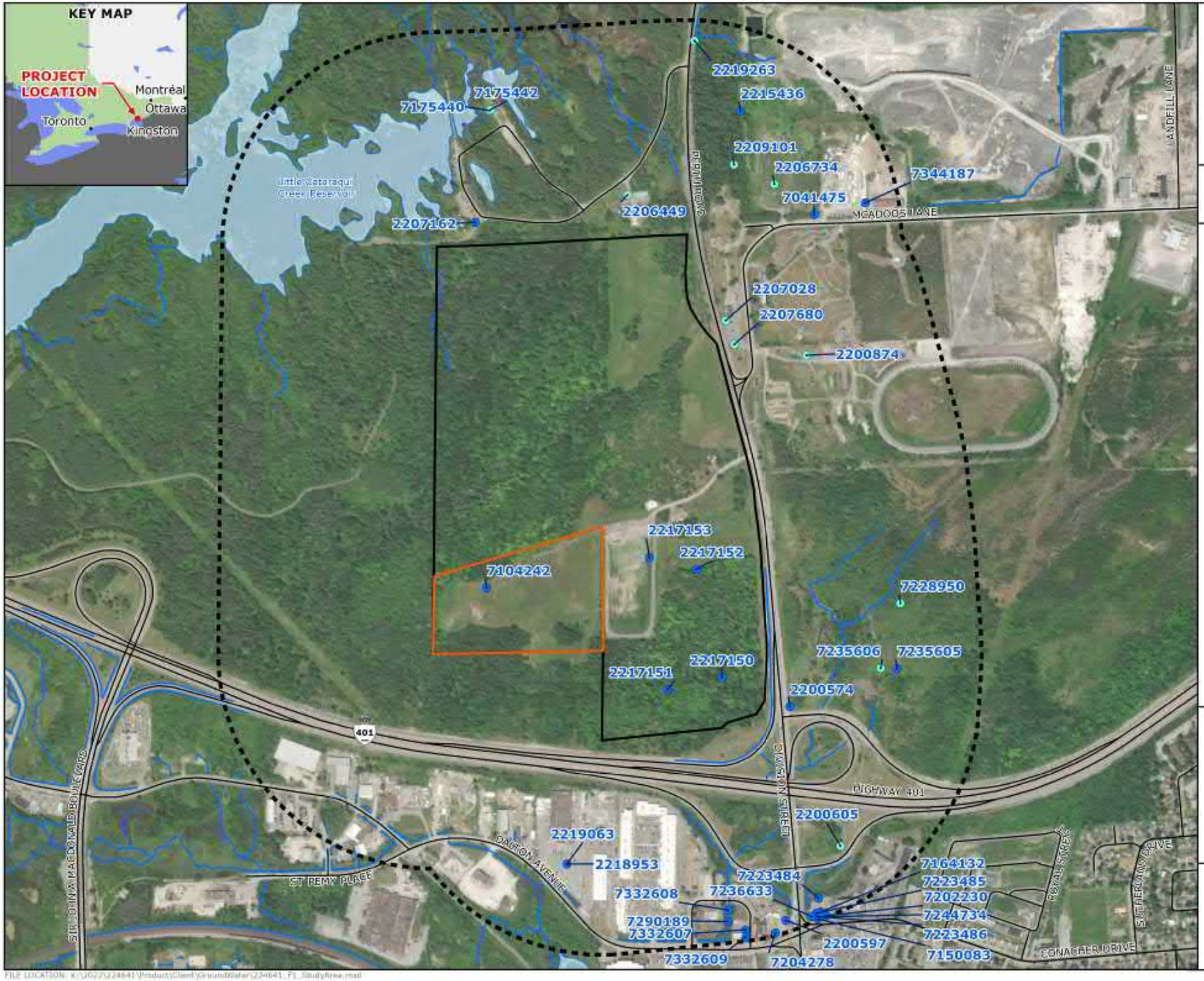
Appendix A1

Hydrogeology Figures

DILLON CONSULTING



KNOX FARM

HYDROGEOLOGICAL INVESTIGATION

HYDROGROLOGY CONDITIONS MEMO

STUDY AREA

FIGURE 1

- Knox Farm Property
- Study Area (500m Buffer)
- Proposed Site Location
- Groundwater Supply Well
- Monitoring Well or Unspecified in Water Well Record
- Road

City of Kingston, 2022

- Watercourse
- Waterbody

SCALE 1:8,500

0 220 440 m

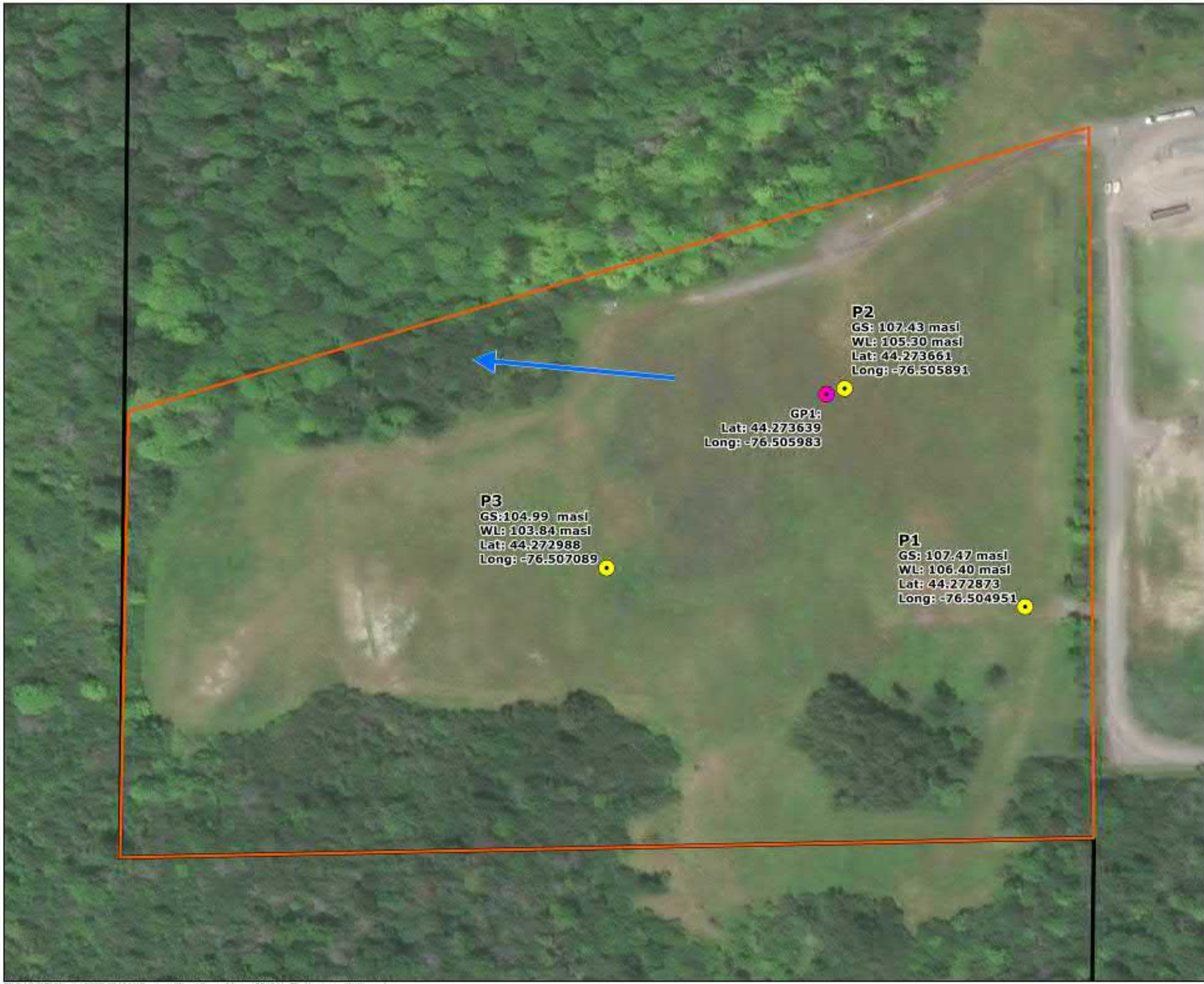
MAP DRAWING INFORMATION: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
DATA PROVIDED BY: DILLON CONSULTING LIMITED, MNRF, CITY OF KINGSTON, Ontario Ra. 903 Water Well Information System

MAP CREATED BY: RB/LMM
MAP CHECKED BY: -
MAP PROJECTION: NAD 1983 CSRS UTM Zone 18N

DILLON CONSULTING

PROJECT: 22-4641
STATUS: DRAFT
DATE: 2023-03-01

FILE LOCATION: K:\J022\224641\Product\Client\GroundWater\224641_F1_StudyArea.mxd



KNOX FARM

HYDROGEOLOGICAL INVESTIGATION

HYDROGROLOGY CONDITIONS MEMO

MONITORING WELLS

FIGURE 2

- Property Boundary
- Proposed Site Location
- Monitoring Well
- Guelph Permeameter
- Shallow Aquifer Groundwater Flow Direction

Notes:
Water level measured on November 7, 2022.
masl - Metres Above Sea Level
GS - Ground Surface
WL - Water Level

SCALE 1:1,500

0 30 60 m

MAP DRAWING INFORMATION:Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
DATA PROVIDED BY: DILLON CONSULTING LIMITED, MNRF, CITY OF KINGSTON, Ontario Ba. 903 Water Well Information System

MAP CREATED BY: RB/LMH
MAP CHECKED BY: -
MAP PROJECTION: NAD 1983 CSRS UTM Zone 18N

DILLON CONSULTING

PROJECT: 22-4641
STATUS: DRAFT
DATE: 2022-11-28

FILE LOCATION: K:\2022\224641\Product\Client\GroundWater\224641_F2_MonitoringWells.mxd

Appendix A2

Water Well Records

DILLON CONSULTING

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

2217153

11 Bore Hole #4

Municipality 22009 Con. CON. 03

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Frontenac	Kingston (Kingston Twp)	3 13R5238	23 24

Owner's surname	First Name	Address	Date completed (day month year)
City of Kingston ([redacted]		126 Ontario St, Kingston	17 06 01

21 Zone | Easting | Northing | RC | Elevation | RD | Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	CLAY			0	3
Blue	LIMESTONE			3	17
Green	"			17	22
Green Grey	"			22	25
Blue	"			25	74
Green	LIMESTONE			74	

31

32

41 WATER RECORD

Water found at - feet	Kind of water
	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	Depth - feet To
6 1/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	3/16	0	78"
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Size of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer

Pumping rate GPM

Duration of pumping Hours Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☐ Recovery			
		15 minutes	30 minutes	45 minutes	60 minutes
77' feet	feet	feet	feet	feet	feet

NO PUMP TEST

If flowing give rate GPM

Pump intake set at feet

Water at end of test ☐ Clear ☐ Cloudy

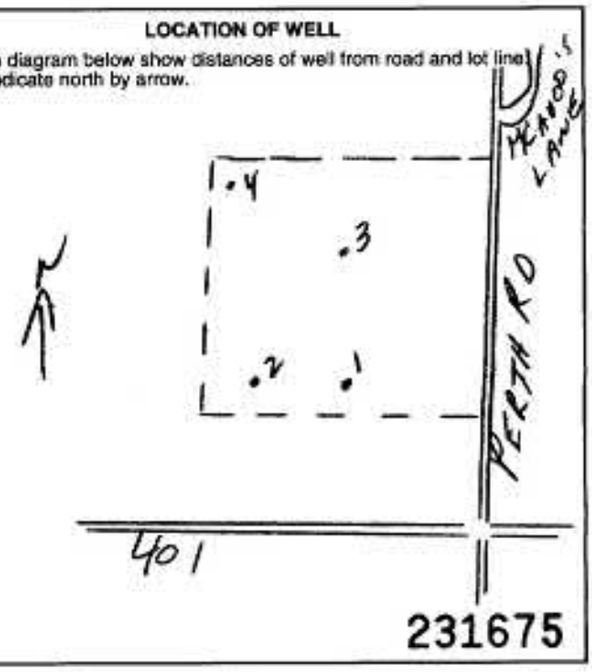
Recommended pump type ☐ Shallow ☐ Deep

Recommended pump setting feet

Recommended pump rate GPM

LOCATION OF WELL

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



231675

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 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

MONITOR

WATER USE

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☑ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not used
10 ☐ Other

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
10 ☐ Digging
11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
Jack Knox Well Drilling Ltd	3202
Address: Glenburnie Ontario	
Name of Well Technician: John Knox	Well Technician's Licence No. T2379
Signature of Technician/Contractor: Ron Knox	Submission date: day mo yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	3202	JUL 13 2001
Date of inspection	Inspector	
Remarks		CSS ES1

2 - MINISTRY OF THE ENVIRONMENT COPY

0506 (07/00) Front Form 9

Ontario — Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

2217152

Municipality: 22009 Con: CON 03

BORE HOLE #3

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Frontenac	Kingston (Kingston Twp)	3 13R5238	23 & 24

Owner's surname	First Name	Address	Date completed (day month year)
City of Kingston c[redacted]		126 Ontario St, Kingston	17 06 01

Zone | Easting | Northing | RC | Elevation | RC | Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BROWN	CLAY			0	7'6"
BLUE	LIMESTONE			7'6"	17
GREEN	"			17	19
BLUE	"			19	47
GREEN GREY	"			47	51
BLUE	LIMESTONE			51	

WATER RECORD

Water found at - feet	Kind of water
	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

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4"	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	3/16"	0	48"
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Slots of opening (Slot No.)	Diameter inches	Length feet

Material and type	Depth at top of screen feet

PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)

PUMPING TEST

Pumping test method	Pumping rate GPM	Duration of pumping Hours Mins
1 ☐ Pump 2 ☐ Bailer		

Static level feet	Water level end of pumping feet	Water levels during 1 ☐ Pumping 2 ☐ Recovery			
6'6"		15 minutes feet	30 minutes feet	45 minutes feet	60 minutes feet

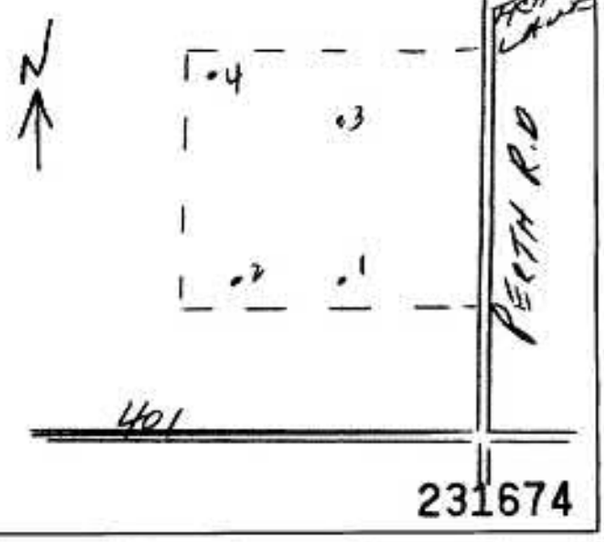
PUMP TEST

If flowing give rate	Pump intake set at	Water at end of test
NO GPM	feet	☐ Clear ☐ Cloudy

Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☐ Deep	feet	GPM

LOCATION OF WELL

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



231674

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 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

MONITOR

WATER USE

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☑ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not use
10 ☐ Other

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
10 ☐ Digging
11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
Jack Knox Well Drilling Ltd	3202
Address: Glenburnie Ontario	
Name of Well Technician: John Knox	Well Technician's Licence No. T2879
Signature of Technician/Contractor: Jon Knox	Submission date: day mo yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	3202	JUL 13 2001

Date of inspection | Inspector

Remarks: SS.ES1

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario Ministry of the Environment

Well Tag No. (Affix Sticker and/or Print Below)
A 060420

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name	E-mail Address	☐ Well Constructed by Well Owner
City of Kingston			

Mailing Address (Street Number/Name, RR)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
216 Ontario St.	Kingston	ONT.	K7L2Z3	6135464291

Part A Construction and/or Major Alteration of a Well

Address of Well Location (Street Number/Name, RR)	Township	Lot	Concession
1645 Perth Rd.	Frontenac	23+24	#3

County/District/Municipality	City/Town/Village	Province	Postal Code
City of Kingston	Kingston	Ontario	

UTM Coordinates	Zone	Easting	Northing	GPS Unit Make	Model	Mode of Operation
NAD 83	18	379965	4903334	Garmin		☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	To
Brown	Clay	Sand	Dense	0	2.74
Gray	Limestone	Shale		2.74	17 m
		Four Monitoring Well			

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Placed (Cubic Metres)
0	1.52	Bentonite chips	
1.52	7.62	Bentonite Slurry	

Method of Construction

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

Water Use

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

Status of Well

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

Location of Well

Please provide a map below showing:
- all property boundaries, and measurements sufficient to locate the well in relation to fixed points,
- an arrow indicating the North direction
- detailed drawings can be provided as attachments no larger than legal size (8.5" by 14")
- digital pictures of inside of well can also be provided

Date Well Completed (yyyy/mm/dd)	Was the well owner's information package delivered?	Date the Well Record and Package Delivered to Well Owner (yyyy/mm/dd)
2008 02 22	☐ Yes ☒ No	2008 03 14

