

154 Colonnade Road South
Ottawa, Ontario
Canada, K2E 7J5
Tel: (613) 226-7381
Fax: (613) 226-6344

September 5, 2018
File: PE3336-LET.05

Trim Road Land Holdings Limited
225 Metcalfe Street, Suite 708
Ottawa, Ontario
K2P 1P9

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science
Archaeological Studies

Attention: **Mr. Alex Turner**

www.patersongroup.ca

Subject: **Phase I - Environmental Site Assessment Update
Commercial and Vacant Property – 900 and 920 Watters Road
Ottawa, Ontario**

Dear Sir,

Further to your request, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (ESA) Update for the commercial and vacant property addressed 900 and 920 Watters Road, respectively, situated on the southwest corner of Trim Road and Watters Road intersection, in the City of Ottawa, Ontario.

This report updates the Phase I – ESA prepared by Paterson, dated August 5, 2014 and is intended to meet the requirements for a Phase I ESA as per the MOECC standard O.Reg. 153/04 as amended by O.Reg. 269/11. This report is to be read in conjunction with the previous Phase I-ESA report.

Site Information

The subject site is comprised of a commercial development and a vacant lot, addressed 900 and 920 Watters Road, respectively. The subject site is comprised of a L-shaped retail plaza with paved parking and an undeveloped, vacant grassed lot. The vacant lot is slightly below grade with Watters Road and Trim Road, sloping slightly in a northerly direction. The regional topography slopes downwards to the north towards the Ottawa River. Site drainage is a combination of sheet flow to catch basins and infiltration. The configuration of the subject site is shown on Drawing PE3336-1 - Site Plan, which is appended to this report.

Records Review

Phase I ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I ESA study area for this assignment. Properties outside the 250 m radius are not considered to have the potential to impact the subject site, based on their separation distance.

First Developed Use Determination

According to the chain of title, city directories and aerial photographs, the subject site was first developed in 2005, at 900 Watters Road. The vacant lot at 920 Watters Road has never been developed. Both properties were previously used for agricultural purposes.

Previous Environmental Reports

The following report(s) were reviewed prior to conducting this assessment:

- ❑ 'Phase I Environmental Site Assessment, Commercial and Vacant Property – 900 and 920 Watters Road, Ottawa, Ontario', prepared by Paterson Group, dated August 5, 2014.

Based on the findings of this Phase I-ESA, no significant environmental concerns were identified during the historical review or the site visit with the past and current conditions of the subject site or surrounding properties..

- ❑ 'Phase I Environmental Site Assessment, Vacant Property – Trim Road Right-of-Way Adjacent to 900 and 920 Watters Road, Ottawa, Ontario', prepared by Paterson Group, dated September 1, 2017.

Based on the findings of this Phase I-ESA, no significant environmental concerns were identified during the historical review or the site visit with the past and current conditions of the subject site or surrounding properties. A Phase II ESA was not required for the subject site.

Plan of Survey

A plan of survey has been provided by Stantec Geomatics Limited. The configuration of the subject site remains unchanged. A copy of the plan is appended to this report.

Environment and Climate Change Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on September 5, 2018. The subject site was not listed in the NPRI database nor were any neighbouring properties.

Ontario Ministry of the Environment (MOECC) Instruments

A request was submitted to the MOECC Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOECC issued instruments for the site. At the time of issuance of this report, a response had not been received from the MOECC. A copy of the response will be forwarded to the client if it contains any pertinent information.

MOECC Incident Reports

A request was submitted to the MOECC Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOECC for the site or adjacent properties. At the time of issuance of this report, a response had not been received from the MOECC. A copy of the response will be forwarded to the client if it contains any pertinent information.

Areas of Natural Significance

A search for areas of natural significance and features within the Phase I study area was conducted on the web site of the Ontario Ministry of Natural Resources (MNR) on September 5, 2018. The search did not reveal any natural features or areas of natural significance within the Phase I study area.

City of Ottawa Landfill Document

The document entitled “Old Landfill Management Strategy, Phase I - Identification of Sites, City of Ottawa”, was reviewed. No former waste disposal sites were located within the Phase I study area.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on August 28, 2018 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. No records were found for the subject site or neighbouring properties.

City of Ottawa Historical Land Use Inventory (HLUI)

A search of the City of Ottawa's Historical Land Use Inventory (HLUI) database was conducted previously for the subject site. The City of Ottawa HLUI search reports have not been updated since the original HLUI request (Phase I-ESA, dated August 5, 2014).

Aerial Photographs

The latest aerial photograph within the original Paterson report is from 2011. A review of aerial photographs from 2014 and 2017 show no change to the subject site. Some additional residential development has occurred approximately 40 m south east of the subject site. Trim Road has been realigned further to the east and no longer abuts 900 and 920 Watters Road. No significant changes are apparent on the subject site. The subject site and surrounding lands are depicted as they appear today.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website and from the City of Ottawa website. The topographic maps indicate that the regional topography in the general area of the site slopes downward towards the Ottawa River located to the north. According to the maps, the nearest water bodies are Taylors Creek and Cardinal Creek that are located approximately 1,170m west and 500m east of the subject site, respectively. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

A Physiographic Map was reviewed from the Natural Resources Canada – The Atlas of Canada website. According to this physiographic map, the site is located in the St. Lawrence Lowlands. According to the mapping description provided: "The lowlands are plain-like areas that were all affected by the Pleistocene glaciations and are therefore covered by surficial deposits and other features associated with the ice sheets." The subject site is located in the Central St. Lawrence Lowland, which is generally less than 150 m above sea level.

Water Well Records

A search of the MOECC's online water well records database was completed on August 28, 2018, for all drilled wells within 250 m of the subject site. A total of eighteen (18) well records matching the search criteria were retrieved from the database. Sixteen (16) of the records are for private water wells drilled in the area between 1954 and 1984 for domestic use. Two (2) records are for monitoring wells completed in 2013, including the on-site

monitoring wells drilled by Parsons on October 10, 2013 as part of a baseline Phase II – ESA for a previous property owner. Copies of the water well records are appended to this report. The monitoring wells installed by Parsons in 2013 on the subject site had been decommissioned at the time of this assessment.

Property Owner Representative Interview

Mr. Alex Turner of Taggart Realty Management was interviewed via email as part of this assessment. Mr. Turner was not aware of any environmental concerns with respect to the subject site.

Site Reconnaissance

Our site reconnaissance visit was conducted on September 5, 2018. Weather conditions were sunny, with a temperature of approximately 28° C. Ms. Mandy Witteman from the Environmental Department of Paterson Group conducted the site inspection. The site inspection did not include an interior inspection of the various retail business in the plaza, since none of the operations were considered to pose a risk to the subject property. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site visit.

The northern portion of the subject site is a grassed vacant lot, while the southern portion of the subject site is developed and comprised of a L-shaped configuration retail plaza, a stand-alone bank and a paved parking area located centrally on the subject site.

Site drainage consists of infiltration on the vacant lot and sheet flow to catch basins on the developed lot. Two (2) pad mounted transformers were observed on the west side of the subject property. No areas of stained pavement or discoloured vegetation were observed on or around site.

No private sewage systems were observed on the subject property. No evidence of current or former railway or spur lines on the subject property was observed at the time of the site inspection. There were no unidentified substances observed on the subject site. The surrounding properties were also observed during the site visit and are shown on Drawing PE3336-2 - Surrounding Land Use Plan. No potential environmental concerns were identified with the current use of the subject site and surrounding lands.

Review and Evaluation of Information

Land Use History

The past use of the subject site was agricultural. The commercial land, 900 Watters Road, was first developed in 2005 with the current retail plaza and bank. The vacant lot, 920 Watters Road has always existed as either agricultural or vacant land.

Potentially Contaminating Activities (PCAs)

No potentially contaminating activities were identified in the Phase I – ESA study area.

Areas of Potential Environmental Concern (APEC)

No Areas of Potential Environmental Concern were identified in this Phase I ESA.

Contaminants of Potential Concern (CPC)

Based on the past uses of the subject site, no Contaminants of Potential Concern (CPCs) were identified.

Conceptual Site Model

Geological and Hydrogeological Setting

The Geological Survey of Canada website on the Urban Geology of the National Capital Area was consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of limestone of the Bobcaygeon Formation. Overburden soils are shown as marine deposits, clay and silt, with a drift thickness on the order of 15 to 25m.

The regional groundwater flows in a north easterly direction towards Cardinal Creek.

Contaminants of Potential Concern

No contaminants of potential concern were identified by this Phase I – ESA.

Existing Buildings and Structures

The northern portion of the subject site is a vacant grassed lot. The southern portion of the subject site is comprised of a L-shaped configuration retail plaza with a paved parking area and a commercial building (bank) on the east side of the property. The commercial buildings are stand-alone, single-storey, poured concrete structures, with a flat roof and a brick exterior.

Water Bodies

Cardinal Creek, which is located approximately 500m east of the subject site, is the closest water body.

Areas of Natural Significance

No areas of natural significance were identified on the site or in the Phase I study area.

Drinking Water Wells

No private wells are believed to be present on the subject property or in use in the study area.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is mainly residential and commercial. No concerns were identified with the current neighbouring land use.

Potentially Contaminating Activities and Areas of Potential Environmental Concern

As previously mentioned, no Potentially Contaminating Activities (PCAs) were identified on the subject site. As a result, no Areas of Potential Environmental Concerns were identified.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that there are no areas of potential environmental concern on the subject site which have the potential to have impacted the subject site.

The absence of PCAs was confirmed by a variety of independent sources. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

Conclusions

As a result of the additional historical research and follow-up site visit undertaken as part of this assessment in order to meet the requirements of O.Reg. 153/04 as amended by O.Reg. 269/11, it is our opinion that a Phase II ESA is not required for the subject site.

Statement of Limitations

This Phase I - Environmental Site Assessment Update report has been prepared in general accordance with the agreed scope-of-work and O.Reg. 153/04. The conclusions presented herein are based on information gathered from a historical review and field inspection program. The findings of the Phase I ESA Update are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment. This report was prepared for the sole use of Trim Road Land Holdings Limited. Permission and notification from Trim Road Land Holdings Limited and this firm will be required to release this report to any other party.

We trust that this submission satisfies your current requirements. Should you have any questions please contact the undersigned.

Paterson Group Inc.



Mandy Witteman, M.A.Sc



Mark S. D'Arcy, P.Eng.

