

MEMORANDUM

Ainley Graham & Associates Limited 139 Front Street Unit 100, Belleville, ON K8N 2Y6 Tel: (613) 966-4243 P Fax: (613) 966-1168

То:	Greg Pinchin	Copy to:	File		
From:	Adam Wilson				
Date:	September 30, 2020				
Ref:	174 Maitland Drive Draft Plan Application	on – Hydroge	eology Memo	File:	19628-1

Background:

Quinte Broadcasting Ltd. is proposing a Draft Plan of Subdivision on the south side of Maitland Drive, west of Highway 62 and immediately east of Deerfield Park Subdivision (**Figure 1**). It is proposed to develop the land with thirty-six (36) single family residential units and sixty-one (61) townhouse units as shown in **Figure 2**. The purpose of this memo is to provide a review of Hydrogeology for the study area and any potential impacts to surrounding residents from the proposed draft plan.

Existing Conditions:

The subject property is 4.84 hectares (ha) in size, and is mostly vacant and treed; the only structures on the property are a transmitting tower and building, which are proposed to be removed for the development. The topography on the site gently slopes to the southeast. Soils within the subject site have been identified as Solmesville Clay Loam and Farmington Loam (**Figure 3**; Gillespie et al., 1962). Geological mapping of the area identifies bedrock as interbedded limestone and calcareous shale of the Verulam Formation (Chapman and Putnam, 1984). No outcrops in the immediate area have been reported.

Surrounding Wells:

The Ontario Ministry of the Environment, Conservation and Parks (MECP) interactive Water Well Records Database was used to identify existing wells and view the well records for the area (**Appendix A**). There are no existing wells on the subject property. Well records in the vicinity of the subject property identify bedrock as shale and / or grey limestone, consistent with the geological mapping for the area. The depth to bedrock identified in the well records ranges from 1.8 to 3.1m below ground surface. The soils identified in the records include clay, clay loam, clay gravel, and sand / gravel, which is consistent with the soils mapping for the area. The depth to bedrock identified in the soils mapping for the area.

ground surface (MECP, 2020).

The majority of developments surrounding the subject property (i.e. Lowe's, Deerfield Park Subdivision, Settler's Ridge Subdivision) are connected to the Municipal watermain. There is a 400mm diameter watermain under Maitland Drive that is available for connection to service the proposed subdivision at 174 Maitland Drive. There are only six (6) known well users within the vicinity of the subject property: 143, 149, 154, 156, 161, and 187 Maitland Drive. These properties are located to the north, northwest, and west of the subject property, and are therefore all upgradient from the development.

Proposed Conditions:

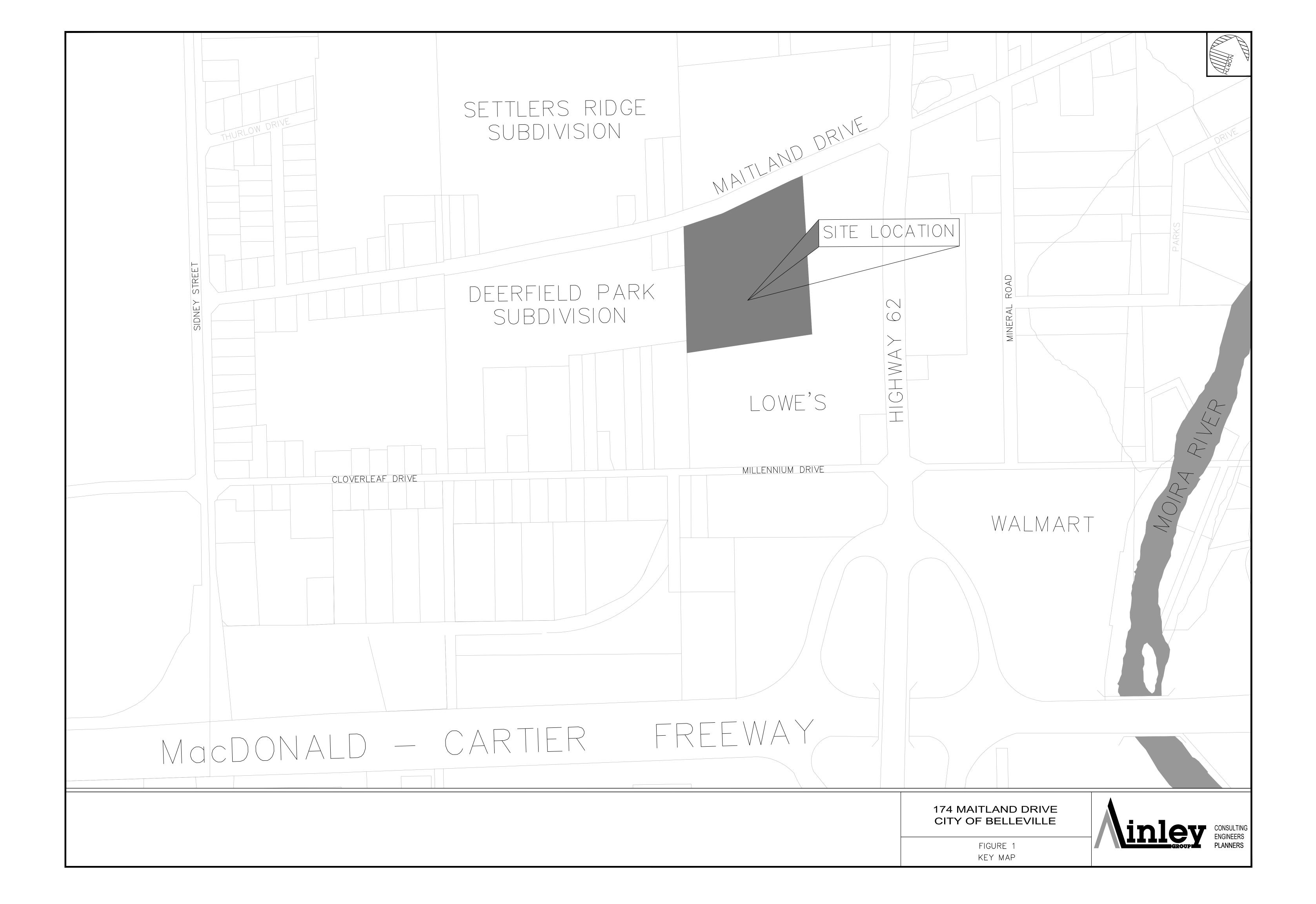
The proposed subdivision will be serviced with new Municipal watermain and sanitary sewer, to be connected to the existing mains under Maitland Drive (i.e. no new wells or septic beds are required). Further, the six identified drinking water wells near the proposed development are all located upgradient from the site. Therefore, the proposed development is not anticipated to impact the surrounding wells.

