Appendix B

Ministry of the Environment Water Well Records

UTM 17 | 4 3 2 5 6 1 0 E

5 R 4 7 8 0 5 4 5 N

Elev. 5 R 0 6 3 0

Basin 2K2

SEP 19 1962 ONTARIO WATER RESOURCES COMMISSION

Received Sept 19 1962

127 23

34-106

34 № 108

The Ontario Water Resources Commission Act

WATER WELL RECORD

~~County or District~~ Lambton ..... Township, Village, Town or City Bosanquet

Con. 1 ..... Lot 23 ..... Date completed 10 (day) Sept. (month) 1962 (year)

[redacted] dress Thedford.

Casing and Screen Record

Inside diameter of casing	27½" – 30"
Total length of casing	30'
Type of screen	Gravelpack.
Length of screen	
Depth to top of screen	
Diameter of finished hole	27½" – 30"

Pumping Test

Static level	12'
Test-pumping rate	2. G.P.M.
Pumping level	28'
Duration of test pumping	½ hr.
Water clear or cloudy at end of test	cloudy.
Recommended pumping rate	1½ G.P.M.
with pump setting of	28' feet below ground surface

Well Log / Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Top Soil	0	1	17'	Fresh.
Grey sand.	1	17		
gravel	17	19		
grey sand.	19	20		
Blue clay	20	28.		

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

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

Drilling or Boring Firm ~~Acme~~ Well Digging

Address Elmira.

Licence Number 434

Name of Driller or Borer R. L. Franklin

Address Boden Ont.

Date Sept 10/62.

(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M Sets 60-5930

OWRC COPY

Location of Well

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

Follow hiway #7 from Elginfield to hiway #82. follow Rd into first turn right. follow along rd. to railroad tracks cross over tracks large white farm house on right side of Rd.

CSS 38

UTM 17 Z 4321500 E

C5 R 4781542 N

Lot 5 R 23 6130

Basin 212

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District: Lambton | Township, ~~Village, Town or City~~: Bosanquet

Con. 1 | Lot 23 | Date completed 27 (day) Jan. (month) 1965 (year)

[redacted]dress Thedford

Casing and Screen Record	
Inside diameter of casing	4
Total length of casing	158, 3 ft above G.L.
Type of screen	Johnson slot no 8 and 6
Length of screen	4 ft. Bottom 3" plug ~~6 ft 6~~ of 3" pipe
Depth to top of screen	150 ft. G.L.
Diameter of finished hole	3

Pumping Test	
Static level	52 G.L.
Test-pumping rate	4 G.P.M.
Pumping level	72 G.L.
Duration of test pumping	8 hrs.
Water clear or cloudy at end of test	Clear.
Recommended pumping rate	4 G.P.M.
with pump setting of	100 feet below ground surface

Well Log: Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
top soil gravel	0	8	150 - 161	fresh.
sand	8	25		
sandy clay	25	40		
blue clay	40	102		
sand with clay streaks	102	150		
Sand	150	161		