Report Distribution:

- Trim Road Land Holding Limited (1 copy)
- Paterson Group (1 copy)

Attachments:

- Figure 1 - Key Plan
- Figure 2 - Topographic Map
- Drawing PE3336-1 - Site Plan
- Drawing PE3336-2 - Surrounding Land Use Plan
- Plan of Survey
- TSSA Response
- MOECC Well Records



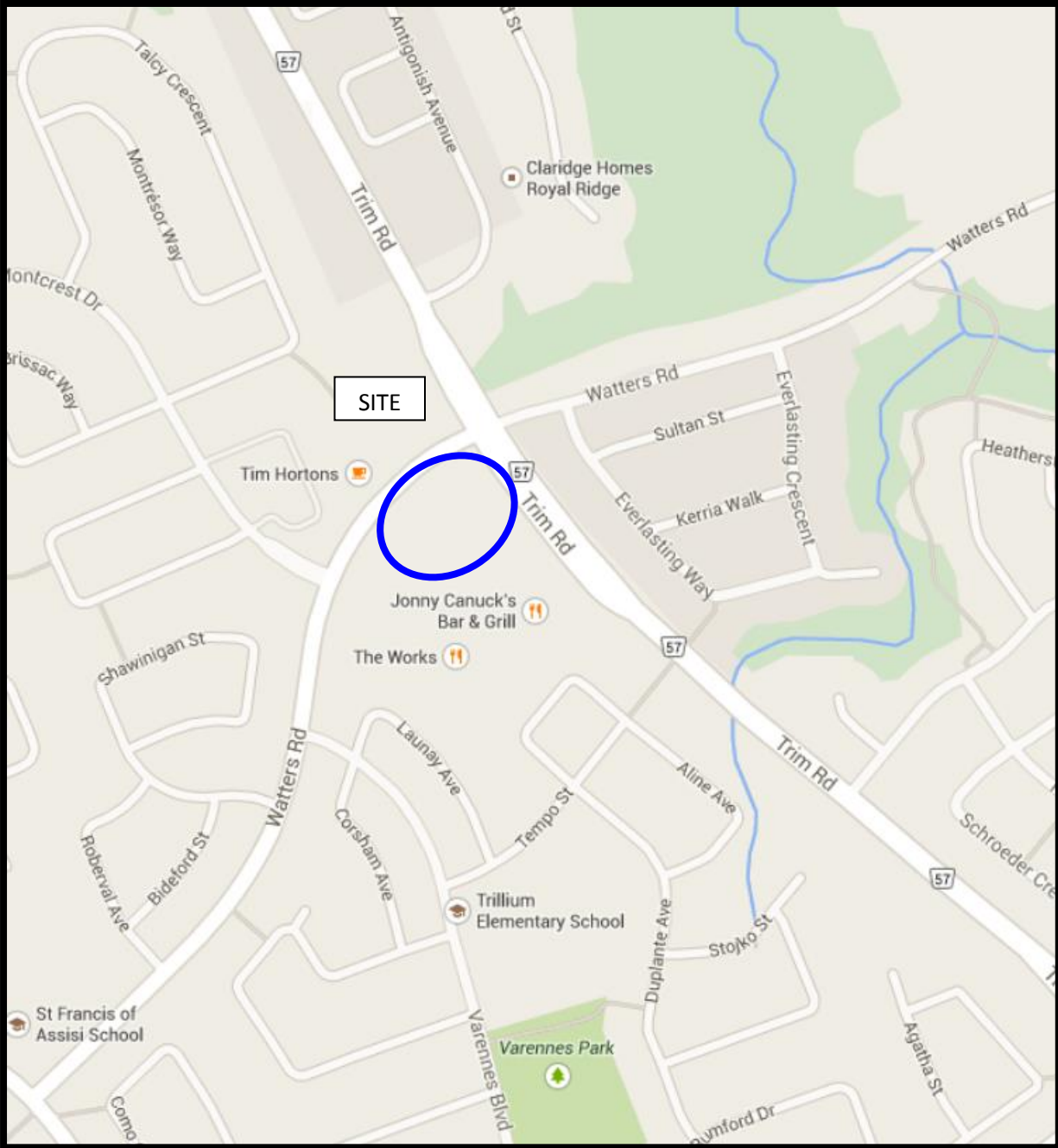


FIGURE 1
KEY PLAN

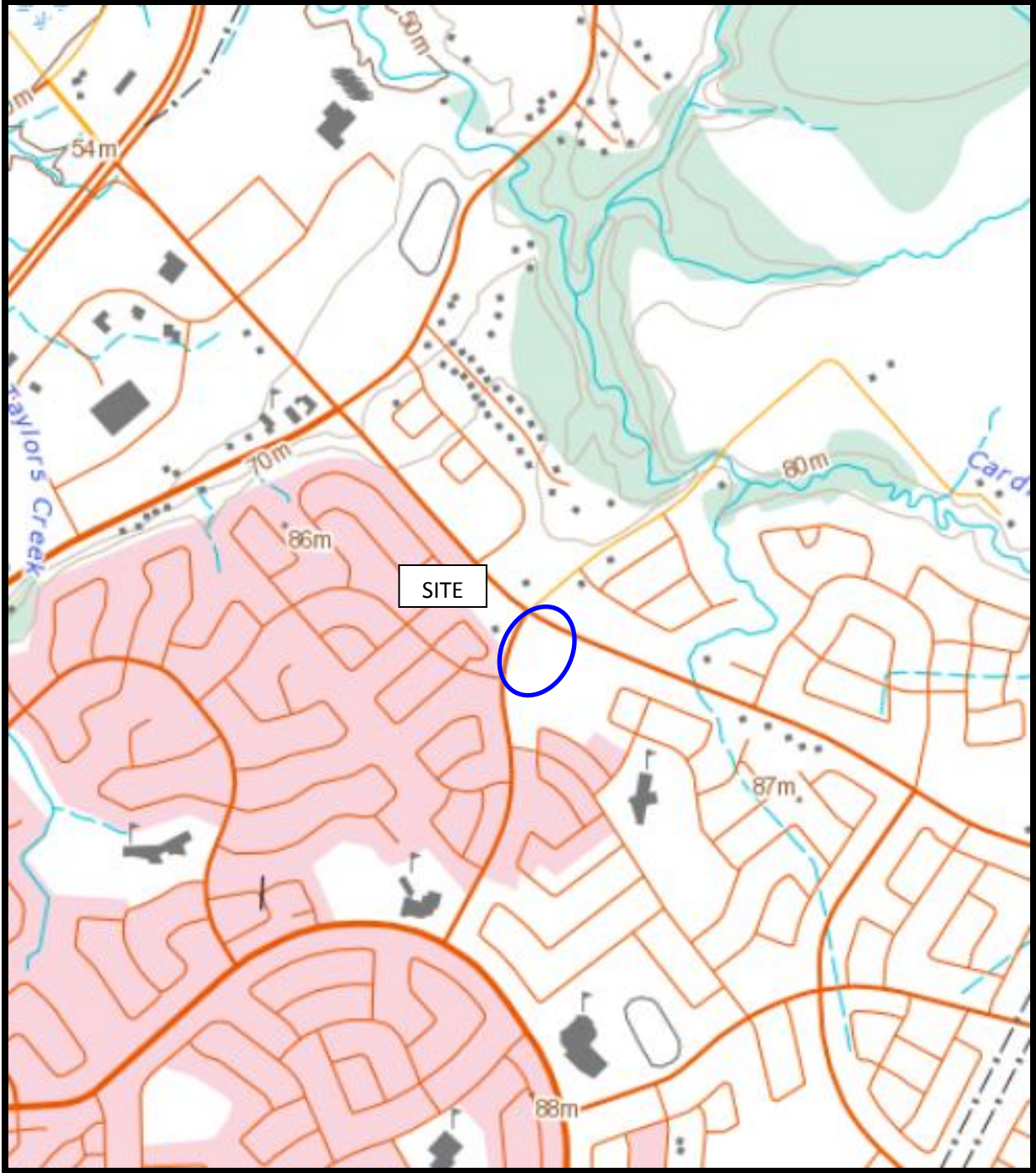
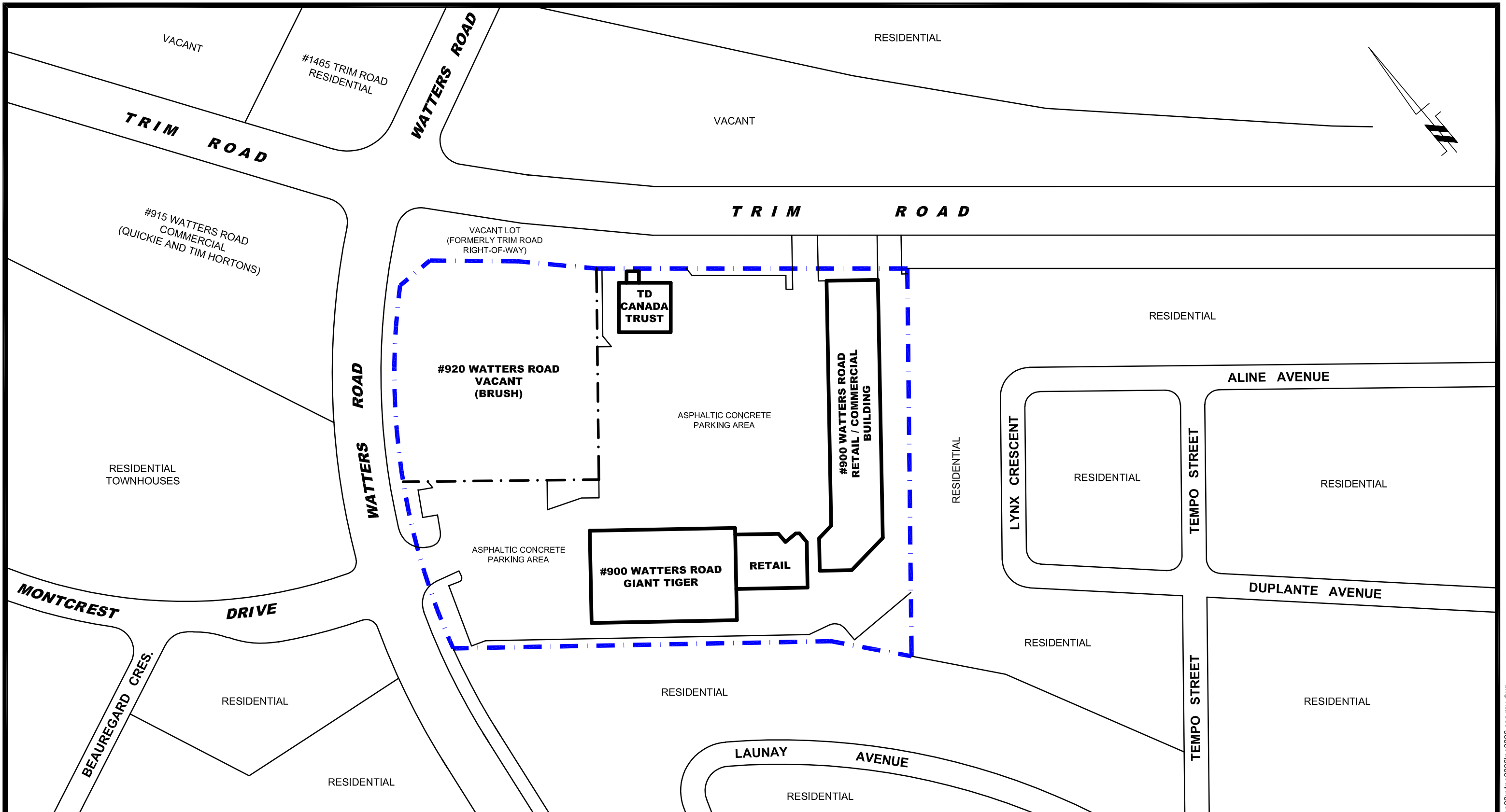


