ResEnv Consulting Limited

October 22, 2015

Mr. Bruno Giordano
Vicdom Sand and Gravel (Ontario) Limited
PO Box 1359
Uxbridge, Ontario
L9P 1N6

Attention: Mr. Bruno Giordano

Re: Proposed Utica Pit
Response to Comments – Hydrogeological Assessment
File 13-003-00

Further to your request, we are pleased to provide responses to the comments by the Lake Simcoe Region Conservation Authority, dated October 10, 2014 that pertain to the Hydrogeological Assessment for the Proposed Utica Pit:

Comment 1: *A private well survey should be conducted for all wells within 500m of the site. MOE Water Well Records should only be used to supplement and confirm the data collected through the survey. Information from the private wells and wells located on-site should be used to establish the following:*

a. *Water well information that may be useful in characterizing the system (well depth, pumping rate, water level, types of wells, flowing conditions, etc.);*
b. *Groundwater levels and seasonal fluctuations;*
c. *Groundwater flow patterns (from all aquifers);*
d. *A clear figure locating all wells within 500m of the site;*
e. *A table summarizing well details;*
f. *Cross sections of hydrostratigraphic units with wells and water table.*

Response to Comment 1: A door-to-door water well survey for wells within 500 m of the proposed pit was completed between April 27 and May 21, 2015. A summary of the findings is provided in Table 1, Appendix A. A sample of the introduction letter and survey form is also provided in Appendix A. Completed survey forms as well as MOE Water Well Records are provided in Appendix A.

In summary, the following is presented to address each of the items noted in the comment.

a. Most water wells are developed within an unconfined sand aquifer. Wells located to the east, west, and south are drilled and tend to intersect the water table at about 25 to 30 m below grade. North of the proposed pit and adjacent to the existing pit the residence is serviced by a dug well that intersects the same unconfined aquifer at a depth of about 4 m below grade. One active residential well to the south was developed in a confined aquifer at a depth of about 181.4 m below ground surface.
b. Groundwater levels for the two onsite wells are summarized below. See Figure 1, Appendix A, for well locations. In summary, the spring high water levels fluctuated within a metre and confirm that a base pit elevation of 323.22 m asl will continue to be greater than 1.5 m above the high water table elevation.

WELL DESIGNATION	MOE WELL ID NUMBER	TOP OF CASING (m asl)	WATER TABLE ELEVATION	
			April 24, 2013	April 27, 2015
DW-1	4603045	346.48	321.07	320.74
MW13-1	A006365	347.21	321.72	321.39

c. The inferred groundwater flow pattern for the unconfined aquifer below the site indicates a southeasterly direction of movement as shown in Figure 1, Appendix A. Considering the residential wells for 769 and 779 Goodwood Road as presented in Table 1, Appendix A, vertical hydraulic gradients are in a downward direction.
d. A clear figure that presents all known wells within 500 m of the site is presented as Figure 1, Appendix A.
e. A table that summarized pertinent well details is presented in Table 1, Appendix A.
f. Cross-sections for the site based on monitoring wells and residential water wells are presented in Figure 2, Appendix A. As shown, the unconfined aquifer is located within a deposit of sand and gravel. Groundwater movement is toward the southeast. The proposed base of the pit will be greater than 1.5 m above the high water table elevation based on groundwater data from 2013 and 2015.

Comment 2: *The proposal seeks permission to extract to a depth of 323.5 masl, which is approximately 1.7 metres above the reported high groundwater level of 321.72 masl. The water level was taken from two wells located on the site on April 24, 2013. The Site Plan and extraction limits are based on the information from neighboring wells and the two wells on the site. Therefore, it is recommended that:*

a. Additional water level data be obtained in an additional spring season from the on-site wells to confirm the high water level conditions prior to approval of the proposal;
b. Water Well Records for the two wells on-site should be provided. The domestic well record has not been included within the Hydrogeologic Assessment;

c. *The Water Well Record for borehole MW13-1 constructed on the property was provided within the report, however, it is not legible. Please provide an additional legible copy;*

d. *A figure with ground elevations, groundwater levels and location of water wells should be included within the report.*

Response to Comment 2: Based on addition field work completed between April 27 and May 2, 2015, the following responses to comments are provided.

a. Groundwater levels for the two onsite wells are summarized below. See Figure 1, Appendix A, for well locations. In summary, the spring high water levels fluctuated within a metre and confirm that a base pit elevation of 323.22 m asl will continue to be greater than 1.5 m above the high water table elevation.

WELL DESIGNATION	MOE WELL ID NUMBER	TOP OF CASING (m asl)	WATER TABLE ELEVATION	
			April 24, 2013	April 27, 2015
DW-1	4603045	346.48	321.07	320.74
MW13-1	A006365	347.21	321.72	321.39

b. The water well records for the domestic well (MOE 4603045) and the monitoring well (MOE A006365) are provided in Appendix A. It is noted that the well record for MOE 4603045 is difficult to read owing to its age and condition provided in the MOE database.

c. An additional copy of the water well record MW13-1 (MOE A006365) is provided in Appendix A.

d. Figures 1 and 2, Appendix A, provide the location of the water wells and groundwater elevations where available.

We trust that these responses to comments are satisfactory. If you have any questions, please contact us.

Yours truly,
ResEnv Consulting Limited

Jason T. Balsdon, M.A.Sc, P.Eng.
Consulting Engineer

APPENDIX

APPENDIX A

LEGEND

PROPERTY LOCATION

1911647 APPROXIMATE WELL LOCATION AND DESIGNATION

INFERRED DIRECTION OF GROUNDWATER MOVEMENT

A CROSS SECTION TRACE

100 50 0 100 metres

MAP SOURCE:
BING, NAD 83, ZONE 17 DATUM.