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
G.E.T. Drilling LTD.	7085

Business Address (Street No./Name, number, RR)	Municipality
RR#6	Napanee

Province	Postal Code	Business E-mail Address
ON	K7R3L1	—

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6133547167	Harrison, Tim

Well Technician's Licence No.	Signature of Technician	Date Submitted (yyyy/mm/dd)
2251		2008 03 14

Results of Well Yield Testing

Check one if after test of well yield, water was:
☐ Clear and sand free
☐ Cannot develop to sand free state

If pumping discontinued, give reason:

Pumping test method

Pump intake set at (Metres)

Pumping rate (Litres/min)

Duration of pumping ____ hrs + ____ min

Final water level end of pumping (Metres)

Recommended pump type ☐ Shallow ☐ Deep

Recommended pump depth ____ Metres

Recommended pump rate (Litres/min)

If flowing give rate (Litres/min)

Draw Down Time (Min)	Water Level (Metres)	Recovery Time (Min)	Water Level (Metres)
Static Level		Static Level	
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

Water found at Depth (Metres)	Gas	Kind of Water
	☐	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
	☐	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
	☐	☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Casing Used	Screen Used
☐ Galvanized	☐ Galvanized
☐ Steel	☐ Steel
☐ Fiberglass	☐ Fiberglass
☒ Plastic	☐ Plastic
☐ Concrete	☐ Concrete

No Casing and Screen Used
☐ Open Hole

Disinfected?
☐ Yes ☒ No

Casing and Well Details

Diameter of the Hole (Centimetres): 7.62 cm
Depth of the Hole (Metres): 17 m
Well Thickness (Metres):
Inside Diameter of the Casing (Metres): 5.08 cm
Depth of the Casing (Metres): 7.62 m

Ministry Use Only

Audit No. Z 76803
Well Contractor No.
Date Received (yyyy/mm/dd): APR 29 2008
Date of Inspection (yyyy/mm/dd)
Remarks

Ontario Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

2217151

11

#2 BORE HOLE

Municipality: 22009 Con: CON 03

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Frontenac	Kingston (Kingston Twp)	3 BR5238	23 & 24

Owner's surname	First Name	Address	Date completed
City of Kingston (cl[redacted])		126 Ontario St. Kingston	17 06 01 (day month year)

21 — Zone | Easting | Northing | RC | Elevation | RC | Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
Brown	CLAY			0	4
Blue	LIMESTONE			4	18
Black	LIMESTONE			18	20
Blue	LIMESTONE			20	74
Green	LIMESTONE			74	77
Blue	LIMESTONE			77	

31

32

41 WATER RECORD

Water found at - feet	Kind of water
	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	Depth - feet To
6 4	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	3/16"	0	7
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Size of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

61 PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)

71 PUMPING TEST

Pumping test method	Pumping rate	Duration of pumping
1 ☐ Pump 2 ☐ Bailer	GPM	Hours Mins

Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☐ Recovery			
73 feet	feet	15 minutes feet	30 minutes feet	45 minutes feet	60 minutes feet

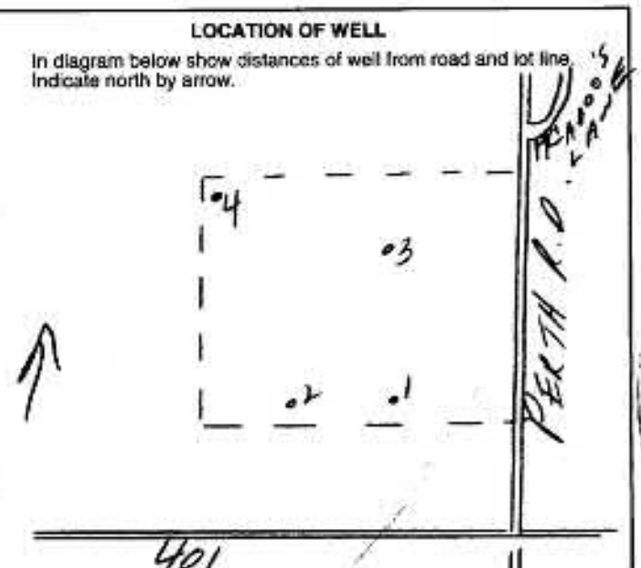
PUMP TEST

If flowing give rate	Pump intake set at	Water at end of test
GPM	feet	☐ Clear ☐ Cloudy

Recommended pump type	Recommended pump setting	Recommended pump rate
☐ Shallow ☐ Deep	feet	GPM

LOCATION OF WELL

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



231673

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 ☐ Abandoned (Other)
8 ☐ Dewatering
9 ☐ Unfinished
10 ☐ Replacement well

MONITOR

WATER USE

1 ☐ Domestic
2 ☐ Stock
3 ☐ Irrigation
4 ☐ Industrial
5 ☑ Commercial
6 ☐ Municipal
7 ☐ Public supply
8 ☐ Cooling & air conditioning
9 ☐ Not used
10 ☐ Other

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
10 ☐ Digging
11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
Jack Knox Well Drilling Ltd	3202
Address: Glenburnie Ontario	
Name of Well Technician: John Knox	Well Technician's Licence No. T2879
Signature of Technician/Contractor: Ron Knox	Submission date: day mo yr

MINISTRY USE ONLY

Data source	Contractor	Date received
	3202	JUL 13 2001
Date of inspection	Inspector	
Remarks		SS.ES1

2 - MINISTRY OF THE ENVIRONMENT COPY

0506 (07/00) Front Form 9

Ontario — Ministry of the Environment

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11

2217150

Municipality 22009 Con CON 03

BORE HOLE #1

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
Frontenac	Kingston (Kingston Twp)	3 13R5238	23 24

Owner's surname: City of Kingston (First Name: [redacted]) Address: 126 Ontario St, Kingston

Date completed: 17 (day) 06 (month) 01 (year)

21 Zone | Easting | Northing | RC | Elevation | RC | Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth - feet From	Depth - feet To
BROWN	CLAY			0	3'10"
BLUE	LIMESTONE			3'10"	74
GREEN	LIMESTONE			74	77
BLUE	LIMESTONE			77	

31

32

WATER RECORD

Water found at - feet	Kind of water
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas
	1 ☐ Fresh 2 ☐ Salty 3 ☐ Sulphur 4 ☐ Minerals 6 ☐ Gas

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4"	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	3/16"	0'	7'
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☐ Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)

PUMPING TEST

71 Pumping test method: 1 ☐ Pump 2 ☐ Bailer

Pumping rate GPM

Duration of pumping Hours Mins

Static level: 72' feet

Water level end of pumping: NO feet

Water level during: 15 minutes feet, 30 minutes feet, 45 minutes feet, 60 minutes feet

1 ☐ Pumping 2 ☐ Recovery

PUMP TEST

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 feet

Recommended pump rate GPM

FINAL STATUS OF WELL

1 ☐ Water supply
2 ☐ Observation well
3 ☐ Test hole
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8 ☐ Dewatering
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10 ☐ Replacement well

MONITOR

WATER USE

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5 ☑ Commercial
6 ☐ Municipal
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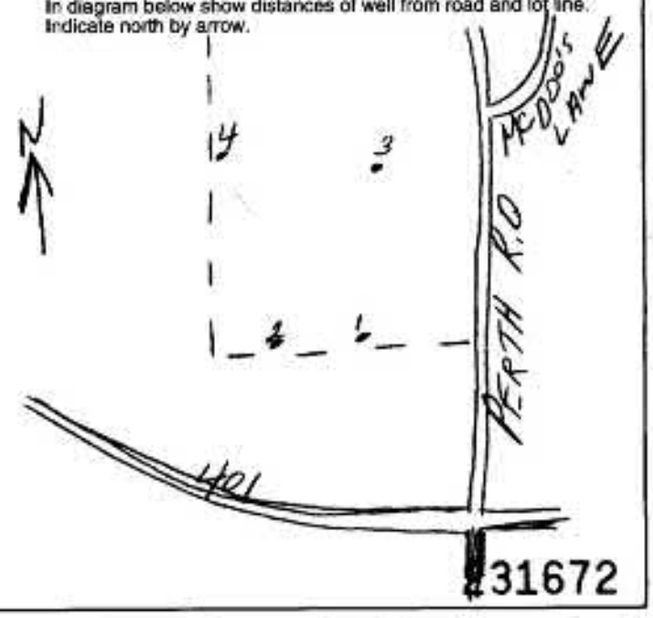
4 ☐ Rotary (air)
5 ☑ Air percussion
6 ☐ Boring
7 ☐ Diamond
8 ☐ Jetting
9 ☐ Driving
10 ☐ Digging
11 ☐ Other

LOCATION OF WELL

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



31672

Name of Well Contractor: JACK Knox Well Drilling Ltd — Well Contractor's Licence No. 3202

Address: Glenburnie, Ontario

Name of Well Technician: John Knox — Well Technician's Licence No. T2879

Signature of Technician/Contractor: Ron Knox — Submission date: day mo yr

MINISTRY USE ONLY

Date source — Contractor 3202 — Date received JUL 13 2001

Date of inspection — Inspector

Remarks: OSS.ES1

2 - MINISTRY OF THE ENVIRONMENT COPY

0506 (07/00) Front Form 9

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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

11 | 207680 | MUNICIP 22009 | LOT CON CON | P3

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	BLOCK, TRACT, SURVEY, ETC	LOT
Frontenac	Kingston	3	024

[redacted] RR8 KINGSTON ONT | DATE COMPLETED DAY 02 MO 09 YR 76

UTM ZONE 18 | 203680 | ELEVATION 0350 | 5 | 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	Earth			0'	2'
Blue	Limestone			2'	99'

31 | 0002602 | 0099315

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0035	1 ☑ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
0089	1 ☑ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6 5/8 06	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0'	25 0025
	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	PUMPING RATE GPM	DURATION OF PUMPING HOURS	MINS
1 ☐ PUMP 2 ☑ BAILER	0006	02	00

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☑ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
055' FEET	094' FEET	069 FEET	080 FEET	088 FEET	091 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 097 FEET	RECOMMENDED PUMPING RATE 0006 GPM

GPM / FT. SPECIFIC CAPACITY

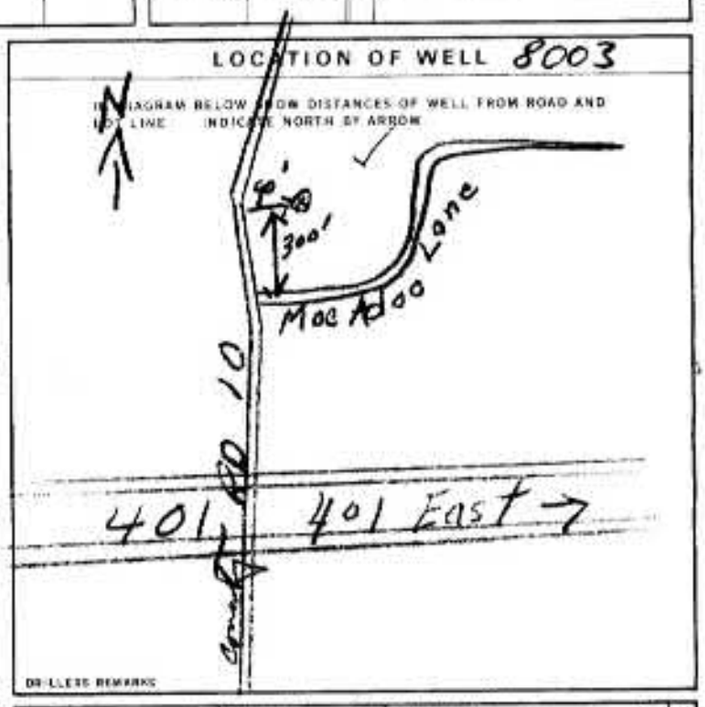
FINAL STATUS OF WELL 1
1 ☑ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 02
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

LOCATION OF WELL 8003

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



DRILLERS REMARKS

CONTRACTOR

NAME OF WELL CONTRACTOR: Jack Knox | LICENCE NUMBER: 3202
ADDRESS: Glenburnie
NAME OF DRILLER OR BORER: Ron Knox | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Jack Knox | SUBMISSION DATE: DAY 13 MO 1 YR 77

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3202 | DATE RECEIVED 180177
DATE OF INSPECTION | INSPECTOR
REMARKS: 032.58
P Th
WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

3 c / 7a

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

11 | 2201028 | MUNICIP. 22009 | CON. CR W

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Frontenac	Kingston	3 CRW	011 ~~245~~

[redacted] 91 Wiley St. Kingston — DATE COMPLETED: DAY 14 MO. 01 YR. 75

2201028	18	380180	4903735	4	380	5	24	MAR 28, 1977	243

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Brown	Earth			0'	2'
Blue	Limestone			2'	122'

31 | 0002602 | 0122315

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
053	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
086	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0'	25
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☑ OPEN HOLE			0025
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			0122

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	PUMPING RATE	ELAPSED TIME OF PUMPING
1 ☐ PUMP 2 ☑ BAILER	0012 GPM	02 HOURS 00 MINUTES

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVEL DURING			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
042' FEET	084' FEET	054 FEET	062 FEET	067 FEET	071 FEET

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: 119 FEET

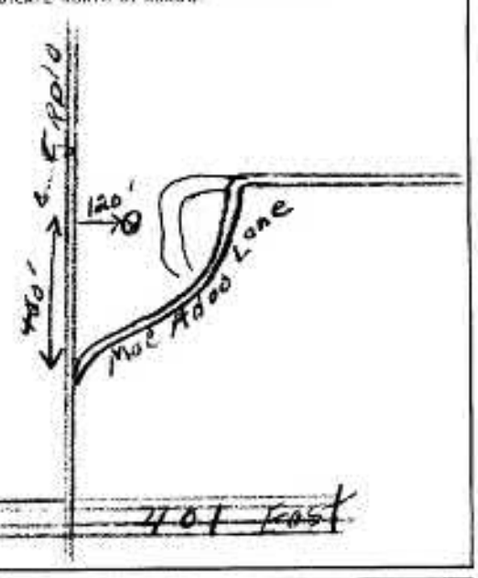
RECOMMENDED PUMPING RATE: 0012 GPM

000.3 GPM / FT. SPECIFIC CAPACITY

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 5	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 8003

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



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR: Jack Knox — LICENCE NUMBER: 3202

ADDRESS: Glenburnie

NAME OF DRILLER OR BORER: Ron Knox — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Jack Knox — SUBMISSION DATE: DAY 16 MO. 4 YR. 75

OFFICE USE ONLY

AREA SOURCE: 1 — CONTRACTOR: 3202 — DATE RECEIVED: 210475

DATE OF INSPECTION — INSPECTOR: DW.

REMARKS: CSS. 518

P — WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

3 1c/7a

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

11 | 2207162 | MUNICIP. 22009 | LOT CON 04

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
FRONTENAC	KINGSTON	4	024

OWNER (SURNAME FIRST): CATARAQUE CONS. AUTH.
ADDRESS: RR KINGSTON ONT.
DATE COMPLETED: DAY 11 MO 07 YR 78

ZONE	EASTING	NORTHING	RC	ELEVATION	RC	BASIN CODE			
18	379596	4903964	4	270	5	24	MAR 28, 1977	243	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
BLUE	CLAY		SOFT	0'	85'
GREY	SANDSTONE		HARD	85'	123'

31: 0085305 0123218

32:

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0118'	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

CASING DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06	1 ✓ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0'	087'
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ✓ OPEN HOLE			0123
	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	PUMPING RATE	DURATION OF PUMPING
1 ✓ PUMP 2 ☐ BAILER	0007 GPM	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ✓ PUMPING 2 ☐ RECOVERY)			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
018 FEET	123 FEET	123 FEET	FEET	FEET	123 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: 118 FEET
RECOMMENDED PUMPING RATE: 0005 GPM
000.1 GPM / FT. SPECIFIC CAPACITY

LOCATION OF WELL 7904

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

DRILLERS REMARKS: Hwy. no. 401

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 5: 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: Am. W. Nancy & Son Ltd. | LICENCE NUMBER: 1704
ADDRESS: Arnprior Ont.
NAME OF DRILLER OR BORER: George Albertson | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: W. F. Nancy per AEB | SUBMISSION DATE: DAY 11 MO 7 YR 78

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1704 | DATE RECEIVED: 220875
DATE OF INSPECTION: | INSPECTOR:
REMARKS: CSS. 59
P WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-081

ROLL # 106

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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

11 | 2207162 | MUNICIP 22009 | CON 4 | LOT 24

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
FRONTENAC	KINGSTON	4	24

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
CATARAQUE CONS. AUTH.	" " KINGSTON ONT.	DAY 11 MO 07 YR 76

ZONE	EASTING	NORTHING	RE	ELEVATION	SE	GROUND CODE			
2207162 18	375596	4903964	4	270	5	24	MAR 28, 1977		243

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
BLUE	CLAY		SOFT	0'	85'
GREY	SANDSTONE		HARD	85'	123'

31 0085305 0123718

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
118'	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL #5
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SULPHUR 3 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
06	1 ✓ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.188	0'	087'
06	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ✓ OPEN HOLE			0123
	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, CLAY PACKER, ETC.)

