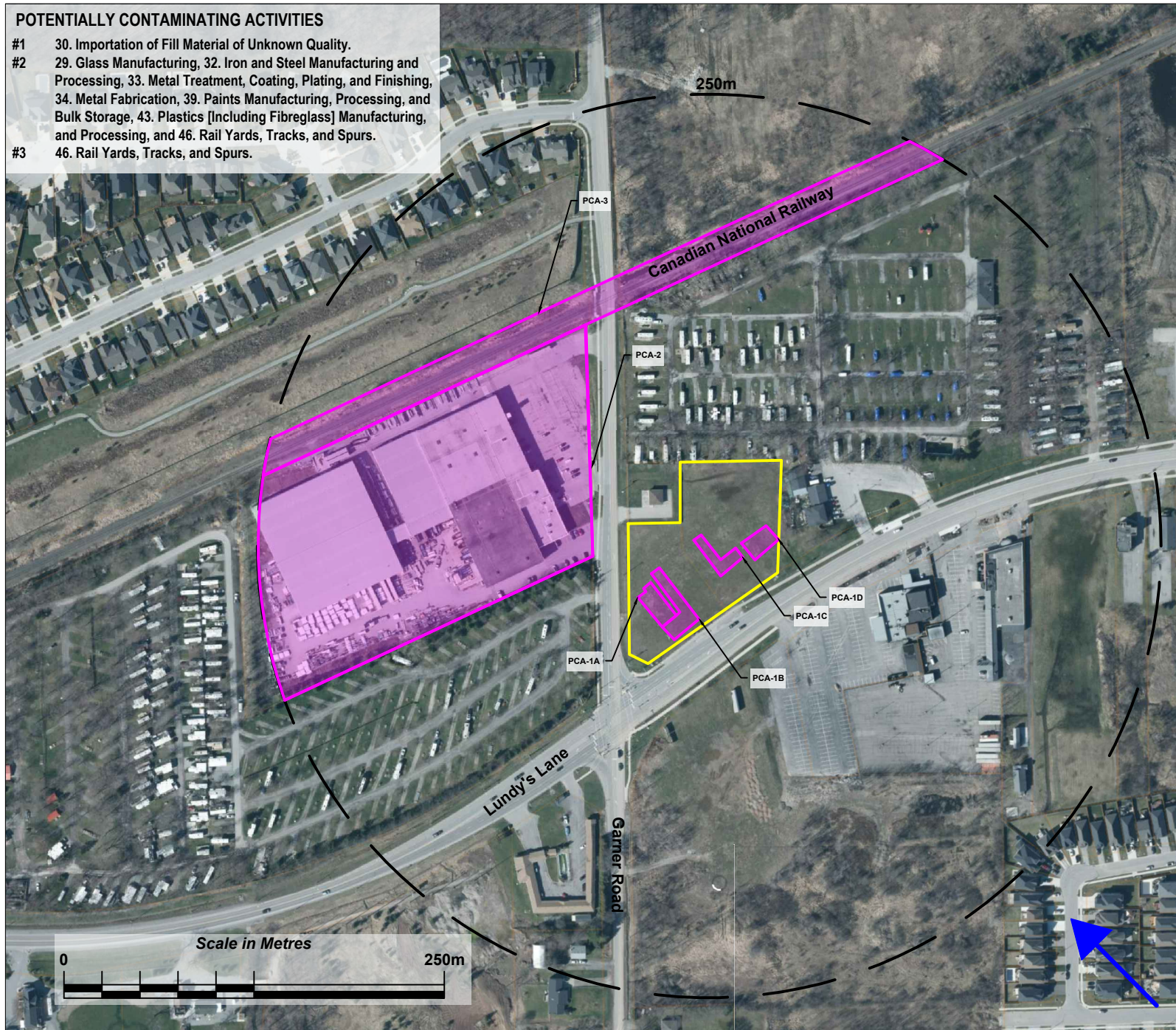
**Figure 2**

REFERENCE: BASE MAP PROVIDED BY NIAGARA NAVIGATOR, <https://maps-beta.niagararegion.ca/Navigator/>  
 NOTE: FOR ILLUSTRATION PURPOSES ONLY, ALL LOCATIONS APPROXIMATE.



**POTENTIALLY CONTAMINATING ACTIVITIES**

- #1 30. Importation of Fill Material of Unknown Quality.
- #2 29. Glass Manufacturing, 32. Iron and Steel Manufacturing and Processing, 33. Metal Treatment, Coating, Plating, and Finishing, 34. Metal Fabrication, 39. Paints Manufacturing, Processing, and Bulk Storage, 43. Plastics [Including Fibreglass] Manufacturing, and Processing, and 46. Rail Yards, Tracks, and Spurs.
- #3 46. Rail Yards, Tracks, and Spurs.



**LEGEND**

- Phase One ESA Property Boundary
- 250 m Study Area
- PCA Areas
- ↙ Inferred Groundwater Flow Direction