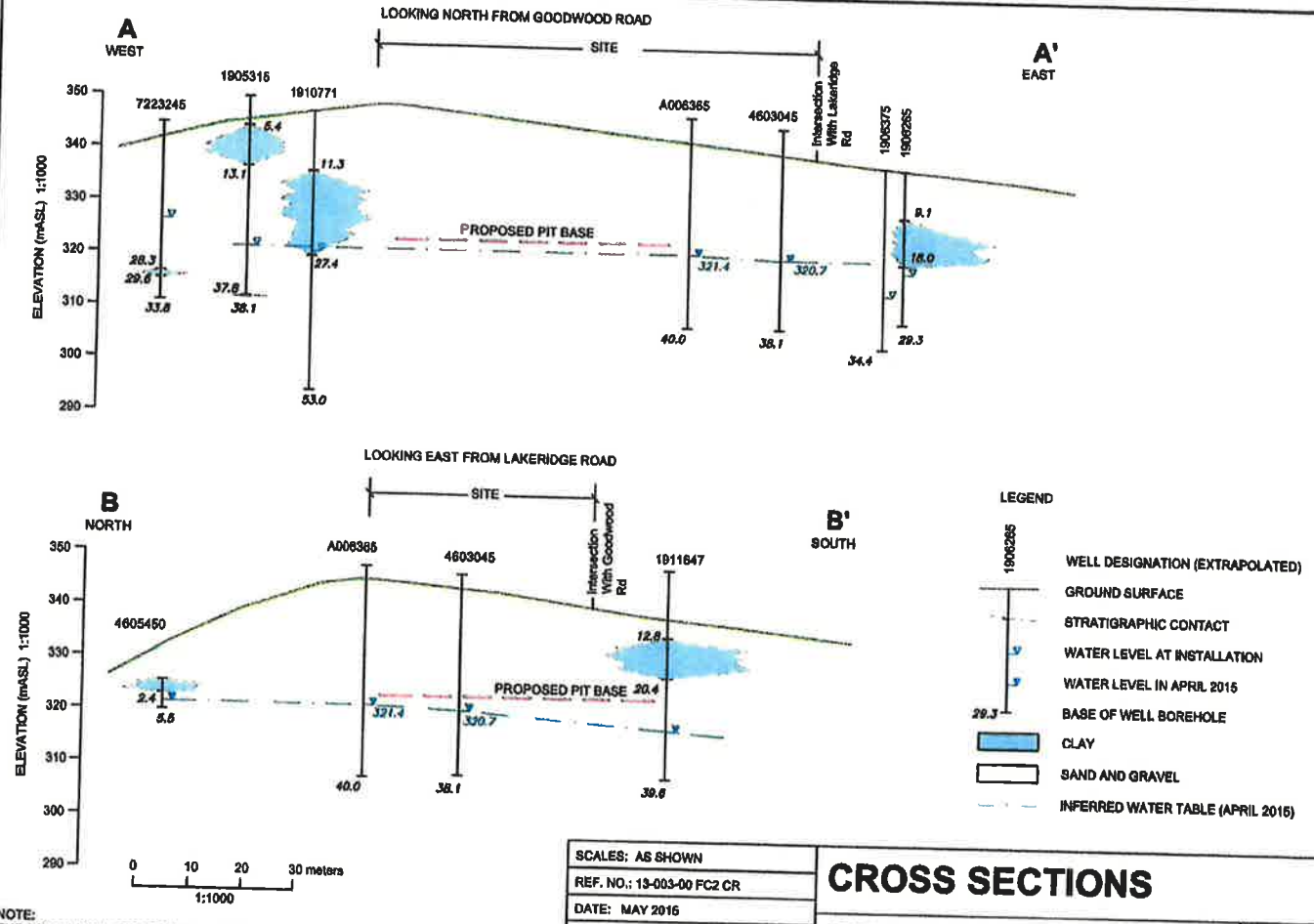
SITE LOCATION

HYDROGEOLOGIC ASSESSMENT
PROPOSED UTICA PIT
For Vicdom Sand & Gravel (Ontario) Ltd.

DATE: MAY 2015	SCALE: 1:10000
PROJECT: 13-003-00	REF. NO.: 13-003-00 FC1 SP

ResEnv Consulting Limited

FIGURE C-1



NOTE:
THE ACTUAL SOIL STRATIFICATION HAS BEEN VERIFIED FROM DATA OBTAINED AT THE WELL LOCATIONS ONLY. THE INFERRED CONTACTS SHOWN ARE BASED ON GEOLOGICAL EVIDENCE AND THESE MAY VARY FROM THOSE SHOWN BETWEEN BORINGS.

SCALES: AS SHOWN
REF. NO.: 13-003-00 FC2 CR
DATE: MAY 2015
PROJECT: 13-003-00

ResEnv Consulting Limited

CROSS SECTIONS

HYDROGEOLOGICAL ASSESSMENT
PROPOSED UTICA PIT
For Vicdom Sand & Gravel (Ontario) Ltd.

FIGURE
C-2

TABLE C-1
RESIDENTIAL WATER WELL SURVEY RESULTS
PROPOSED UTICA PIT

ADDRESS	SURVEY LEFT	DATE SURVEY LEFT	SURVEY COMPLETED	DATE SURVEY COMPLETED	COMMENT	WELL TYPE	INFERRED MOE WELL NUMBER	YEAR OF INSTALLATION	WELL DEPTH	DEPTH TO WATER AT INSTALLATION	DEPTH TO WATER AT TIME OF SURVEY
									(m)	(m)	(m btoc)
3900 Lake Ridge Road, Uxbridge	No	27-Apr-15	No	NA	Vacant house on proposed pit.	Drilled	4603045	1956	38.1	27.7	25.74
4220 Lake Ridge Road, Uxbridge	Yes	27-Apr-15	Yes	02-May-15	Completed in person.	Drilled	A006365	2012	40.0	30	25.82
759 Goodwood Road, Uxbridge	Yes	27-Apr-15	Yes	28-Apr-15	Completed over phone. No permission granted to obtain water level.	Dug	4605450	1973	5.5	2.4	3.89
						Drilled	7223245	2014	33.8	18.8	NA
769 Goodwood Road, Uxbridge	Yes	27-Apr-15	Yes	21-May-15	Owner preferred that no water level to be collected. Owing to well depth of 181.4 m, it was determined that the well was not developed within the unconfined aquifer.	Drilled	4603010	1958	36.0	27.7	NA
						Drilled	1905315	1979	37.2	29	NA
						Drilled	4603926	1968	181.4	51.8	NA
779 Goodwood Road, Uxbridge	Yes	27-Apr-15	No		Casa Dolce. Left survey at gate.	Drilled	1910771	1990	53.0	27.4	NA
801 Goodwood Road, Uxbridge	No	27-Apr-15	Yes	27-Apr-15	Completed in person.	Drilled	1911647	1992	39.6	29.9	30.43
10 Goodwood Road, Scugog	No	27-Apr-15	No		Left message with Mr. Dominick Sylvester at Durham Region. No return call.	Drilled	1906265	1981	29.3	19.8	NA
21 Goodwood Road, Scugog	Yes	27-Apr-15	No		Left copy of survey at main entrance.	Drilled	1906375	1982	34.4	25.6	NA

NOTES:
1) 'm' indicates metres.
2) 'M btoc' indicates metres below top of casing.