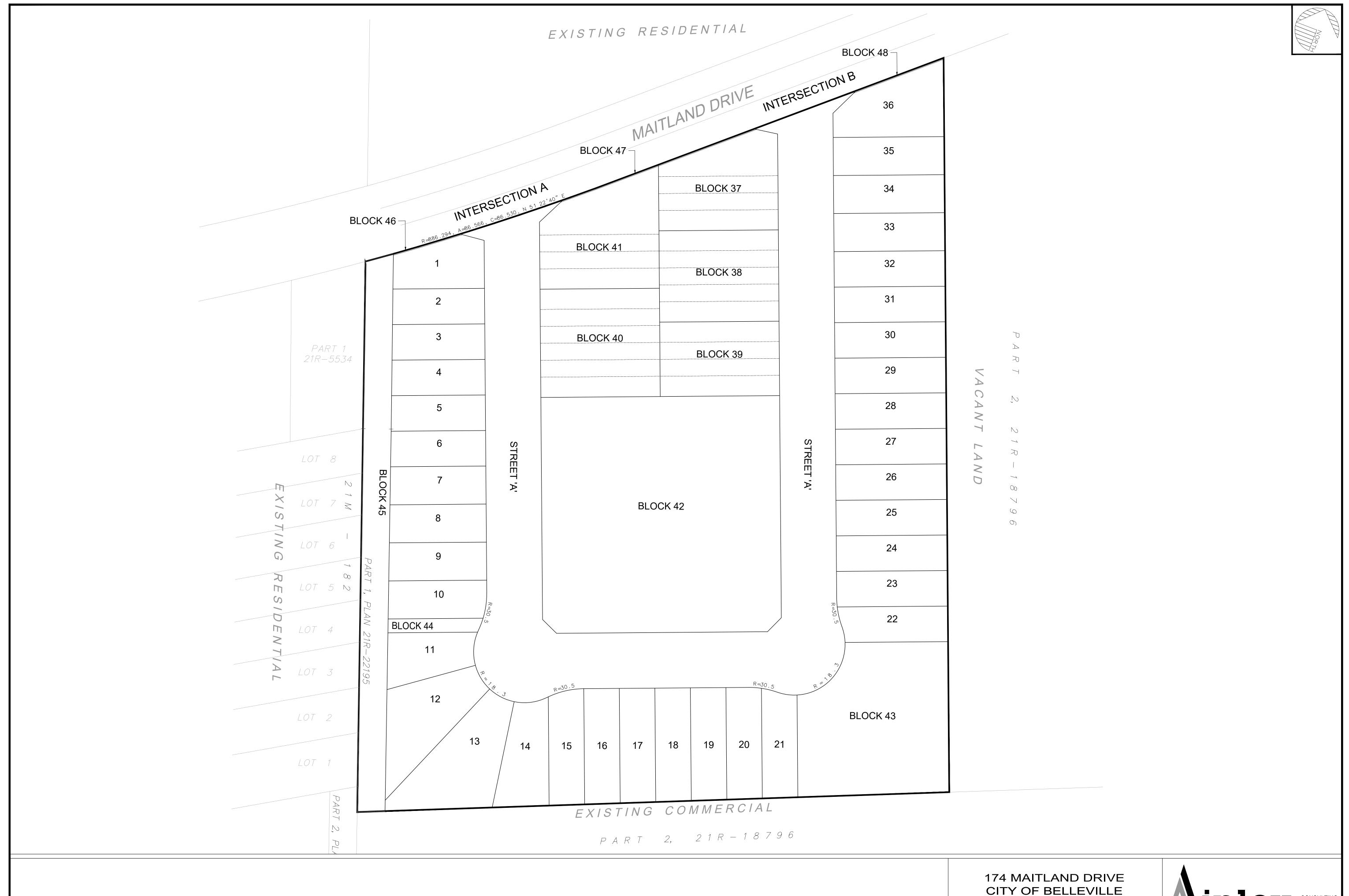
References:

Chapman, L.J., and Putnam, D.F, 1984. The Physiography of Southern Ontario, 3rd Edition, Ontario Geological Survey.

Gillespie, J.E., Wicklund, R.E., and Richards, N.R., 1962. *The Soils of Hastings County*. Report No. 27 of the Ontario Soil Survey. Research Branch, Canada Department of Agriculture and the Ontario Department of Agriculture.

Ontario Ministry of the Environment, Conservation and Parks, 2020. Interactive Water Well Records Database. <u>https://www.ontario.ca/environment-and-energy/map-well-records</u> Site accessed March 30, 2020.