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ✓ PUMP 2 ☐ BAILER	0007 GPM	01 HOURS 00 MINUTES

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ✓ PUMPING 2 ☐ RECOVERY)	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
018 FEET	123 FEET	123 FEET		FEET	FEET	123 FEET

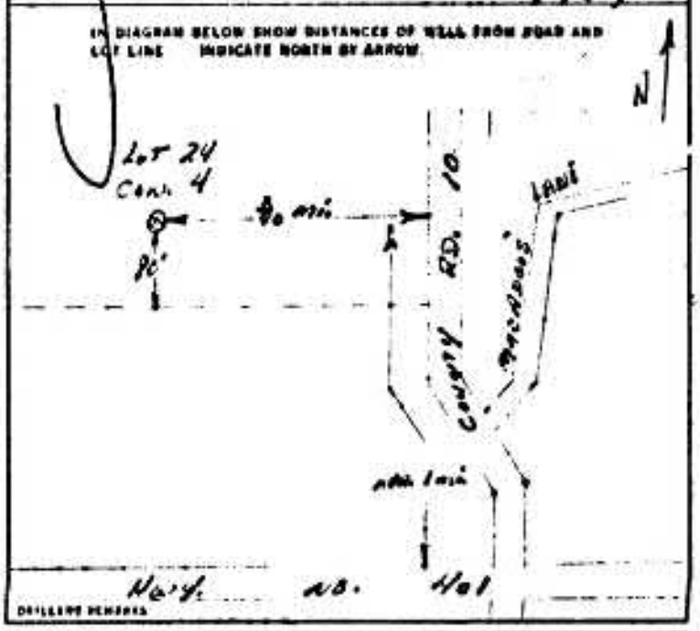
IF FLOWING GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ✓ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ✓ DEEP	118 FEET	0005 GPM

0001 GPM / FT. SPECIFIC CAPACITY

LOCATION OF WELL 7904

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



DRILLERS REMARKS: No. 401

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 5 ☐ OTHER 6 ☐ COMMERCIAL 7 ☐ MUNICIPAL 8 ☐ PUBLIC SUPPLY 9 ☐ COOLING OR AIR CONDITIONING 10 ☐ NOT USED
METHOD OF DRILLING 5	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	LICENCE NUMBER
Thos. W. Young & Son Ltd.	1704
ADDRESS: Lindsay Ont.	
NAME OF DRILLER OR BORER: George Albertson	LICENCE NUMBER
SIGNATURE OF CONTRACTOR: W. T. Young & Son	SUBMISSION DATE: DAY 11 MO 7 YR 76

OFFICE USE ONLY

DATE RECEIVED	CONTRACTOR	DATE RECEIVED
1	1704	220875
DATE OF INSPECTION	INSPECTOR	
REMARKS		P WI

FORM 7 MOE 07-081

MINISTRY OF THE ENVIRONMENT COPY

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| 9 | R | | | | | | | N

Elev. | 9 | R | 0 | 3 | 0 | 0 |

Basin | 2 | 4 | | | |

ONTARIO

22 No 574

RECEIVED
JAN 12 1955
GEOLOGICAL BRANCH
DEPARTMENT of MINES

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

County or Territorial District ... Renfrew ... ~~Township, Village, Town or~~ City ... Killaloe

Con. — Lot — Street and Number (if in Village, Town or City) ...

Owner ... [redacted] ... Address ... Killaloe

Date Completed ... 1 (day) Dec. (month) 54 (year) Cost of Well (excluding pump) ...

Pipe and Casing Record

Casing diameter(s) ... 6 5/4"

Length(s) of casing(s) ... 14'

Type of screen ...

Length of screen ...

Distance from top of screen to ground level ...

Is well a gravel-wall type? ...

Pumping Test

Date ... Dec. 1/54

Static level ... 12'

Pumping level ... 18'

Pumping rate ... 100 gal per hr

Duration of test ... 2 hrs

Distance from cylinder or bowls to ground level ...

Water Record

Kind (fresh or mineral) ... fresh

Quality (hard, soft, contains iron, sulphur, etc.) ... hard

Appearance (clear, cloudy, coloured) ... clear

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

How far is well from possible source of contamination? ... 85'

What is the source of contamination? ... earth

Enclose a copy of any mineral analysis that has been made of water ...

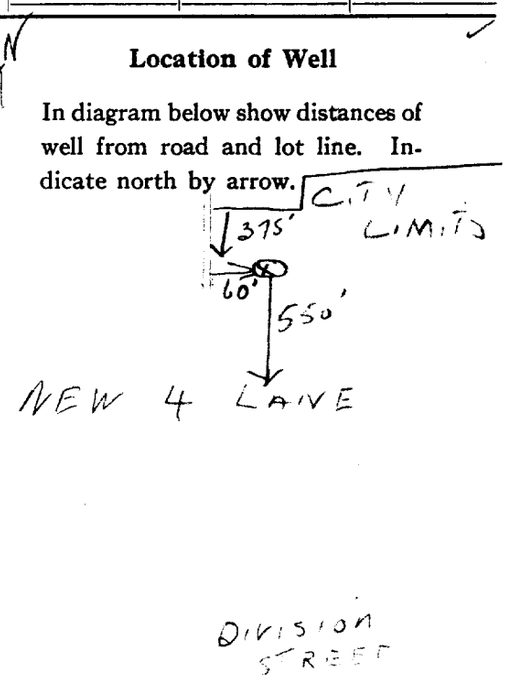
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
60'	fresh	4'

Well Log

Overburden and Bedrock Record	From	To
blue limestone	0 ft.	60 ft.

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 ... [illegible]

Address ... [illegible]

Name of Driller ... [illegible] Address ... [illegible]

Date ... Dec. 1/54 Licence Number ... [illegible]

[illegible]
Signature of Licensee

FORM 5

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

Ontario

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

11 | 2206449 | MUNICIP. 220 09 | CON. KON 104

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	BLOCK, TRACT, SURVEY, ETC.	LOT
Frontenac	Kingston	Division St. IV	025

OWNER (SURNAME FIRST)	ADDRESS	DATE COMPLETED
Cataraqui ~~Conservation~~ Con. Auth.	837 Princess St. Suite 503 Kingston	DAY 08 MO. 08 YR. 73

WATER SUPPLY	NORTHING		ELEVATION	RC.	BASIN CODE			
2206449 18	379951	4904028	4	285	5	24	NOV 08, 1974	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
Blue	Clay			0'	5'
Blue	Limestone			5'	82'
Green	Limestone			82'	95'

31 | 0005 3 1 05 | 0006 2 3 1 15 | 0008 5 4 1 15

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
057	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
089	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
6¼ 06	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	3/16	0'	10' 0010
	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	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☑ BAILER	0010 GPM	02 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☑ PUMPING 2 ☐ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
019 FEET	075 FEET	049 FEET	058 FEET	064 FEET	067 FEET

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

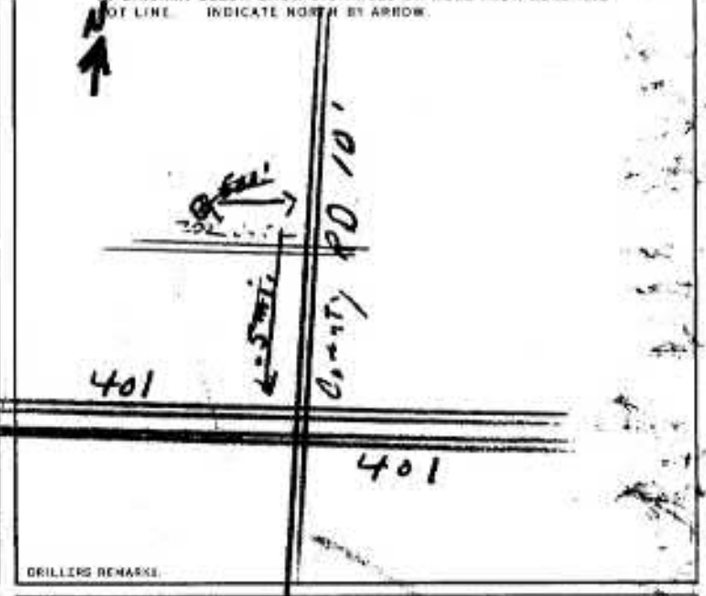
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP | RECOMMENDED PUMP SETTING 090 FEET | RECOMMENDED PUMPING RATE 0010 GPM

0002

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 ☐ 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: Jack Knox | LICENCE NUMBER: 3202
ADDRESS: WESTbrook
NAME OF DRILLER OR BORER: Ronald Knox | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Jack Knox | SUBMISSION DATE: DAY ___ MO. 10 YR. 73

OFFICE USE ONLY

DATE SOURCE | CONTRACTOR 3202 | DATE RECEIVED 06 11 73
DATE OF INSPECTION | INSPECTOR YKK
REMARKS: C55.58

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

Ministry of the Environment
Ontario

The Ontario Water Resources Act 31C 72

WATER WELL RECORD

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

11 2209101 MUNICIP 22009 CON CON 04

COUNTY OR DISTRICT: [redacted] Kingston | LOT 4 | 026
DATE COMPLETED: 26 06 81
[redacted] enburnie, Ontario.
04099 | 14 | 0350 | 5 | 24

LOG OF OVERBURDEN AND BEDROCK MATERIALS

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET FROM	TO
Blue	Limestone		Shale	0	8
Blue	Limestone			8	90
Green	Limestone			90	105
Blue	Limestone			105	134

31: 0008315117 | 0090315 | 0105415 | 0134315
32

41 WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
0133	☑ 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 IN INCHES	DEPTH FEET FROM	TO
6 5/8 06	☑ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE	3/16	0	0021
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			
	☐ STEEL ☐ GALVANIZED ☐ CONCRETE ☐ OPEN HOLE			

SCREEN

SIZE 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: ☐ PUMP ☑ BAILER
PUMPING RATE: 020 GPM
DURATION OF PUMPING: 02 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING ☑ PUMPING ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
093 FEET	125 FEET	104 FEET	112 FEET	119 FEET	122 FEET

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: 130 FEET
RECOMMENDED PUMPING RATE: 0020 GPM

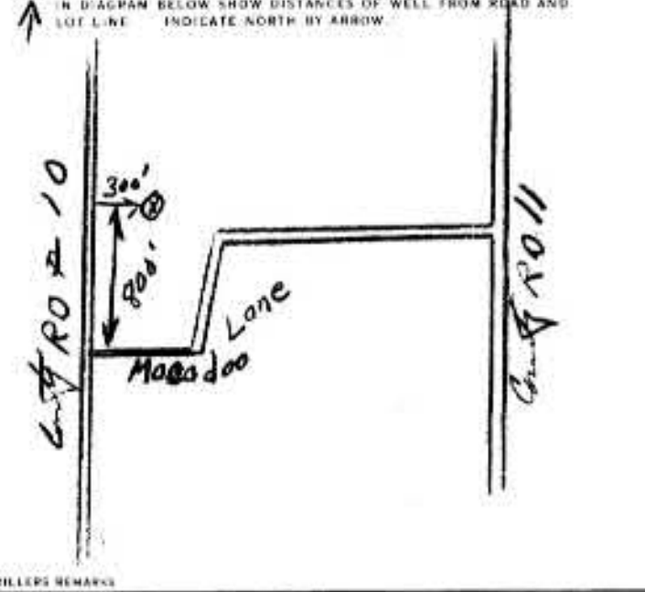
FINAL STATUS OF WELL 1
☑ WATER SUPPLY ☐ OBSERVATION WELL ☐ TEST HOLE ☐ RECHARGE WELL ☐ ABANDONED: INSUFFICIENT SUPPLY ☐ ABANDONED: POOR QUALITY ☐ UNFINISHED

WATER USE 01
☑ DOMESTIC ☐ STOCK ☐ IRRIGATION ☐ INDUSTRIAL ☐ OTHER ☐ COMMERCIAL ☐ MUNICIPAL ☐ PUBLIC SUPPLY ☐ COOLING OR AIR CONDITIONING ☐ NOT USED

METHOD OF DRILLING 5
☐ CABLE TOOL ☐ ROTARY (CONVENTIONAL) ☐ ROTARY (REVERSE) ☐ ROTARY (AIR) ☑ AIR PERCUSSION ☐ BORING ☐ DIAMOND ☐ JETTING ☐ 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: Jack Knox | LICENCE NUMBER: 3202
ADDRESS: Glenburnie
NAME OF DRILLER OR BORER: Ron Knox | LICENCE NUMBER: 3219
SIGNATURE OF CONTRACTOR: Jack Knox | SUBMISSION DATE: DAY 11 MO 1 YR 82

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 3202 | DATE RECEIVED: 18 01 82
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 5M-4-72 FORM 7

61

UTM 7 1 2 Z E

5 R 1 0 N

Elev. 5 R 0 4 0 0

Basin 2 4

The Ontario Water Resources Commission Act

WATER WELL RECORD

22 No. 874

County ~~or District~~ Frontenac

Township, ~~Village, Town or City~~ Kingston

Con. ~~W.C.R.~~ II Lot ~~2~~ 10

Date completed Sept. 30, 1965 (day month year)

[redacted]ress Box 112, Bloomfield, Ont.

Casing and Screen Record

Inside diameter of casing 8''

Total length of casing 6 ft.

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 8''

Pumping Test

Static level 70 ft.

Test-pumping rate 20 G.P.M.

Pumping level 85 ft.

Duration of test pumping 2 hr.

Water clear or cloudy at end of test clear

Recommended pumping rate 10 G.P.M.

with pump setting of 97 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
clay gravel	0	6		
grey limestone	6	70		
brown limestone	70	100	95 ft.	fresh

For what purpose(s) is the water to be used? Drive In Theatre

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

Drilling or Boring Firm L.H. McClennon & Son

Address Wellington, Ont.

Licence Number 1688

Name of Driller or Borer Ken McClennon

Address Wellington, Ont.

Date Sept. 30, 1965

L.H. McClennon

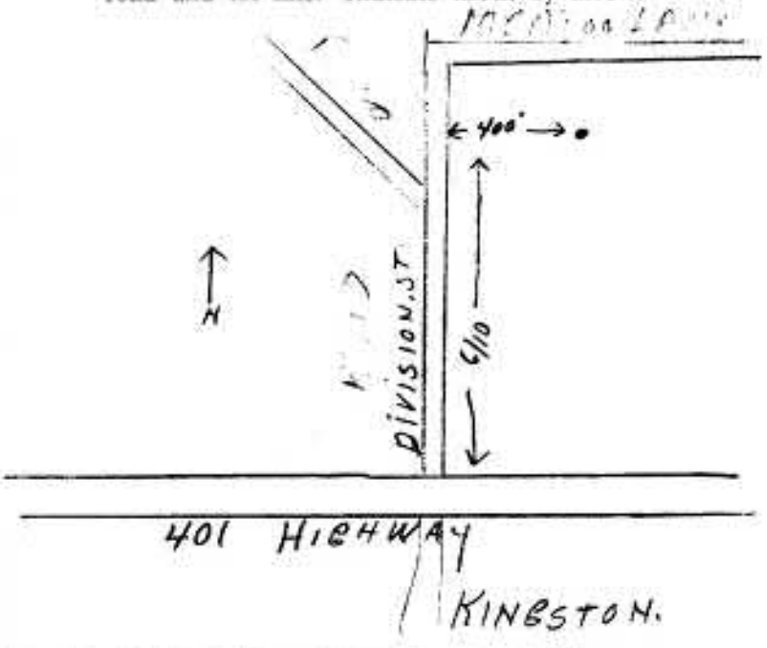
(Signature of Licensed Drilling or Boring Contractor)

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.



The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management is Ontario

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

11 | 2206734 | MUNICIP 22009 | CON C4N | 04

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Frontenac	Kingston	4	026

[redacted] Wellington St. Kingston — DATE COMPLETED DAY 10 MO ~~May~~ 05 YR 74

[redacted]04053 | RC 4 | ELEVATION 405 | RC 5 | BASIN CODE 24 | MAR 28, 1977 | 243

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	TO
	limestone			0	178

31 0178 15

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
10-14	☒ 1 FRESH ☐ 2 SALTY ☐ 3 SULPHUR ☐ 4 MINERAL
15-19	☐ 1 FRESH ☐ 2 SALTY ☐ 3 SULPHUR ☐ 4 MINERAL
20-24	☐ 1 FRESH ☐ 2 SALTY ☐ 3 SULPHUR ☐ 4 MINERAL
25-29	☐ 1 FRESH ☐ 2 SALTY ☐ 3 SULPHUR ☐ 4 MINERAL
30-34	☐ 1 FRESH ☐ 2 SALTY ☐ 3 SULPHUR ☐ 4 MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
06	☒ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE		0	0022 ~~21'9"~~
06	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☒ 4 OPEN HOLE		21'9"	0178
	☐ 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.)
10-13	14-17	
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER	0004 GPM	01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING (1 ☐ PUMPING 2 ☒ RECOVERY) 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
025 FEET	171 FEET	123 FEET	094 FEET	068 FEET	057 FEET

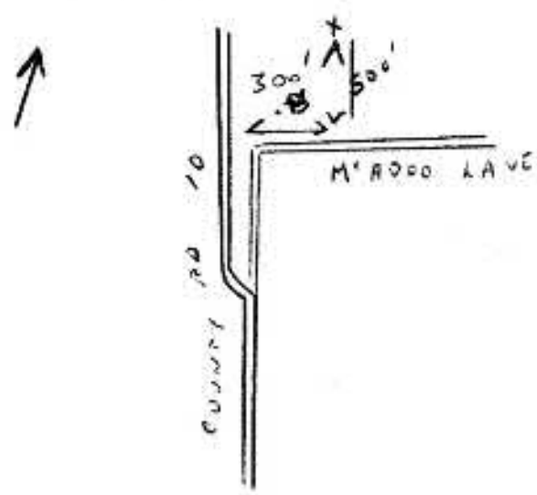
IF FLOWING, GIVE RATE ___ GPM — PUMP INTAKE SET AT ___ FEET — WATER AT END OF TEST ☒ 1 CLEAR ☐ 2 CLOUDY

RECOMMENDED PUMP TYPE ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING 170 FEET — RECOMMENDED PUMPING RATE 0003 GPM

000.0 GPM/FT. SPECIFIC CAPACITY

LOCATION OF WELL 8004

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



DRILLERS REMARKS:

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 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 4 ☐ 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: Goodberry Well drilling Ltd. — LICENCE NUMBER 2402

ADDRESS: Verona Ont.