ResEnv Consulting Limited

April 27, 2015

Dear Property Owner:

Re: Reconnaissance Survey Notice
Proposed VICDOM Pit Expansion, Town of Uxbridge
Regional Municipality of Durham

Resources Environmental Consulting Limited is performing a groundwater investigation at the VICDOM Property, located northwest of the corner at Goodwood Road and Lake Ridge Road, in the Town of Uxbridge. VICDOM proposes to expand its sand and gravel pit from the north onto this property and to operate the pit above the water table.

As part of the work for the site, a water well reconnaissance program is being completed for water wells adjacent to the proposed area for expansion. The purpose of the water well reconnaissance program is to obtain information on the water wells, and if possible to measure water levels in some of the wells.

We would like to include your well in the water well survey. As you were not home when we called, a copy of the survey form was left for your review along with a self-addressed and stamped envelope. Alternatively, please contact us at the phone number provided below and we would be pleased to set up a convenient time to meet with you.

Contact person for this project: Jason Balsdon – 1-905-836-1119

If you have any questions, do not hesitate to call our office.

Yours truly,
ResEnv Consulting Limited

Jason Balsdon, M.A.Sc., P.Eng.
Consulting Engineer

Attachment

ResEnv Consulting Limited

WATER WELL SURVEY AND SAMPLING FIELD DATA FORM

PROJECT DETAILS

Project Name: Utica Pit Project Number: 13-003-00

SURVEY INFORMATION

Person Interviewed: _____ Date: _____

Interviewed By: _____ Time: _____

Address: _____ Phone Number: _____

Postal Code: _____ Owner Occupant Both

Lot: _____ Concession: _____ Township: _____

GPS NAD: _____ Northing: _____ Easting: _____

Sketch location of well on back of sheet. Show well relative to road, entrance, house, and tile field. Include north arrow.

WELL CONSTRUCTION DETAILS

Date Constructed: _____ Use: _____ Type: Drilled Dug

Diameter: _____ Depth: _____ Material at Intake: Soil Rock

Type of Well Casing: _____ Height of Casing: _____ Settlement Around Casing?: Yes No

Condition of Well: _____ Is Well Accessible for Sampling?: Yes No

WELL WATER LEVEL

Water Level (mbtoc): _____ Date: _____

WELL INFORMATION

Any historic problems with well?: _____

Number of users (persons and/or livestock)?: _____

Presence of water treatment system (type)?: _____

Distance from sewage tile bed (m): _____ Well uphill from tile bed?: Yes No

Comments: _____

WATER QUALITY DATA

Filtered? Yes No Filtered Parameters: _____

Preserved? Yes No Preserved Parameters: _____

Samples Appearance: _____ Sample Odour: _____

Water Temperature (°C): _____ pH: _____

Conductivity (µS/cm): _____ Turbidity (NTU): _____

Dissolved Oxygen (mg/L): _____ Number of Bottles: _____

Comments: _____

NOTES: 'mbtoc' indicates metres below top of casing.

UTM 17 Z 6 5 4 4 9 9 E
9 R 4 8 8 0 1 5 9 N
Elev. 9 1
Basin 2 2

ONTARIO

The Well Drillers Act
Department of Mines, Province of Ontario

46 No. 3045

RECEIVED
NOV 30 1956
GEOLOGICAL BRANCH
DEPARTMENT of MINES

Water Well Record

[redacted] ip, Village, Town or City [illegible]
[redacted] Town or City)
[redacted] s [illegible]
Date Completed [illegible] (day) [illegible] (month) [illegible] (year) Cost of Well (excluding pump)

Pipe and Casing Record	Pumping Test
Casing diameter(s) [illegible]	Date Sept. 23
Length(s) of casing(s) 125	Static level 71 FT
Type of screen [illegible]	Pumping level [illegible]
Length of screen 3 ft	Pumping rate [illegible]
Distance from top of screen to ground level 122	Duration of test 3.6 hr.
Is well a gravel-wall type? No	Distance from cylinder or bowls to ground level

Water Record

Kind (fresh or mineral) Fresh
Quality (hard, soft, contains iron, sulphur, etc.)
Appearance (clear, cloudy, coloured) clear
For what purpose(s) is the water to be used? Farm
How far is well from possible source of contamination?
What is the source of contamination?
Enclose a copy of any mineral analysis that has been made of water

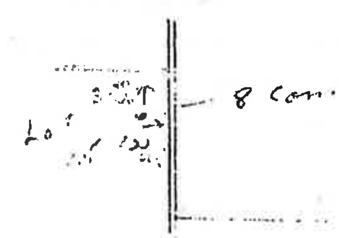
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
91	Fresh	[illegible]

Well Log

Overburden and Bedrock Record	From	To
dry gravel	0 ft.	53ft.
dry sand	53	9?
fine sand [illegible]	9?	123
fine sand, [illegible] gravel	[illegible]	125

Location of Well

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



Situation: Is well on upland, in valley, or on hillside? upland
Drilling Firm D. Loughead
Address
Name of Driller Address [illegible]
Date [illegible] Licence Number [illegible] 3

W. D. Loughead
Signature of Licensee

Form 5

CSS.S8

Ontario Ministry of the Environment

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. (Place Sticker and/or Print Below): A006365

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
978970	Vicdom gravel		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
Box 1359	Uxbridge	ON	L9P1M6	9052491213

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
3900 Lake Ridge Rd		Lot 15	7 & 8

County/District/Municipality	City/Town/Village	Province	Postal Code
	Uxbridge	Ontario	

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	615448	4981062 17		

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	Depth (m/ft) To
Brown	Sand	gravel	Till - Hard	0	6
Brown	Sand	gravel	Soft	6	10
Grey	gravel	Sand	Loose	10	15
Brown	Sand	gravel	Loose	15	30
Grey	Sand	gravel	wet	30	40

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	36	Bentonite	1.6
36	40	Sand	2.0

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☑ Other, specify: Rotary Sonic

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☑ Test Hole ☐ Monitoring ☐ Livestock ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, specify

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
2.047	Plastic	.40	0	37

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2.375	Plastic	10	37	40

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

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	Hole Diameter Depth (m/ft) From	To	Diameter (cm/in)
	NA	0	40	6
	NA			
	NA			

Results of Well Yield Testing

After test of well yield, water was: ☐ Clear and sand free ☐ Other, specify: NA

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (m/ft)

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft)

Recommended pump rate (l/min / GPM)

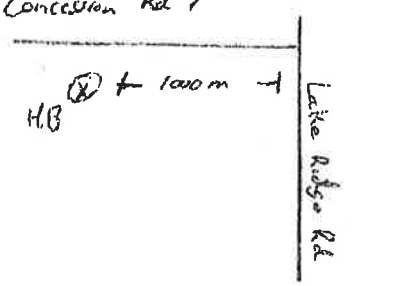
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level				
1			1	
2			2	
3			3	
4			4	
5			6	
10			10	
15			15	
20			20	
25			25	
30			30	
40			40	
50			50	
60			60	

Map of Well Location

Please provide a map below following instructions on the back.



Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Boart Longyear	15018

Business Address (Street Number/Name)	Municipality
1111 Main St West	North Bay

Province	Postal Code	Business E-mail Address
ONT	K7K6Y9	Brennan@Boartlongyear.

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6133511355	Brennan McMahon

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
31312	B. McMahon	2010129

Comments: Well Located at NW corner of farmer field

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☑ No	2016128	Audit No. Z107919
	Date Work Completed	
	2016128	Received JAN 1 8 2017

0506E (12/2007)

Ministry's Copy

ResEnv Consulting Limited

WATER WELL SURVEY AND SAMPLING FIELD DATA FORM

Copy sent to owner.

PROJECT DETAILS

Project Name: Utica Pit Project Number: 13-003-00

SURVEY INFORMATION

Person Interviewed: LAURA FREELAND Date: MAY 2/15
Interviewed By: JTB Time:
Address: 4220 LAKERIDGE RD, UXBRIDGE Phone Number: (905) 862-0875
Postal Code: L9P 1R4 Owner / Occupant / (Both)
Lot: 18 Concession: 8 Township: UXBRIDGE
GPS NAD: Not visible on well Record Northing: Easting:

Sketch location of well on back of sheet. Show well relative to road, entrance, house, and tile field. Include north arrow.

WELL CONSTRUCTION DETAILS

Date Constructed: APR. 21, 1973 Use: DOMESTIC Type: Drilled / (Dug)
Diameter: 3' Depth: 6m Material at Intake: (Soil) / Rock
Type of Well Casing: CONCRETE Height of Casing: 7/8 in Settlement Around Casing?: (Yes) / No
Condition of Well: Good Is Well Accessible for Sampling?: (Yes) / No

WELL WATER LEVEL

Water Level (mbtoc): 3.89 m Date: May 2/15

WELL INFORMATION

Any historic problems with well?: ASSUME BACTERIOLOGICAL AS TREATED
Number of users (persons and/or livestock)?: 4 OCCUPANTS / 3 HORSES / 2 DONKEYS
Presence of water treatment system (type)?: UV + FILTER
Distance from sewage tile bed (m): 35 Well uphill from tile bed?: Yes / (No)
Comments: Above water table pit immediately to south.

WATER QUALITY DATA

Filtered? Yes No Filtered Parameters:
Preserved? Yes No Preserved Parameters:
Samples Appearance: NA Sample Odour:
Water Temperature (°C): pH:
Conductivity (µS/cm): Turbidity (NTU):
Dissolved Oxygen (mg/L): Number of Bottles:
Comments:

NOTES: 'mbtoc' indicates metres below top of casing.

ONTARIO

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

310/31E

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

11 | 4605450 | MUNICIP. 46009 | CON. CON | 08

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Durham	[redacted] uxbridge	VIII	017

[redacted] nual Rd, uxbridge ont

DATE COMPLETED: DAY 09 MO. 04 YR. 73

...	R.C.	ELEVATION	R.C.	BASIN CODE
180850	4	1075	6	22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Black	Top soil		Packed	0	1
Brown	clay	stones	Packed	1	8
"	Sand	water	Loose	8	15

31 | 0001/103 | 0008/6051/2 | 0015/8218

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0008	☒ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
30"	☐ 1 STEEL ☐ 2 GALVANIZED ☒ 3 CONCRETE ☐ 4 OPEN HOLE	3"	0	0019
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE			
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE			

SCREEN

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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD: ☐ 1 PUMP ☒ 2 BAILER | PUMPING RATE 0006 GPM | DURATION OF PUMPING 00 HOURS 15 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
008 feet	017 feet	013	014	013	012 feet

WATER LEVELS DURING: ☐ 1 PUMPING ☒ 2 RECOVERY

IF FLOWING GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: ☐ 1 CLEAR ☒ 2 CLOUDY

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP | RECOMMENDED PUMP SETTING 015 FEET | RECOMMENDED PUMPING RATE 0004 GPM

000.7 GPM./FT. SPECIFIC CAPACITY

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 01

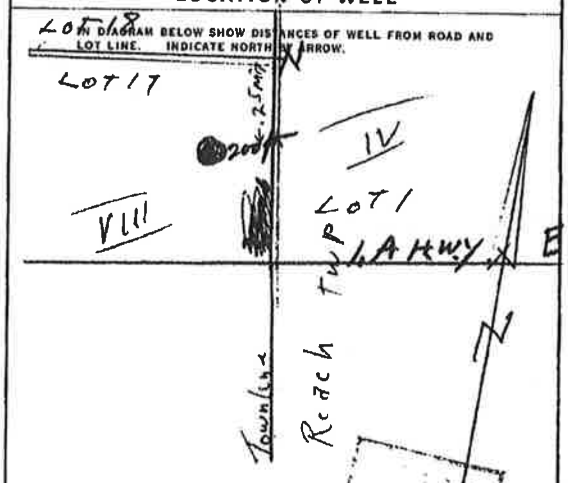
☒ 1 DOMESTIC ☐ 2 STOCK ☐ 3 IRRIGATION ☐ 4 INDUSTRIAL ☐ OTHER ☐ 5 COMMERCIAL ☐ 6 MUNICIPAL ☐ 7 PUBLIC SUPPLY ☐ 8 COOLING OR AIR CONDITIONING ☐ 9 NOT USED

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

LOCATION OF WELL

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



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR: Freelance Boring & Drilling | LICENCE NUMBER: 2214

ADDRESS: 204 Chestnut st w whitby ont

NAME OF DRILLER OR BORER: wayne Coleman | LICENCE NUMBER: 2214

SIGNATURE OF CONTRACTOR: Neil Coleman | SUBMISSION DATE: DAY 21 MO. 4 YR. 73

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 2214 | DATE RECEIVED: 010673

DATE OF INSPECTION: JULY 16/73 | INSPECTOR

REMARKS: | J.B. | P/J.B. | WI

CSS.S8

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

ResEnv Consulting Limited

WATER WELL SURVEY AND SAMPLING FIELD DATA FORM

PROJECT DETAILS

Project Name: Utica Pit Project Number: 13-003-00

SURVEY INFORMATION

Person Interviewed: Doug Mackie Date: April 27/15 - left Survey
April 28/15 - Doug Called
Interviewed By: JTB Time: 1128
Address: 759 Goodwood Road. Phone Number: 416-407-7024
Postal Code: Owner (Occupant) (Both)
Lot: Concession: Township: Uxbridge
GPS NAD: Northing: Easting:

Sketch location of well on back of sheet. Show well relative to road, entrance, house, and tile field. Include north arrow.