FIGURE 2
TOPOGRAPHIC MAP



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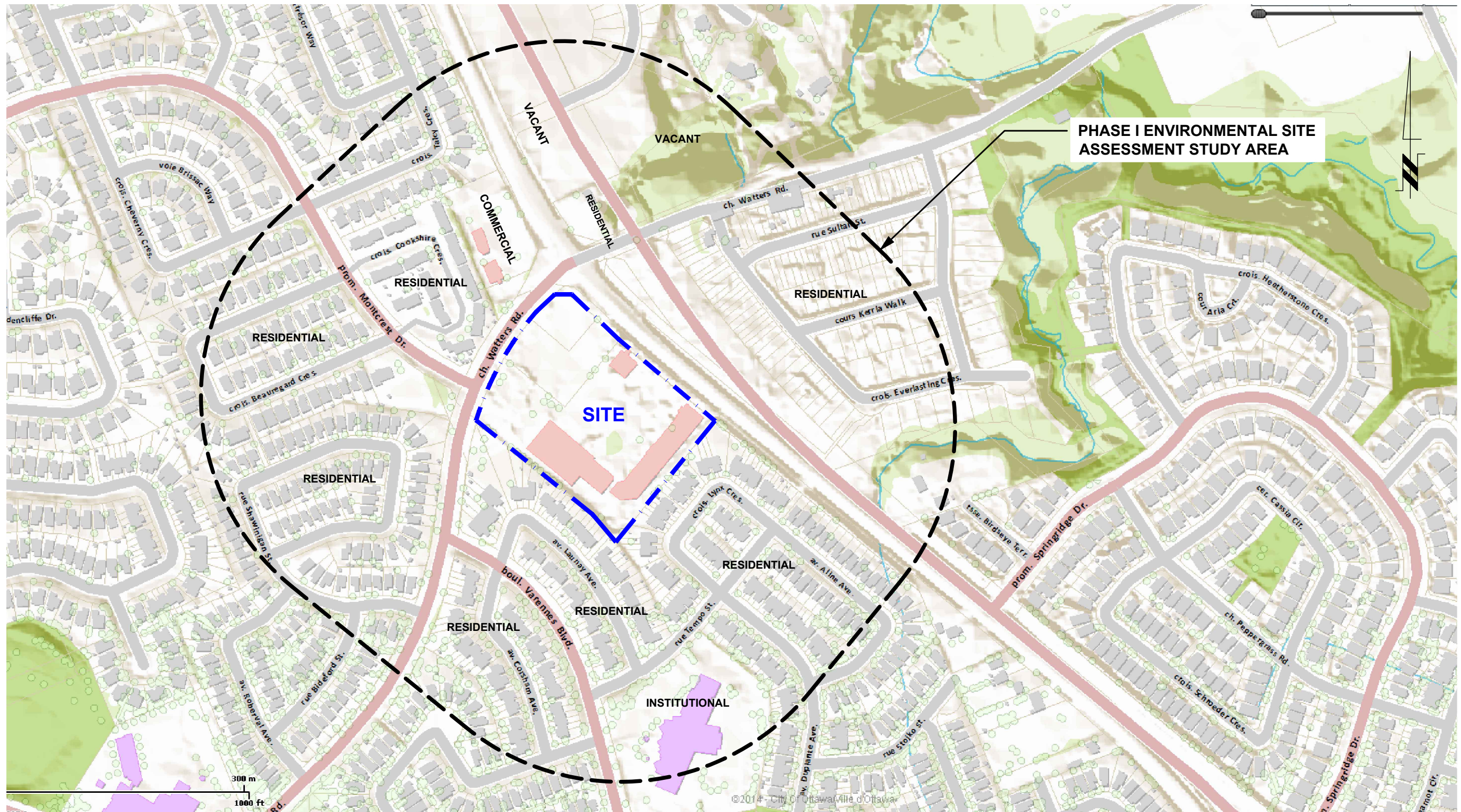
154 Colonnade Road South
Ottawa, Ontario, K2E 7J5
Tel: (613)226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

TRIM ROAD LAND HOLDINGS LIMITED
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
 900 AND 920 WATTERS ROAD
 OTTAWA, ONTARIO
SITE PLAN

Drawn by: MPG	Checked by: MSD	Date: 08/2018
Scale: 1:1500	Drawing No.: PE3336-1	
Report No.: PE3336-LET.03		

p:\autocad drawings\environmental\pe3336\pe3336_esa_rev.dwg



patersongroup
consulting engineers

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Ottawa, Ontario, K2E 7J5
Tel: (613)226-7381 Fax: (613) 226-6344

NO.	REVISIONS	DATE	INITIAL

TRIM ROAD LAND HOLDINGS LIMITED
PHASE I - ENVIRONMENTAL SITE ASSESSMENT UPDATE
900 AND 920 WATTERS ROAD

OTTAWA,
Title:

ONTARIO

SURROUNDING LAND USE PLAN

Drawn by: MPG	Checked by: MSD	Date: 08/2018
Scale: 1:4000	Drawing No.: PE3336-2	
Report No.: PE3336-LET.03		

SKETCH SHOWING
BLOCKS 89, 90, 94 AND 95
REGISTERED PLAN 4M-844
BLOCK 78
REGISTERED PLAN 4M-1336
AND PART OF LOT C
CONCESSION 9 (NEW SURVEY)
GEOGRAPHIC TOWNSHIP OF CUMBERLAND
CITY OF OTTAWA

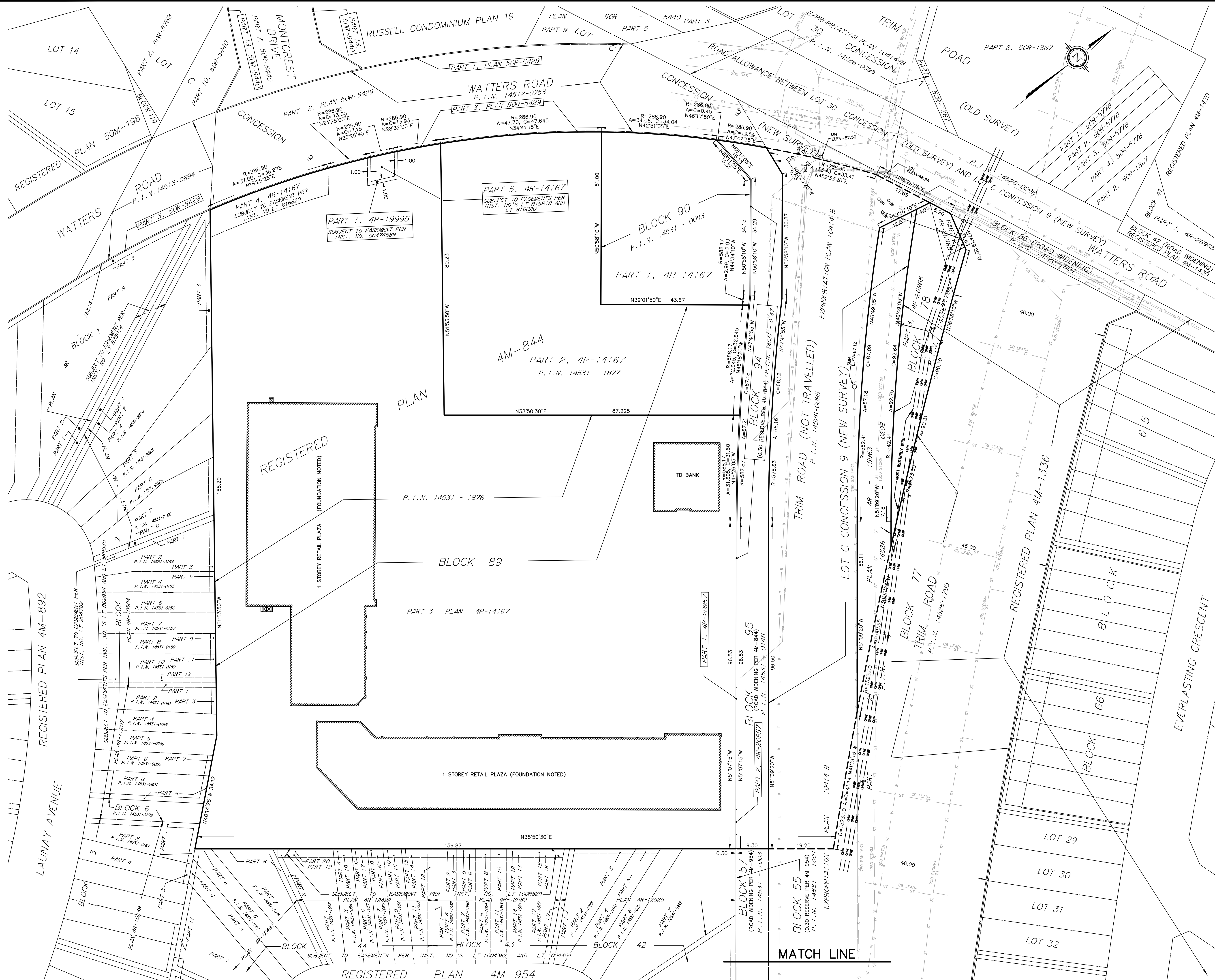
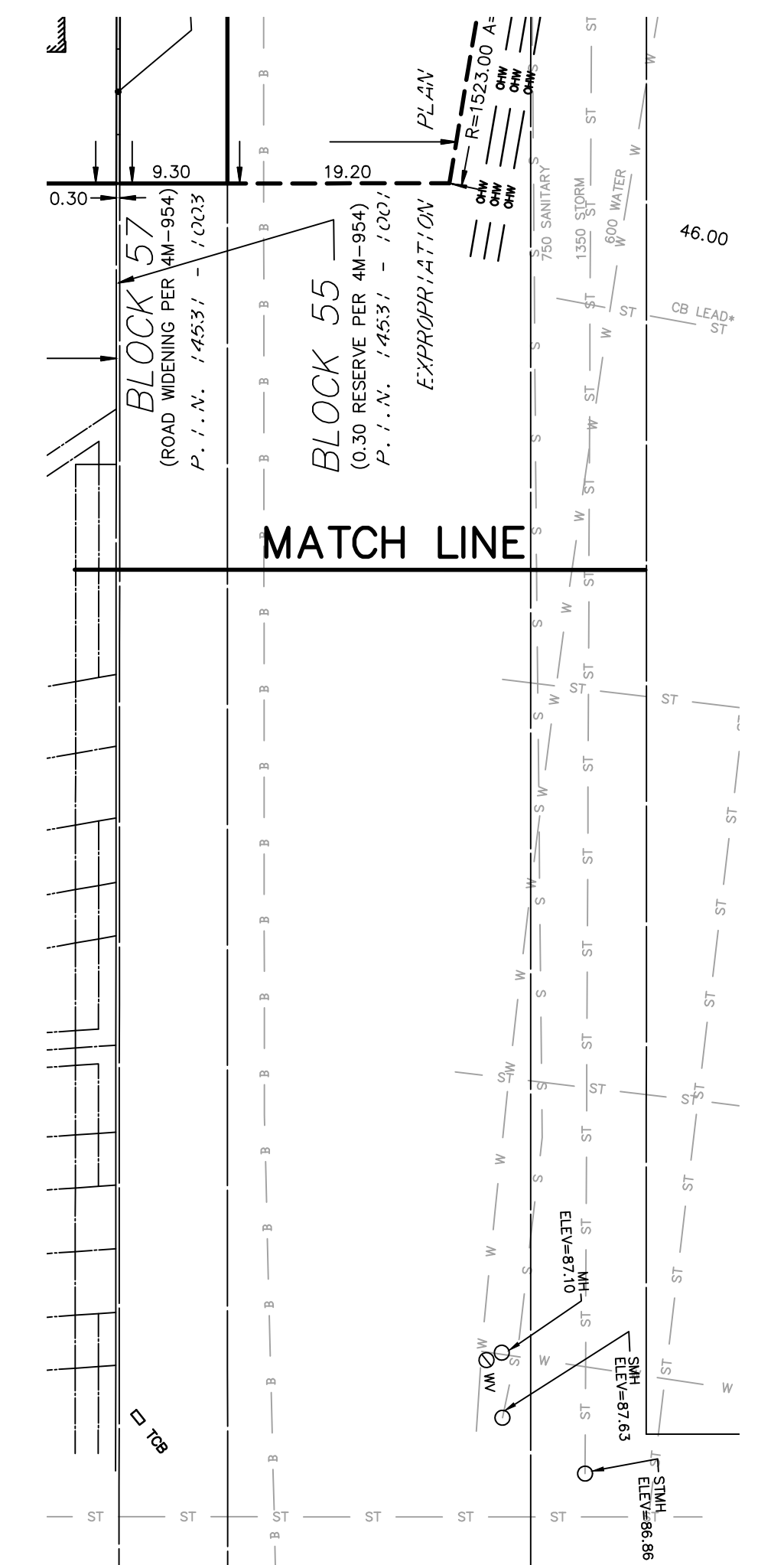


BOUNDARY INFORMATION COMPILED FROM PLANS 4M-844, 4M-1336, 4R-14167 & 4R-15983.