NAME OF DRILLER OR BORER: Arnold Munro — LICENCE NUMBER

SIGNATURE OF CONTRACTOR: Leslie Goodberry — SUBMISSION DATE DAY 13 MO May YR 74

OFFICE USE ONLY

DATA SOURCE 1 — CONTRACTOR 2402 — DATE RECEIVED 0 11 74

DATE OF INSPECTION — INSPECTOR

REMARKS: C 55.58

P WI

OWRC COPY

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below): A174221

Tag#: A174221

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	
Gilchak Holdings	Inc.	Unk.	☐ Well Constructed by Well Owner

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
141 Laurier Ave. W. Suite 1200	Ottawa	ON	K1P 5J3	Unk.

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1534 Perth Rd.	Kingston	Pt. 6	west of Cataraqui River

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	Unk.

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380572	4903147		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Brown	Clay	Stones	Packed	0	2
Brown	Limestone		Soft	2	12.6
Grey	Limestone		Hard	12.6	80

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
12	0	Bentonite	7.0

Method of Construction

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

Well Use

☐ Public ☒ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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
6.25	steel	.188	0	12.6

Construction Record - Screen

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

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 17 (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☒ Untested ☐ Other, specify

Water found at Depth 70 (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☒ Untested ☐ Other, specify

Water found at Depth (m/ft) ☐ Gas — Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	12.6	8"
12.6	80	6"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 77

Pumping rate (l/min / GPM): 6 gpm

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 73.8

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 77

Recommended pump rate (l/min / GPM): 5 gpm

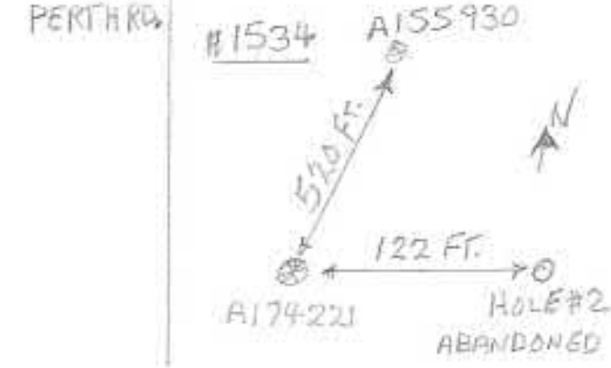
Well production (l/min / GPM): 5 gpm

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	37.6		73.8
1	42.4	1	68.8
2	44.2	2	64.0
3	44.9	3	59.2
4	45.4	4	55.0
5	45.9	5	51.7
10	47.3	10	42.6
15	47.9	15	40.5
20	49.9	20	39.9
25	51.7	25	39.5
30	54.4	30	39.2
40	61.3	40	38.9
50	67.4	50	38.7
60	73.8	60	38.5

Map of Well Location

Please provide a map below following instructions on the back.



Comments: This well was hydro fracked Dec. 18th 2014

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Chalk Well Drilling Ltd.	1507

Business Address (Street Number/Name)	Municipality
31 Johnson Side Rd.	Napanee

Province	Postal Code	Business E-mail Address
Ontario	K7R 3L1	chalkwel kos.net

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 388 2809	Chalk, Dan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T-3304	Dan Chalk	2014 12 22

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☒ Yes ☐ No		2014 12 22

Ministry Use Only

Audit No. Z 198606

Date Rec'd JAN 16 2015

0506E (2007/12) © Queen's Printer for Ontario, 2007

Ministry's Copy

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below) A 034189

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 1

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 **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 Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

[redacted]

Address of Well Location (County/District/Municipality): 191 Dalton Ave

Township: City of KINGSTON

Lot: 23 Concession: 4

RR#/Street Number/Name

City/Town/Village: KINGSTON

Site/Compartment/Block/Tract etc.

GPS Reading: NAD 83 Zone 18 Easting E 379 840 Northing N 4902690

Unit Make/Model: Eagle

Mode of Operation: ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Grey	Limestone Fill	FILL	HARD, Dense, FILL	0'	5'
Grey	Clay		Soft Grey	5'	17'

NOTE: Well Cluster 5 well total
Well depths 12.5, 12.5, 17, 15, 15'

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0'	5'	10"
5	17'	8"

Water Record

Water found at ___ Metres / Kind of Water

☐ ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

☐ ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

☐ ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was ☐ Clear and sediment free ☐ Other, specify

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam (centimetres)	Material	Wall thickness (centimetres)	Depth From	Depth To (Metres)
Casing				
2"	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized		0'	5'
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	Material	Slot No.		
2.2"	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.10	5'	15'
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ___ hrs + ___ min	2		2	
Final water level end of pumping ___ metres	3		3	
Recommended pump type: ☐ Shallow ☐ Deep	4		4	
Recommended pump depth ___ metres	5		5	
Recommended pump rate (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason:	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☐ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
15'	4'	#2 Sand Pack	
4'	1'	3/8 bentonite Chips	

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☑ Boring ☐ Driving

Water Use

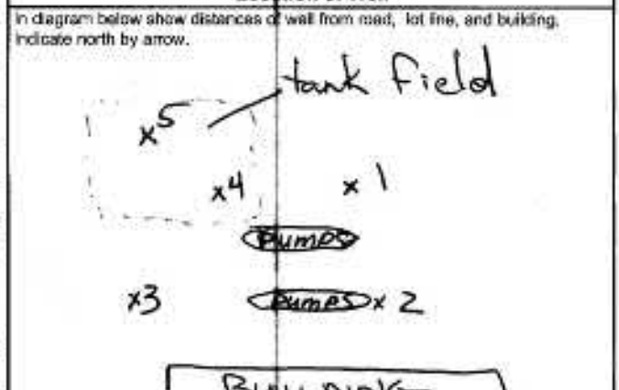
☐ Domestic ☐ Industrial ☐ Public Supply ☑ Other: Monitoring Well
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☑ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Location of Well

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



Audit No. Z 37749

Date Well Completed: 2005 / 12 / 14

Was the well owner's information package delivered? ☐ Yes ☑ No

Date Delivered: 2005 / 12 / 14

Well Contractor/Technician Information

Name of Well Contractor: Jonathan Fillion

Well Contractor's Licence No.: 7323

Business Address (street name, number, city etc.): 2778 ROUND LAKE RD BATTERSEA ONT

Name of Well Technician (last name, first name): Jonathan Fillion

Well Technician's Licence No.: T3315

Signature of Technician/Contractor: X

Date Submitted: 2005 / 12 / 14

Ministry Use Only

Data Source

Contractor: 7323

Date Received: FEB 07 2006

Date of Inspection: YYYY MM DD

Remarks

Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below): A034189

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 1

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 **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 Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only: MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

RR#/Street Number/Name: 191 Dalton Ave | City/Town/Village: Kingston | Site/Compartment/Block/Tract etc.: 034

GPS Reading: NAD 83 | Zone 18 | Easting E 376740 | Northing N 4902690 | Unit Make/Model: Eagle | Mode of Operation: ☐ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Gray	Limestone fill	fill	Hard, Dense Fill	0'	5'
Grey	Clay		Soft Clay	5'	17'
			Abandoned 5 well MW		
			depth's 12.5', 12.5', 17', 15, 15		

Hole Diameter

Depth From	Metres To	Diameter Centimetres

Water Record

Water found at Metres / Kind of Water: ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other

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

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam centimetres | Material | Wall thickness centimetres | Depth From | Metres To

Casing

2" ☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized

☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized

☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized

Screen

Outside diam 2" ☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized | Slot No. 010

No Casing or Screen

☐ Open hole

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping ____hrs + ____ min	2		2	
Final water level end of pumping ____metres	3		3	
Recommended pump type. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ____metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Plugging and Sealing Record

☐ Annular space ☑ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	17	Pumped grout mix w 5% bentonite from bottom 17' up.	

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging ☐ Rotary (conventional) ☐ Air percussion ☑ Jetting ☐ Other ☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other ☐ Stock ☐ Commercial ☐ Not used ☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Test hole

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☑ Abandoned, (Other) ☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering ☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Location of Well

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

Audit No. Z 37737 | Date Well Completed YYYY MM DD 2006 06 14

Was the well owner's information package delivered? ☐ Yes ☑ No | Date Delivered YYYY MM DD

Well Contractor/Technician Information

Name of Well Contractor: Can Env Drilling | Well Contractor's Licence No. 7323

Business Address (Street name, number, city etc.): 2778 Round Lake Rd Battersea

Name of Well Technician (last name, first name): Jonathan Fellion | Well Technician's Licence No. T3315

Signature of Technician and/or Contractor: X | Date Submitted YYYY MM DD 2006 06 14

Ministry Use Only

Data Source | Contractor 7323

Date Received YYYY MM DD JUN 28 2006 | Date of Inspection YYYY MM DD

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: No tag hole decommissioned

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Gilchak Holdings Inc.	Unk.	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
141 Laurier Ave. W. Suite 1200	Ottawa	Ontario	K1P 5J3	Unk.

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1534 Perth Rd.	Kingston	pt 9	West of Cataraqui River

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	Unk.

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380610	4903146	R.P. Plan 68 Parts 3,4,5&6	Kingston Solar

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	Clay Till		Packed	0	2
Grey	Limestone		Broken	2	4
Grey	Limestone		Hard	4	120

[redacted] Abandonment Record

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
120	90	Cement	4.2
90	30	Peastone	11.9
30	0	Bentonite	11.9

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☒ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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	Depth (m/ft) To
	Casing Removed			

Construction Record - Screen

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

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
115	salty

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	10
10	101	6
101	120	5.75

Results of Well Yield Testing

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

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)

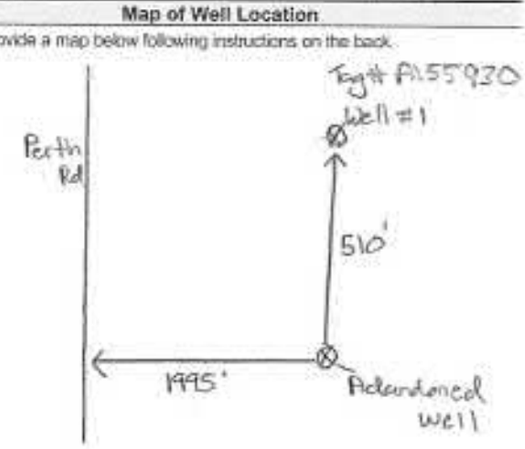
Well production (l/min / GPM): 1 gpm

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
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.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Chalk Well Drilling Ltd.	1507

Business Address (Street Number/Name)	Municipality
31 Johnsons Side Rd.	Napanee

Province	Postal Code	Business E-mail Address
Ontario	K7R 3L1	chalkwel Kos.ner

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613-388-2809	Chalk, Kevin

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
T-627	Kevin Chalk	2014 12 09

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No		2014 12 09

Ministry Use Only

Audit No. Z 198607

JAN 16 2015

Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below)
NO TAG (CLUSTER WELL)
A042937

Well Record

Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

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- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only
MUN | CON | LOT

Well Owner's Information and Location of Well Information

First Name: LAFARGE McADDO LANE QUARRY c/o GOLDER ASS. LTD
Last Name:
Mailing Address (Street Number/Name, RR, Lot, Concession): 32 STEACIE DRIVE
County/District/Municipality: OTTAWA
Township/City/Town/Village:
Province: Ontario
Postal Code: K2K-2A9
Telephone Number (include area code): 613-592-7600
Address of Well Location (County/District/Municipality): FRONTENAC
Township: KINGSTON
Lot: 26-27
Concession: 4
RR#/Street Number/Name:
City/Town/Village:
Site/Compartment/Block/Tract etc.: TW4
GPS Reading: NAD 83 | Zone 18 | Easting 380417 | Northing 4904204
Unit Make/Model: MAGELLAN
Mode of Operation: ☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
BLUE	LIMESTONE			0	10.7
BLACK	"			10.7	11.3
BLUE	LIMESTONE			11.3	32.6

Hole Diameter

Depth From (Metres)	Depth To (Metres)	Diameter (Centimetres)
0	1	25.4
1	32.6	15.25

Water Record

Water found at ___ Metres / Kind of Water
___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was
☐ Clear and sediment free
☐ Other, specify

Chlorinated ☐ Yes ☑ No

Construction Record

Inside diam (centimetres)	Material	Wall thickness (centimetres)	Depth From	Depth To (Metres)
Casing				
15.8	☑ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	1
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☑ Open hole		1	32.6

Test of Well Yield

Pumping test method

Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Pump intake set at - (metres)
Pumping rate - (litres/min)
Duration of pumping ___ hrs + ___ min
Final water level end of pumping ___ metres
Recommended pump type ☐ Shallow ☐ Deep
Recommended pump depth. ___ metres
Recommended pump rate. (litres/min)
If flowing give rate - (litres/min)
If pumping discontinued, give reason.

Plugging and Sealing Record

☐ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)

Method of Construction

☐ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☑ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

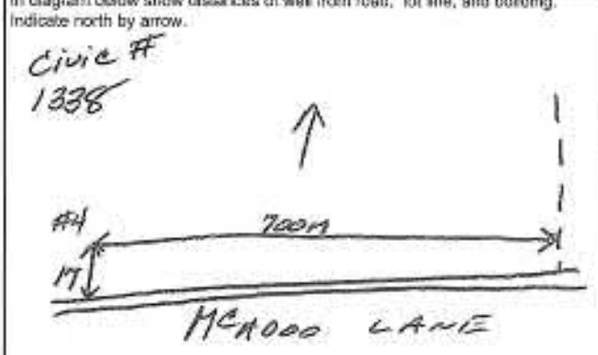
☐ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☐ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering MONITOR
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Location of Well

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



Audit No. Z 48105
Date Well Completed: YYYY 07 MM 7 DD 28
Was the well owner's information package delivered? ☐ Yes ☐ No
Date Delivered: YYYY MM DD

Well Contractor/Technician Information

Name of Well Contractor: JACK KNOX WELDRILLING
Well Contractor's Licence No.: 3202
Business Address (street name, number, city etc.): GLENBURNIE
Name of Well Technician (last name, first name): KNOX JOHN
Well Technician's Licence No.: 2879
Signature of Technician/Contractor: X Ron Knox
Date Submitted: YYYY MM DD

Ministry Use Only

Data Source
Contractor: 3202
Date Received: MAR 05 2007 YYYY MM DD
Date of Inspection: YYYY MM DD
Remarks
Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: NO TAG.

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	CATARAQUI REGION CONSERVATION AUTHORITY		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1641 PERTH R.D	GLENBURNIE	ONT	K0H 1S0	6135464728

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1641 PERTH R.D	KINGSTON	25	4

County/District/Municipality	City/Town/Village	Province	Postal Code
FRONTENAC	GLENBURNIE	Ontario	K0H1S0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	379662	4904448		

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
ABANDON WELL		DRILLED JULY 16/80			
BENTONITE 105 TO 0					

Annular Space

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

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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	Depth (m/ft) To

Construction Record - Screen

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

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 CASING ROTTEN ☐ Other, specify ____

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Results of Well Yield Testing

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

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) ____

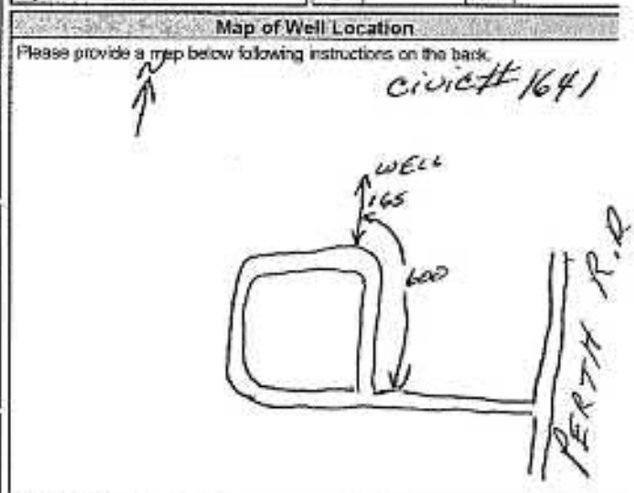
Well production (l/min / GPM) ____

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level			
1		1	
2		2	
3		3	
4		4	
5		5	
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.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's License No.
JACK KNOX WELLDRILLING	3202

Business Address (Street Number/Name)	Municipality
2580 PERTH R.D.	GLENBURNIE

Province	Postal Code	Business E-mail Address
ONT	K0H1S0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6135466164	KNOX RON

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0041	RON KNOX	Y Y Y Y M M D D

Well owner's information package delivered	Date Package Delivered
☐ Yes ☐ No	2011/11/17
	Date Work Completed: 2011/11/17

Ministry Use Only

Audit No. Z131247

Received: JAN 23 2012

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (Place Sticker and/or Print Below): **A115932**

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
CATARAQUI REGION	CONSERVATION AUTHORITY		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1641 PERTH R.D BOX 160	GLENBURNIE	ONT	K0H1S0	6135464228

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1641 PERTH R.D.	KINGSTON	25	4

County/District/Municipality	City/Town/Village	Province	Postal Code
FRONTENAC	GLENBURNIE	Ontario	K0H1S0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	379660	4904446		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
BLUE	CLAY			0	66.5
RED	GRANITE			66.5	74
BROWN/RED	SANDSTONE			74	105
GREY	GRANITE			105	120

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
69	0	CEMENT	25

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☑ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ 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
6¼"	STEEL	188	+2	69
6"	OPEN HOLE		69	120

Construction Record - Screen

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

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	
108	☐ Fresh ☑ Untested ☐ Gas ☐ Other, specify	
114	☐ Fresh ☑ Untested ☐ Gas ☐ Other, specify	
	☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	69	10"
69	120	6"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 118

Pumping rate (l/min / GPM): 20 G.P.M.