For what purpose(s) is the water to be used? D & F Stock

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

Drilling or Boring Firm Andrew A Heal

Address Box 264 Watford Ont

Licence Number 1362

Name of Driller or Borer Mervyn Ward

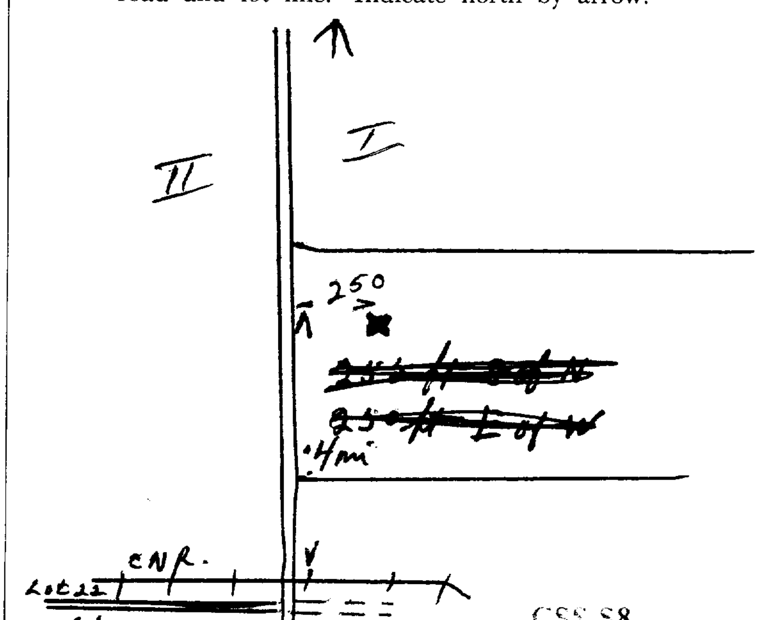
Address R.R. 4 Watford

Date Jan. 27. 1965

Andrew A Heal
(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

OWRC COPY

CSS.S8

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

40P/4W

Ontario

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

11 | 3404835 | MUNICIP. 34010 | CON. ER N | 04

COUNTY OR DISTRICT: [redacted] Lambton | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Warwick R.R.1 Arkona | CON., BLOCK, TRACT, SURVEY, ETC.: 4 E.Rd N- | LOT: 026 | DATE COMPLETED: DAY 14 MO 07 YR 75

UTM ZONE | EASTING 0766700 | NORTHING | RC 5 | ELEVATION 0810 | RC 5 | BASIN CODE 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Top Soil			0	1
Brown	Sandy Clay			1	20
	Clay & Sand			20	70
	Fine Sand			70	96.
	~~Water~~ Sand & Clay.			96	113.
	Water Sand			113	118

31 | 0001 02 | 0020 0581 | 0070 0528 | 0096 08 | 0113 2805 | 0118 2891

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0113 FEET	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
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
05.11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0115
	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.) 008 | DIAMETER 05.000 INCHES | LENGTH 03 FEET | MATERIAL AND TYPE Stainless steel | DEPTH TO TOP OF SCREEN 0115 FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER | PUMPING RATE 0008 GPM | DURATION OF PUMPING 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
034 FEET	072 FEET	FEET	072 FEET	FEET	FEET

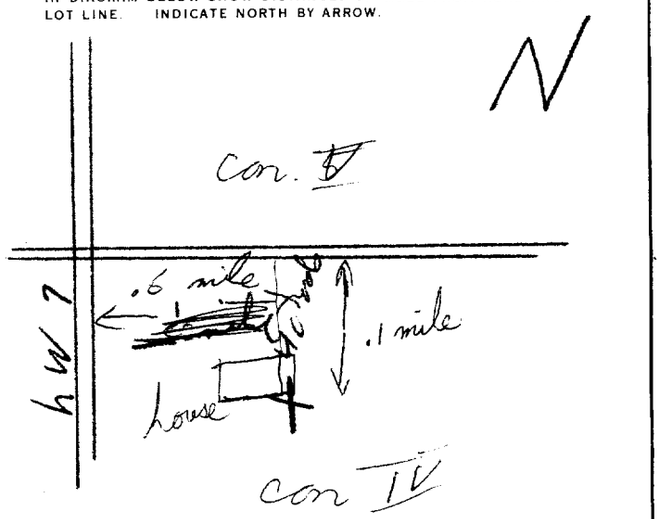
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMP RATE
☐ SHALLOW ☒ DEEP	100 FEET	0008 GPM

50-53 ——•—— GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 3366

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56: 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 57: 2 — 1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Ron Smith | LICENCE NUMBER: 4741

ADDRESS: R.R.3 Dresden Ont.

NAME OF DRILLER OR BORER: Harold Bridges | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Ron Smith | SUBMISSION DATE: DAY 25 MO. 11 YR 75

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 4741 | DATE RECEIVED 63-68: 161275

DATE OF INSPECTION: 4/10/76. | INSPECTOR: 7

REMARKS: OK. CSS.S8

P 0.0

WI 0.0

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

40P/4W

Ontario

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

11 | 3404836 | MUNICIP. 34010 | CON. ER N 04

COUNTY OR DISTRICT: [redacted] | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Warwick | CON., BLOCK, TRACT, SURVEY, ETC.: 4 - ~~ALGR.~~ E.R.N. | LOT: 026

[redacted] R.R. 1 Arkona | DATE COMPLETED: DAY 18 MO 06 YR 75

UTM | RC | ELEVATION: 0810 | RC | BASIN CODE: 22

21

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	DEPTH - FEET TO
	Top soil			0	1
Brown	sand	clay		1	20
Grey	silty	clay		20	95
	Hard Pan			95	115
	Layers dirty sand			115	125

31 | 0001 02 | 0020628 05 | 0095 205 84 | 0115 14 | 0125 2867

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0115	1 ✓ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
05	1 ✓ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	188	0	0100
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			
	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: Gravel pack to | DEPTH TO TOP OF SCREEN FEET: ~~100~~ ~~125~~