WELL CONSTRUCTION DETAILS - 2 wells - most recent see below

Date Constructed: 2014 Use: Domestic Type: (Drilled) Dug
Diameter: Depth: 110 ft Material at Intake: (Soil) Rock
Type of Well Casing: Height of Casing: Settlement Around Casing?: Yes No —
Condition of Well: — Is Well Accessible for Sampling?: Yes No —

WELL WATER LEVEL

Water Level (mbtoc): 90' at time of drilling Date: - Doug not interested in a current level.

WELL INFORMATION

Doug said could get more info from well record.

Any historic problems with well?:
Number of users (persons and/or livestock)?: 1
Presence of water treatment system (type)?: —
Distance from sewage tile bed (m): 70m Well uphill from tile bed?: Yes No —
Comments: Believes house to the east has well 500-600ft deep drilled about 40 years ago

WATER QUALITY DATA

Filtered? Yes No Filtered Parameters:
Preserved? Yes No Preserved Parameters:
Samples Appearance: Sample Odour:
Water Temperature (°C): pH:
Conductivity (µS/cm): Turbidity (NTU):
Dissolved Oxygen (mg/L): Number of Bottles:
Comments:

NOTES: 'mbtoc' indicates metres below top of casing.

Well record information

Full well record information. Contains information from the original well record and any subsequent updates.

Well record information:

Well ID

Well ID Number: 7223245
Well Audit Number: *Z182908*
Well Tag Number: *A159090*

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

Well Location

Address of Well Location	759 GOODWOOD RD.
Township	UXBRIDGE TOWNSHIP (UXBRIDGE)
Lot	015
Concession	CON 07
County/District/Municipality	DURHAM
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 653419.00 Northing: 4880222.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK	LOAM			0 ft	1 ft
BRWN	SAND	SILT		1 ft	32 ft
BRWN	GRVL	SAND		32 ft	58 ft
BRWN	GRVL	SAND	WBRG	58 ft	80 ft
BRWN	SAND	CLAY		80 ft	93 ft
GREY	CLAY	SAND		93 ft	97 ft
BRWN	GRVL			97 ft	111 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	20 ft	BENTONITE	

Method of Construction & Well Use

Method of Construction	Well Use
Cable Tool	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
6.25 inch	STEEL	2 ft	107 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
6 inch	STEEL	107 ft	111 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 2662

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	104 ft
Pumping Rate	10 GPM
Duration of Pumping	3 h:0 m
Final water level	68.8 ft
If flowing give rate	
Recommended pump depth	104 ft
Recommended pump rate	7 GPM
Well Production	
Disinfected?	Y

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	61.6 ft		
1	67.8 ft	1	64.05 ft
2	68.8 ft	2	62.9 ft
3	68.8 ft	3	62.4 ft
4	68.8 ft	4	62.1 ft
5	68.8 ft	5	61.95 ft
10	68.8 ft	10	61.6 ft
15	68.8 ft	15	61.6 ft

20	68.8 ft	20	61.6 ft
25	68.8 ft	25	61.6 ft
30	68.8 ft	30	61.6 ft
40	68.8 ft	40	61.6 ft
45		45	
50	68.8 ft	50	61.6 ft
60	68.8 ft	60	61.6 ft

Water Details

Water Found at Depth	Kind
107 ft	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	20 ft	8 inch
20 ft	111 ft	6 inch

Audit Number: Z182908

Date Well Completed: May 21, 2014

Date Well Record Received by MOE: July 07, 2014

Updated: March 12, 2015
Rate Rate
Share facebook twitter Email Print
Tags

- Environment and energy,
- Drinking water,
- Well water

Glen Murray

Minister of the Environment and Climate Change

"Fighting climate change and working to keep our air, land, and water clean will ensure Ontario's prosperity and quality of life for today and for future generations."

Ministry of the Environment and Climate Change

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UTM 17 Z 6 5 3 2 9 3 E
9 R 4 8 7 9 9 2 0 N
Elev. 9 R 1 1 2 5
Basin 42 9 15

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

46 № 3010

GROUND WATER BRANCH
AUG 19 1958
ONTARIO WATER RESOURCES COMMISSION

Water-Well Record

[redacted] hip, Village, Town or City Uxbridge
in Village, Town or City)
Address Uxbridge P.O.

Date completed 28 (day) June (month) 1958 (year)

Pipe and Casing Record

Casing diameter(s) 5 ½"
Length(s) 118
Type of screen Cook strainers
Length of screen 4" X 12

Pumping Test

Static level 91'
Pumping rate 3 ½ gal per min
Pumping level 116'
Duration of test 2 hrs

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
sandy clay	0	90	118	27	fresh
med fine sand	90	118			

For what purpose(s) is the water to be used? house
Is water clear or cloudy? clear
Is well on upland, in valley, or on hillside? upland

Drilling firm F. R. Boadway & Son
Address Leaskdale West

Name of Driller F. R. Boadway
Address

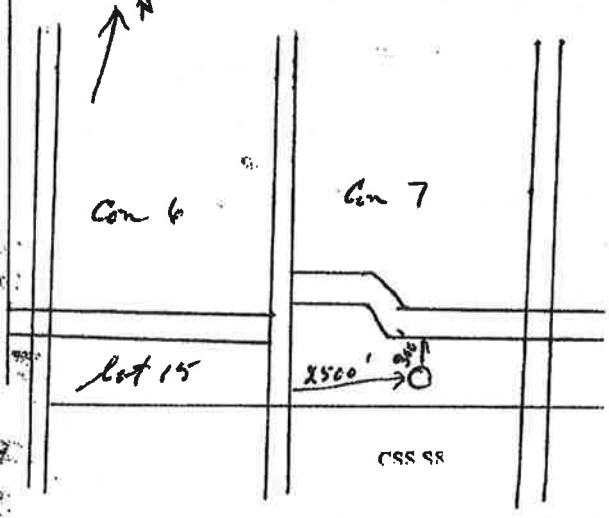
Licence Number 51

I certify that the foregoing statements of fact are true.

Date June 28 F. R. Boadway
Signature of Licensee

Location of Well

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



Form 5

CSS 58

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 1905315 MUNICIP 18012 CON. CON. 310 3E 07

COUNTY OR DISTRICT: DURHAM

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: [redacted] RIDGE

CON., BLOCK, TRACT, SURVEY, ETC: 7

LOT: 015

[redacted] BRIDGE ONT.