PIN	OWNER'S NAME
14531-0093	IMPERIAL OIL LIMITED
14531-1874	TRIM ROAD LAND HOLDINGS LTD.
14531-1877	IMPERIAL OIL LIMITED
14531-0147	REGIONAL MUNICIPALITY OF OTTAWA CARLETON (CITY OF OTTAWA)
14531-0148	REGIONAL MUNICIPALITY OF OTTAWA CARLETON (CITY OF OTTAWA)
14526-0095	REGIONAL MUNICIPALITY OF OTTAWA CARLETON (CITY OF OTTAWA)
14526-0208	CITY OF OTTAWA
14526-1796	CARDINAL CREEK DEVELOPMENTS INC.

- HP DENOTES HYDRO POLE (UNDER CONSTRUCTION)
- AW DENOTES GUY WIRE AND ANCHOR (UNDER CONSTRUCTION)
- OW DENOTES OVERHEAD WIRES
- MH DENOTES MANHOLE
- BP DENOTES BELL PEDESTAL
- TCB DENOTES TRAFFIC CONTROL BOX

1. MANHOLES, PEDESTALS AND CONTROL BOXES DERIVED FROM STANTEC SURVEY DATED OCTOBER 28, 2008, AND MAY NOT REFLECT FULL EXTENT OF UTILITIES PRESENTLY IN PLACE.
2. UTILITY INFORMATION ALONG NEW TRIM ROAD ALIGNMENT (BLOCK 77, REGISTERED PLAN 4M-1336) DERIVED FROM CONTRACT DRAWINGS PREPARED BY ROBINSON CONSULTANTS DATED SEPT. 21, 2012, CONTRACT ISD11-5147, AND DO NOT NECESSARILY REFLECT AS-BUILT CONDITIONS. PIPE DIAMETERS FROM THESE DRAWINGS ARE SHOWN WITH AN ASTERISK (*).
3. UTILITY INFORMATION ALONG OLD TRIM ROAD ALIGNMENT AND WATTERS ROAD DERIVED FROM CITY OF OTTAWA CENTRAL REGISTRY SHEETS D-35-10, D-35-16, D-35-22 AND D-35-23.
4. BUILDING LOCATIONS COMPILED FROM SURVEYORS REAL PROPERTY REPORT DATED NOV 17, 2006, AND DO NOT REPRESENT ANY CHANGES OR IMPROVEMENTS MADE ABOVE THE CONCRETE FOUNDATION WALLS.



Stantec Geomatics Ltd.
 Ontario Land Surveyors
 Chartered Land Surveyors
 1331 CLYDE AVENUE, SUITE 400, OTTAWA, ON, K2C 3G4
 PHONE (613) 722-4420 FAX (613) 722-2799
 stantec.com

W:\archive\161613129_161613129_CornerComposite_plans_analysis.dwg:161613129_Comp_Mkfs.dwg

Mandy Witteman

From: Public Information Services <publicinformationsservices@tssa.org>
Sent: August-29-18 9:13 AM
To: Mandy Witteman
Subject: RE: Records search request (PE3336)

No Records Found

Hello,

Thank you for your request for confirmation of public information.

- We confirm that there are **no fuel storage tanks records** in our database at the subject address(es).

For copies of documents, please complete the Release of Public Information form, found at <https://www.tssa.org/en/about-tssa/resources/Release-of-Records-form--Jan-2018Final.pdf> and email the completed form to publicinformationsservices@tssa.org or through mail along with the appropriate fee. TSSA's fee schedule can be found at: https://www.tssa.org/en/about-tssa/resources/Documents/Public-Information-Fee-Schedule_Jan_2018.pdf. Fees are payable with a credit card (Visa or MasterCard) or by a cheque made payable to TSSA.

Although TSSA believes the information provided pursuant to your request is accurate, please note that TSSA does not warrant this information in any way whatsoever.

Kind regards,

Connie

From: Mandy Witteman <MWitteman@Patersongroup.ca>
Sent: August 28, 2018 10:26 AM
To: Public Information Services <publicinformationsservices@tssa.org>
Subject: Records search request (PE3336)

Good Morning,

Could you please complete a search of your records for **underground/aboveground storage tanks, historical spills or other incidents/infractions** for the following addresses in Ottawa, ON:

9000 Watters Rd, 920 Watters Rd, 915 Watters Rd,

Thank you very much.

Best Regards,

Mandy Witteman

patersongroup
solution oriented engineering



MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

3166e

1 PRINT ONLY IN SPACES PROVIDED
2 CHECK CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT: **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Cumberland** 3
MUNICIPALITY: **15011** CON. BLOCK TRACT, SURVEY, ETC.: **I OF** LOT: **3030**
DATE COMPLETED: DAY **19** MONTH **01** YEAR **72**
R. 1, Cumberland, Ontario
RING: **0.37.0.70** RC: **14** ELEVATION: **10.448** BASIN CODE: **15 LAST**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
blue clay				0	120
grey	limestone			120	127

31 **0120303** 0127415

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0127	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH - FEET	MATERIAL	WALL THICKNESS INCHES
0 - 10.11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	250
10.11 - 17.16	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	
17.16 - 24.25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	

SCREEN

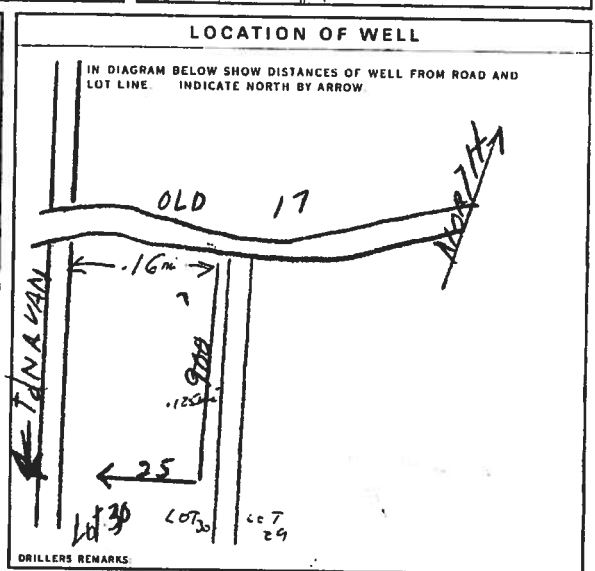
DEPTH TO TOP OF SCREEN - FEET	DIAMETER - INCHES	LENGTH - FEET
0127		

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT, LEAD PACKER, ETC.
10-13		
18-21		
26-29		

71 PUMPING TEST

WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING	RECOVERY
070 FEET	15 MINUTES: 075 FEET 30 MINUTES: 075 FEET 45 MINUTES: 075 FEET 60 MINUTES: 075 FEET	1 <input checked="" type="checkbox"/> PUMPING 2 <input type="checkbox"/> RECOVERY
RECOMMENDED PUMP TYPE: <input checked="" type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING: 085 FEET	RECOMMENDED PUMPING RATE: 0006 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY
2 OBSERVATION WELL
3 TEST HOLE
4 RECHARGE WELL

WATER USE 01

1 DOMESTIC
2 STOCK
3 IRRIGATION
4 INDUSTRIAL
5 OTHER

METHOD OF DRILLING

1 CABLE TOOL
2 ROTARY (CONVENTIONAL)
3 ROTARY (REVERSE)
4 ROTARY (AIR)
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: **J. Charbonneau, Diamond & Cable Drilling (555)**
ADDRESS: **R. R. 1, Box 194, Orleans, Ontario**

NAME OF DRILLER OR BORER: **Leo Bourgeois**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1504** DATE RECEIVED: **240473**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



WATER WELL RECORD

1511697

3166

Water management in Ontario: 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Cumberland	MUNICIPALITY 150111	CONTRACTOR OFF	LOT 029
Carleton Place		101 Front Street		DATE COMPLETED DAY 18 MO 08 YR 71
Royal St., R. R. 1, Cumberland, Ont.				
GRID NO. 037010	ELEVATION 4	BASE CODE 10270	SECTION 15	LOT 25

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
blue	clay			0	110
grey	limestone			110	121

31 10 14 18 21 25 29 33 37 41 45 49 53 57 61

32 10 14 18 21 25 29 33 37 41 45 49 53 57 61

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAMETER INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	250	0	112
17-18	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE			112-121
24-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-30

52 SCREEN RECORD

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

MATERIAL AND TYPE: _____

DEPTH TO TOP OF SCREEN: _____ FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	
14-17	
18-21	
22-25	
26-29	
30-33	

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILEY

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 02 HOURS

WATER LEVELS DURING:

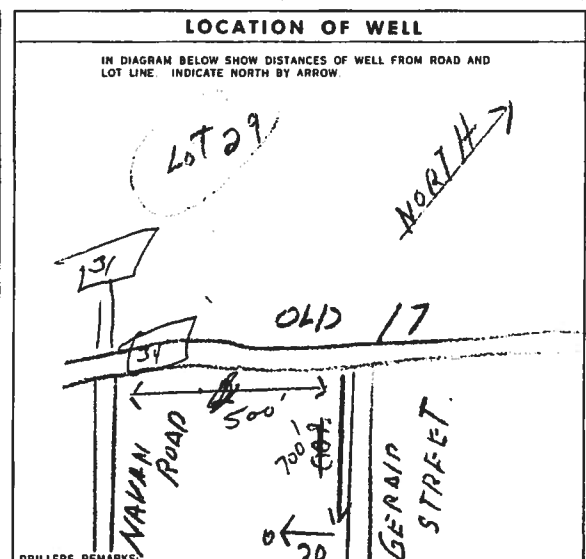
15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
055 FEET	060 FEET	060 FEET	060 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 085 FEET

RECOMMENDED PUMPING RATE: 0006 GPM

0.0220 GPM. FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

WATER SUPPLY OBSERVATION WELL TEST HOLE RECHARGE WELL

WATER USE 01

DOMESTIC STOCK IRRIGATION INDUSTRIAL OTHER

METHOD OF DRILLING

CABLE TOOL ROTARY (CONVENTIONAL) ROTARY (REVERSE) ROTARY (AIR) AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: **G. Charbonneau, Diamond & Cable Drilling, 1504**

ADDRESS: **R.R. 2, Box 194, Orleans, Ont.**

NAME OF DRILLER OR BORER: **Leo Bourgeois**

SIGNATURE OF CONTRACTOR: *Gerain Charbonneau*

SUBMISSION DATE: DAY 18 MO 8 YR 71

OFFICE USE ONLY

DATA SOURCE: 1

CONTRACTOR: 1504

DATE RECEIVED: 070472

DATE OF INSPECTION: _____

INSPECTOR: K

REMARKS: _____

P: K

WI



The Ontario Water Resources Commission Act WATER WELL RECORD

1512336-3166

Water management in Ontario
1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

1512336
5601487

MUNICIPALITY: 151011 CUN: 09

COUNTY OR DISTRICT: Carleton Place TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Cumberland

OWNER (SURNAME FIRST): [REDACTED] ADDRESS: R. 1, Cumberland, Ont.