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ✓ PUMP 2 ☐ BAILER | PUMPING RATE: 0001 GPM | DURATION OF PUMPING: 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
040 FEET	099 FEET	099 FEET	FEET	FEET	FEET

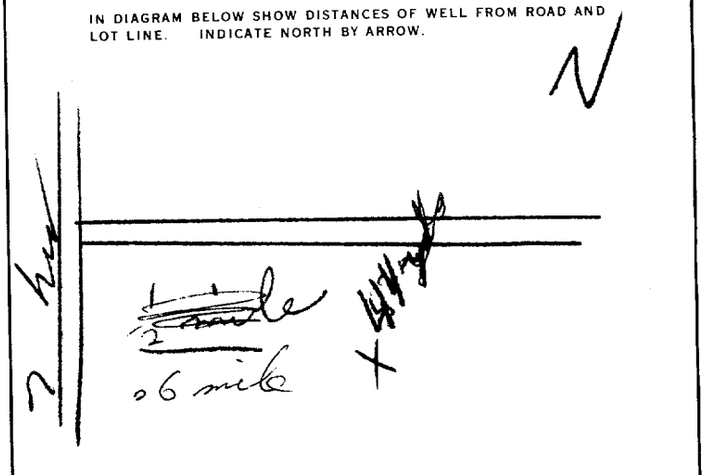
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP | RECOMMENDED PUMP SETTING: 125 FEET | RECOMMENDED PUMPING RATE: 0001 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 3366

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



DRILLERS REMARKS: filled well to casing with gravel.

FINAL STATUS OF WELL 5: 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 2: 1 ☐ CABLE TOOL; 2 ☑ ROTARY (CONVENTIONAL); 3 ☐ ROTARY (REVERSE); 4 ☐ ROTARY (AIR); 5 ☐ AIR PERCUSSION; 6 ☐ BORING; 7 ☐ DIAMOND; 8 ☐ JETTING; 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Ron Smith | LICENCE NUMBER: 4741

ADDRESS: R.R 3 Denfield Ont.

NAME OF DRILLER OR BORER: Harold Bender | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Ron Smith | SUBMISSION DATE: DAY 25 MO. 11 YR. 75

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 4741 | DATE RECEIVED 161275

DATE OF INSPECTION 4/10/76 | INSPECTOR

REMARKS: properly filled OK CSS.SS

P 1.0 | WI 1.0

FORM 7 MOE 07-091

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MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

40P/4W

Ontario

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

11 | 3404837 | MUNICIP. 34010 | CON. ER N | 04

COUNTY OR DISTRICT: [redacted] | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Warwick | CON., BLOCK, TRACT, SURVEY, ETC.: 4 E. Rd. N | LOT: 026

[redacted] R. 1 Arkona. | DATE COMPLETED: DAY 20 MO 06 YR 75

UTM ZONE | EASTING 66700 | RC 5 | ELEVATION 0810 | RC 5 | BASIN CODE 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
	Top Soil			0	1
Brown	Sand	Clay		1	20
Grey	Silty	Clay		20	95
	Hard Pan	fine		95	115
	Clay & Sand			115	122

31 | 0001 02 | 002062805 | 0095206814 | 0115 14 | 0122 0508

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
15-18	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
20-23	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
25-28	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
30-33	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
10-11 05	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE	~~.188~~	0	0122
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
24-25	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: 1 ☐ PUMP 2 ☐ BAILER | PUMPING RATE GPM | DURATION OF PUMPING HOURS MINS

STATIC LEVEL FEET	WATER LEVEL END OF PUMPING FEET	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	15 MINUTES FEET	30 MINUTES FEET	45 MINUTES FEET	60 MINUTES FEET
19-21	22-24		26-28	29-31	32-34	35-37