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 53.8

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 117'

Recommended pump rate (l/min / GPM): 10+ G.P.M.

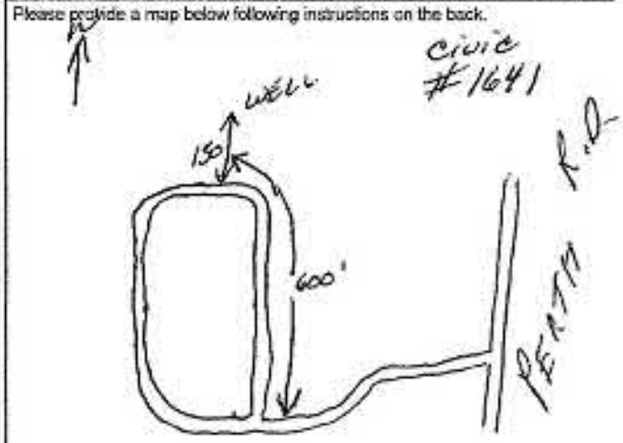
Well production (l/min / GPM): 20 G.P.M

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	0		
1	6	1	49.9
2	9	2	46.1
3	11.2	3	43.4
4	13.2	4	40.9
5	15.1	5	37.9
10	24.9	10	29
15	31.8	15	20.4
20	37	20	12.9
25	41.1	25	6.5
30	44.1	30	2.4
40	50	40	1.1
50	52.3	50	0
60	53.8	60	0

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
JACK KNOX WELLDRILLING	3207

Business Address (Street Number/Name)	Municipality
2580 PERTH R.D.	GLENBURNIE

Province	Postal Code	Business E-mail Address
ONT	K0H1S0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6135466164	KNOX RON

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0041	Ron Knox	Y Y Y Y M M D D

Well owner's information package delivered: ☐ Yes ☐ No

Date Package Delivered: 2011/11/17

Date Work Completed: 2011/11/17

Ministry Use Only

Audit No. Z131246

Received: JAN 23 2012

Ministry of Environment and Energy
Ontario

The Ontario Water Resources Act
WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

11 2213436 Municipality 22009 Con. CON 04

County or District	Township/Borough/City/Town/Village	Con. block tract survey, etc.	Lot
FRONTENAC	KINGSTON	4 (T.W-9)	25

Owner's surname / First name: KINGSTON TOWNSHIP ([redacted]) Address: c/o Oliver, Mangione McCalla & Associates — Date completed: 30 (day) 10 (month) 95 (year)

21 Zone Easting Northing PC Elevation RC Basin Code

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

General colour	Most common material	Other materials	General description	Depth – feet From	Depth – feet To
Blue	Limestone		Broken	0	4
Blue	Limestone			4	125
Green	Limestone			125	138
Blue	Limestone			138	175
Green	Limestone			175	195
Green-Red	Sandstone		mixed	195	200
Green-Red	Sandstone		mixed	200	202
Red-Grey	Granite			202	210
Nov. 30 1995 and Dec 4, 1995					
Installed 2 Piezometers in T.W. 9 Hole					
Bottom Screen set at 195'-180 ft. Top Screen set at 135'-125 ft.					

31

32

WATER RECORD

Water found at – feet	Kind of water
	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

CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth – feet From	Depth – feet To
6 1/4	1 ☑ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic	3/16	0	22
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			
	1 ☐ Steel 2 ☐ Galvanized 3 ☐ Concrete 4 ☐ Open hole 5 ☐ Plastic			

SCREEN

Sizes of opening (Slot No.)	Diameter inches	Length feet
Material and type	Depth at top of screen feet	

PLUGGING & SEALING RECORD

☑ Annular space ☐ Abandonment

Depth set at – feet From	To	Material and type (Cement grout, bentonite, etc.)
22	2	Annular Cement Pressure Grout

PUMPING TEST

71 Pumping test method: ☐ Pump ☐ Bailer — Pumping rate GPM — Duration of pumping ..... Hours ..... Mins

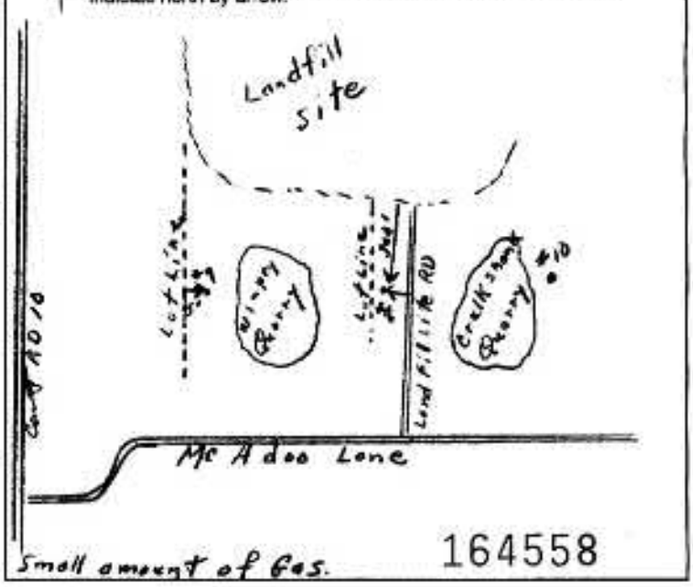
Static level	Water level end of pumping	Water levels during ☐ Pumping ☐ Recovery: 15 minutes	30 minutes	45 minutes	60 minutes
feet	feet	feet	feet	feet	feet

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 feet — Recommended pump rate GPM

LOCATION OF WELL

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



164558

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 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☐ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 ☐ Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not used 10 ☑ Other: monitoring well

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 10 ☐ Digging 11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
Jack Knox Well Drilling	3202
Address: Glenburnie, Ontario	
Name of Well Technician	Well Technician's Licence No.
Ron Knox	T-0041
Signature of Technician/Contractor	Submission date (day mo yr)
Jack Knox	

MINISTRY USE ONLY: Date source — Contractor 3202 — Date received JAN 12 1996 — Date of inspection — Inspector — Remarks — CSS.ES

2 - MINISTRY OF ENVIRONMENT & ENERGY COPY

9506 (07/94) Front Form 9

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below): A 155930

Tag#: A155930

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	GILCHAK HOLDINGS INC.	UNK	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
141 Laurier Ave. W., Suite 1200	Ottawa	Ontario	K1P 5J3	UNK

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1534 Perth Road	Kingston	Pt. 9	West of Cataraqui River

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	UNK

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380618	4903298	R. P. Plan 68, Parts 3,4,5,&6	Kingston Solar

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Brown	Clay		Packed	0	15
Grey	Limestone		Hard	15	101

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20	0	Bentonite	7.0

Method of Construction

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

Well Use

☐ Public ☒ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ 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
6.25	Steel	.188	0	20

Construction Record - Screen

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

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	
42	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	
83	☐ Fresh ☒ Untested ☐ Gas ☐ Other, specify	
	☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	10"
20	101	6"

Results of Well Yield Testing

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

If pumping discontinued, give reason:

Pump intake set at (m/ft): 98

Pumping rate (l/min / GPM): 15 g.p.m.

Duration of pumping: 1 hrs + 0 min

Final water level end of pumping (m/ft): 39.2

If flowing give rate (l/min / GPM):

Recommended pump depth (m/ft): 98

Recommended pump rate (l/min / GPM): 15 g.p.m.

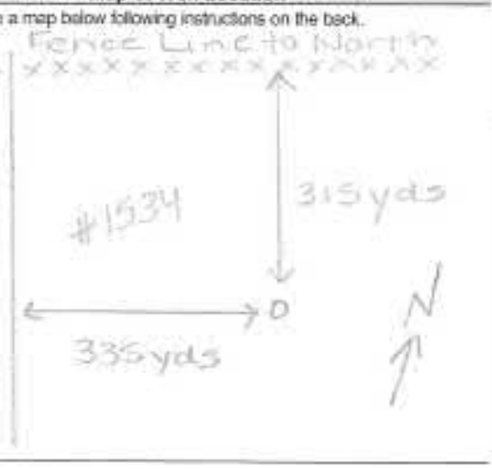
Well production (l/min / GPM): + 15 g.p.m.

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	29.1		39.2
1	33.3	1	31.9
2	35.4	2	30.1
3	36.5	3	29.8
4	37.1	4	29.7
5	37.5	5	29.6
10	38.2	10	29.3
15	38.5	15	29.2
20	38.6	20	29.1
25	38.7	25	29.1
30	38.8	30	29.1
40	39.0	40	29.1
50	39.1	50	29.1
60	39.2	60	29.1

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Chalk Well Drilling Ltd.	1507

Business Address (Street Number/Name)	Municipality
31 Johnson's Side Road	Napanee

Province	Postal Code	Business E-mail Address
Ontario	K7R 3L1	chalkwel kos.net

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 388-2809	Chalk, Kevin

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0627	Kevin Chalk	2014 07 16

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2014 07 16

Ministry Use Only

Audit No. Z 179571

Date Received OCT 08 2014

UTM Z E

5 R N

Elev. 5 R 0 2 7 5

Basin 2 4

22 № 605

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District FRONTENAC

Township, Village, Town or City KINGSTON

Con. Lot

Date completed 21 (day) JUNE (month) 67 (year)

[redacted]

Address KINGSTON

Casing and Screen Record

Inside diameter of casing 7"

Total length of casing 26'

Type of screen —

Length of screen —

Depth to top of screen —

Diameter of finished hole 6" (THROUGH ROCK)

Pumping Test

Static level 12'

Test-pumping rate 17 I.G.P.M.

Pumping level FULL CAPACITY

Duration of test pumping 2 HRS.

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 15 I.G.P.M.

with pump setting of 140 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
BLUE CLAY	0	26		
GREY LIMESTONE	26	70		
BROWN "	70	72		TRACE
GREEN SHALE	72	73	140	of
BROWN LIMESTONE	73	81		SULPHER
GREEN SHALE	81	147		

For what purpose(s) is the water to be used? TEST HOLE MOTOR HOTEL GROUNDS

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

Drilling or Boring Firm CANADIAN INGERSOLL-RAND CO LTD.

Address 626 CATHCART MONTREAL

Licence Number

Name of Driller or Borer R. J. CLARK

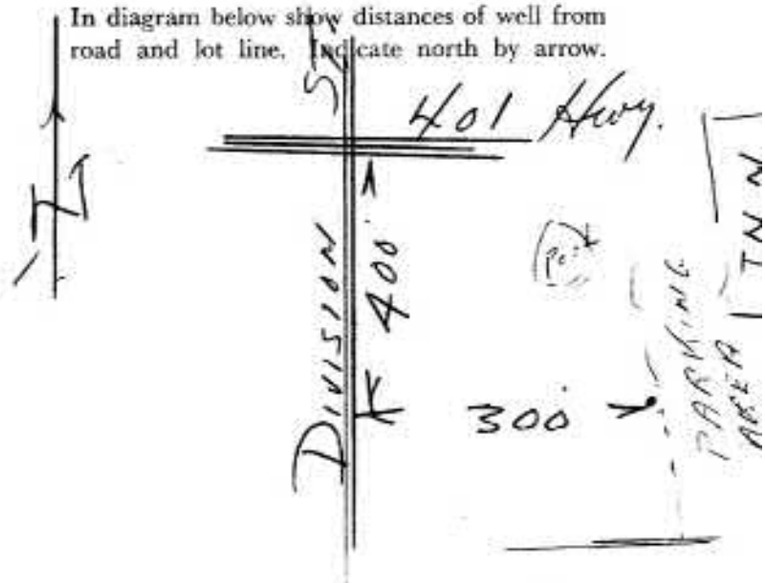
Address

Date

Robert J Clark Sr.
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7 15M-60-4138

WHITE COPY NOTE. DEMONSTRATION WELL AT C.W.W.C.A. CONVENTION

Ontario — Ministry of the Environment, Conservation and Parks

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)* **Tag#:A268550**

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
	Darellan Pools LTD.	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1472 McAdoos Lane	Kingston	ON	K0A1S0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1472 McAdoos Lane	City of Kingston	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	K0A1S0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	356353	4904231		—

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
Grey	Gravel	Sand	Fill	0	0.91m
Grey	Limestone		Fractured	0.91	5.18m

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.3m	Cement	
0.3	1.83m	Bentonite	
1.83	5.18m	Sand	

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [X] Boring [ ] Digging [X] Air percussion [ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used [ ] Domestic [ ] Municipal [ ] Dewatering [ ] Livestock [X] Test Hole [ ] Monitoring [ ] 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
15.57	Aluminum	0.32	0	0.3m
5.08	Plastic	0.47	0	2.13

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
6.03	Plastic	0.10	2.13	5.18

Status of Well

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

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, specify

If pumping discontinued, give reason: Dry

Pump intake set at (m/ft)

Pumping rate (l/min / GPM): NOT TESTED

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): monitoring

Well production (l/min / GPM): well installed

Disinfected? [ ] Yes [ ] No

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

Water Details

Water found at Depth (m/ft)	Kind of Water	
Ø	[ ] Fresh [X] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	0.91	15.24
0.91	5.18	11.43

Map of Well Location

Please provide a map below following instructions on the back.

McAdoos Lane

Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
G.E.T Drilling LTD	7058

Business Address (Street Number/Name)	Municipality
2216 Drive-In RD	Napanee

Province	Postal Code	Business E-mail Address
ON	K7R3L1	getdrilling@mycanada.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 354 7767	Turnbull, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3042		2019 09 16

Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [X] No	YYYY MM DD	2019 09 03

Ministry Use Only

Audit No. Z322938

Received OCT 1 1 2019

0506E (2018/12)

Ministry's Copy

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Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A214581

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	1799760 Ontario Inc.	francoistrudel2@gmail.com	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1010 Polytek Street, Unit 9	Ottawa	Ontario	K1J9H9	613 695 2406

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
46 Warne Crescent	Kingston City	24	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	K7K6Z5

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	382016	4902583		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	abandon well		bentonite	5.0	0

Annular Space

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

Results of Well Yield Testing

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

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

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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

Construction Record - Screen

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

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

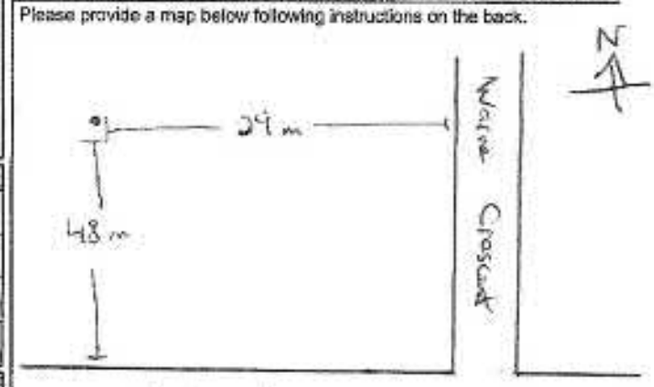
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Mackelkan Water Technology	3150

Business Address (Street Number/Name)	Municipality
388 Matthewson Road	Odessa

Province	Postal Code	Business E-mail Address
Ontario	K0H2H0	info@mwater.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6138680550	Schaesh Keith

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2713		20 19 04 26

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	2019 04 26

Ministry Use Only

Audit No. Z297080

MAY 07 2019

Received

0506E (2014/11)

Ministry's Copy

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Ontario — Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. *(Place Sticker and/or Print Below)* **Tag#: A146405**

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
	8413525 ONTARIO INC.	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
PH-05, 233 South Park RD	MARKHAM	ON	L3T0B3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1213 DIVISION ST.	CITY of kingston	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
frontenac County	KINGSTON	Ontario	K7K5W4

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380427	4902610	—	—

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	Packed, Fill	0	0.91
Brown	clay	silty	Dry	0.91	3.66
Grey	clay	silty	Wet	3.66	6.10

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.30	Flushcover w/Cement	
0.30	2.74	Bentonite chips	
2.74	6.10	Sand #3	

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [X] Boring [ ] Digging [ ] Air percussion [ ] Other, specify

Well Use

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

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, specify

If pumping discontinued, give reason: NOT TESTED

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)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	2.44 m		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

MONITORING Well Installed

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (cm/in)	Depth (m/ft) From	To
5.08	Plastic	SCH 40	0	3.05
17.78	Steel Cover	0.32 cm	0	0.30

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
5.08	Plastic	0.10	3.05	6.10

Status of Well

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

Water Details

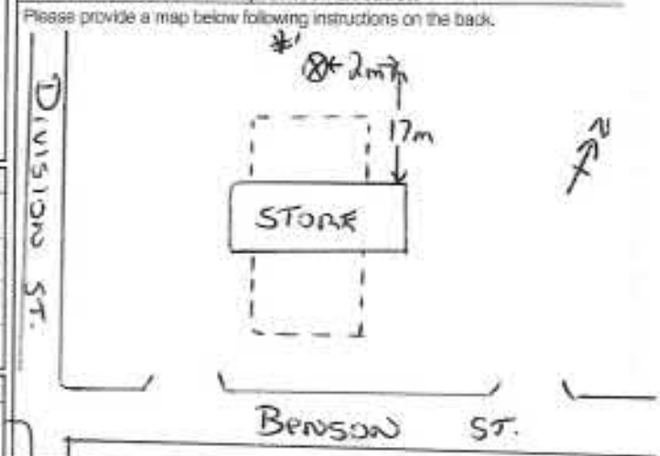
Water found at Depth (m/ft)	Kind of Water	
3.66	[ ] Fresh [X] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	0.30	21.59
0.30	6.10	16.51

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
G.F.T. Drilling LTD.	7085

Business Address (Street Number/Name)	Municipality
278 Drive-In RD	Napanee

Province	Postal Code	Business E-mail Address
ON	K7R3L1	getdrilling@mycable.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6135447 67	Turnbull, mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3042		2014 05 26

Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [X] No		2014 04 25

Ministry Use Only

Audit No. Z 187095

JUL 11 2014

Ontario | Ministry of the Environment

Well Number: A 042967

A042967

Well Record

Regulation 903 Ontario Water Resources Act

page ___ 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 **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 Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

[redacted]

Address of Well Location (County/District/Municipality)	Township	Lot	Concession
FRONTENAC	KINGSTON	25	5

RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
2255 PERTH R.D		

GPS Reading	NAD	Zone	Easting	Northing	Unit Make/Model	Mode of Operation
	83	18	390137	4904609	MAGELLAN	☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To
BLUE	CLAY			0	4.8
BROWN	SHALE			4.8	5.4
BLUE	LIMESTONE			5.4	18.3

STEP TEST SHOWS WELL WILL PRODUCE 25 L.P.M.