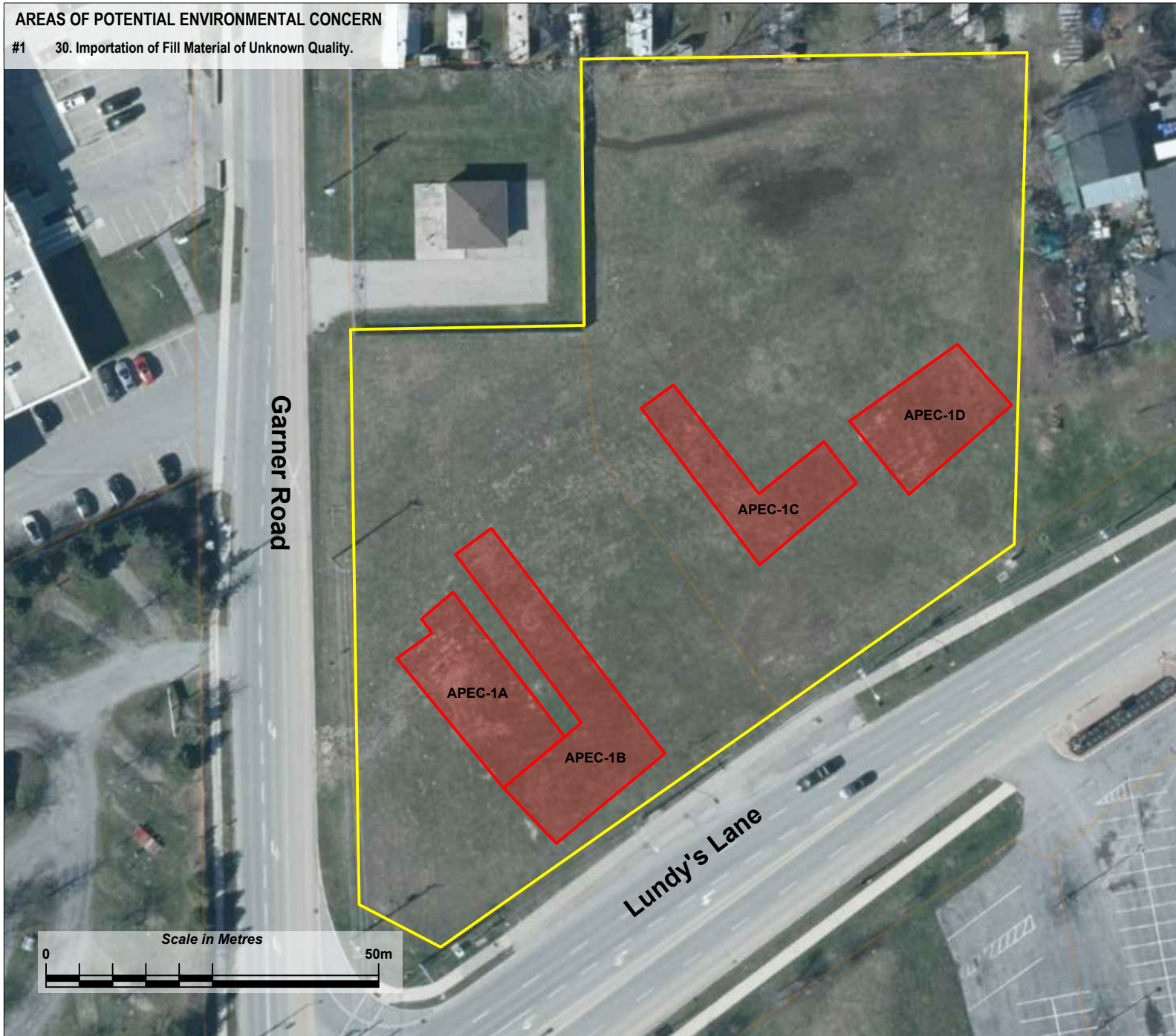
|             |   |
|-------------|---|
| CLIENT:     | <b>M5V Developments</b>   |
| PROJECT:    | <b>PHASE ONE ENVIRONMENTAL SITE ASSESSMENT</b><br>8885 - 8911 Lundy's Lane,<br>Niagara Falls, Ontario |
| TITLE:      | <b>POTENTIALLY CONTAMINATING ACTIVITIES</b>   |
| DRAWN BY:   | DN  |
| CHECKED BY: | JM  |
| DATE:       | June 2022   |
| PROJECT NO: | NS2255-01   |
| SCALE:      | AS SHOWN  |
| NO:         | <b>Figure 3</b>   |

REFERENCE: BASE MAP PROVIDED BY NIAGARA NAVIGATOR, <https://maps-beta.niagararegion.ca/Navigator/>  
 NOTE: FOR ILLUSTRATION PURPOSES ONLY, ALL LOCATIONS APPROXIMATE.





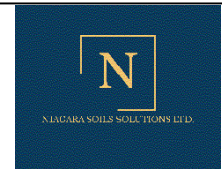
**AREAS OF POTENTIAL ENVIRONMENTAL CONCERN**

#1 30. Importation of Fill Material of Unknown Quality.



**LEGEND**

-  Phase One ESA Property Boundary
-  APEC Areas



CLIENT:  
**M5V Developments**

PROJECT:  
**PHASE ONE ENVIRONMENTAL SITE ASSESSMENT**  
8885 - 8911 Lundy's Lane,  
Niagara Falls, Ontario

TITLE:  
**AREAS OF POTENTIAL ENVIRONMENTAL CONCERN**

DRAWN BY: DN

CHECKED BY: JM

DATE: June 2022

PROJECT NO: NS2255-01

SCALE: AS SHOWN

NO:  
**Figure 4**

REFERENCE: BASE MAP PROVIDED BY NIAGARA NAVIGATOR, <https://maps-beta.niagararegion.ca/Navigator/>  
NOTE: FOR ILLUSTRATION PURPOSES ONLY, ALL LOCATIONS APPROXIMATE.