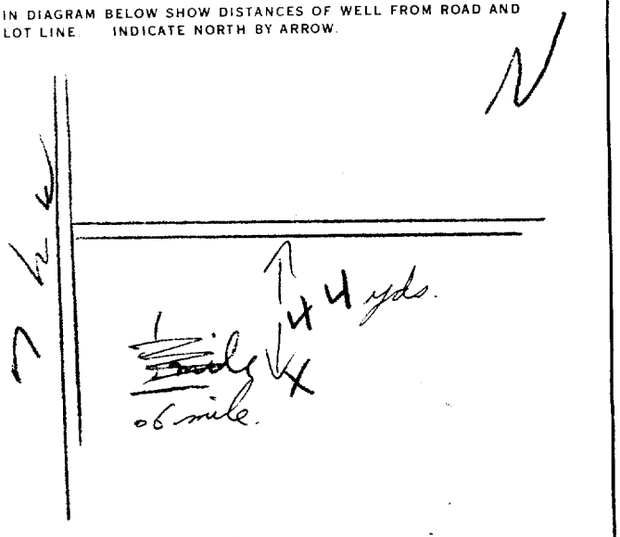
IF FLOWING, GIVE RATE GPM	PUMP INTAKE SET AT FEET	WATER AT END OF TEST: 1 ☐ CLEAR 2 ☐ CLOUDY
38-41		42

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP	RECOMMENDED PUMP SETTING FEET	RECOMMENDED PUMPING RATE GPM
	43-45	46-49

50-53 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL 3366

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



DRILLERS REMARKS:

FINAL STATUS OF WELL 54: 5
1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☒ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56:
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 57: 2
1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Ken Smith | LICENCE NUMBER: 4741.
ADDRESS: R.R.3 Denfield Ont.
NAME OF DRILLER OR BORER: Harold Bender | LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Ken Smith | SUBMISSION DATE: DAY 25 MO. 11 YR. 75

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 4741 | DATE RECEIVED 63-68: 161275 | 80
DATE OF INSPECTION: 4/10/76 | INSPECTOR: J
REMARKS: properly filled CSS.S8
P 40. WI 40.

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MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

45F/4W

Ontario

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

11 3406397 MUNICIP 34001 CON. CON 06

COUNTY OR DISTRICT: LAMBTON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: BOSANQUET

CON., BLOCK, TRACT, SURVEY, ETC.: E VI

LOT: 024

[redacted]

RR #3 THEDFORD

DATE COMPLETED: DAY 17 MO 5 YR 78

UTM: 180950 RC 5 ELEVATION 0640 RC 5 BASIN CODE 22

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	BLUE CLAY	PACKED	0	72
	ROCK, BOTTOM				
	Water comes out of Top of Rock.				

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
72	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
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
36	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☒ CONCRETE 4 ☐ OPEN HOLE	3	0	72
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET	

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 8 GPM

DURATION OF PUMPING: 1 HOURS 0 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
60 FEET	72 FEET	72 FEET	FEET	72 FEET	FEET

IF FLOWING, GIVE RATE: GPM

PUMP INTAKE SET AT: 70 FEET

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

RECOMMENDED PUMP TYPE: ☒ SHALLOW ☐ DEEP

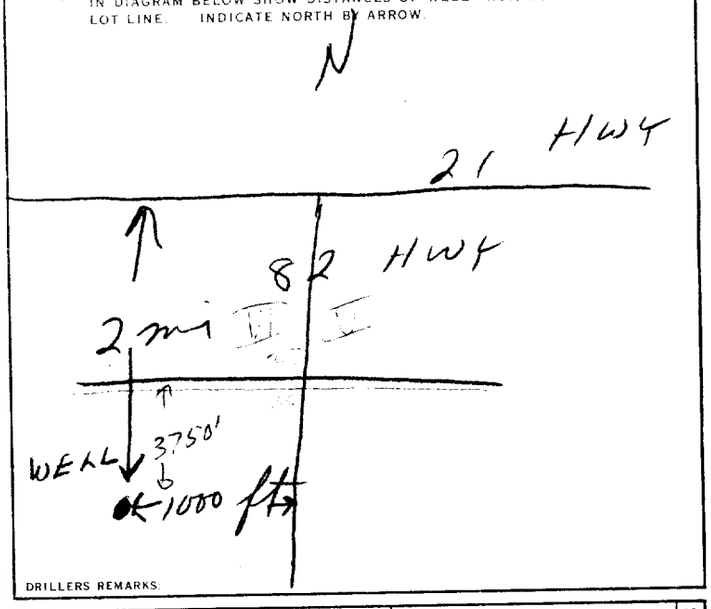
RECOMMENDED PUMP SETTING: 70 FEET

RECOMMENDED PUMPING RATE: 6 INT GPM

GPM / FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: CHARLES HAYDEN — LICENCE NUMBER: 2552

ADDRESS: RR #2 GRANTON ONT

NAME OF DRILLER OR BORER: SAME — LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: Charles Hayden — SUBMISSION DATE: DAY ____ MO ____ YR ____