DATE COMPLETED: DAY 16 MO 03 YR 79

[redacted] 80200 5 ELEVATION 1120 5 BASIN CODE 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
BROWN	SAND		DRY	0	18
BROWN	CLAY		PACKED	18	43
BROWN	SAND		DRY	43	95
BROWN	SAND		FINE LOOSE	95	124
GREY	CLAY		HARD	124	125

31 0018 2868 | 0043 6057 9 | 0095 2868 | 0124 6087 7 | 0125 2057 3

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0124	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
5 1/4 05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	116 0116
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.): 006 DIAMETER: 05000 INCHES LENGTH: 08 FEET

MATERIAL AND TYPE: STAINLESS HOWARD SMITH DEPTH TO TOP OF SCREEN: 0116 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
0	116	K. PACKER
		TOP 5' SCREEN
		NIPPLE

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 0008 GPM

DURATION OF PUMPING: 02 HOURS 00 MINS

STATIC LEVEL: 095 FEET

WATER LEVEL END OF PUMPING: 102 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
102 FEET	FEET	FEET	102 FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: 115 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

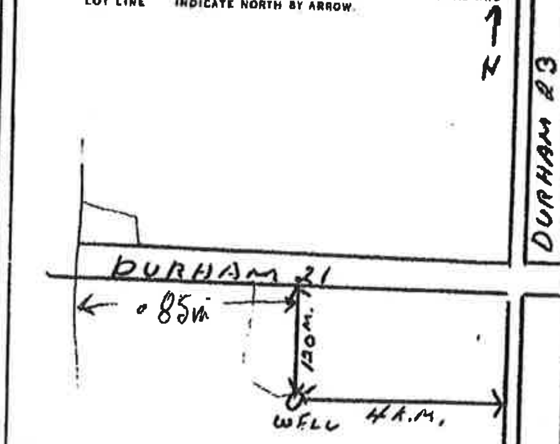
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING: 115 FEET

RECOMMENDED PUMPING RATE: 0007 GPM

LOCATION OF WELL

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



DRILLERS REMARKS

FINAL STATUS OF WELL: 1

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

WATER USE: 01

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

METHOD OF DRILLING: 2

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: ROGER BOADWAY ENT LTD LICENCE NUMBER: 1413

ADDRESS: BOX 397 SUTTON WEST ONT L0E 1R0

NAME OF DRILLER OR BORER: ROGER BOADWAY LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Roger Boadway SUBMISSION DATE: DAY 16 MO APRIL YR 79

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 1413 DATE RECEIVED: 100579

DATE OF INSPECTION: INSPECTOR:

REMARKS: loc. only 08/4/86 CSS.E8

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506-4-77

ResEnv Consulting Limited

WATER WELL SURVEY AND SAMPLING FIELD DATA FORM

PROJECT DETAILS

Project Name: Utica Pit Project Number: 13-003-00

SURVEY INFORMATION

Person Interviewed: Ivor MacGregor Date: May 21/15
Interviewed By: JTB Time: 0830
Address: 769 Goodwood Road Phone Number: 905-904-2728
Postal Code: L9P 1R4 Owner / Occupant / (Both)
Lot: 15 Concession: 7 Township: Uxbridge
GPS NAD: Northing: Easting:

Sketch location of well on back of sheet. Show well relative to road, entrance, house, and tile field. Include north arrow.

WELL CONSTRUCTION DETAILS

Date Constructed: 1960 Use: Domestic Type: (Drilled) / Dug
Diameter: 6" in 30" current casing Depth: 595' Material at Intake: (Soil) / Rock (current casing only)
Type of Well Casing: Height of Casing: Grade Settlement Around Casing?: (Yes) / No
Condition of Well: Is Well Accessible for Sampling?: Yes / (No)

WELL WATER LEVEL

- Poor access - owner preferred that no tests taken.

Water Level (mbtoc): Not Measured Date: 170' at installation

WELL INFORMATION

Any historic problems with well?: No - lots of water - used to fill pool.
Number of users (persons and/or livestock)?: 2
Presence of water treatment system (type)?: No
Distance from sewage tile bed (m): >15m Well uphill from tile bed?: Yes / (No) Flat
Comments:

WATER QUALITY DATA

Filtered? Yes No Filtered Parameters:
Preserved? Yes No Preserved Parameters:
Samples Appearance: Sample Odour:
Water Temperature (°C): pH:
Conductivity (µS/cm): Turbidity (NTU):
Dissolved Oxygen (mg/L): Number of Bottles:
Comments:

NOTES: 'mbtoc' indicates metres below top of casing.

J.B.

Con VII
Lot 15

1 7 6 5 3 6 3 6 CODED
4 4 8 8 0 1 2 0
Elev. 5 R 1 1 5 0
Basin 2 4

4603926 6

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or ~~District~~ Ontario

Township, ~~Village, Town or City~~ Uxbridge

Con. ~~15~~ VII Lot ~~7~~ 15

Date completed 4 (day) July (month) 1968 (year)

[redacted]

Address 56 Hillholme Rd. Toronto

Casing and Screen Record	
Inside diameter of casing	6 in
Total length of casing	595
Type of screen	Horka made 5 in screen
Length of screen	—
Depth to top of screen	—
Diameter of finished hole	6 in

Pumping Test	
Static level	170
Test-pumping rate	40 G.P.M.
Pumping level	280
Duration of test pumping	4
Water clear or cloudy at end of test	clear
Recommended pumping rate	20 G.P.M.
with pump setting of	350 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)
Top Soil	0	2		
Sand	2	515		
Clay	515	580		
Gravel	580	595	595	fresh

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

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

Drilling or Boring Firm J. F. Henderson

Address 103 Elgin St. Lindsay Ont

Licence Number 3034

Name of Driller or Borer Robert Jenkinson

Address R R 3 Fenelon Falls

Date Aug 1, 1968

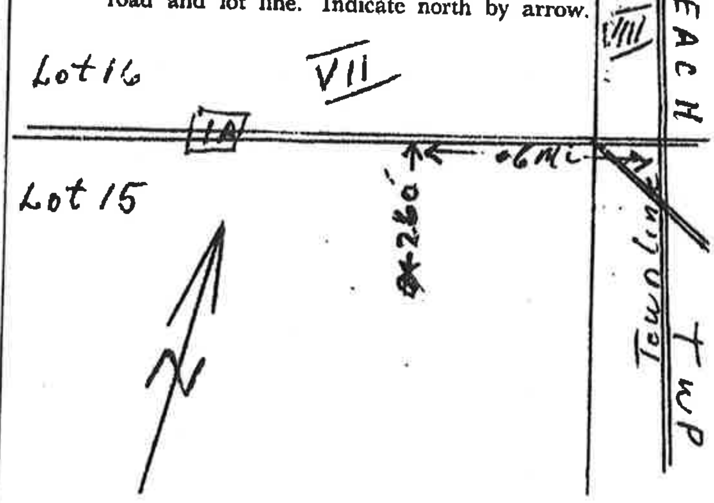
[signature]
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.S8

S.C.W.B.