# APPENDIX A

---

AERIAL PHOTOGRAPHS

AERIAL PHOTOGRAPHS



Photograph No.1-1934

AERIAL PHOTOGRAPHS



Photograph No.2-1954-55

AERIAL PHOTOGRAPHS



Photograph No.3-1965

AERIAL PHOTOGRAPHS



Photograph No.4-1972



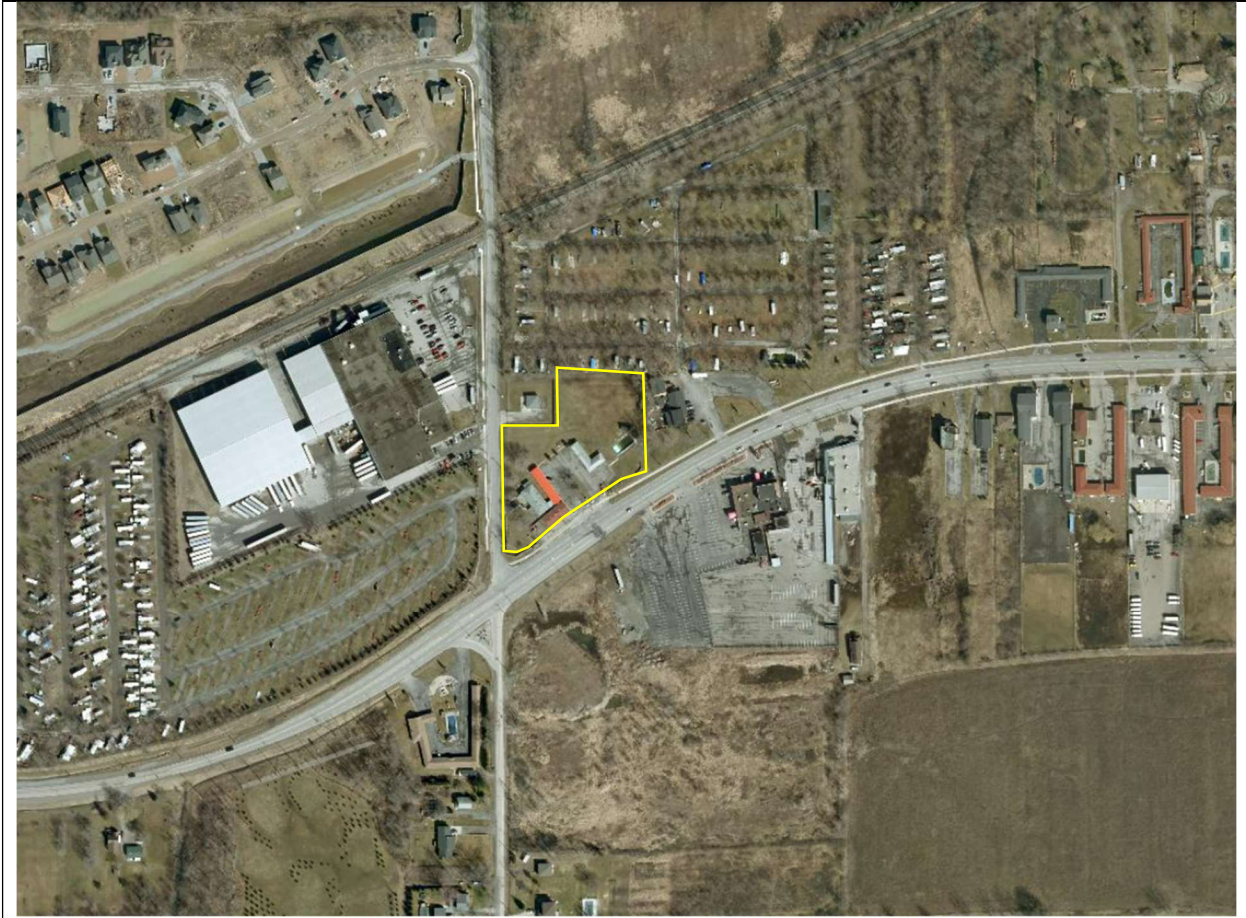
**AERIAL PHOTOGRAPHS**



**Photograph No.5-2000**



AERIAL PHOTOGRAPHS



Photograph No.6-2010

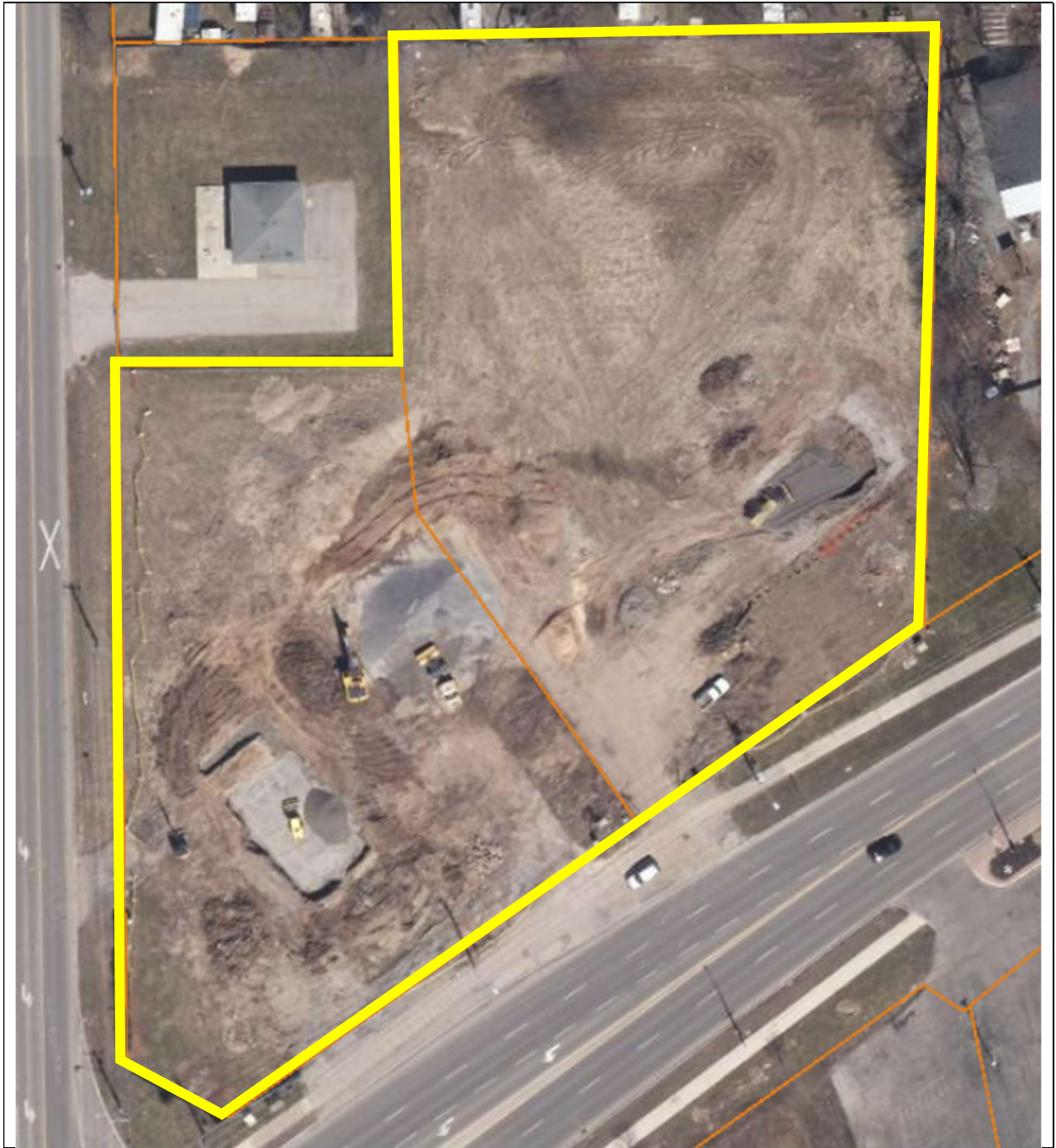
AERIAL PHOTOGRAPHS



**Photograph No.7-2018**



AERIAL PHOTOGRAPHS



Photograph No.8-2018 Enhanced

**AERIAL PHOTOGRAPHS**



**Photograph No.9-2020**

# APPENDIX B

---

WELL RECORDS

# WATER WELL RECORDS





**Well ID**

Well ID Number: 7269489  
 Well Audit Number: Z189217  
 Well Tag Number: A165828

**Well Location**

**Address of Well Location** 5855 GARNER ROAD

**City/Town/Village** Niagara Falls

**UTM Coordinates** NAD83 — Zone 17  
 Easting: 650436.00  
 Northing: 4772147.00

| <b>General Colour</b> | <b>Most Common Material</b> | <b>Other Materials</b> | <b>General Description</b> | <b>Depth From To</b> |       |
|-----------------------|-----------------------------|------------------------|----------------------------|----------------------|-------|
| BRWN                  | CLAY                        | SILT                   | SOFT                       | 0 ft                 | 10 ft |
| GREY                  | CLAY                        | SILT                   | SOFT                       | 10 ft                | 25 ft |

**Annular Space/Abandonment Sealing Record**

| <b>Depth From</b> | <b>Depth To</b> | <b>Type of Sealant Used (Material and Type)</b> |
|-------------------|-----------------|---|
| 14 ft             | 0 ft            | 3/8 BENTONITE CHIPS                             |
| 25 ft             | 14 ft           | #3 SILICA SAND                                  |

Observation Wells / Monitoring / Water Found at 20', and Untested

**Construction Record – Casing / Screen**

| <b>Inside/ Outside Diameter</b> | <b>Open Hole or material</b> | <b>Depth From</b> | <b>Depth To</b> |
|---------------------------------|------------------------------|-------------------|-----------------|
| 2 inch                          | PLASTIC                      | 0 ft              | 15 ft           |
| 2.125 inch                      | PLASTIC                      | 15 ft             | 25 ft           |

**Audit Number:** Z189217, **Well License#** 7484

**Date Well Completed:** July 19, 2016

**Date Well Record Received by MOE:** August 18, 2016

Decommission  
A092687

 Measurements recorded in:  Metric  Imperial

|   |            |                                |                     |                                  |