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 59-62 — DATE RECEIVED: 63-68 U70778

DATE OF INSPECTION: 24/8/79 — INSPECTOR: 7

REMARKS: CSS.S8 — P P — WI P

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Appendix C

Jericho Pre-construction Dewatering Monitoring Report (AECOM, 2014)

Jericho Wind, Inc.
Jericho Wind Energy Centre

Jericho Pre-Construction Dewatering Monitoring Report

Report

Environment

Jericho Wind, Inc.
Jericho Wind Energy Centre

Jericho Pre-Construction Dewatering Monitoring Report

Prepared by:

AECOM
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AECOM: 2012-01-06

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1. Introduction

Jericho Wind, Inc. (Jericho), a wholly owned subsidiary of NextEra Energy Canada, ULC, (NextEra) is proposing to construct a wind energy project in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario. The project is referred to as the Jericho Wind Energy Centre (the "Project").

AECOM Canada Ltd. (AECOM) was retained by NextEra to prepare an application for the proposed Project in accordance with the requirements of the Renewable Energy Approval (REA) process outlined in Ontario Regulation 359/09 (O. Reg. 359/09) under the *Environmental Protection Act* and the Technical Guide to Renewable Energy Approvals (Ontario Ministry of the Environment, 2011). This application includes the following reports:

- *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report* (AECOM, 2013a);
- *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Addendum* (AECOM, 2012);
- *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Second Addendum* (2013b); and
- *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Third Addendum* (2013c).

As described in the above reports, commitments were made to monitor impacts of construction dewatering on natural heritage features within the dewatering zones of influence prior to, during and post-construction of the Jericho Wind Energy Centre.

The *Jericho Wind Energy Centre Dewatering Environmental Monitoring Plan* (AECOM, 2013d) was prepared and submitted to the Ministry of Natural Resources (MNR) to fulfill the commitments made in Section 5.3.6 of the *Natural Heritage Assessment and Environmental Impact Study Report* (AECOM, 2013a) with respect to identifying those natural heritage features potentially affected by construction dewatering based on the calculated dewatering zones of influence. Therein, a commitment was made to complete monthly pre-construction dewatering monitoring at a total of two Monitoring Locations (M1 and R1) for a duration of six months from November 2013 to April 2014.

The purpose of this report is to document the results of the pre-construction dewatering monitoring for Monitoring Locations M1 and R1. The methodology by which the pre-construction monitoring was conducted is presented in **Section 2**. The results of the pre-construction monitoring for each monitoring location are described in **Section 3**. Recommendations for dewatering monitoring during the construction phase and post-construction phase are provided in **Section 4**.

2. Methodology

2.1 Natural Heritage Features

Natural heritage features requiring monitoring for potential dewatering effects within the calculated dewatering zones of influence for turbine foundations were identified based on the methodology described in the *Jericho Wind Energy Centre Dewatering Environmental Monitoring Plan* (AECOM, 2013d). Therein, one Significant Turtle Wintering Habitat Feature (TWH-06) located within the dewatering zone of influence for the foundation of Turbine 8 was identified as being potentially affected by construction dewatering and requiring monitoring.

A total of two Monitoring Locations (M1 and R1) were selected to be monitored for potential dewatering effects (refer to **Figures 1 and 2**). Monitoring Location M1 contains the pond identified as Significant Turtle Wintering Habitat Feature TWH-06 located within the dewatering zone of influence for Turbine 8. Monitoring Location R1 contains a pond identified as Significant Turtle Wintering Habitat Feature TWH-05 located outside of any dewatering zones of influence and was selected to be monitored to establish a reference for normal conditions of a Significant Turtle Wintering Habitat Feature with similar characteristics to TWH-06.

Both Monitoring Locations M1 and R1 were monitored monthly for a duration of six months from November 2013 to April 2014. Staff gauges (e.g., metre stick rulers) were secured onto each of the mini-piezometers installed at Monitoring Location M1 and R1 described below in **Section 2.2** to monitor seasonal fluctuations in surface water levels of the ponds. The following information was recorded during each monthly visit at Monitoring Locations M1 and R1:

- Surface water level;
- Soil moisture;
- Description of location habitat conditions and adjacent land use;
- Description of surrounding vegetation health;
- Presence of turtle species observed; and
- Representative photographs.

Detailed field notes are provided in **Appendix A**. Photographic logs depicting the existing conditions of Monitoring Locations M1 and R1 are provided in **Appendix B**.