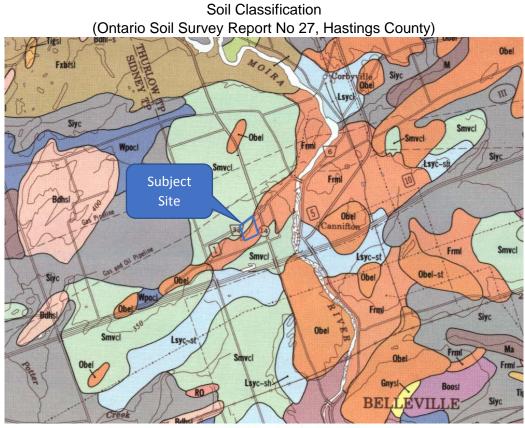




CITY OF BELLEVILLE

FIGURE 2 CONCEPT PLAN





CONVENTION

Map symbol, surface texture, soil phase - Map symbol, surface texture, soil phase

OOL TEATOILE	SOIL	TEXTURE
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clay loam

sandy loam silt loam

fine sandy loam

gravelly sand

loamy sand

clay

loam

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sl

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fsl

gs Is

SOIL PHASE

bouldery rock outcrop steep shallow

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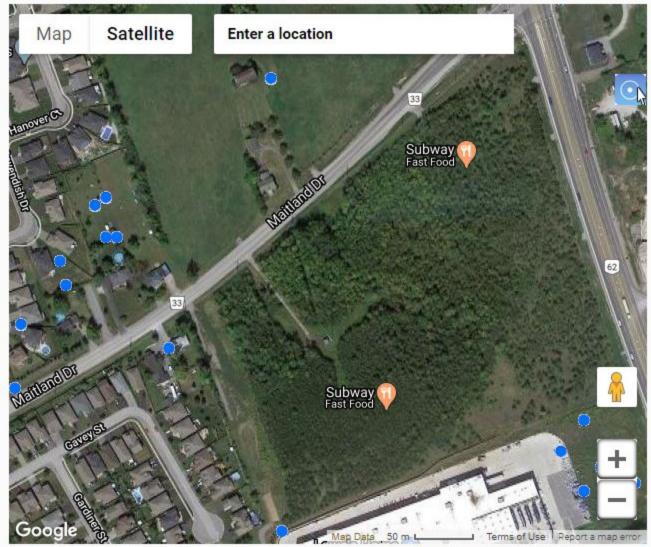
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shallow stony

Eok	ELMBROOK	Gray-Brown Podzolic	Imperfect
Frm	FARMINGTON	Brown Forest	Variable
Fxb	FOXBORO	Dark Gray Gleysolic	Poor
Siy	SIDNEY	Dark Gray Gleysolic	Poor
Smv	SOLMESVILLE	Gray-Brown Podzolic	Imperfect
Str	ST PETERS	Podzol	Good to excessive

APPENDIX A MECP Well Records



Latitude:44.20065, Longitude:-77.40777 (UTM Zone:18, Easting:307609, Northing:4896977)

(9) VIATER F Di No E Z UTM 1 N e Ontario Water Resources Commission Act QR 31 51 R **E(C(**) Elev. D K₿ Township, Village, Town or City Date completed C Lot Con. ress **Pumping Test Casing and Screen Record** 6 14 " 30 11 Inside diameter of casing..... Static level 0 G.P.M. Test-pumping rate Total length of casing. Pumping level Type of screen / Duration of test pumping..... Length of screen ″ 🛯 Water clear or cloudy at end of test.... Depth to top of screen..... 14 G.P.M. Recommended pumping rate 11 0 6 Diameter of finished hole. 55 with pump setting of..... feet below ground surface Water Record Well Log Depth(s) at Kind of water From То which water(s) (fresh, salty, Overburden and Bedrock Record ft. ft. found sulphur) 60 Location of Well For what purpose(s) is the water to be used? In diagram below show distances of well from hew have L road and lot line. Indicate north by arrow. Is well on upland, in valley, op on hillside? Drilling or Boring Firm. Address Licence Number. Name of Driller MALL Address Date icensed Drilling or Boring (Signature Form 7 15M-60-4138 **CSS.S8** OWRC COPY