|---|------------|--------------------------------|---------------------|----------------------------------|
| Address of Well Location (Street Number/Name)<br>10413 Lakeshore Rd |            | Township<br>Wainfleet          | Lot                 | Concession                       |
| County/District/Municipality<br>Niagara District                    |            | City/Town/Village<br>Wainfleet | Province<br>Ontario | Postal Code                      |
| UTM Coordinates<br>NAD 83   | Zone<br>16 | Easting<br>509044              | Northing<br>4772319 | Municipal Plan and Sublot Number |

**Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)**

| General Colour | Most Common Material | Other Materials | General Description | Depth (m/ft) |    |
|----------------|----------------------|-----------------|---------------------|--------------|----|
|                |                      |                 |                     | From         | To |
|                | Bentonite Hole Plug  |                 |                     | 0            | 33 |
|                | All casing removed   |                 |                     |              |    |

| Annular Space       |  |                        |
|---------------------|--|------------------------|
| Depth Set at (m/ft) | Type of Sealant Used (Material and Type) | Volume Placed (m³/ft³) |
| From                | To                                       |                        |

| Method of Construction  | Well Use  |
|---|---|
| <input type="checkbox"/> Cable Tool<br><input type="checkbox"/> Rotary (Conventional)<br><input type="checkbox"/> Rotary (Reverse)<br><input type="checkbox"/> Boring<br><input type="checkbox"/> Air percussion<br><input type="checkbox"/> Other, specify _____ | <input type="checkbox"/> Diamond<br><input type="checkbox"/> Jetting<br><input type="checkbox"/> Driving<br><input type="checkbox"/> Digging<br><input type="checkbox"/> Public<br><input type="checkbox"/> Domestic<br><input type="checkbox"/> Livestock<br><input type="checkbox"/> Irrigation<br><input type="checkbox"/> Industrial<br><input type="checkbox"/> Other, specify _____ |

| Construction Record - Casing |  |                        | Status of Well |    |
|------------------------------|--|------------------------|----------------|----|
| Inside Diameter (cm/in)      | Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness (cm/in) | Depth (m/ft)   |    |
|                              |  |                        | From           | To |
|                              |  |                        |                |    |