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	6	25.4
6	18.3	15.25

Water Record

Water found at ___ Metres	Kind of Water
7.6 m / 1.6 ft	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Other UNTESTED
12.4	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Other: UNTESTED
___ m	☐ Fresh ☐ Sulphur ☐ Salty ☐ Minerals ☐ Other:

After test of well yield, water was: ☑ Clear and sediment free ☐ Other, specify

Chlorinated ☑ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
Casing				
15.8	☑ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.48	0	6
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	Slot No.		
No Casing or Screen				
	☑ Open hole		6	18.3

Test of Well Yield

Pumping test method: SUB

Pump intake set at (metres): 18.0

Pumping rate (litres/min): 18.2

Duration of pumping: 2 hrs + 0 min

Final water level end of pumping: 4.9 metres

Recommended pump type: ☐ Shallow ☑ Deep

Recommended pump depth: 17.7 metres

Recommended pump rate: 18.2 (litres/min)

If flowing give rate (litres/min):

If pumping discontinued, give reason:

Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery Water Level Metres
Static Level	0		
1	.6	1	4.3
2	1.2	2	3.7
3	1.8	3	3.4
4	2.1	4	3.2
5	2.3	5	2.9
10	2.9	10	2.2
15	3.3	15	1.5
20	3.8	20	1.0
25	4.0	25	.6
30	4.3	30	.3
40	4.6	40	0
50	4.8	50	0
60	4.9	60	0

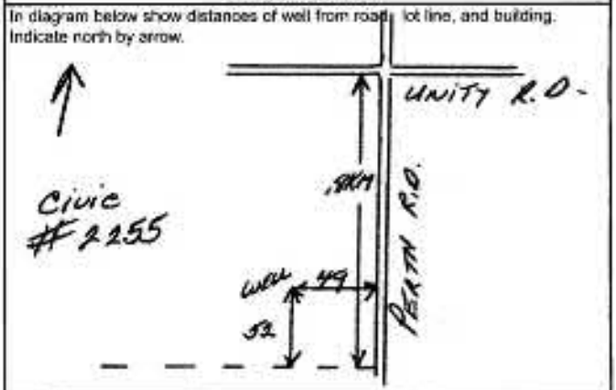
Plugging and Sealing Record

☑ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
6	0	CEMENT SLURRY	.2

Location of Well

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



Method of Construction

☑ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☑ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

☑ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☑ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Audit No. Z 48014

Date Well Completed: YYYY 06 MM 11 DD 9

Was the well owner's information package delivered? ☐ Yes ☐ No

Date Delivered: YYYY 06 MM 11 DD 9

Well Contractor/Technician Information

Name of Well Contractor: JACK KNOX WELLDRILLING

Well Contractor's Licence No.: 3202

Business Address (street name, number, city etc.): GLENBURNIE

Name of Well Technician (last name, first name): KNOX JOHN

Well Technician's Licence No.: 2879

Signature of Technician/Contractor: x Ron Knox

Date Submitted: YYYY MM DD

Ministry Use Only

Data Source

Contractor: 3202

Date Received: YYYY MM DD

Date of Inspection: YYYY MM DD

Remarks

Well Record Number

0506E (09/03)

Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Place Sticker and/or Print Below)
Tag#: A 214581

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
	KCAP Kingston Inc.		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
45 Saint Clair St. W Suite 1001	Toronto	ON	M4V1K9	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
46 Warne Crescent			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Kingston	Ontario	K7K6Z5

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18T	0379769	4901693		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Grey	Clay		Wet Grey Clay	0'	14'
3 MW's set on site in Cluster					

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	3'	3/8" Bentonite chips	
3'	14'	#2 Silica Sand	

Results of Well Yield Testing

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

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

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☒ Test Hole ☒ Monitoring ☐ 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"	Plastic	.25"	0'	4'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2.25"	Plastic	.10	4'	14'

Status of Well

☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☒ Observation and/or Monitoring Hole ☐ Aeration (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

Water found at Depth (m/ft) Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify

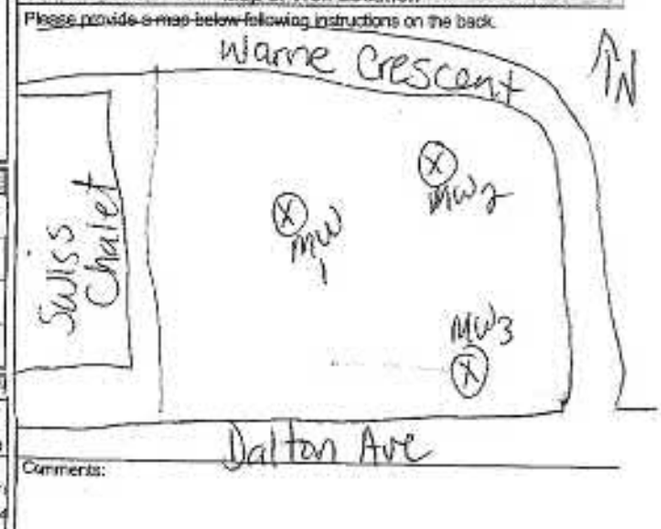
Water found at Depth (m/ft) Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0'	14'	5"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Canadian Environmental Drilling & Contractors Inc	7323

Business Address (Street Number/Name)	Municipality
4102 Perth Rd	Verona South Frontenac

Province	Postal Code	Business E-mail Address
ON	K0H1X0	Jonathan@cavedc.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 353 2231	FILLION JONATHAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3315		2017/06/09

Well owner's information package delivered: ☐ Yes ☒ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2016/12/08

Ministry Use Only

Audit No. Z230966

JUL 10 2017

Received

0506E (2014/11) Ministry's Copy

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UTM Z E

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The Ontario Water Resources Commission Act

WATER WELL RECORD

GROUND WATER BRANCH
22 No 597
MAY 2
ONTARIO WATER RESOURCES COMMISSION
APL

Basin 24 County or District FRONTENAC Township, Village, Town or City KINGSTON

Con. — Lot ~~DATUM, ST. N~~ Date completed 5 (day) MAR. (month) 63 (year)

Owner PUBLIC UTILITIES COM. (print in block letters) Address KINGSTON

Casing and Screen Record

Inside diameter of casing 6.538"

Total length of casing 118'

Type of screen NIL

Length of screen "

Depth to top of screen "

Diameter of finished hole 6"

Pumping Test

Static level 6'

Test-pumping rate 11 G.P.M.

Pumping level 100

Duration of test pumping 5 HR.

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 10 G.P.M.

with pump setting of 115 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
TOP SOIL	0	2		
BLUE CLAY	2	113	113	
BLUE LIMESTONE	113	130	122	FRESH.

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

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

Drilling or Boring Firm C. GOODBERRY WELL DRILLING LTD.

Address 196 INDIAN RD. KINGSTON

Licence Number 910

Name of Driller or Borer H. McGEE

Address CLAYTON

Date 5/3/63.

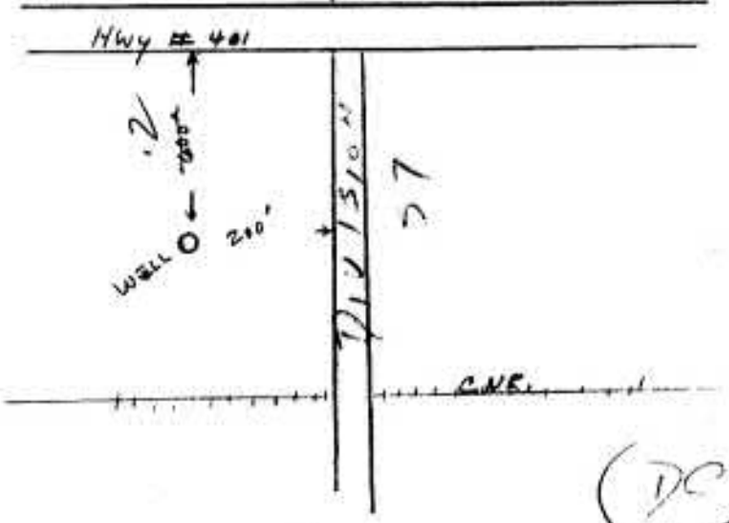
C. Goodberry
(Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



DC

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	1799760 Ontario Inc.	francostruction12@gmail.com	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1010 Polytek Street, Unit 9	Ottawa	Ontario	K1J9H9	6136952406

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
46 Warne Crescent	Kingston City	24	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	K7K6Z5

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	393025	4902537		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	abandon well		bentonite	3.0	0

Annular Space

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

Results of Well Yield Testing

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

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

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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

Status of Well

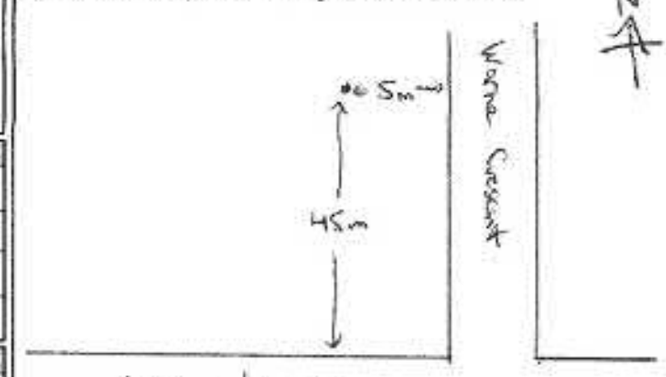
☐ Water Supply ☐ Replacement Well ☐ Test Hole ☐ Recharge Well ☐ Dewatering Well ☐ Observation and/or Monitoring Hole ☐ Alteration (Construction) ☐ Abandoned, Insufficient Supply ☐ Abandoned, Poor Water Quality ☐ Abandoned, other, specify ____ ☐ Other, specify ____

Construction Record - Screen

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

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Water Details

Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MacLellan Water Technology	3750

Business Address (Street Number/Name)	Municipality
388 Millhaven Road	Odessa

Province	Postal Code	Business E-mail Address
Ontario	K0H2H0	info@mwt.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6133860550	Schkerch, Keith

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2730		2019-04-26

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	2019-04-25

Ministry Use Only

Audit No. Z297079

MAY 07 2019

Received

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Ontario — Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. (Place Sticker and/or Print Below) **Tag#: A146406**

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	[ ] Well Constructed by Well Owner
	8413525 ONTARIO LTD.	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
PH-05, 233 South Park RD.	Markham	ON	L3T0B3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1213 Division Street	CITY of KINGSTON	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac County	KINGSTON	Ontario	K7K5W4

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380422	4902525	—	—

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	Packed, fill	0	0.91
Brown	clay	silt	Dry	0.91	4.88
Gray	clay		wet	4.88	6.10

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0	0.30	flushcover w/cement	
0.30	2.74	Bentonite chips	
2.74	6.10	Sand #3	

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [X] Boring [ ] Digging [ ] Air percussion [ ] Other, specify

Well Use

[ ] Public [ ] Commercial [ ] Not used [ ] Domestic [ ] Municipal [ ] Dewatering [ ] Livestock [ ] Test Hole [X] Monitoring [ ] 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	Depth (m/ft) To
17.78	Steel Cover	0.32	0	0.30
5.08	Plastic	SCH 40	0	3.05

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
5.08	Plastic	0.10	3.05	6.10

Status of Well

[ ] Water Supply [ ] Replacement Well [ ] Test Hole [ ] Recharge Well [ ] Dewatering Well [X] 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	
2.74	[ ] Fresh [X] Untested [ ] Gas [ ] Other, specify	
(m/ft)	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	
(m/ft)	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	0.30	21.59
0.30	6.10	16.51

Results of Well Yield Testing

After last of well yield, water was: [ ] Clear and sand free [ ] Other, specify

If pumping discontinued, give reason:

Pump intake set at (m/ft)

Pumping rate (l/min / GPM) NOT TESTED

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) monitoring well

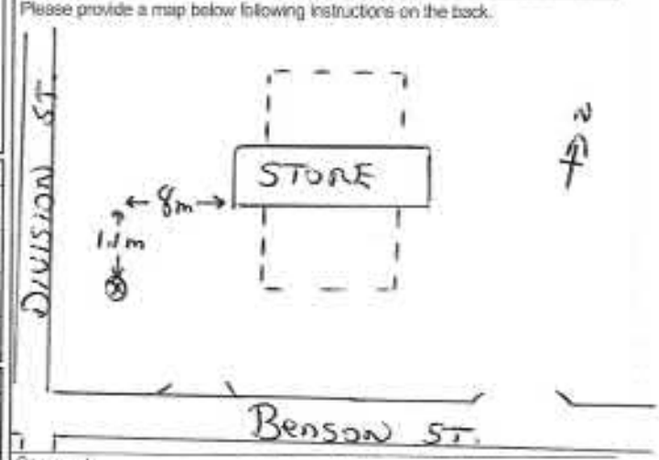
Well production (l/min / GPM) installed

Disinfected? [ ] Yes [ ] No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	2.29m		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50			
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
G.E.T. Drilling LTD.	7085

Business Address (Street Number/Name)	Municipality
278 Drive-In RD	Napanee

Province	Postal Code	Business E-mail Address
ON	K7R3L1	getdrilling@mycando.ca

Bus Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
6135544260	Turnbull, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3042		20140526

Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [X] No		20140425

Ministry Use Only

Audit No. Z187096

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Ontario — Ministry of the Environment

Measurements recorded in: [X] Metric [ ] Imperial

Well Tag No. (Place Sticker and/or Print Below): A112942

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

First Name: | Last Name / Organization: Shell Canada Products Ltd. | E-mail Address: | [ ] Well Constructed by Well Owner

Mailing Address (Street Number/Name): 90 Sheppard Ave. E. Suite 600 | Municipality: Toronto | Province: ON | Postal Code: M2N 6X2 | Telephone No. (inc. area code):

Well Location

Address of Well Location (Street Number/Name): 1213 DIVISION STREET | Township: | Lot: | Concession:

County/District/Municipality: | City/Town/Village: KINGSTON | Province: Ontario | Postal Code: K7K 5W4

UTM Coordinates: NAD 83 | Zone: 18 | Easting: 383043 | Northing: 4902579 | Municipal Plan and Sublot Number: | Other:

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
Dark Br.	Sand & Gravel	Silt	Loose	0.15	3.66
Dark grey	Silty Clay/Clay	Sand	~~Stiff~~ dense	3.66	5.48

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
5.48	0.60	Sand Silica	0.034
0.60	0.30	Bentonite	0.003
0.30	0.0	Concrete	0.015

Results of Well Yield Testing

After test of well yield, water was: [ ] Clear and sand free [ ] Other, specify

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

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

Method of Construction

[ ] Cable Tool [ ] Diamond [ ] Rotary (Conventional) [ ] Jetting [ ] Rotary (Reverse) [ ] Driving [X] Boring [ ] Digging [ ] Air percussion [ ] Other, specify

Well Use

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

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fiberglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From	To
5.2	Plastic	0.39	0.0	0.9