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 1910771 MUNICIP. 19012 CON. CON 197

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON	BLOCK	TRACT, SURVEY, ETC	LOT
Durham	Uxbridge	7			15(3)

[redacted] cham 21 Coppins Corner, ON

DATE COMPLETED: DAY 17 MO 08 YR 90

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	Sand	Gravel	Dry	0	37
Brown	Clay	Sand	Dry	37	90
Brown	Sand		Medium, Dirty	90	117
Brown	Sand		Coarse, Clean	117	137
Brown	Gravel	Sand	Coarse, Clean	137	174

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
174	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6¼	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	188	0	154
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
80	6	20

MATERIAL AND TYPE: Johnson S/S

DEPTH TO TOP OF SCREEN: 154 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
150	154	K. Packer top 4'
		screen nipple

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☐ BAILER AIR	200-300 GPM	16 HOURS MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
90 FEET	FEET		FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: 140 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING: 140 FEET

RECOMMENDED PUMPING RATE: 200-300 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 ☐ DEWATERING

WATER USE

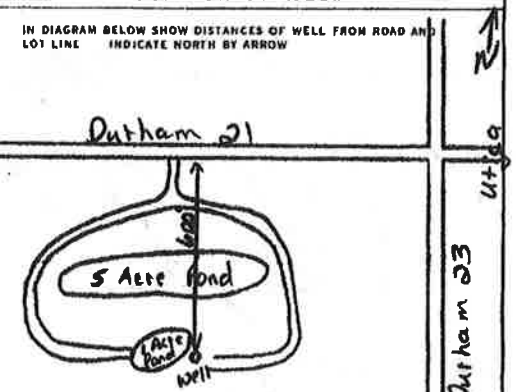
1 ☐ DOMESTIC 2 ☐ STOCK 3 ☒ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF CONSTRUCTION

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

LOCATION OF WELL

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



DRILLERS REMARKS: 70979

CONTRACTOR

NAME OF WELL CONTRACTOR: Roger Boadway Ent., Ltd.
WELL CONTRACTOR'S LICENCE NUMBER: 1413
ADDRESS: Box 397 Sutton West, ON L0E 1R0
NAME OF WELL TECHNICIAN: Grant Boadway
WELL TECHNICIAN'S LICENCE NUMBER: T0029
SIGNATURE OF TECHNICIAN/CONTRACTOR: Roger Boadway
SUBMISSION DATE: DAY 17 MO 08 YR 90

OFFICE USE ONLY

DATA SOURCE
CONTRACTOR 1413
DATE RECEIVED SEP 12 1990
DATE OF INSPECTION
INSPECTOR
REMARKS
CSC.GS

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/88) FORM 9

ResEnv Consulting Limited

WATER WELL SURVEY AND SAMPLING FIELD DATA FORM

Copy mailed to occupant

PROJECT DETAILS

Project Name: Utica Pit Project Number: 13-003-00

SURVEY INFORMATION

Person Interviewed: Kathleen Trenka Date: April 27, 2015

Interviewed By: JTB Time: 1200

Address: 801 Goodwood Rd Uxbridge Phone Number: 905-852-3579

Postal Code: L9P 1R4 Owner Occupant (Both)

Lot: 14 Concession: 7 & 8 Township: Uxbridge

GPS ~~NAD~~: Northing: 44° 3' 25" N Easting: 79° 4' 20" W

Sketch location of well on back of sheet. Show well relative to road, entrance, house, and tile field. Include north arrow.

WELL CONSTRUCTION DETAILS - unsure of new well details

Date Constructed: Use: Domestic Type: (Drilled) Dug

Diameter: 6 inch Depth: Material at Intake: (Soil) Rock

Type of Well Casing: Metal Height of Casing: > 18 in. Settlement Around Casing?: Yes (No)

Condition of Well: Good Is Well Accessible for Sampling?: (Yes) No

WELL WATER LEVEL

Water Level (mbtoc): 30.43 m Date: April 27, 2015

WELL INFORMATION 1953 - original drilled well in old dug well

Any historic problems with well?: New well drilled because of quantity problems

Number of users (persons and/or livestock)?: 1

Presence of water treatment system (type)?: No

Distance from sewage tile bed (m): >15m (50ft) Well uphill from tile bed? (Yes) No

Comments: No problems since installed new well

WATER QUALITY DATA - No testing completed

Filtered? Yes No Filtered Parameters:

Preserved? Yes No Preserved Parameters:

Samples Appearance: Sample Odour:

Water Temperature (°C): pH:

Conductivity (µS/cm): Turbidity (NTU):

Dissolved Oxygen (mg/L): Number of Bottles:

Comments:

NOTES: 'mbtoc' indicates metres below top of casing.

Well ID Number: 1911647

Well Audit Number: *none*
Well Tag Number: *none*

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

Well Location

Address of Well Location	Township	Lot	Concession
not available	Uxbridge Township (Uxbridge)	014	CON 07
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
DURHAM		ON	n/a
UTM Coordinates	**Municipal Plan and Sublot Number**	**Other**	

NAD83 -- Zone 17
Easting: 654374.9
Northing: 4879975

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BLCK	LOAM			0 ft	2 ft
BRWN	CLAY	SNDY	LOAM	2 ft	19 ft
BRWN	SAND	LOOS		19 ft	42 ft
YLLW	CLAY	SOFT		42 ft	67 ft
BRWN	SAND	LOOS		67 ft	98 ft
BRWN	SAND	PCKD		98 ft	125 ft
BRWN	SAND	CLAY	LYRD	125 ft	130 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
0 ft	20 ft		

Method of Construction: Cable Tool

Well Use: Domestic

Status of Well: Water Supply

Construction Record - Casing

Inside Diameter	Open Hole OR material	Depth From	Depth To
6 Inch	STEEL		116 ft
5 Inch	STEEL		130 ft

Construction Record - Screen

Outside Diameter	Material/X	Depth From	Depth To
6 Inch		113 ft	120 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 4743

Results of Well Yield Testing

	Draw Down Time (min)	Draw Down Water level	Recovery Time (min)	Recovery Water level
After test of well yield, water was: CLEAR	SWL	98 ft		
If pumping discontinued, give reason	1			
Pump intake set at	2			
	3			
Pumping Rate: 10 GPM	4			
Duration of Pumping: 2 h:0 m	5			
Final water level: 108 ft	10			
If flowing give rate	15			
	20			
Recommended pump depth: 115 ft	25			
Recommended pump rate: 8 GPM	30			
Well Production: BAILER	40			
Disinfected?	45			
	50			
	60			