| Construction Record - Screen |                                       |          | Status of Well |
|------------------------------|---------------------------------------|----------|----------------|
| Outside Diameter (cm/in)     | Material (Plastic, Galvanized, Steel) | Slot No. |                |
|                              |                                       |          |                |

| Water Details  |   | Hole Diameter        |                  |
|--|---|----------------------|------------------|
| Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested | Depth (m/ft) From To | Diameter (cm/in) |
| Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested |                      |                  |
| Water found at Depth (m/ft) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____ | Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested |                      |                  |

| Well Contractor and Well Technician Information                    |   |
|--|---|
| Business Name of Well Contractor<br>Ted van der Zalm well Drilling | Well Contractor's Licence No.<br>711 79 |
| Business Address (Street Number/Name)<br>840 Concession 2 Rd       | Municipality<br>Niagara on the lake     |
| Province<br>ON   | Postal Code<br>L0S1T0                   |
| Business E-mail Address<br>ted@tedvanderzalmwelldrilling.com       |   |

|   |  |                              |
|---|--|------------------------------|
| Bus. Telephone No. (inc. area code)<br>289 6879 355 | Name of Well Technician (Last Name, First Name)<br>van der Zalm, Ted | Date Submitted<br>2017/07/18 |
| Well Technician's Licence No.<br>2957               | Signature of Technician and/or Contractor<br><i>Ted van der Zalm</i> |                              |

| Results of Well Yield Testing   |              |                    |            |                    |
|---|--------------|--------------------|------------|--------------------|
| After test of well yield, water was:<br><input type="checkbox"/> Clear and sand free<br><input type="checkbox"/> Other, specify _____ | Draw Down    |                    | Recovery   |                    |
|   | Time (min)   | Water Level (m/ft) | Time (min) | Water Level (m/ft) |
| If pumping discontinued, give reason:   | Static Level |                    |            |                    |
|   | 1            |                    | 1          |                    |
| Pump intake set at (m/ft)   | 2            |                    | 2          |                    |
| Pumping rate (l/min / GPM)  | 3            |                    | 3          |                    |
| Duration of pumping<br>____ hrs + ____ min  | 4            |                    | 4          |                    |
| Final water level end of pumping (m/ft)   | 5            |                    | 5          |                    |
| If flowing give rate (l/min / GPM)  | 10           |                    | 10         |                    |
|   | 15           |                    | 15         |                    |
| Recommended pump depth (m/ft)   | 20           |                    | 20         |                    |
| Recommended pump rate (l/min / GPM)   | 25           |                    | 25         |                    |
| Well production (l/min / GPM)   | 30           |                    | 30         |                    |
| Disinfected?<br><input type="checkbox"/> Yes <input type="checkbox"/> No  | 40           |                    | 40         |                    |
|   | 50           |                    | 50         |                    |
|   | 60           |                    | 60         |                    |

| Map of Well Location   |
|--|
| Please provide a map below following instructions on the back. |
| <i>Lakeshore Rd</i>  |
| <i>well</i>  |
| <i>Driveway</i>  |

|                   |  |   |                                   |
|-------------------|--|---|-----------------------------------|
| Comments:         | Well owner's information package delivered<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Date Package Delivered<br>Y Y Y Y   M M   D D<br>2017/07/18 | Date Work Completed<br>2017/07/18 |
| Ministry Use Only |  | Audit No. 2242658   |                                   |
| Received          |  | JUL 24 2017   |                                   |



Tag #: A 212799

Measurements recorded in:  Metric  Imperial

Well Owner's Information

First Name, Last Name / Organization (461426 Ontario Limited), E-mail Address, Mailing Address (8845 Lundy's Lane), Municipality (Niagara Falls), Province (Ontario), Postal Code (L2H1H5), Telephone No.

Well Location

Address of Well Location (8845 Lundy's Lane), Township, Lot (L2S132/134), Concession, County/District (Niagara District), City/Town/Village (Niagara Falls), Province (Ontario), Postal Code (L2H1H5), UTM Coordinates (Zone 83, Easting 1763855, Northing 24776936, Plan and Sublot Number PT-SMFD TWP)

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes entries for Topsoil, clay, rock, unconsolidated, dense, fractured.

Annular Space table with columns: Depth Set at (m/ft) From, To; Type of Sealant Used (Bentomite); Volume Placed (12A3).

Method of Construction and Well Use section with checkboxes for Cable Tool, Rotary, Boring, Air percussion, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To. Includes entries for Steel and Open casing.

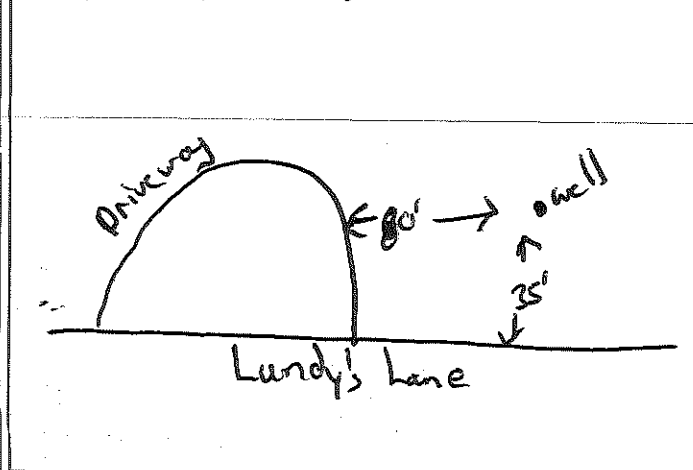
Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To.

Water Details and Hole Diameter table with columns for water depth, kind of water, hole depth, and diameter.

Well Contractor and Well Technician Information section with fields for Business Name (TelvanderZalm Well Drilling), Business Address, Licence No., and Technician Name (J. van der Zalm).

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes static level, pump intake, pumping rate, and final water level data.

Map of Well Location



Comments, Ministry Use Only (Audit No. 2267880, Received AUG 11 2017), and Well owner's information package delivered/Date Work Completed (20170710).