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PHAN	LIMES	TONE								5.79	7,31
GREY	LIMES	STONE								7.31	15.24
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					Casing			(metres)	Level		
			-	Steel Fibreglass			0.4.1	Pumping rate - (litres/min)	$K^1 \Psi$		
	Vater Reco	ard	5.0	Plastic Concrete		0	9,14	Duration of pumping	2	2	
Water foun at <u>74.9</u> Metr		d of Water						hrs + min		,	
m at <u>mark</u> wet	Fresh	Sulphur		Steel Fibreglass				Final water level end	3	3	
	Salty			Galvanized				of pumping metres			
				Steel Fibreglass				Recompleted pump type.		4	
Gas	Fresh	Sulphur Minerals		Plastic Concrete				Shallow Deep	X./	5	****
Other:				Galvanized				depthmetres			
	Fresh	Sulphur		· · · · · · · · · · · · · · · · · · ·	Screen)		Recommended purse	10	10	
Gas	Salty	Minerals	Outside	Steel Fibreglass	Slot No.			rate. (litres/min)	15	15	
Other:		····-+	diam	N Plastic Concrete		9.14	15.24	If flowing give rate -	20	20	
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Clear and sediment free Content free Content free Content free No Casing or Screen								ued, give reason.	40	30 40	
									50	50	*****
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[Plugging and Sealing Record X Annular space Abandonment Location of Well										
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Domesti	c	Industri		Public Supp	ly 🔀	Other		PITLIL	and pr		
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Business A	ONET ddress (stree	t name, numb	${2}$	NES	6687	2	Date Received	YYYY MM DD Date	e of Inspection Y	/YY	
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Instructions	for Completi	ing Form		A055865 page						of	
 For use i All Section Question 	 For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference. All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form. Questions regarding completing this application can be directed to the Water Well Help Desk (Toll Free) at 1-888-396-9355. All metre measurements shall be reported to 1/10th of a metre. 										
		lue or black ink onl		Ministry Use Only							
	's Information	n and Location o	f Well Information	MU		CON			LOT		
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5.8

Grey

White

Limestone

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Grey		Limesto	one			Ha	rd			7.3	3	15.2
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				XPlastic Concrete	JCH • 40	- T III	13.2	(litres/min) Duration of pumping				
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Other:		· <u>·</u> · · · ·		Steel Fibreglass				Recommended pump type.	4		4	
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Other:				Galvanized				depthmetres				
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Chlorinated	🗌 Yes	🗌 No		Open hole					50 60		50 60	
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2903 9 R Elev. 1918 110131514 The Water-well Drillers Act, 1954 GENELUCIAL (I ...INEX PYPARTNENT **Department** of Mines Basin 1214 Water-Well Record ddress BB#5 Bellinica (month) (year) (day) **Pumping Test** Pipe and Casing Record Length(s) Length of screen Water Record Well Log Depth(s) at which Kind of water No. of feet То (fresh, salty, or sulphur) From Overburden and Bedrock Record water(s) water rises ft. ft. found 21 21 2 CRESH GRAVE BW For what purpose(s) is the water to be used? Location of Well 1. f. torotecher Acked In diagram below show distances of well from Is water clear or cloudy?..... road and lot line. Indicate north by arrow. Is well on upland, in valley, or on hillside? Tr. C. K. Fr. For for Drilling firm Address Dor 231 Address Castle Cont Licence Number A.S. Co I certify that the foregoing statements of fact are true. 11 - 2 Like 2 2 La to get in VY Date..... Signature of Licensee CSS.88 . X