Status of Well

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

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
6.03	Plastic	10	0.9	5.48

Water Details

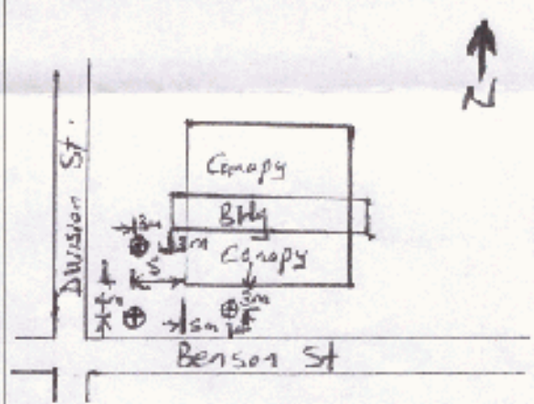
Water found at Depth (m/ft)	Kind of Water	
0.6	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	
	[ ] Fresh [ ] Untested [ ] Gas [ ] Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0.3	5.48	11.4
0.0	0.3	15.2

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor: Fisher Environmental Ltd. | Well Contractor's License No.: 6946

Business Address (Street Number/Name): 400 Esna Park Drive #15 | Municipality: Markham

Province: Ontario | Postal Code: L3R 3K2 | Business E-mail Address: fisher@fisherenvironmental.com

Bus. Telephone No. (inc. area code): 9054775758 | Name of Well Technician (Last Name, First Name): Fisher, David

Well Technician's License No.: 2556 | Signature of Technician and/or Contractor | Date Submitted: 20110603

Well owner's information package delivered: [X] Yes [ ] No | Date Package Delivered: 20110603 | Date Audit Completed: 20110527

Ministry Use Only: Audit No. Z131586 | Received: JUN 09 2011

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Ministry's Copy

Ontario — Ministry of the Environment

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. (Sticker supplied by Ministry): **Tag#: A146407**

Well Record

Regulation 903 Ontario Water Resources Act

Well Owner's Information

~~First Name~~	~~Last Name~~ / Organization	E-mail Address	☐ Well Constructed by Well Owner
	8413525 ONTARIO LTD	—	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
P.H. - 05, 233 South Park RD.	Markham	ON	L3T0B3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
1213 DIVISION ST.	city of kingston	—	—

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac County	KINGSTON	Ontario	K7K5W4

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	380419	4902568	—	—

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	Clay	Stones, Gravel	Fill	0	4.27
Brown	Clay			4.27	4.57

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	0.30	Flushcover W/Cement	
0.30	1.22	Bentonite chips	
1.22	4.57	Sand #3	

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☒ Test Hole ☐ Monitoring
☐ 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	Depth (m/ft) To
17.78	Steel Cover	0.32	0	0.30
5.08	Plastic	SCH 40	0	1.52

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
5.08	Plastic	SCH 40	1.52	4.57

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	Kind of Water	
1.22 (m/ft) ☐ Gas	☐ Fresh ☒ Untested ☐ Other, specify	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify	
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, specify	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	0.30	21.59
0.30	4.57	16.51

Results of Well Yield Testing

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

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)

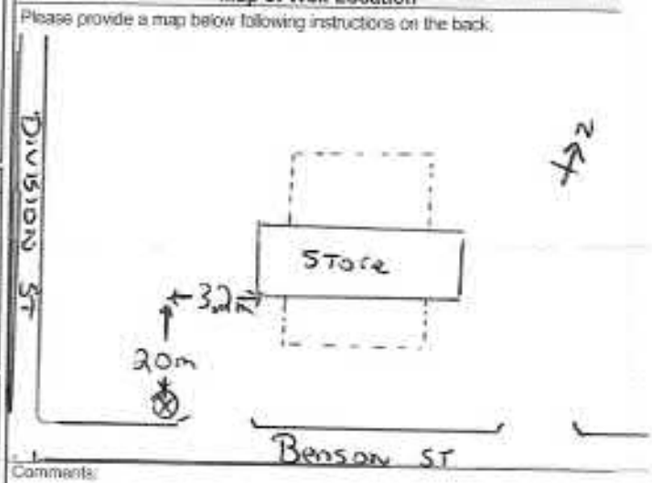
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	1.22m			
1			1	
2			2	
3			3	
4			4	
5			5	
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.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
GET Drilling LTD	7085

Business Address (Street Number/Name)	Municipality
278 Drive-in RD	Napanee

Province	Postal Code	Business E-mail Address
ON	K7R3L1	getdrilling@mycando.ca

Bus Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613354 4760	Turnbull, Mike

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3042		20140526

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		20140425

Ministry Use Only

Audit No. Z 187097

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☑ Metric ☐ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	1799760 Ontario Inc.	francoistrudel@gmail.com	

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
1010 Polytek Street, Unit 9	Ottawa	Ontario	K1J9H9	613 695 2406

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
46 Wayne Crescent	Kingston City	24	3

County/District/Municipality	City/Town/Village	Province	Postal Code
Frontenac	Kingston	Ontario	K7K6Z5

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	382056	4902520		

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

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From	To
	abandon well		bentonite	5.0	0

Annular Space

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

Results of Well Yield Testing

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

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

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☐ Monitoring ☐ 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

Construction Record - Screen

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

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

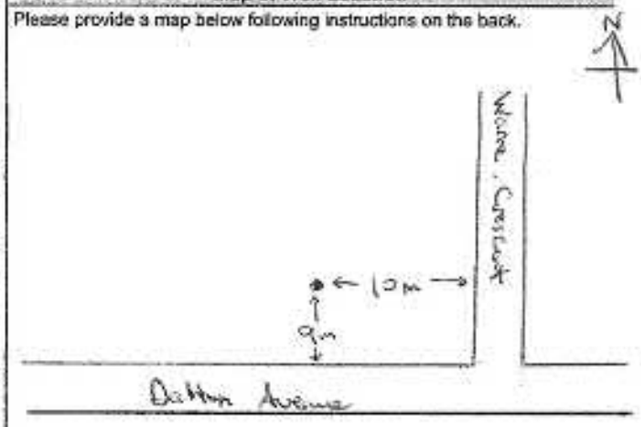
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify ____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
MacLellan Water Technology	3750

Business Address (Street Number/Name)	Municipality
388 Millhaven Road	Odessa

Province	Postal Code	Business E-mail Address
Ontario	K0H2H0	info@mwater.ca

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 386 0550	Schwarb, Keith

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2730		2019 MM 06

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	YYYY MM DD	2019 MM 15

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Audit No. Z297078

MAY 07 2019

Received

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Measurements recorded in: ☐ Metric ☑ Imperial

Well Tag No. (Place Sticker and/or Print Below): A117167 A117167

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
Suncor Energy			

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
3275 Rebecca St.	Oakville	ON	L6L6N5	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
45 Dalton Ave			

County/District/Municipality	City/Town/Village	Province	Postal Code
	Kingston	Ontario	K7K6C2

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	379872	4901653		

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
GRAY	Clay		dense	0	25'

5 MW's Set on Site in Cluster.

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	13'	3/8" Bentonite chips	
13'	25'	#2 Silica Sand	

Method of Construction

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

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☑ Test Hole ☑ Monitoring ☐ 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	Depth (m/ft) To
2"	Plastic	.25"	0	15'

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
2.25"	Plastic	.10	15'	25'

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

Results of Well Yield Testing

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

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		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Water Details

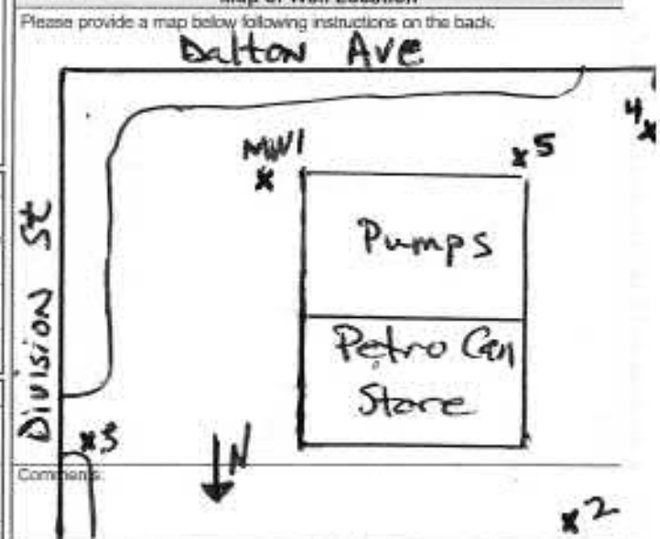
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify
Water found at Depth (m/ft)	Kind of Water: ☐ Fresh ☐ Untested ☐ Gas ☐ Other, specify

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)
0	25'	8"

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Can. Envir. Drilling & Contractors Inc	7323

Business Address (Street Number/Name)	Municipality
4102 Perth Road	Inverary South Frontenac

Province	Postal Code	Business E-mail Address
ON	K0H1X0	Jonathan@canedc.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
613 353 2231	FILLION, JONATHAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3315		20130630

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☐ Yes ☐ No		Audit No. Z168412
	Date Work Completed 20130524	Date Rec'd JUL 05 2013

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Well Tag No. for Master Well (Place Sticker and/or Print Below): **A 090636**

MW #5

Master Well Record for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

of 2

Master Well Owner's and Land Owner's Information

First Name: Shell Canada Products | Last Name: | E-mail Address:

Mailing Address (Street Number/Name, RR#): 90 Sheppard Ave. East #600 | Municipality: Toronto | Province: ON | Postal Code: M2N 6H2 | Telephone No. (inc. area code): 416 227 7111

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): 1213 Division Street | Township: | Lot: | Concession:

County/District/Municipality: | City/Town/Village: Kingston | Province: Ontario | Postal Code:

UTM Coordinates: Zone: 18 | Easting: 3 3 0 4 2 | Northing: 4 9 0 2 5 6 2 | GPS Unit Make: Garmin | Model: Etrex | Mode of Operation: ☐ Differentials ☑ Averaged ☐ Differentials, specify

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	To
Grey	Gravel			0.1	2.1
Brown	Sand + Gravel			2.1	3.4
Grey	Sand			3.4	4.1
Grey/Brown	Silty Clay			4.1	6.1

Hole Diameter

Depth (Metres) From	To	Diameter (Centimetres)
0	6.1	20

Water Use

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

Method of Construction

☐ Cable Tool ☐ Air Percussion ☐ Digging
☐ Rotary (Conventional) ☐ Diamond ☐ Boring
☐ Rotary (Reverse) ☐ Jetting ☑ Other, specify HSA
☐ Rotary (Air) ☐ Driving

Status of Well

☑ Test Hole ☐ Abandoned, Insufficient Supply
☐ Replacement Well ☐ Abandoned, Poor Water Quality
☐ Dewatering Well ☐ Other, specify
☐ Alteration (Construction) ☐ Abandoned, other, specify

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From	To
5.1	PVC	Schd 40	0	2.4

No Casing and Screen Used

Open Hole: ☐ Yes ☑ No

Static Water Level Test

0.4 Metres

Screen

☐ Galvanized ☐ Steel ☐ Fibreglass ☐ Concrete ☑ Plastic

Outside Diameter (Centimetres): 5.1 | Slot No: 10

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0.3	0.9	Bentonite	18 kgs

Water Details

Water found at Depth: Metres ☐ Gas | Kind of Water: ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth: Metres ☐ Gas | Kind of Water: ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals
Water found at Depth: Metres ☐ Gas | Kind of Water: ☐ Fresh ☐ Salty ☐ Sulphur ☐ Minerals

Disinfected ☐ Yes ☑ No. If no, provide reason: Monitoring Well

Date Water Well Completed (yyyy/mm/dd): 2010/07/08

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster: 8

Total Wells on this Property: Unknown

Please indicate Number of Cluster Well Information Log Sheets Submitted: 1

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.

☑ Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to

[redacted]

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling | Well Contractor's Licence No.: 1814

Business Address (Street No./Name, number, RR): 410 Rue Principale | Municipality: Grenville Sur La Rouge

Province: QC | Postal Code: J0V 1B0 | Business E-mail Address: downing@hawk.igs.net

Business Telephone No. (inc. area code): 819 242 6469 | Name of Well Technician (Last Name, First Name): Downing, Bruce

Well Technician's Licence No.: 2173 | Signature of Technician: | Date Submitted (yyyy/mm/dd): 2010/08/04

Ministry Use Only

Audit No.: M 06779 | Well Contractor No.:

Date Received (yyyy/mm/dd): AUG 17 2010 | Date of Inspection (yyyy/mm/dd):

Remarks:

1082 (11/2006)

Ministry's Copy

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Ontario Ministry of the Environment

Well Tag No. for Master Well: **A 090636** (Print Well Tag No.) A090636

Cluster Well Information for Cluster Well Construction

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Property Owner's Information

First Name: Shell Canada Products | Last Name: | Mailing Address (Street No./Name, RR): 90 Sheppard Avenue East #600 | Municipality: Toronto

Province: Ontario | Postal Code: M2N 6Y2 | E-mail Address: | Telephone No. (inc. area code): 416 227 7111

Cluster Well Information

Address of Well Location (Street Number/Name, RR): 1213 Division | Lot: | Concession: | Township: | County/District/Municipality:

City/Town/Village: Kingstone | Province: Ontario | Postal Code: | GPS Unit Make: Garmin | Model: Etrex | Unit Mode of Operation: ☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify:

Upon request

Signature of Technician/Contractor: [signature] | Date (yyyy/mm/dd): 2010/08/04

Well in Cluster	UTM Coordinates Zone	Easting	Northing	Est. Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	To	Annular Space Sealant Used	Static Water Level (metres)	Abandoned Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
MW 1	18	380448	4902575	4.6	20	HSA	PVC	1.2	1.2	4.3		0.8	Bentonite		2010/07/07
MW 2	18	380444	4902596									0.8			2010/07/07
MW 3	18	380428	4902604									1.3			2010/07/07
MW 4	18	380421	4902597									1.7			2010/07/07
MW 5	18	380418	4902587									1.8			2010/07/08
MW 7	18	380441	4902563									1.1			2010/07/08
MW 6	18	380420	4902572	5.3								1.0			2010/07/08

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling | Business Address (Street Number/Name, RR): 410 Rue Principale Grenville | Municipality: Sur La Rouge | Province: QC

Postal Code: J0V 1B0 | Business Telephone No. (inc. area code): 819 242 6419 | Well Contractor's Licence No.: 1844 | Business E-mail Address: downing@hawk.igs.net

Name of Well Technician (First Name, Last Name): Bruce Downing | Well Technician's Licence No.: 2173 | Date Submitted (yyyy/mm/dd): 2010/08/04 | Signature of Technician: [signature]

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2010/07/07 | Date Last Well in Cluster Constructed (yyyy/mm/dd): 2010/07/08

Ministry Use Only

Date Received (yyyy/mm/dd): AUG 17 2010 | Date Inspected (yyyy/mm/dd):

Audit No.: C08010 | Remarks: M06779

1861 (11/2006)

Ministry's Copy

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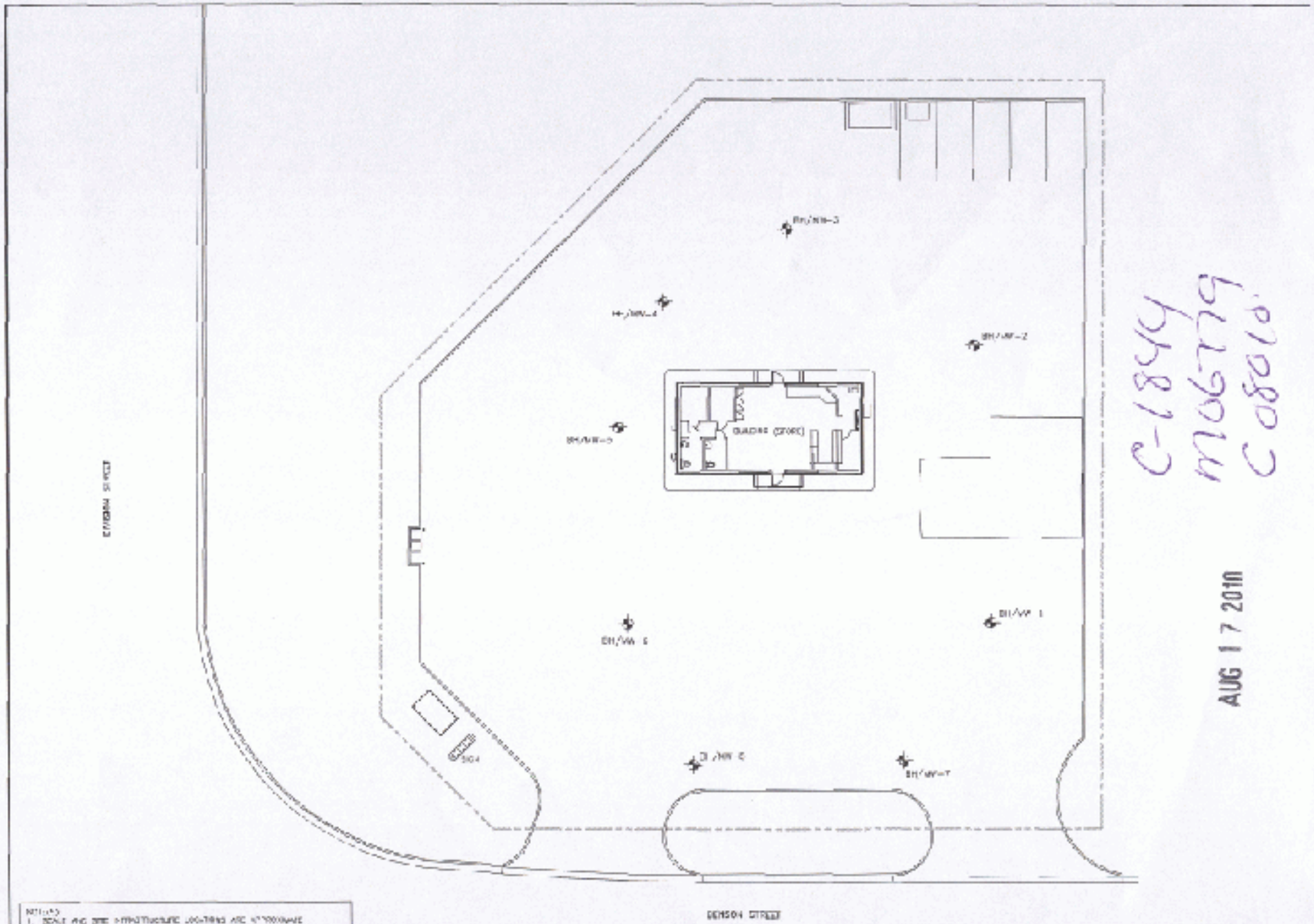