## Notice of Collection of Personal Information

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

Fields marked with an asterisk (\*) are mandatory.

Well Tag Number \*

A279202

### Type \*

Construction  Abandonment

### Measurement recorded in: \*

Metric  Imperial

## 1. Well Owner's Information

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

Last Name

First Name

Organization

COPACABANA COMPANIES

Email Address

### Current Address

Unit Number

Street Number \*

Street Name \*

City/Town/Village

Country

CANADA

Province

ONTARIO

Postal Code

Telephone Number

## 2. Well Location

### Address of Well Location

Unit Number

Street Number \*

n/a

Street Name \*

GARNER RD. & LUNDY'S LANE

Township

Lot

Concession

County/District/Municipality

NIAGARA (WELLAND)

City/Town

NIAGARA FALLS

Province

Ontario

Postal Code

UTM Coordinates

Zone \*

Easting \*

Northing \*

Municipal Plan and Sublot Number

NAD 83

17

650839

4772090

[Test UTM in Map](#)

Other

\* SE corner ; BH/MW 9

## 3. Overburden and Bedrock Material \*

Well Depth \*

6

(m)

| General Colour | Most Common Material | Other Materials | General Description | Depth From (m) | Depth To (m) |
|----------------|----------------------|-----------------|---------------------|----------------|--------------|
| Brown          | Fill                 |                 |                     | 0              | 2.1          |
| Brown          | Silt                 |                 |                     | 2.1            | 6            |

**4. Annular Space \***

| Depth From<br>(m) | Depth To<br>(m) | Type of Sealant Used (Material and Type) | Volume Placed<br>(cubic metres) |
|-------------------|-----------------|--|---------------------------------|
| 0                 | 0.3             | concrete                                 | 0.01                            |
| 0.3               | 4.2             | bentonite chips                          | 0.135                           |

**5. Method of Construction \***

- Cable Tool     Rotary (Conventional)     Rotary (Reverse)     Boring     Air percussion     Diamond  
 Jetting     Driving     Digging     Rotary (Air)     Augering     Direct Push  
 Other (specify) \_\_\_\_\_

**6. Well Use \***

- Public     Industrial     Cooling & Air Conditioning  
 Domestic     Commercial     Not Used  
 Livestock     Municipal     Monitoring  
 Irrigation     Test Hole     Dewatering  
 Other (specify) \_\_\_\_\_

**7. Status of Well \***

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

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

| Inside Diameter<br>(cm) | Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel) | Wall Thickness | Depth From<br>(m) | Depth To<br>(m) |
|-------------------------|--|----------------|-------------------|-----------------|
| 5.1                     | Plastic  | 0.65           | 0                 | 4.5             |

**9. Construction Record - Screen**

| Outside Diameter<br>(cm) | Material<br>(Plastic, Galvanized, Steel) | Slot Number | Depth From<br>(m) | Depth To<br>(m) |
|--------------------------|--|-------------|-------------------|-----------------|
| 6.4                      | Plastic                                  | 10          | 4.5               | 6               |

**10. Water Details**

Water found at Depth (m)  Gas    Kind of Water  Fresh     Untested     Other (specify)

## 11. Hole Diameter

| Depth From<br>(m) | Depth To<br>(m) | Diameter<br>(cm) |
|-------------------|-----------------|------------------|
| 0                 | 6               | 21               |

## 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (L/min)

Draw down \*

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

Recovery \*

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

After test of well yield, water was

Clear and sand free  Other (specify)

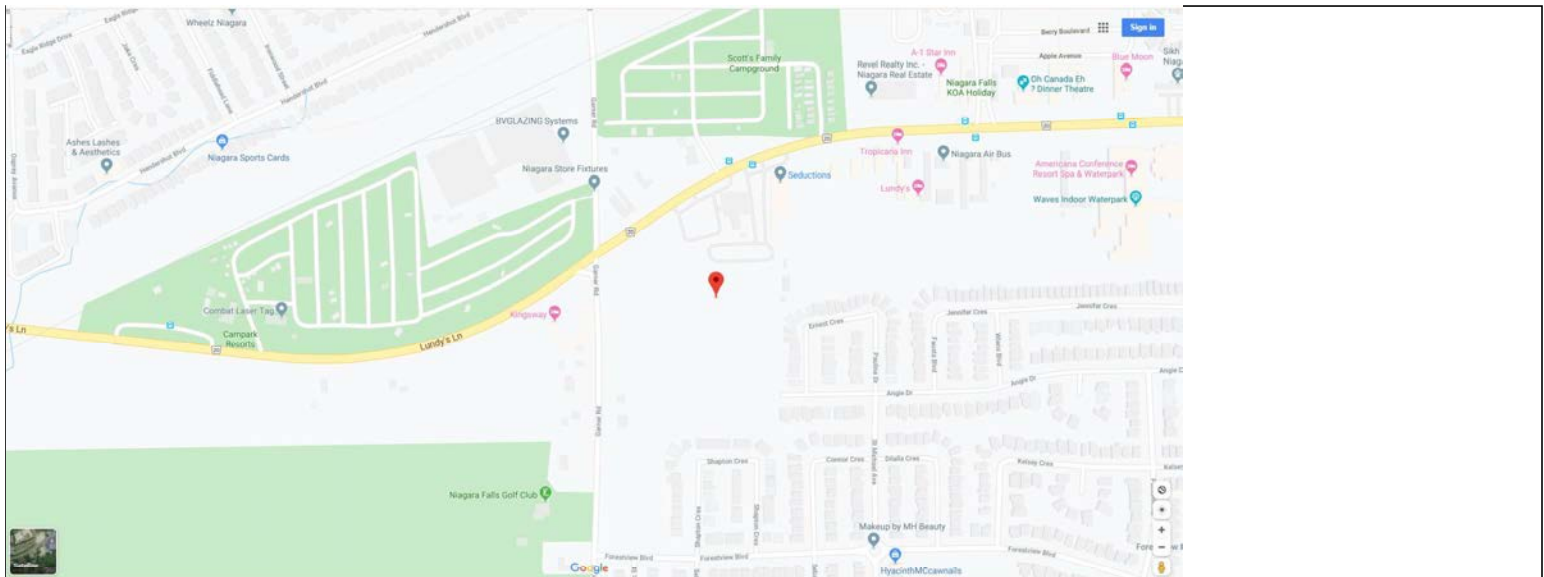
| Pump intake set at<br>(m) | Pumping rate<br>(L/min) | Duration of pumping<br>hrs + min | Final water level end of pumping<br>(m) | Disinfected? *<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------------------|-------------------------|----------------------------------|---|---|
|                           |                         |                                  |   |   |