DATE COMPLETED: DAY 22 MO 09 YR 72

INC: 36970 ELEVATION: 0275 BASIN CODE: 15

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	20
blue	clay			20	85
grey	gravel			85	90
grey	rock			90	94

31 quadast | bagstast | laagdaal | laagdaal

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	250	FROM 0 TO 0090
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		20-23 0094
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
FROM TO	(CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0007 GPM

DURATION OF PUMPING: 15-16 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING
19-21	22-24	15 MINUTES 25-28
065 FEET	070 FEET	30 MINUTES 28-31
		45 MINUTES 32-34
		60 MINUTES 35-37

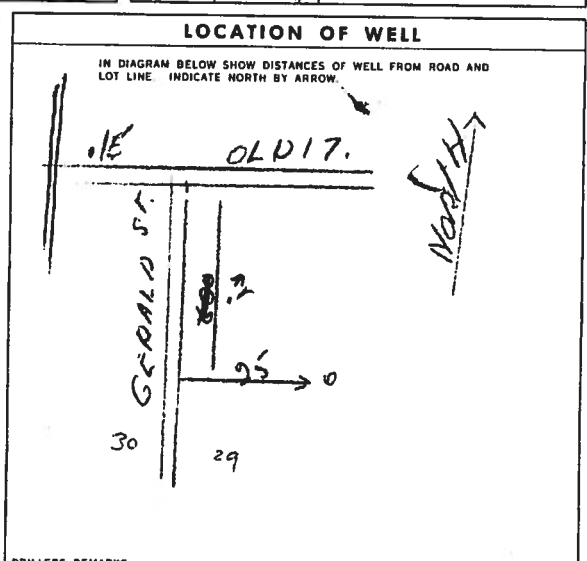
IF FLOWING, GIVE RATE: 38-41 PUMP INTAKE SET AT 4 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 085 FEET

RECOMMENDED PUMPING RATE: 0007 GPM

30-33 021.4 GPM / FT. SPECIFIC CAPACITY



FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
 OTHER 9 NOT USED

METHOD OF DRILLING

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: G. Charbonneau, Diamond & Cable Drilling LICENCE NUMBER: 1504

ADDRESS: R. 1, 2, Box 194, Orleans, Ont.

NAME OF DRILLER OR BORER: Léo Bourgeois LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY 22 MO 9 YR 72

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1504 DATE RECEIVED: 101172

DATE OF INSPECTION: _____ INSPECTOR: [Signature]

REMARKS: _____

P [Signature]
W I



Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

319 6E ✓

1 PRINT ONLY IN SPACES PROVIDED
2 CHECK CORRECT BOX WHERE APPLICABLE

(11)

1518333

MUNICIPALITY 15011

COUNTY 06N

109

COUNTY OR DISTRICT: **Ottawa Valley** TOWNSHIP/BOROUGH/CITY/TOWN/VILLAGE: **Cumberland** LOCATION BLOCK/TRACT/SURVEY, ETC.: **90N 9 21 IX** DATE COMPLETED: **28 04 83**

ADDRESS: **Barker Blvd. Ottawa, Ont.**

ELEVATION: **361.99** BATHYMETRIC: **028.5** BASIN CODE: **14 2.6**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
yellow	clay			0	12
blue	clay			12	185
green	gravel			105	110
grey	limestone			110	114

31 **0012505** **0105105** **0110411** **0114115**

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0-114	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
18-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
23-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH (FEET)	MATERIAL	WALL THICKNESS (INCHES)	DEPTH (FEET)
0-112	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0-112
12-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

SIZE OF OPENING (SLOT NO.)	DIAMETER (INCHES)	LENGTH (FEET)

61 PLUGGING & SEALING RECORD

DEPTH SET AT (FEET)	MATERIAL AND TYPE	CEMENT GROUP (LEAD PACKER, ETC.)
10-13		
18-21		
24-28		
30-33		

71 PUMPING TEST

PUMPING TEST METHOD: PUMP 2 BAILEY

PUMPING RATE: **0080** GPM

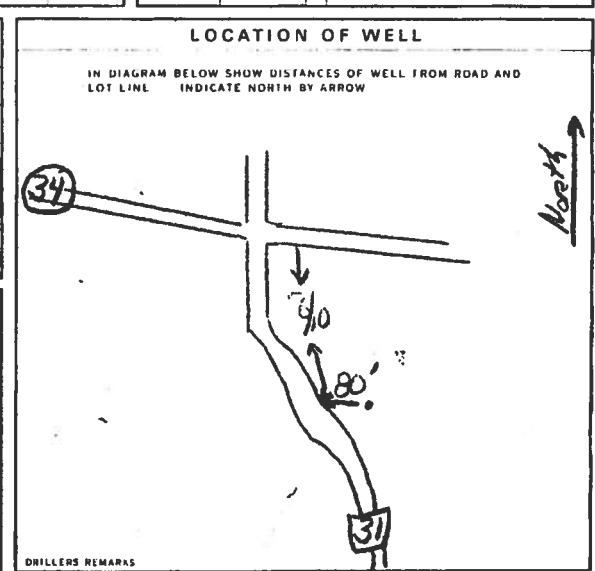
DURATION OF PUMPING: **01** HOURS **00** MIN.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	WATER LEVELS DURING	WATER LEVELS DURING	WATER LEVELS DURING
15-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
018 FEET	030 FEET	018 FEET	018 FEET	018 FEET	018 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: **030** FEET

RECOMMENDED PUMPING RATE: **0030** GPM



FINAL STATUS OF WELL 1 WATER SUPPLY 5 ABANDONED INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE 1 DOMESTIC 3 COMMERCIAL
2 STOCK 4 MUNICIPAL
3 IRRIGATION 5 PUBLIC SUPPLY
4 INDUSTRIAL 6 COOLING OR AIR CONDITIONING
5 OTHER 7 NOT USED

METHOD OF DRILLING 1 CABLE TOOL 5 BORING
2 ROTARY (CONVENTIONAL) 6 DIAMOND
3 ROTARY (REVERSE) 7 JETTING
4 ROTARY (AIR) 8 DRIVING
5 AIR PERCUSSION

CONTRACTOR NAME OF WELL CONTRACTOR: **G. Charbonneau+Son Drilling Ltd 1504** LICENCE NUMBER: **1504**

ADDRESS: **R.R. 2, Box 194, Orleans, Ont, K1G 1T1**

NAME OF DRILLER OR BORER: **L. Bourgeois** LICENCE NUMBER: **1504**

SUBMISSION DATE: **28 04 83**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1504** DATE RECEIVED: **05 08 83**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



Ministry
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The Ontario Water Resources Act

WATER WELL RECORD

3166e

1 PRINT ONLY IN SPACES PROVIDED
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11 1518981

MUNICIPALITY 150111 Part 2 Plan 504
CUM BLOCK TRAIL SURVEY ETC
1 O.S. O.F.I. Pt. 29

COUNTY OR DISTRICT: Ottawa-Carleton
TOWNSHIP BOROUGH CITY TOWN VILLAGE: Cumberland
DATE COMPLETED: DAY 28 MO 05 YR 84
ADDRESS: [Redacted] Gerald St., R.R.1, Cumberland, Ont.

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	18
yellow	clay			18	23
blue	clay			23	122
grey	gravel			122	126
grey	limestone			126	140

31 0018705 0023805 0123105 0126211 0140211
32

71 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
0140	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
18-10	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
23-26	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
06	2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0-128
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	128	128-140

SCREEN

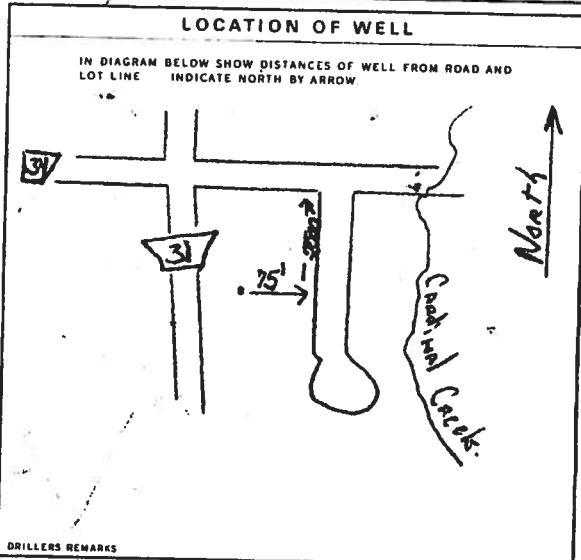
SIZE OF OPENING (SLOT NO.)	DIAMETER	LENGTH

PLUGGING & SEALING RECORD

DEPTH SET AT FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BALLER	0080 GPM	01 15-18 HOURS 00 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
071 FEET	130 FEET	15 MINUTES: 071 FEET 30 MINUTES: 071 FEET 45 MINUTES: 071 FEET 60 MINUTES: 071 FEET
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	120 GPM	FEET
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	120 FEET	0080 GPM



FINAL STATUS OF WELL

1 WATER SUPPLY, 2 OBSERVATION WELL, 3 TEST HOLE, 4 RECHARGE WELL, 5 ABANDONED - INSUFFICIENT SUPPLY, 6 ABANDONED - POOR QUALITY, 7 UNFINISHED

WATER USE

1 DOMESTIC, 2 STOCK, 3 IRRIGATION, 4 INDUSTRIAL, 5 OTHER, 6 COMMERCIAL, 7 MUNICIPAL, 8 PUBLIC SUPPLY, 9 COOLING OR AIR CONDITIONING, 10 NOT USED

METHOD OF DRILLING

1 CABLE TOOL, 2 ROTARY (CONVENTIONAL), 3 ROTARY (REVERSE), 4 ROTARY (AIR), 5 AIR PERCUSSION, 6 BORING, 7 DIAMOND, 8 JETTING, 9 DRIVING

CONTRACTOR: G. CHARBONNEAU+SON DRILLING LTD 1504
ADDRESS: R.R. 2, Box 194, Orleans, Ont. K1C 1T1
NAME OF DRILLER OR BOBER: Raymond Charbonneau
SIGNATURE OF CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 28 MO 05 YR 84

OFFICE USE ONLY: DATA SOURCE 1 CONTRACTOR 1504 DATE 23 07 84
DATE OF INSPECTION: [Blank] INSPECTOR: [Blank]
REMARKS: [Blank]

Well ID

Well ID Number: 1519192

Well Audit Number:

Well Tag Number:

*This table contains information from the original well record and any subsequent updates.***Well Location****Address of Well Location**

Township	CUMBERLAND TOWNSHIP
Lot	029
Concession	OF 01
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 463129.80 Northing: 5037021.00

Municipal Plan and Sublot Number

Other

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
RED	CLAY			0 ft	17 ft
BLUE	CLAY			17 ft	137 ft
GREY	HPAN	FCRD		137 ft	140 ft
GREY	LMSN			140 ft	155 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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Method of Construction & Well Use

Method of Construction	Well Use
Rotary (Air)	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6 inch	STEEL		141 ft
6 inch	OPEN HOLE		155 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1504

Results of Well Yield Testing

After test of well yield, water was CLOUDY

If pumping discontinued, give reason

Pump intake set at

Pumping Rate 100 GPM

Duration of Pumping 1 h:0 m

Final water level 150 ft

If flowing give rate

Recommended pump depth 130 ft

Recommended pump rate 100 GPM

Well Production PUMP

Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	72 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	72 ft
20		20	
25		25	
30		30	72 ft
40		40	
45		45	72 ft
50		50	
60		60	72 ft

Water Details

Water Found at Depth	Kind
150 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter
------------	----------	----------

Audit Number:

Date Well Completed: July 20, 1984

Date Well Record Received by MOE: September 14, 1984



Ministry of the Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

3166e

1 PRINT ONLY IN SPACES PROVIDED
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11

1518983

MUNICIPALITY

15011 PF

Plan 5084149

COUNTY OR DISTRICT: **Ottawa-Carleton** TOWNSHIP BOROUGH CITY, TOWN, VILLAGE: **Cumberland** CON. BLOCK TRACT SURVEY ETC.: **1 O.S.** DATE COMPLETED: **25** NO. **05** TR. **84**

ald St., Cumberland, Ont. R.R.1

36.789 ELEVATION: **0.250** MAIN CODE: **4** **2.6**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	16
yellow				16	24
blue				24	130
grey	gravel		fine gravel	130	134
grey	limestone			134	150

31 0016705 0024505 0130305 0134229 0150151

32

41 WATER RECORD

WATER FOUND AT - FEET: **0145**

KIND OF WATER:

1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

10-15: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

15-18: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

18-23: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

23-25: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

25-27: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

27-30: 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/2	STEEL		0-136
6 1/2	GALVANIZED		136-150
6 1/2	STEEL		150-150

60 SCREEN

SIZE OF OPENING (SLOT NO.):

DIAMETER: 30.30 INCHES

LENGTH: 30.00 FEET

MATERIAL AND TYPE:

DEPTH TO TOP OF SCREEN: 41.00 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET:

FROM: 10 TO: 10

MATERIAL AND TYPE:

10-11: 10-12

10-21: 22-25

20-23: 30-33

71 PUMPING TEST METHOD: **air**

PUMPING RATE: **0080** GPM

DURATION OF PUMPING: **00** HOURS **00** MINS

1 PUMP 2 BAILER

WATER LEVELS DURING:

15 MINUTES: **061** FEET

30 MINUTES: **061** FEET

45 MINUTES: **061** FEET

60 MINUTES: **061** FEET

IF FLOWING: **061** FEET

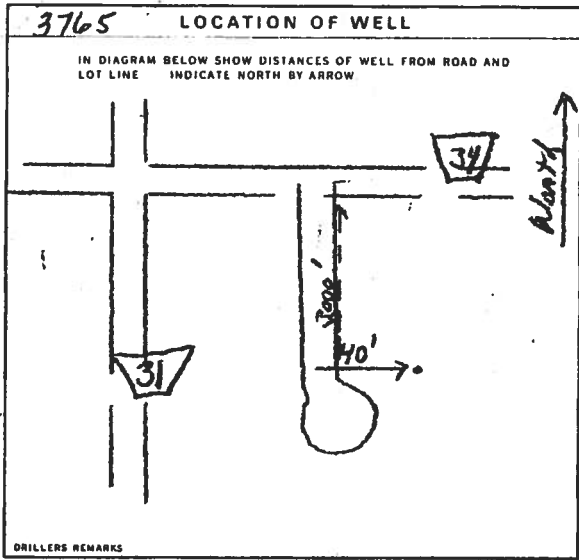
PUMP INTAKE SET AT: **120** FEET

WATER AT END OF TEST: **0080** GPM

RECOMMENDED PUMP TYPE: **120** GPM

RECOMMENDED PUMP SETTING: **120** FEET

RECOMMENDED PUMPING RATE: **0080** GPM



FINAL STATUS OF WELL: **1**

WATER USE: **01**

METHOD OF DRILLING: **4**

1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL

5 ABANDONED - INSUFFICIENT SUPPLY 6 ABANDONED - POOR QUALITY 7 UNFINISHED

1 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL 5 OTHER

6 COMMERCIAL 7 MUNICIPAL 8 PUBLIC SUPPLY 9 COOLING OR AIR CONDITIONING 10 NOT USED

1 CABLE TOOL 2 ROTARY (CONVENTIONAL) 3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION

6 BORING 7 DIAMOND 8 JETTING 9 DRIVING

CONTRACTOR: **J. Charbonneau & Son Drilling Ltd** LICENCE NUMBER: **1504**

ADDRESS: **R.R.2, Box 194, Orleans, Ont. K1C 1T1**

NAME OF DRILLER OR BORER: **Raymond Charbonneau**

SIGNATURE OF CONTRACTOR: *[Signature]*

SUBMISSION DATE: **25** NO. **05** TR. **84**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1504** DATE RECEIVED: **23 07 84**

DATE OF INSPECTION: _____ INSPECTOR: _____

REMARKS: _____



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Ontario

The Ontario Water Resources Act

3166e

WATER WELL RECORD

1 PRINT ONLY IN SPACES PROVIDED
2 CHECK CORRECT BOX WHERE APPLICABLE

11 1518790 15911 PF 04

COUNTY OR DISTRICT: **Ottawa-Carleton** TOWNSHIP BOROUGH CITY, TOWN VILLAGE: **Cumberland** COM. BLOCK TRAIL SURVEY ETC: **1** DATE COMPLETED: **05-12-83**

LOC. NO.: **089**

ADDRESS: **rus Gérald, Cumberland, Ont.**

GRID COORDINATES: **56,699** (Easting) **19280** (Northing) **26** (Zone)

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	17
blue	clay			17	132
grey	gravel		fine gravel	132	136
grey	limestone			136	140

31 0017705 0132805 0124129 0140415

32

41 WATER RECORD

WATER FOUND AT FEET: **0140**

KIND OF WATER:

10-15: FRESH SULPHUR SALTY MINERAL

16-18: FRESH SULPHUR SALTY MINERAL

20-23: FRESH SULPHUR SALTY MINERAL

25-28: FRESH SULPHUR SALTY MINERAL

30-33: FRESH SULPHUR SALTY MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH - FEET	MATERIAL	WALL THICKNESS INCHES	FROM	TO
188	STEEL	1	+1	0138
138	STEEL	1		0140

SCREEN

SIZE OF OPENING (SLOT NO.): 30-33 DIAMETER: 34-38 LENGTH: 39-40

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____ FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-13		
18-21		
26-28		

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAYLER

PUMPING RATE: **0040** GPM DURATION OF PUMPING: **01** HOURS **00** MINS

STATIC LEVEL: **061** FEET

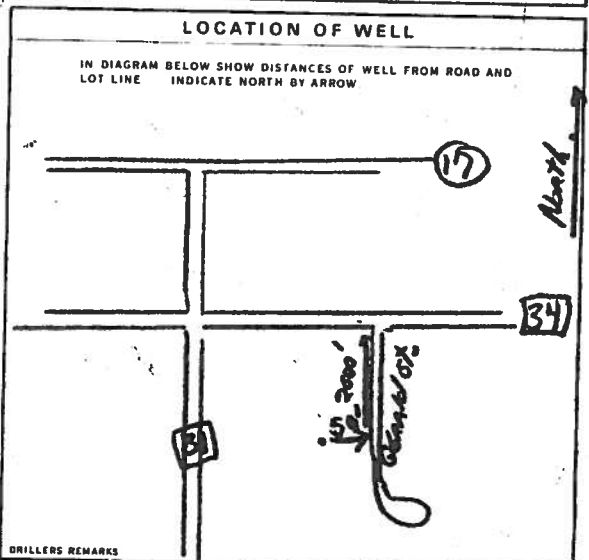
WATER LEVELS DURING:

15 MINUTES: **100** FEET 30 MINUTES: **061** FEET 45 MINUTES: **061** FEET 60 MINUTES: **061** FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: **100** FEET

RECOMMENDED PUMPING RATE: **0035** GPM



84 FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

85-88 WATER USE

1 DOMESTIC 3 STOCK 5 COMMERCIAL
2 IRRIGATION 6 MUNICIPAL 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
5 OTHER 9 NOT USED

87 METHOD OF DRILLING

1 CABLE TOOL 6 SPRING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR: **G. Charbonneau+Son Drilling Ltd 1504** LICENCE NUMBER: _____

ADDRESS: **R.R. 2, Box 194, Orleans, Ont. K1C 1G4**

NAME OF DRILLER OR BORER: **Raymond Charbonneau** LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: **83** DAY **12** MO **05**

OFFICE USE ONLY

DATE OF INSPECTION: **1** CONTRACTOR: **1504** DATE RECEIVED: **22 02 84**

REMARKS: _____



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1 PRINT ONLY IN SPACES PROVIDED
2 CHECK CORRECT BOX WHERE APPLICABLE

11 1518982 13011 BF Pt 201

COUNTY OR DISTRICT: **Ottawa-Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Cumberland** COM. BLDG. TRACT SURVEY E.L.: **10.S. O.F.1 Plan 50R2418**

DATE COMPLETED: DAY **15** MO **06** YR **84**

ADDRESS: **Le Gérald, E.R.1, Cumberland, Ont.**

PHONE: **366 9 9** ELEVATION: **0 250** MAIN CODE: **26**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	10
blue	clay			10	114
grey	limestone			114	140

31 **PILLOT** 32 **ANASOS** 33 **DIAGNOSIS**

41 **WATER RECORD**

WATER FOUND AT FEET: **0135**

KIND OF WATER:

1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

19-20 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

20-23 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

23-25 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

25-28 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

28-30 1 FRESH 2 SALTY 3 SULPHUR 4 MINERAL

51 **CASING & OPEN HOLE RECORD**

DEPTH FEET	INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES
0-12	188	STEEL	
12-17		CONCRETE	
17-20		STEEL	
20-23		CONCRETE	
23-25		STEEL	
25-28		CONCRETE	
28-30		STEEL	
30-33		CONCRETE	

61 **PLUGGING & SEALING RECORD**

DEPTH SET AT - FEET	MATERIAL AND TYPE	LEAD Packer ETC.
10-13		
13-17		
17-20		
20-23		
23-25		
25-28		
28-30		

71 **PUMPING TEST**

PUMPING TEST METHOD: **air**

1 PUMP 2 BATTERY

PUMPING RATE: **0150** GPM

DURATION OF PUMPING: **01** HOURS **00** MINS

STATIC LEVEL: **050** FEET

WATER LEVELS DURING:

15 MINUTES: **140** FEET

30 MINUTES: **050** FEET

45 MINUTES: **050** FEET

60 MINUTES: **050** FEET

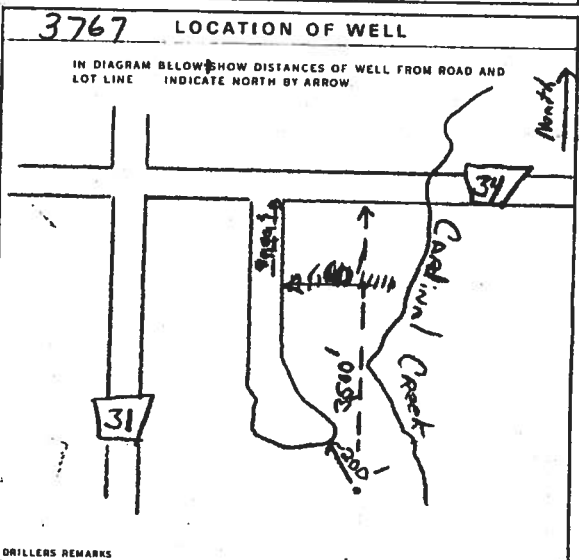
75 MINUTES: **050** FEET

90 MINUTES: **050** FEET

RECOMMENDED PUMP TYPE: **DEEP**

RECOMMENDED PUMP SETTING: **120** FEET

RECOMMENDED PUMPING RATE: **0150** GPM



FINAL STATUS OF WELL: **1**

WATER USE: **01**

METHOD OF DRILLING: **4**

CONTRACTOR: **G. Charbonneau + Son Drilling Ltd 1504**

ADDRESS: **R.R. 2, Box 194, Orléans, Ont. K1G 1T1**

NAME OF DRILLER OR BORER: **Raymond Charbonneau**

SIGNATURE: *[Signature]*

SUBMISSION DATE: DAY **15** MO **06** YR **84**

OFFICE USE ONLY

DATE OF INSPECTION: **1504**

INSPECTOR: **230784**

REMARKS:

UTM ¹⁶¹¹ 18 2 4 1 2 6 4 1 1 E
 5 1 5 0 3 6 4 6 0 N

51 G/6 e



1512781

56 No 538

The Ontario Water Resources Commission Act

Elev. 5 R 0 2 9 1 1

WATER WELL RECORD

Basin 2 5 1 1 Russell
 County or District

Township, Village, Town or City Cumberland

Con. 9 Lot C

Date completed 6 September 1966.
 (day month year)

Address R.R. 1, Navan, Ont.