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Well Owner's Information a	-	Well Infor	mation	MUN	CO			LOT		
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County/District/Municipality	Townshi	p/City/Town	Village	Pro	vince Posta	I Code Telep		include area code)		
Address of Well Location (County/D	V. ·	STH YOF	and the second se	Vnship	ntario M2	N 6L9 Lot	Conce	ssion		
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Hole Diameter		Const	truction Reco	ord			t of Well Yield			
From To Centimetres	Inside diam Mat	terial	Wall thickness	Depth	Metres	Pumping test method	Draw Down Time Water Leve	Recovery Time Water Level		
	centimetres		centimetres	From	То	ABANDONED	min Metres	min Metres		
			Casing			(metres)	Static Level			
		Fibreglass	11			Pumping rate - (litres/min)	1	1		
Water Record	3.4 Plastic	Concrete	.4			Duration of pumping	2	2		
Water found at Metres Kind of Water		Fibreglass				hrs + min				
m Fresh Sulphur		Concrete				Final water level end of pumping metres	3	3		
Gas Salty Minerals	Galvani					Recommended pump	4	4		
m Fresh Sulphur		Fibreglass Concrete				type. Shallow Deep Recommended pump				
Gas Salty Minerals	Galvani	_				depthmetres	5	5		
m Fresh Sulphur			Screen			Recommended pump rate.	10	10		
Gas Salty Minerals	Outside diam	Fibreglass	Slot No.			(litres/min) If flowing give rate -	20	15 20		
After test of well yield, water was	4.5	Concrete	1.6	10.66	18.74	(litres/min)	25	25		
Clear and sediment free	3.8 Galvani		0			If pumping discontin- ued, give reason.	30	30		
Other, specify			asing or Scr	een			40	40		
Chlorinated Yes No	Open h	ole				L	60	60		
Plugging and Sea	aling Record	Annula		andonment		Location				
From To Material and type	e (bentonite slurry, neat	cement slurry)		e Placed c metres)	In diagram below Indicate north by	v show distances of well fr / arrow.		10		
O 18.74 BENTIONI	TE CLAY	1069	0	297			HWY	62 11		
						4	8+25m+			
							T			
						27	20m			
M	ethod of Construc	tion			CON.3		1053	1074		
Cable Tool Rotary (a		Diamond		Digging Other						
Rotary (conventional) Air percu Rotary (reverse) Boring	ussion	Jetting Driving		Joiner	-					
	Water Use					NNIUM PARKWAY				
Domestic Industria Stock Commer		Public Supp	iy L] Other	CON.2					
Irrigation Municipa			ir conditioning		Audit No. Z	59835	te Well Completed	YY MM DD		
Water Supply Recharge we	Dete Delivered									
Observation well Abandoned,	nsufficient supply	Dewatering			package delivere	ed? Yes X No				
Test Hole Abandoned, p Well Cont	ractor/Technician	Replacement Informatio	and the second se			Ministry Us	and the second design of the s			
Name of Well Contractor		W	ell Contractor's I	icence No.	Data Source	Co	ontractor			
Business Address (street name, number		1	7070		Date Received	OVV2000 MM DD Da	te of Inspection	YYYY MM DD		
194 PRINCE EDWAR	20 ST BR	IGHTON	ell Technician's	Licence No	Remarks		ell Record Number			
CROWE, JOHN			T-7280	2	nemarks					
Signature of Technician/Contractor		Dat	te Submitted yyyy	MM DD						
0506E (08/2006)				try's Copy	· · · · · · · · · · · · · · · · · · ·	Cette	formule est disp	onible en français		