| Recommended pump depth<br>(m) | Recommended pump rate<br>(L/min) | Well production<br>(L/min) |
|-------------------------------|----------------------------------|----------------------------|
|                               |                                  |                            |

## 13. Map of Well Location \*

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

Make map area bigger





**14. Information**


|  |                                     |  |
|--|-------------------------------------|--|
| Well owner's information package delivered<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Date Package Delivered (yyyy/mm/dd) | Date Work Completed (yyyy/mm/dd) *<br>2019/11/29 |
| Comments   |                                     |  |

**15. Well Contractor and Well Technician Information**

|   |   |  |
|---|---|--|
| Business Name of Well Contractor *<br>Geo-Environmental Drilling Inc. |   | Well Contractor's License Number *<br>6607 |
| <b>Business Address</b>   |   |  |
| Unit Number   | Street Number   | Street Name *                              |
|   | 1   | Mansewood Court                            |
| City/Town/Village *<br>Halton Hills                                   |   | Province<br>Ontario                        |
|   |   | Postal Code *<br>L7J 0A1                   |
| Business Telephone Number<br>905-876-3388                             | Business Email Address<br>dgunn@geo-environmentaldrilling.com |  |
| Last Name of Well Technician *<br>PAQUETTE                            | First Name of Well Technician *<br>JEFF                       | Well Technician's License Number *<br>2386 |

**16. Declaration \***

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

|   |                    |   |
|---|--------------------|---|
| Last Name<br>PAQUETTE   | First Name<br>JEFF | Email Address<br>romana@geo-environmentaldrilling.com |
| Signature<br><b>Jeff Paquette</b><br> Digitally signed by Jeff Paquette<br>Date: 2019.12.18 09:08:15 -05'00' |                    | Date Submitted (yyyy/mm/dd)<br>2019/12/18             |

**17. Ministry Use Only**

Audit Number  
NF6P 2GT2

## Notice of Collection of Personal Information

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

Fields marked with an asterisk (\*) are mandatory.

Well Tag Number \*

A279513

### Type \*

Construction  Abandonment

### Measurement recorded in: \*

Metric  Imperial

## 1. Well Owner's Information

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

Last Name

First Name

Organization

COPACABANA COMPANIES

Email Address

### Current Address

Unit Number

Street Number \*

Street Name \*

City/Town/Village

Country

CANADA

Province

ONTARIO

Postal Code

Telephone Number

## 2. Well Location

### Address of Well Location

Unit Number

Street Number \*

n/a

Street Name \*

GARNER RD. & LUNDY'S LANE

Township

Lot

Concession

County/District/Municipality

NIAGARA (WELLAND)

City/Town

NIAGARA FALLS

Province

Ontario

Postal Code

UTM Coordinates

Zone \*

Easting \*

Northing \*

Municipal Plan and Sublot Number

NAD 83

17

650731

4771981

[Test UTM in Map](#)

Other

\* SE corner ; BH/MW 2

## 3. Overburden and Bedrock Material \*

Well Depth \*

6

(m)

| General Colour | Most Common Material | Other Materials | General Description | Depth From (m) | Depth To (m) |
|----------------|----------------------|-----------------|---------------------|----------------|--------------|
| Brown          | Clay                 |                 |                     | 0              | 4.2          |
| Brown          | Clay                 |                 |                     | 4.2            | 6            |

#### 4. Annular Space \*

| Depth From<br>(m) | Depth To<br>(m) | Type of Sealant Used (Material and Type) | Volume Placed<br>(cubic metres) |
|-------------------|-----------------|--|---------------------------------|
| 0                 | 0.3             | concrete                                 | 0.01                            |
| 0.3               | 4.2             | bentonite chips                          | 0.135                           |

#### 5. Method of Construction \*

- Cable Tool    Rotary (Conventional)    Rotary (Reverse)    Boring    Air percussion    Diamond  
 Jetting    Driving    Digging    Rotary (Air)    Augering    Direct Push  
 Other (specify) \_\_\_\_\_

#### 6. Well Use \*

- Public    Industrial    Cooling & Air Conditioning  
 Domestic    Commercial    Not Used  
 Livestock    Municipal    Monitoring  
 Irrigation    Test Hole    Dewatering  
 Other (specify) \_\_\_\_\_

#### 7. Status of Well \*

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

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

| Inside Diameter<br>(cm) | Open Hole or Material (Galvanized, Fibreglass,<br>Concrete, Plastic, Steel) | Wall Thickness | Depth From<br>(m) | Depth To<br>(m) |
|-------------------------|---|----------------|-------------------|-----------------|
| 5.1                     | Plastic   | 0.65           | 0                 | 4.5             |

#### 9. Construction Record - Screen

| Outside Diameter<br>(cm) | Material<br>(Plastic, Galvanized, Steel) | Slot Number | Depth From<br>(m) | Depth To<br>(m) |
|--------------------------|--|-------------|-------------------|-----------------|
| 6.4                      | Plastic                                  | 10          | 4.5               | 6               |

#### 10. Water Details

Water found at Depth (m)  Gas   Kind of Water  Fresh    Untested    Other (specify)