Casing and Screen Record

Inside diameter of casing 2"
 Total length of casing 70'
 Type of screen
 Length of screen
 Depth to top of screen
 Diameter of finished hole 2"

Pumping Test

Static level 35'
 Test-pumping rate 10 G.P.M.
 Pumping level 50'
 Duration of test pumping 2hrs.
 Water clear or cloudy at end of test clear
 Recommended pumping rate 6 G.P.M.
 with pump setting of 60 feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
blue clay	0	58		
grey limestone	58	81	81	fresh

For what purpose(s) is the water to be used? domestic

Is well on upland, in valley, or on hillside? valley

Drilling or Boring Firm
 G. Charbonneau, Diamond & Cable Drilling,
 Address R.R. 1, Box 194, Orleans, Ont.

Licence Number 2156

Name of Driller or Borer Roland Wolfe

Address Clarence Creek, Ont.

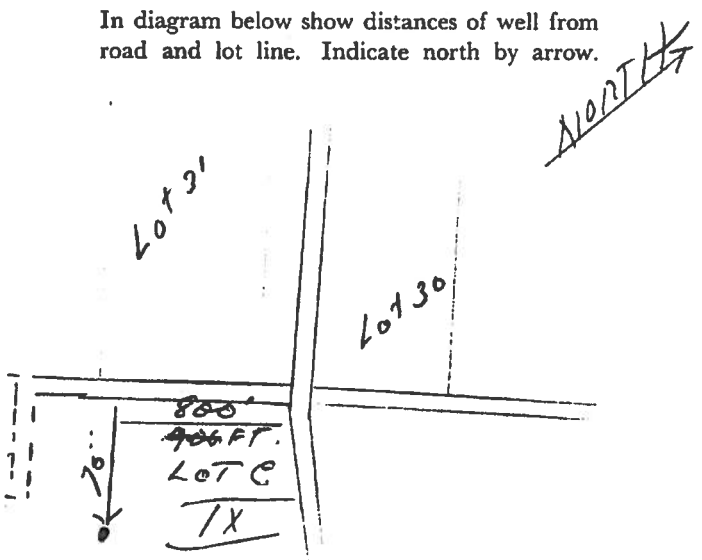
Date 6 September 1966.

Gerald Charbonneau
 (Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.





Ontario

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act WATER WELL RECORD

31/1/75

1 PRINT ONLY IN SPACES PROVIDED
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11

1515054

MUNICIPALITY 15.0.11

CON. BLOCK 12.0.11

LOT 109

COUNTY OR DISTRICT Carleton	TOWNSHIP BOROUGH CITY TOWN V. LAKE Cumberland	CON. BLOCK TRACT SURVEY ETC 9	LOT C
R. # 1 Cumberland, Ontario			DATE COMPLETED DAY 09 MO 10 YR 75
ELEVATION 236.654		BASIN FOOT 14	DATE 10.28.75

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET	
				FROM	TO
grey	clay			0	28
grey	limestone			28	38
	gyp			38	44
grey	limestone			44	173

31 0002205 0038215 0044126 0173215

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0165	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
18-20	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WT. THICKNESS IN HRS	DEPTH FEET
6"	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	188	0-19.10
6"	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		19.10-20.25
6"	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input checked="" type="checkbox"/> OPEN HOLE		20.25-27.30

SCREEN

SIZE # OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-12		
18-21		
26-29		

71 PUMPING TEST METHOD

PUMP BAILER

PUMPING RATE: 0010 GPM

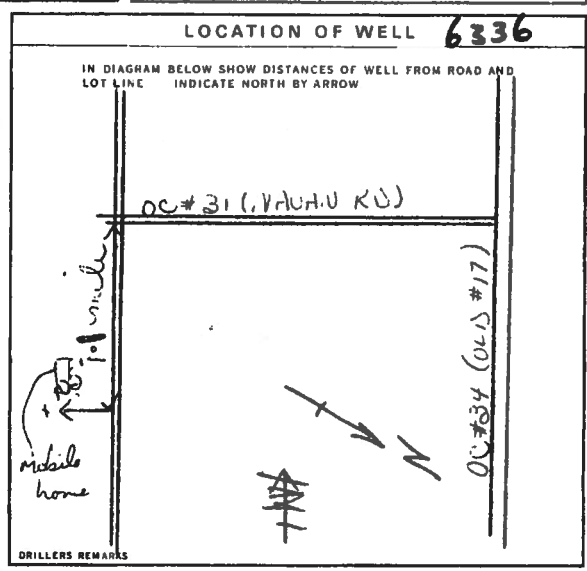
DURATION OF PUMPING: 01 HOURS 00 MIN

STATIC LEVEL	WATER LEVELS DURING
040 FEET	15 MINUTES: 080 FEET 30 MINUTES: 080 FEET 45 MINUTES: 080 FEET 60 MINUTES: 080 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 100 FEET

RECOMMENDED PUMPING RATE: 0005 GPM



FINAL STATUS OF WELL: 1

WATER USE: 01

METHOD OF DRILLING: 5

CONTRACTOR

NAME OF WELL CONTRACTOR: **Capital Water Supply Ltd.**

ADDRESS: **Box 490 Stittsville, Ontario**

NAME OF DRILLER OR BORER: **M. Hamilton**

SIGNATURE OF CONTRACTOR: *M. Hamilton*

LICENCE NUMBER: **1558**

DATE OF INSPECTION: **14/1/75**

INSPECTION: **P/R. D. J.**

DATE RECEIVED: **161275**

OFFICE USE ONLY

CEP: 58

WI

E 116 316/62
UTM 1182 462698 E
19R 5036409 N
Elev. 19R 02922
Basin 25



1512780

56 No 537
DEPARTMENT OF MINES

The Well Drillers Act
Department of Mines, Province of Ontario

Water Well Record

BW

County or Territorial District Russell Township, Village, Town or City Cumferland
Con. 9 Lot C Street and Number (if in Village, Town or City).....
Owner..... Address Cumferland
Date Completed 20 Oct 1954 Cost of Well (excluding pump).....
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) <u>4</u>	Date.....
Length(s) of casing(s) <u>159</u>	Static level <u>23</u>
Type of screen.....	Pumping level <u>42</u>
Length of screen.....	Pumping rate <u>150 P.H.</u>
Distance from top of screen to ground level.....	Duration of test <u>2 H.R.</u>
Is well a gravel-wall type?.....	Distance from cylinder or bowls to ground level.....

Water Record

Kind (fresh or mineral) <u>fresh</u>	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.) <u>hard</u>	<u>23</u>	<u>fresh</u>	<u>136</u>
Appearance (clear, cloudy, coloured) <u>clear</u>			
For what purpose(s) is the water to be used? <u>farm</u>			
How far is well from possible source of contamination? <u>30</u>			
What is the source of contamination? <u>cow manure</u>			
Enclose a copy of any mineral analysis that has been made of water.....			

Well Log

Overburden and Bedrock Record	From	To
	0 ft.	...ft.
<u>Blue clay</u>	<u>0</u>	<u>139</u>
<u>well completed in coarse gravel</u>		

Location of Well

BW

In diagram below show distances of well from road and lot line. Indicate north by arrow.

see OVER

Situation: Is well on upland, in valley, or on hillside? upland.....
Drilling Firm.....
Address.....
Name of Driller..... Address Vara, P.O.
Date May 14/55..... Licence Number 365
M. G. Christy
Signature of Licensee



ma

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act WATER WELL RECORD

3.1 ~~SW~~ WE
916 Ae

1 PRINT ONLY IN SPACES PROVIDED
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11 155859 MUNICIPAL 15011 OF 1030

COUNTY OR DISTRICT: **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Cumberland** CON. BLOCK, TRACT, SURVEY ETC: **1st Con. from Ottawa** LOT: **1030**

[REDACTED] R.R. 1, Navan, Ont. DATE COMPLETED: **07 MO 10 YR 76**

WELL NO: **036630** # ELEVATION: **102.75** # 4 26

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
yellow	clay			0	20
blue	clay			20	137
grey	limestone			137	140

31 0020505 0137305 0142119

32

41 WATER RECORD

WATER FOUND AT FEET: **0140**

DEPTH (FEET)	KIND OF WATER
10-12	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

DEPTH (FEET)	MATERIAL	WELL NO.	DEPTH (FEET)
0-137	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0137
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		

SCREEN

SIZE OF OPENING (SLIT NO. 1): 31-33 DIAMETER: 24 28 LENGTH: 39 40

MATERIAL AND TYPE: DEPTH FROM TOP OF WELL: 41 44 50

61 PLUGGING & SEALING RECORD

DEPTH SET AT (FEET)	MATERIAL AND TYPE	ELEMENT NO. / LEAD PACKER ETC.
10-12	18 17	
18-21	22-25	
26 29	30 33 40	

71 PUMPING TEST

PUMPING TEST NO: **0000** PUMPING RATE: **0060** GPM

1 PUMP 2 HAULER

STATIC LEVEL: **035** FEET

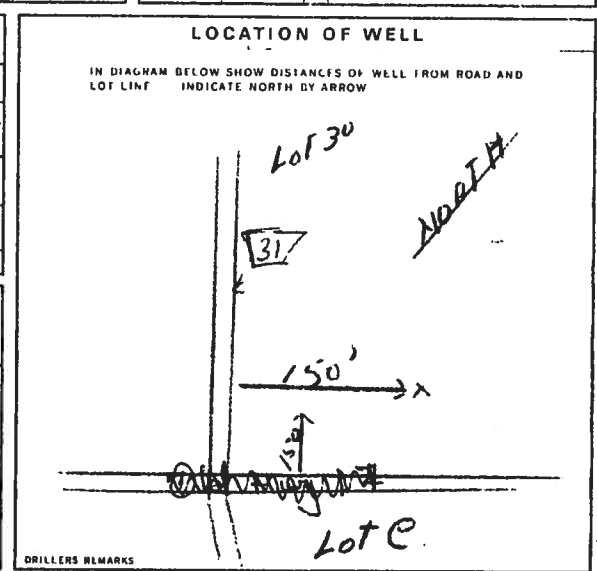
WATER LEVELS DURING PUMPING:

TIME	WATER LEVEL (FEET)
19-21	065
22-24	040
26-28	035
32-34	035
35-37	035

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: **065** FEET

RECOMMENDED PUMPING RATE: **0020** GPM



FINAL STATUS OF WELL

1 WATER SUPPLY 2 OBSERVATION WELL 3 TEST HOLE 4 RECHARGE WELL

5 ABANDONED - INSUFFICIENT SUPPLY 6 ABANDONED - POOR QUALITY 7 UNFINISHED

WATER USE

1 DOMESTIC 2 STOCK 3 IRRIGATION 4 INDUSTRIAL 5 OTHER

6 COMMERCIAL 7 MUNICIPAL 8 PUBLIC SUPPLY 9 COOLING OR AIR CONDITIONING 10 HOT USED

METHOD OF DRILLING

1 CABLE TOOL 2 ROTARY (CONVENTIONAL) 3 ROTARY (REVERSE) 4 ROTARY (AIR) 5 AIR PERCUSSION

6 BORING 7 DIAMOND 8 JETTING 9 DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: **F. Charbonneau + Son Drilling Ltd** LICENCE NUMBER: **1504**