😵 Onta	Ontario Ministry of the Environ			Well Tag	Number	mber A 0533		328			Well Record Ontario Water Resources Act			
	iii ii	le Environ	iment	Δ	05770	20		Regulation 90	3 Onta		1	of		
Instructions for Completing Form For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.														
 All Sections mu 	ust be com arding com	pleted in f pleting thi	ull to avoi s applicat	d delays ion can	in processir be directed	ng. Further in to the Wate	structions and	ease retain for futu explanations are av esk (Toll Free) at	/ailable	on the bac	ck of t	his form.		
 Please print cle 	early in blue	e or black	Ministry Use Only											
Well Owner's Info	ormation a	Last Name		/ell Info	rmation	MUN ailing Address		r/Name, RR,Lot,Cor	icessio					
Low	ovince Postal Code Telephone Number (include area code)													
County/District/Municipality Township/City/Town/Village							Ontario M2N 6L9							
Address of Well Locat	nicipality)				URLOW Lot.			Conces	ssion	3				
RR#/Street Number/N	lame		City/Town/Vil											
	AD Zone	e Eastin	g	Northing Unit Make/Mo			del Mode		ndifferent		Avera	ged		
Elog of Overburde	and Be		7824			GARMIN	165SX	D	ferentiat	ed, specify	_			
	ost common			Other Ma			General	Description		Dept		Metres To		
			ABA	NDO	NMEN	77	MW1							
				1					_					
				-						Nell Vield				
Hole Diamer	Diameter	Inside		Cons	truction Rec Wall	Depth	Metres	Pumping test metho	d Dr	well Yield	_	ecovery		
From To	Centimetres	diam	Mate	rial	thickness	From	То	ABANDONED	Time min	Water Level Metres	Time min	Water Level Metres		
		Centimetres		-	Casing			Pump intake set at (metres)	Static					
			Steel	Fibreglass	- t			Pumping rate - (litres/min)	1		1			
Water Reco	urd	3.4	Plastic Galvanize		.4	.30	5.6	Duration of pumping	2		2			
Water found	d of Water			Fibreglass				hrs + n Final water level en	-		-			
Gas Salty	Sulphur Minerals			Concrete				of pumpingmetr	-3		3			
Other:			Galvanize	Fibreglass				Recommended purr type,			4			
Gas Salty	Sulphur Minerals		Plastic	Concrete				Shallow De Recommended pur	p 5		5			
M Fresh	Sulphur		Galvanize	xd	Screen			depthmetr			10			
Gas Salty	Minerals	Outside	Steel	Fibreglass				rate, (litres/min) If flowing give rate -	15		15			
After test of well yield,	water was	diam	Plastic		10	5.6	18.28	(litres/min)	20		20 25			
Clear and sediment free 3.8			Galvanize		10 Casing or Sc	roop		If pumping discontin- ued, give reason.	30		30 40	2		
			Open hol		Jasing or Sc	reen			50		50			
	No	L			X				60		60			
Plugging and Sealing Record Annular space Abandonment Depth set at - Metres Material and type (bentonite slurry, neat cement slurry) etc. Volume Placed (cubic metres)							Location of Well In diagram below show distances of well from road, lot line, and building.							
From To Material and type (benchine shurty, near center shurty) etc. (cubic metres) O 18.28 BENTONITE CLAY 100% 0158							Indicate north by	arrow.		TN 1				
								8 350						
				_				Î		LOT 3	1	151		
								2001		LOIS		LOT 4		
Method of Construction							CON.3							
Cable Tool Rotary (air) Diamond Digging Air percussion Jetting Other							MILLENNIUM PARKWAY							
Rotary (reverse) Boring Driving														
Water Use Domestic Industrial Public Supply Other							CON-2 HWY 62							
Stock Commercial Not used Irrigation Municipal Cooling & air conditioning							Audit No. Date Well Completed							
Final Status of Well Z 59830 2008 04											MM DD 04 14			
Water Supply Recharge well Unfinished X Abandoned, (Other) Observation well Abandoned, insufficient supply Dewatering Test Hole Abandoned, poor quality Replacement well								Was the well owner's information Date Delivered yyyy MM DD package delivered? Yes Yes Yes						
Test Hole	Ministry Use Only													
Name of Well Contracto		Deul	Data Source Contractor											
Business Address (stree	ber, city etc.)						Date Received DYYZOUG MM DD Date of Inspection YYYY MM DD							
194 RINCE Name of Well Technicia	an (last name,	first name)	DKIG	BRIGHTSN Well Technician's Licence No.				Remarks Well Record Number						
Signature of Fechnicitan	VContractor			D	T-238 ate Submitted yyy	YY MM DD								
X 100- 1000 2008 104121								Cett	e formi	ile est disp	onible	en français		
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