### 11. Hole Diameter

| Depth From<br>(m) | Depth To<br>(m) | Diameter<br>(cm) |
|-------------------|-----------------|------------------|
| 0                 | 6               | 21               |

### 12. Results of Well Yield Testing

Pumping Discontinued

Explain \_\_\_\_\_

If flowing give rate

Flowing \_\_\_\_\_ (L/min)

Draw down \*

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

Recovery \*

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

After test of well yield, water was

Clear and sand free  Other (specify)

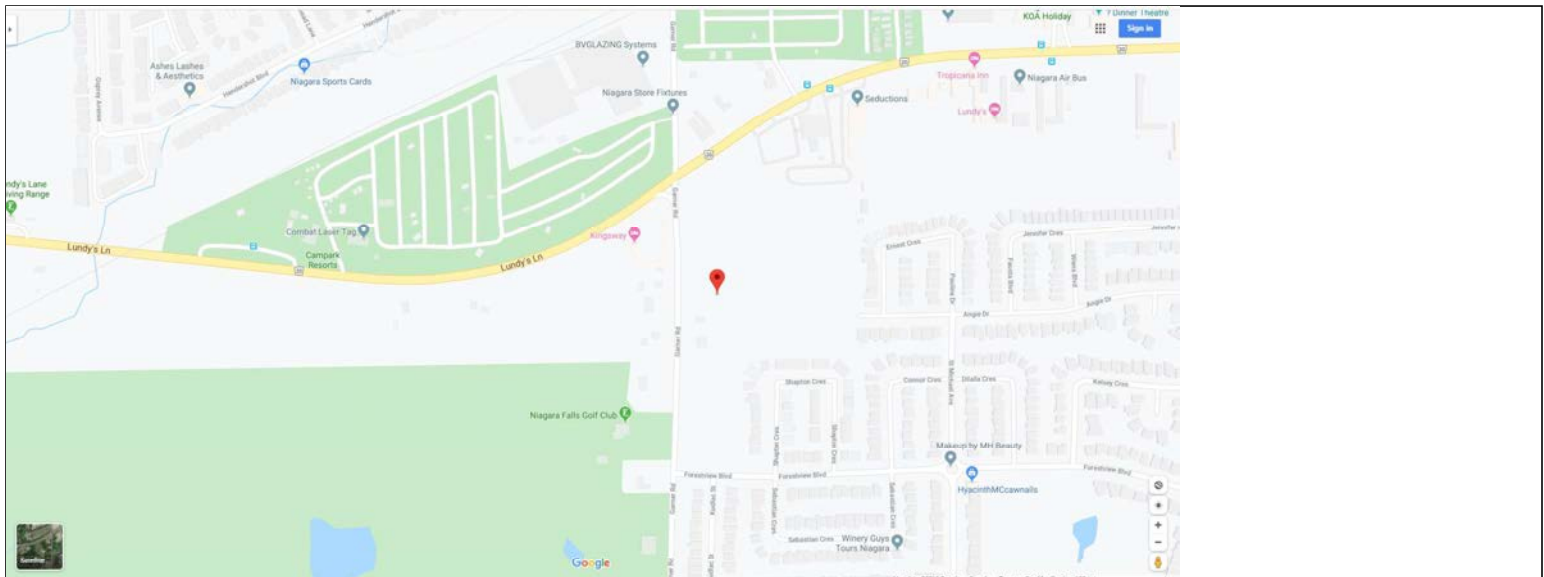
| Pump intake set at<br>(m) | Pumping rate<br>(L/min) | Duration of pumping<br>hrs + min | Final water level end of pumping<br>(m) | Disinfected? *<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------------------|-------------------------|----------------------------------|---|---|
|                           |                         |                                  |   |   |

| Recommended pump depth<br>(m) | Recommended pump rate<br>(L/min) | Well production<br>(L/min) |
|-------------------------------|----------------------------------|----------------------------|
|                               |                                  |                            |

### 13. Map of Well Location \*

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

Make map area bigger



**14. Information**


|  |                                     |                                    |
|--|-------------------------------------|------------------------------------|
| Well owner's information package delivered<br><input type="checkbox"/> Yes <input type="checkbox"/> No | Date Package Delivered (yyyy/mm/dd) | Date Work Completed (yyyy/mm/dd) * |
|  |                                     | 2019/11/28                         |
| Comments   |                                     |                                    |

**15. Well Contractor and Well Technician Information**

|                                    |                                     |                                    |                                    |
|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| Business Name of Well Contractor * |                                     | Well Contractor's License Number * |                                    |
| Geo-Environmental Drilling Inc.    |                                     | 6607                               |                                    |
| <b>Business Address</b>            |                                     |                                    |                                    |
| Unit Number                        | Street Number                       | Street Name *                      |                                    |
|                                    | 1                                   | Mansewood Court                    |                                    |
| City/Town/Village *                |                                     | Province                           | Postal Code *                      |
| Halton Hills                       |                                     | Ontario                            | L7J 0A1                            |
| Business Telephone Number          | Business Email Address              |                                    |                                    |
| 905-876-3388                       | dgunn@geo-environmentaldrilling.com |                                    |                                    |
| Last Name of Well Technician *     |                                     | First Name of Well Technician *    | Well Technician's License Number * |
| PAQUETTE                           |                                     | JEFF                               | 2386                               |

**16. Declaration \***

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

|   |            |                                      |
|---|------------|--------------------------------------|
| Last Name   | First Name | Email Address                        |
| PAQUETTE  | JEFF       | romana@geo-environmentaldrilling.com |
| Signature   |            | Date Submitted (yyyy/mm/dd)          |
| Jeff Paquette<br> Digitally signed by Jeff Paquette<br>Date: 2019.12.18 08:56:27 -05'00' |            | 2019/12/18                           |

**17. Ministry Use Only**

Audit Number  
VPTB S3RE