ADDRESS: **R.R. 2, Box 194, Orleans, Ont. K1C 1M7**

NAME OF DRILLER OR BORER: **L. Bourgeois** LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: **7 Oct. 76**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1504** DATE RECEIVED: **180377**

DATE OF INSPECTION: **July 13/77** INSPECTOR: **NS**

REMARKS: **P 85**

WI

Well ID

Well ID Number: 7211754
 Well Audit Number: Z159832
 Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	CUMBERLAND TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18 Easting: 462937.00 Northing: 5036872.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

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

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
------------	----------	--	---------------

Method of Construction & Well Use

Method of Construction	Well Use
------------------------	----------

Status of Well**Construction Record - Casing**

Inside Diameter	Open Hole or material	Depth From	Depth To
-----------------	-----------------------	------------	----------

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
------------------	----------	------------	----------

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7260

Results of Well Yield Testing

After test of well yield, water was _____
 If pumping discontinued, give reason _____
 Pump intake set at _____
 Pumping Rate _____
 Duration of Pumping _____
 Final water level _____
 If flowing give rate _____
 Recommended pump depth _____
 Recommended pump rate _____
 Well Production _____
 Disinfected? _____

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z159832

Date Well Completed: June 14, 2013

Date Well Record Received by MOE: November 26, 2013



Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act
WATER WELL RECORD

1 PRINT ONLY IN SPACES PROVIDED
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11

1515222

MUNICIPALITY 15011

CON. Cdn

31 1/2

09

COUNTY OR DISTRICT: **CARLETON** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **Cumberland** CON. BLOCK, TRACT, SURVEY ETC.: **9** LOT: **117**

DATE COMPLETED: **48 11**
DATE: **25** MO: **11** YR: **75**

R.R. 1, Navan, Ont.
RING: **036500** RC: **4** ELEVATION: **0292** RC: **4** BATH CODE: **26**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
gray	clay			0	48
gray	boulders			48	52
gray	gravel			52	57
gray	slate			57	66

31 0040205 0052113 0057111 0066219

32

41 WATER RECORD

WATER FOUND AT - FEET: **0066**

KIND OF WATER:

10-15	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
15-20	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
20-25	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
25-30	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL
30-35	<input type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6 1/2	STEEL	188	0	0059
6	GALVANIZED			
6	CONCRETE			
6	OPEN HOLE			

SCREEN

SIZES OF OPENING ISLOT NO. 1: **31-33** DIAMETER: **34-38** LENGTH: **59-60**

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: _____ FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD: PUMP BAILER

PUMPING RATE: **0030** GPM **01** HOURS **00** MIN

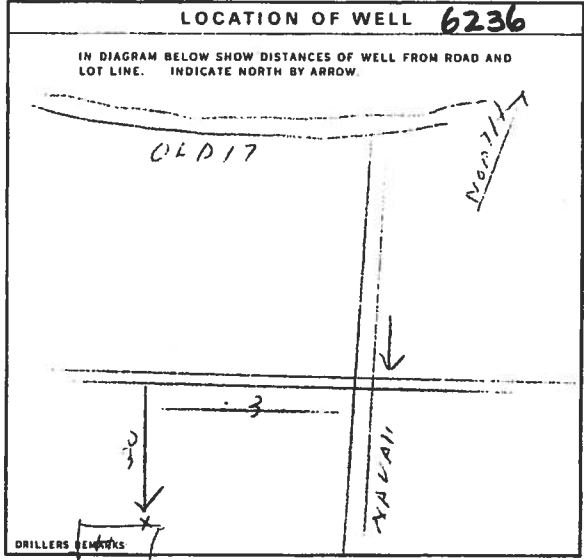
WATER LEVELS DURING:

10-21	22-24	15 MINUTES	20 MINUTES	45 MINUTES	60 MINUTES
020	030	020	020	020	020

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: **050** FEET

RECOMMENDED PUMPING RATE: **090** GPM



FINAL STATUS OF WELL: **1**

WATER USE: **01**

METHOD OF DRILLING: **4**

CONTRACTOR: **G. Charbonneau + Son Drilling Ltd 1504**

ADDRESS: **R.R. 2, Box 194, Orleans, Ont. K1C 1T1**

NAME OF DRILLER OR BORER: **L. Bourgeois**

SIGNATURE OF CONTRACTOR: *[Signature]*

SUBMISSION DATE: DAY **25** MO **11** YR **75**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1504** DATE RECEIVED: **030376**

DATE OF INSPECTION: **14 Jun 76** INSPECTOR: *[Signature]*

REMARKS: **CSS.S8**

P
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Ontario

MINISTRY OF THE ENVIRONMENT The Ontario Water Resources Act WATER WELL RECORD

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1515212

MUNICIPALITY 150411 CON 109

316/e

COUNTY OR DISTRICT **Carleton** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE **Cambridge** CON. BLOCK TRACT SURVEY ETC **9** LOT **1 C**

R. 1, Navan, Ont. DATE COMPLETED DAY **16** MO **07** YR **75**

DEPTH - FEET
ELEVATION **365.22** **44** **0288** **44** **26**

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
yellow	clay			0	15
blue	clay			15	60
grey	gravel			60	79
grey	slate			79	83

31 **0015505** **0060305** **0079111** **0083219**

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0083	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
16-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6 1/2	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0 0080
06	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		17-18 20-23
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-23 27-30

SCREEN

SIZE/NO. OF OPENING (SLOT NO.) 30-33 DIAMETER 36-38 LENGTH 39-40

MATERIAL AND TYPE INCHES FEET DEPTH TO TOP OF SCREEN 41-44 80

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-12	16-17	
18-21	22-25	
26-28	30-33	80

71 PUMPING TEST

PUMPING TEST METHOD PUMP BAILER

PUMPING RATE 0040 GPM DURATION OF PUMPING 01 HOURS 00 MINS

WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
030	19-21: 050 22-24: 030 26-28: 030	29-31: 030 32-34: 030 35-37: 030

IF FLOWING, GIVE RATE: 35 GPM

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMPING RATE: 075 GPM

RECOMMENDED PUMPING RATE: 0030 GPM

LOCATION OF WELL 6236

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW

DRILLER'S REMARKS: *North*

FINAL STATUS OF WELL

1 WATER SUPPLY 5 ABANDONED, INSUFFICIENT SUPPLY
2 OBSERVATION WELL 6 ABANDONED, POOR QUALITY
3 TEST HOLE 7 UNFINISHED
4 RECHARGE WELL

WATER USE 01

1 DOMESTIC 5 COMMERCIAL
2 STOCK 6 MUNICIPAL
3 IRRIGATION 7 PUBLIC SUPPLY
4 INDUSTRIAL 8 COOLING OR AIR CONDITIONING
5 OTHER 9 NOT USED

METHOD OF DRILLING 4

1 CABLE TOOL 6 BORING
2 ROTARY (CONVENTIONAL) 7 DIAMOND
3 ROTARY (REVERSE) 8 JETTING
4 ROTARY (AIR) 9 DRIVING
5 AIR PERCUSSION

CONTRACTOR

NAME OF WELL CONTRACTOR **G. Charbonneau & Son Drilling Ltd.** LICENCE NUMBER **1504**

ADDRESS **R. R. 2, Box 194, Orleans, Ont. K0A2 W0**

NAME OF DRILLER OR BOREN **L. Bourgeois** LICENCE NUMBER

SIGNATURE OF CONTRACTOR *[Signature]* SUBMISSION DATE DAY **16** MO **7** YR **75**

OFFICE USE ONLY

DATA SOURCE **1504** CONTRACTOR **1504** DATE RECEIVED **7/20/75**

DATE OF INSPECTION **14/7/74** INSPECTOR **P/RD**

REMARKS

CSS.58

P
WI



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Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

3166e

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11

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CON

109

COUNTY OR DISTRICT: OTTAWA TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Cumberland CON. BLOCK, TRACT, SURVEY, ETC.: 9 LOT: 25-27
 DATE COMPLETED: 21 MO: 12 YR: 82
 THING: 036499 BC: 44 ELEVATION: 0280 BC: 44 BASIN CODE: 136

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
red	clay			0	22
gray	clay			22	78
gray	fine sand	gravel		78	86
gray	limestone	rock		86	90

31 0222705 0978205 008629811 00901512
 32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-15	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
15-18	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
20-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
25-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
30-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
6.74	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	0
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		20-22
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	24-30	30-40
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN
		FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
10-15		
18-21		
20-24		

71 PUMPING TEST METHOD

1 PUMP 2 WATER

30 PUMPING RATE: 0015 GPM

31-32 DURATION OF PUMPING: 01 HOURS 30 MIN.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING					
018 FEET	028 FEET	15 MINUTES	30 MINUTES	45 MINUTES	30-34	35-37	
		029 FEET	026 FEET	028 FEET	028 FEET		

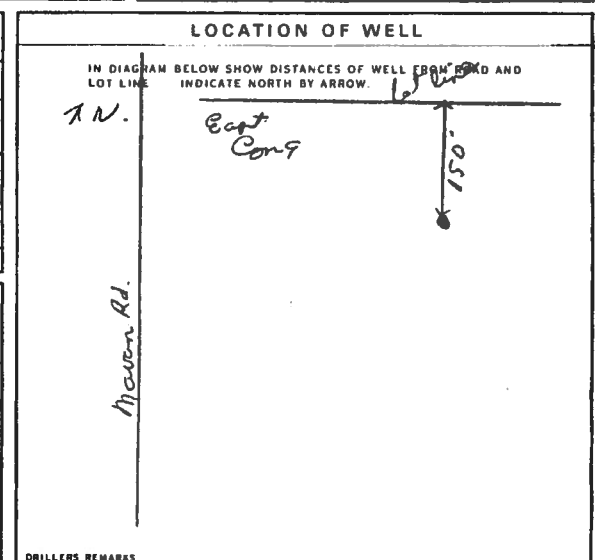
38-41 PUMP INTAKE SET AT: 90 FEET

42 WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 070 FEET

RECOMMENDED PUMPING RATE: 0012 GPM



FINAL STATUS OF WELL: 1

WATER USE: 01

METHOD OF DRILLING: 1

CONTRACTOR: Maurice Cayer Ltd LICENCE NUMBER: 1517

ADDRESS: Cornwall Ont

NAME OF DRILLER OR BORER: _____ LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: Maurice Cayer SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1517 DATE RECEIVED: 01-02-83

DATE OF INSPECTION: _____ INSPECTOR: op/lm

REMARKS: _____

Well ID

Well ID Number: 7213307
 Well Audit Number: C22552
 Well Tag Number: A153986

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	CUMBERLAND TOWNSHIP
Lot	
Concession	
County/District/Municipality	OTTAWA-CARLETON
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 18
	Easting: 462892.00
	Northing: 5036681.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
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Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
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Method of Construction & Well Use

Method of Construction	Well Use
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Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
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Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
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Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1844

Results of Well Yield Testing

After test of well yield, water was
If pumping discontinued, give reason
Pump intake set at
Pumping Rate
Duration of Pumping
Final water level
If flowing give rate
Recommended pump depth
Recommended pump rate
Well Production
Disinfected?

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
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Hole Diameter

Depth From	Depth To	Diameter
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Audit Number: C22552

Date Well Completed: October 11, 2013

Date Well Record Received by MOE: December 17, 2013