Water Details

Water Found at Depth	Kind
98 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: *none*
Date Well Completed: October 21, 1992
Date Well Record Received by MOE: December 03, 1992

-81
3 03E

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 | 1906265 | MUNICIP. 19009 | CON. Con. 04

COUNTY OR DISTRICT	Durham
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	Scugog
CON., BLOCK, TRACT, SURVEY, ETC.	IV
LOT	001
OWNER (SURNAME FIRST)	MUN. OF DURHAM, Regional Municipality
ADDRESS	105 Consumers Dr.
DATE COMPLETED	DAY 30 MO Oct YR 81

21 | ZONE 17 | EASTING 654800 | NORTHING 4880000 | RC 4 | ELEVATION 1200 | RC 5 | BASIN CODE 2H

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
Brown	Sand				
Brown	Sand			0	21
Brown	Sand		Medium	21	30
Brown	Clay	Sand		30	57
Brown	Sand		Fine	57	75
Brown	Sand		Medium - Fine	75	99

31 | 0021628 | 0030609 | 0057605028 | 0075608 | 0099608578

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0075	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 6¼"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0	0085
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
012	06000 INCHES	14 FEET

MATERIAL AND TYPE: Stainless Steel — DEPTH TO TOP OF SCREEN: 0082' FEET

61 PLUGGING & SEALING RECORD

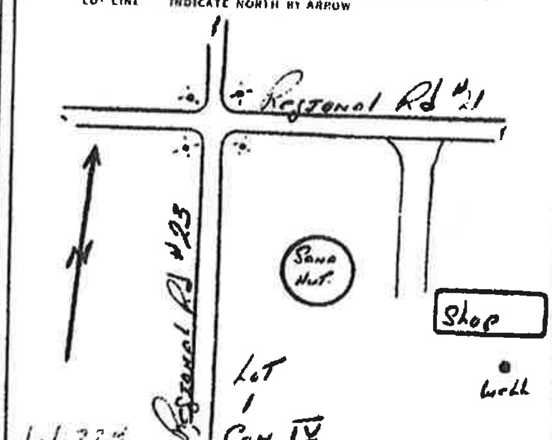
DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE	0030 GPM
DURATION OF PUMPING	12 HOURS 00 MINS
STATIC LEVEL	065 FEET
WATER LEVEL END OF PUMPING	085 FEET
WATER LEVELS DURING	1 ☒ PUMPING 2 ☐ RECOVERY
15 MINUTES	070 FEET
30 MINUTES	078 FEET
45 MINUTES	085 FEET
60 MINUTES	085 FEET
IF FLOWING GIVE RATE	GPM
PUMP INTAKE SET AT	FEET
WATER AT END OF TEST	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	☐ SHALLOW ☒ DEEP
RECOMMENDED PUMP SETTING	095 FEET
RECOMMENDED PUMPING RATE	0030 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 1.1.229

FINAL STATUS OF WELL 1	1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED
WATER USE 05	1 ☐ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☒ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED
METHOD OF DRILLING 1	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	Kawartha Well Drillers
LICENCE NUMBER	3136
ADDRESS	RR#1 Janetville Ont.
NAME OF DRILLER OR BORER	D. Fisher
LICENCE NUMBER	2121
SIGNATURE OF CONTRACTOR	D. Byrne
SUBMISSION DATE	DAY 4 MO Nov YR 81

OFFICE USE ONLY

DATA SOURCE	1
CONTRACTOR	3136
DATE RECEIVED	08 01 82
DATE OF INSPECTION	
INSPECTOR	
REMARKS	

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FORM NO. 0506-4-77 FORM 7

Ontario — Ministry of the Environment

The Ontario Water Resources Act 31035.

WATER WELL RECORD

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

(11) 1906375 Municip. 19009 Con. Con 05

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	[redacted] TWP. (Reach)	Con 5	001

[redacted]R. # 3 UXBRIDGE ONT.

DATE COMPLETED: DAY 30 MO 03 YR 82

80150 RC 5 ELEVATION 1175 RC 5 BASIN CODE 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
			PIT	0	3
BROWN	SAND	PEBBLES	LOOSE	3	26
BROWN	GRAVEL		DRY- LOOSE	26	34
BROWN	SAND	GRAVEL	DRY- LOOSE	34	87
BROWN	SAND		MEDIUM- LOOSE	87	110

MOE VF-18

(31) 0003 23 | 0026 28 1277 | 0034 11 6877 | 0087 28 1177 | 0110 28 77

(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0087-113	☒ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL
	☐ FRESH ☐ SULPHUR ☐ SALTY ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06	☒ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	.188	0	0110
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
010	06000 INCHES	03 FEET

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN
S. STEEL	0110 FEET

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) PUMPING TEST

PUMPING TEST METHOD: ☐ PUMP ☒ BAILER

PUMPING RATE: 0010 GPM

DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
084 FEET	093 FEET	093			093 FEET

WATER LEVELS DURING: ☒ PUMPING ☐ RECOVERY

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: FEET

WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY

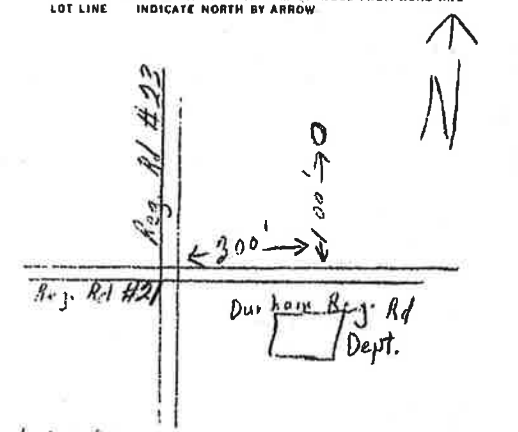
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP

RECOMMENDED PUMP SETTING: 090 (90-100) FEET

RECOMMENDED PUMPING RATE: 0008 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 1.1.291

FINAL STATUS OF WELL 1

☒ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED, INSUFFICIENT SUPPLY ☐ ABANDONED, POOR QUALITY ☐ UNFINISHED

WATER USE 01

☒ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING 1

☒ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☐ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: E.S. WELL DRILLING — LICENCE NUMBER: 4738

ADDRESS: GOODWOOD ONT.

NAME OF DRILLER OR BORER: EARL SAUDER — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Earl Sauder — SUBMISSION DATE: DAY 30 MO 3 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 4738 — DATE RECEIVED: 13 08 82

DATE OF INSPECTION: — INSPECTOR: -

REMARKS: CSS.58

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FORM NO. 0506-4-77 FORM 7