NOTES:
1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS PLOT MAY BE LOST IF IT IS PHOTOCOPIED, RAPHI OR PRINTED FROM PDF

SOURCES:
1. JBB ENGINEERING INC. SITE PLAN, FILE [illegible] DWG [illegible], DECEMBER 21, 1994
2. JBB ENGINEERING INC. PRINT PLAN, FILE [illegible], DWG [illegible], AUGUST 18, 2006
3. [illegible]
4. C.A. SECTION LTD. ONTARIO LAND SURVEYOR, PLAN OF SURVEY OF PARTS OF LOTS 10, 11, 12 & 13, REGISTERED PLAN No. 101, CITY OF KINGSTON, FILE [illegible] AND [illegible], 1994

SNC·LAVALIN Environment

Client/Location: [illegible] DENISON STREET KINGSTON, ONTARIO

Project No: [illegible] Figure: [illegible]

Drawn: [illegible] Checked: [illegible]

C-1844
M06779
C08010

AUG 17 2010

Appendix A3

Borehole Logs and k-Test results

DILLON CONSULTING

Borehole ID: P1

DILLON CONSULTING

Client: Utilities Kingsotn
Project No.: 22-4641
Drilling Co.: G.E.T Drilling
Observer: DO

Project: Kingston Regional Biosolids and Biogas Facility
Location : Knox Farm
Drilling Method: Auger / Air Hammer
Date Started: Oct 20, 2022 Date Completed: Oct 20, 2022

Depth Scale (m)	Stratigraphic Description	Depth (m)	Sample: Soil Sample ID	Sample: Lab Analysis	Sample: PID (HEXAEL) ppm	Elev. (masl)
	Top soil Brown to dark brown, organics, moist, trace fine to medium gravel	0.1				
	Silty Clay Trace fine gravel, light brown, firm, moist					
0.5						107.0
1.0						106.5
			GS-1	Grain size	-	
1.5						106.0
2.0						105.5
2.5	Becomes gray and wet at 2.45 m bgs					105.0
3.0						104.5
	Bedrock Gray limestone / shale	3.1				
3.5						104.0
4.0						103.5
4.5						103.0
		4.7				

Well Construction: Bentonite; Sand; Screen

Notes:
Augered from 0 to 3.1 m mbgs
Air Hammer to 3.1 to 4.7 m bgs
Borehole terminated at 4.7 m bgs

Latitude: 44.27287193 Longitude: -76.50494995

LITHOLOGY SYMBOLS: Organics; Silt / Clay; Limestone

Water Level (m bgs) : 1.06

m bgs - Meters Below Ground Surface
GS - Grain Size

Casing Diameter (inches):
Grade Elevation (m asl) : 107.47
Top of Casing Elevation (m asl) : 108.13
Water Level (m asl) : 106.40
Water Level (m bgs) : 1.06

DILLON MW MOD 224641 - UTILITIES KINGSTON.GPJ 22-11-23

Borehole ID: P2

DILLON CONSULTING

Client: Utilities Kingsotn	Project: Kingston Regional Biosolids and Biogas Facility
Project No.: 22-4641	Location : Knox Farm
Drilling Co.: G.E.T Drilling	Drilling Method: Auger / Air Hammer
Observer: DO	Date Started: Oct 20, 2022 Date Completed: Oct 20, 2022

Depth Scale (m)	Stratigraphic Description	Depth (m)	Sample: Soil Sample ID	Sample: Lab Analysis	Sample: PID (HEXAEL) ppm	Well Construction	Elev. (masl)
	Top soil Dark brown, organics, moist, trace fine to medium gravel	0.1					
	Silty Clay Trace fine gravel, dark gray, firm, moist						
0.5						Bentonite	107.0
1.0							106.5
1.5							106.0
2.0							105.5
2.5							105.0
	Bedrock Gray limestone / shale	2.6					
3.0						Sand Screen	104.5
3.5							104.0
4.0							103.5
4.5		4.6					103.0

Notes:
Augered from 0 to 2.6 m bgs
Air Hammer from 2.6 to 4.6 m bgs
Borehole terminated at 4.6 m bgs

Latitude: 44.27365865 Longitude: -76.50589366

LITHOLOGY SYMBOLS: Organics; Silt / Clay; Limestone

Water Level (m bgs) : 2.13

m bgs - Meters Below Ground Surface
GS - Grain Size

Casing Diameter (inches):
Grade Elevation (m asl) : 107.43
Top of Casing Elevation (m asl) : 108.28
Water Level (m asl) : 105.3
Water Level (m bgs) : 2.13

DILLON MW MOD 224641 - UTILITIES KINGSTON.GPJ 22-11-23

Borehole ID: P3

DILLON CONSULTING

Client: Utilities Kingsotn	Project: Kingston Regional Biosolids and Biogas Facility
Project No.: 22-4641	Location : Knox Farm
Drilling Co.: G.E.T Drilling	Drilling Method: Auger / Air Hammer
Observer: DO	Date Started: Oct 20, 2022 Date Completed: Oct 20, 2022

Depth Scale (m)	Stratigraphic Description	Depth (m)	Sample: Soil Sample ID	Sample: Lab Analysis	Sample: PID (HEXAEL) ppm	Well Construction	Elev. (masl)
	Top soil Dark brown, organics, moist, trace fine to medium gravel	0.1					
	Silty Clay Trace fine gravel, gray to dark gray, firm, moist						
0.5						Bentonite	104.5
1.0							104.0
1.5							103.5
2.0	**Bedrock** Gray limestone / shale	2					103.0
2.5							102.5
3.0						Sand Screen	102.0
3.5							101.5
4.0							101.0
4.5							100.5
		4.9					

Notes:
Augered from 0 to 2 m bgs
Air Hammer from 2 to 4.9 m bgs
Borehole terminated at 4.9 m bgs

Latitude: 44.27298502 Longitude: -76.5070959

DILLON MW MOD 224641 - UTILITIES KINGSTON.GPJ 22-11-23

LITHOLOGY SYMBOLS: Organics; Silt / Clay; Limestone

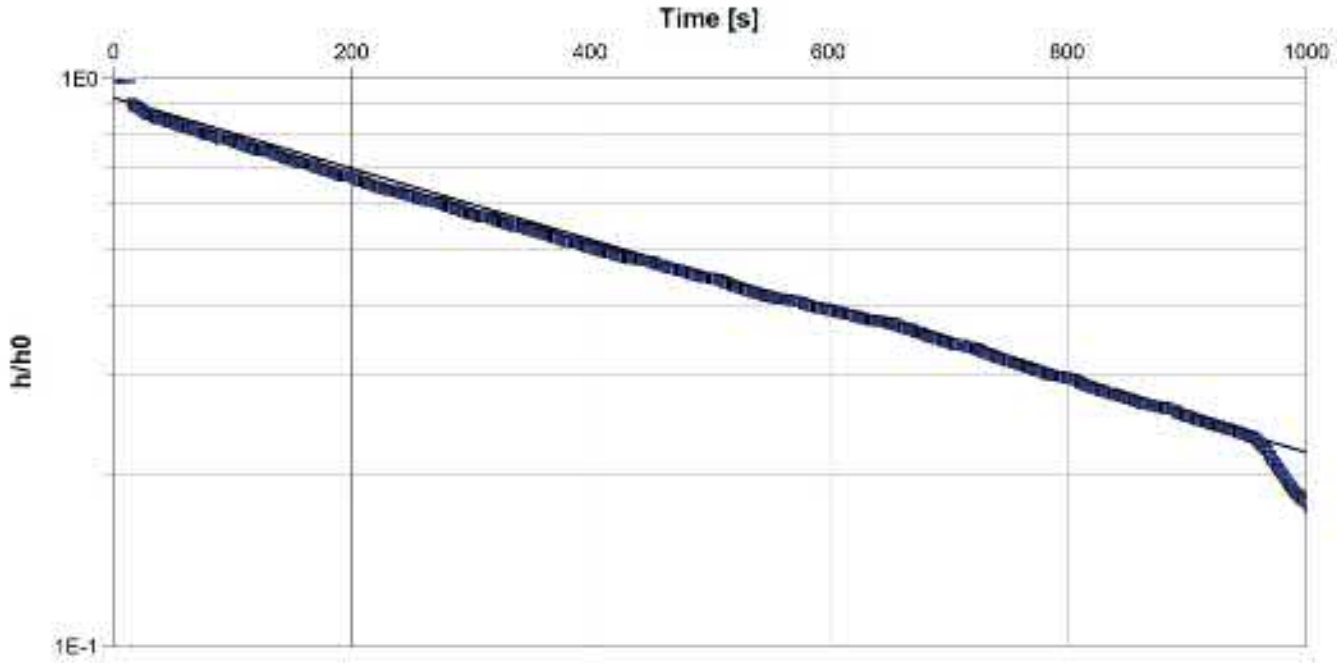
m bgs - Meters Below Ground Surface
GS - Grain Size

Casing Diameter (inches):
Grade Elevation (m asl) : 104.99
Top of Casing Elevation (m asl) : 106.01
Water Level (m asl) : 103.84
Water Level (m bgs) : 1.14

Water Level (m bgs) : 1.14

	Slug Test Analysis Report
	Project: Knox Farm - Hydrogeology Investigation
	Number: 22-4641
	Client: Utilities Kingston

Location: Knox Farm	Slug Test: Rising Head Test	Test Well: P1
Test Conducted by: DO/TN		Test Date: 2022-10-26
Analysis Performed by: DO	P1 - Rising Head Test	Analysis Date: 2022-11-22
Aquifer Thickness: 3.64 m		



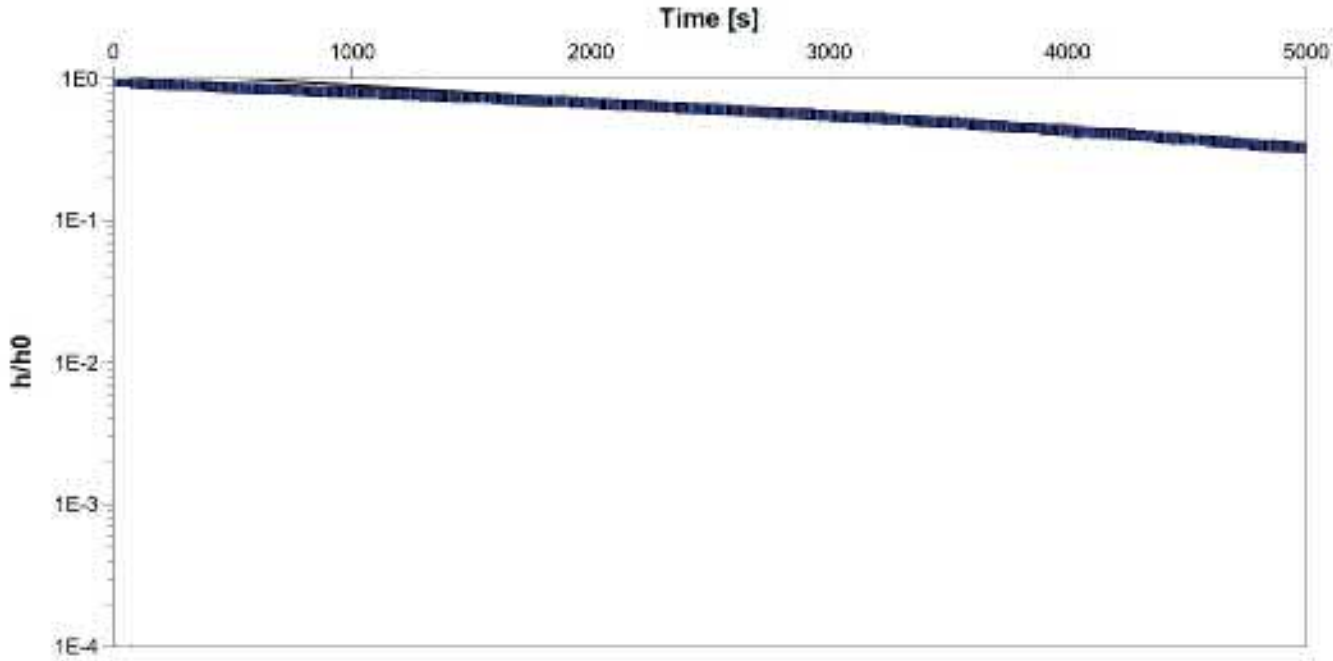
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [m/s]	
P1	2.23×10^{-7}	

Well screened at silty clay and limestone interface

	Slug Test Analysis Report
	Project: Knox Farm - Hydrogeology Investigation
	Number: 22-4641
	Client: Utilities Kingston

Location: Knox Farm	Slug Test: Rising Head Test	Test Well: P2
Test Conducted by: DO/TN		Test Date: 2022-10-26
Analysis Performed by: DO	P2 - Rising Head Test	Analysis Date: 2022-11-16
Aquifer Thickness: 2.47 m		



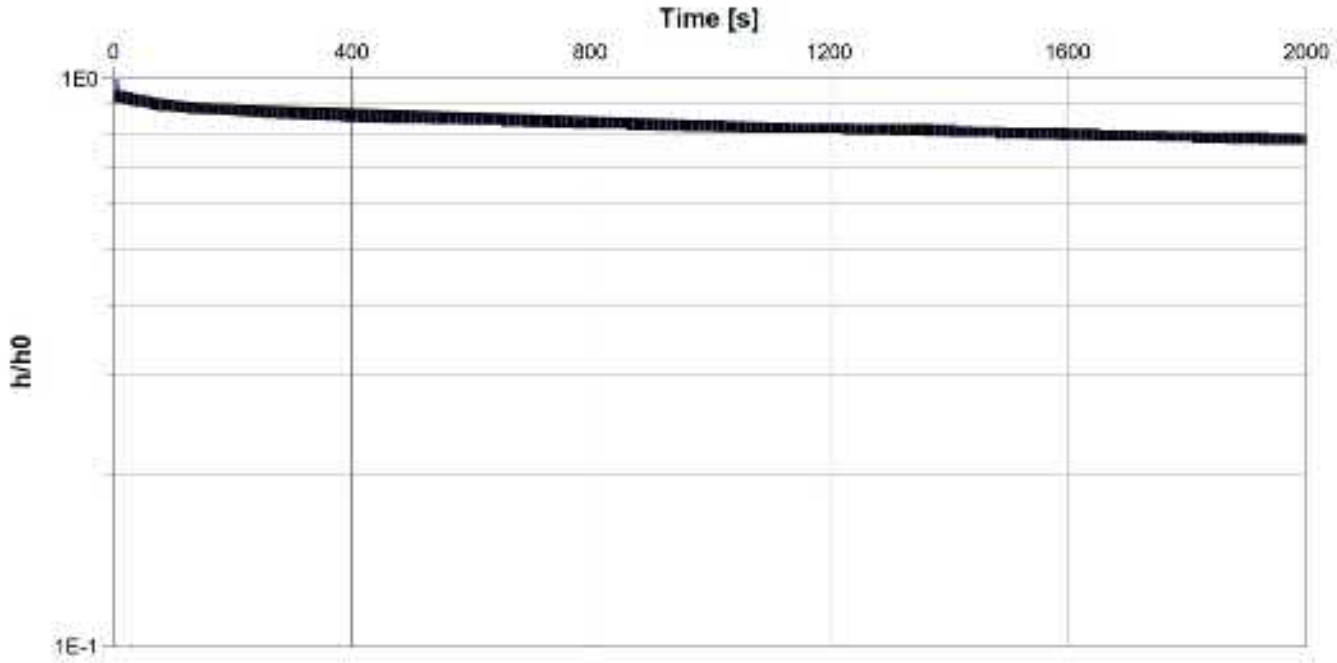
Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [m/s]	
P2	3.76×10^{-5}	

Well screened at silty clay and limestone interface

	Slug Test Analysis Report
	Project: Knox Farm - Hydrogeology Investigation
	Number: 22-4641
	Client: Utilities Kingston

Location: Knox Farm	Slug Test: Rising Head Test	Test Well: P3
Test Conducted by: DO/TN		Test Date: 2022-10-26
Analysis Performed by: DO	P3 - Rising Head Test	Analysis Date: 2022-11-16
Aquifer Thickness: 3.76 m		



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [m/s]	
P3	1.29×10^{-5}	

Well screened at silty clay and limestone interface