2.2 Shallow Groundwater

Mini-piezometers (MPs) are used to measure the position of the shallow water table and determine a hydraulic relationship between shallow groundwater and surface water (i.e., determine if a water feature is locally groundwater fed). At each of the two Monitoring Locations (M1 and R1), a single mini-piezometer was installed between November 21, 2013. **Figures 1 and 2** illustrate the location of the two Monitoring Locations. Detailed mini-piezometer field construction notes for each Monitoring Station are provided in **Appendix A**.

Each mini-piezometer consists of a length of 19.1 mm diameter galvanized steel pipe with a 0.235 to 0.285 m long, 12.8 mm diameter slotted and screened drivepoint tip. Soil stratigraphy and geologic conditions were determined at all locations by auguring a pilot hole in close proximity to the proposed MP location to a depth of 1.5 metres below ground surface (mBGS) or to a depth of bedrock refusal. The mini-piezometers were then installed by hand using a post driver to the deepest attainable depth as permitted by subsurface conditions. The surrounding geologic formation was allowed to collapse around the piezometer to seal the annular space around the pipe. Construction details of the mini-piezometers are summarized in **Table 1** bellow.

The mini-piezometers were monitored monthly for a duration of 6 months for fluctuations in shallow groundwater levels and for changes in the vertical hydraulic gradient. This allows for the assessment of natural variations in shallow groundwater levels and determines baseline thresholds.

Table 1. Mini-Piezometer Construction Summary

Monitor ID	Type of Installation	Total Depth (mBGS)	Screen Length (m)	Stick-Up (m)
MP-M1	Single	1.84	0.235	1.25
MP-R1	Single	1.81	0.285	1.33

3. Results

3.1 Natural Heritage Features

3.1.1 Monitoring Location M1

Monitoring Location M1 includes a dug-out pond identified as Significant Turtle Wintering Habitat Feature TWH-06 (refer to **Figure 1** for location). This pond is located in an agricultural field and has naturalized banks with mature overhanging trees and shrubs. Surrounding vegetation is dominated by Manitoba Maple (*Acer negundo*), Common Buckthorn (*Rhamnus cathartica*), Eastern Cottonwood (*Populus deltoides*) and Red-osier Dogwood (*Cornus sericea*). Pond Duckweed (*Lemna minor*) was observed in the east end of the pond near the installed mini-piezometers. Evaluation of Significance Pre-construction Monitoring surveys conducted in May 2013 reported a Snapping Turtle (*Chelydra serpentina*) basking near this pond as described the *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Third Addendum* (AECOM, 2013c).

Surface water levels, vegetation health and presence of turtle species at Monitoring Location M1 were monitored monthly between November 2013 and April 2014. The results from baseline monitoring are summarized in **Table 2**. The surrounding vegetation appeared to be in good health and going through seasonal change in the fall to a dormant stage in the winter for the monitoring duration. No signs of stress to vegetation health were observed (refer to **Appendix B** for photographic logs). The water surface levels at the edge of the pond were recorded to be fluctuating with the seasons and ranged between 0.48 m to 0.94 m. The pond was frozen between January and March 2014 and as a result it was not possible to record surface water levels at that time. No turtle species were observed during the monitoring period.

Table 2. Summary of Results from Pre-construction Baseline Monitoring at M1

Date	Surface Water Level – Relative to Ground (m)	Surrounding Vegetation Health	Turtle Species Observed
21-Nov-2013	0.48	All vegetation is going through fall seasonal change and in good health. An abundance of Pond Duckweed (*Lemna minor*) was observed in the east side of the pond, located near the mini-piezometer.	No
18-Dec-2013	0.52	All vegetation is dormant in winter condition.	No
24-Jan-2014	N/A[1]	All vegetation is dormant in winter condition.	No
25-Feb-2014	N/A[1]	All vegetation is dormant in winter condition and covered in snow.	No
25-Mar-2014	N/A[1]	All vegetation is dormant in winter condition and partially covered in snow.	No
28-Apr-2014	0.94	All vegetation is going through seasonal change and in good health.	No

Notes: 1. Water level not calculated due to frozen conditions in mini-piezometer or surface water.

3.1.2 Monitoring Location R1

Monitoring location R1 includes a dug-out pond identified as Significant Turtle Wintering Habitat Feature TWH-05 and was monitored as a reference for normal conditions for Feature TWH-06 at Monitoring Location M1 (refer to **Figure 2** for location). This pond is located in a cultural savannah near a topsoil processing facility. Riparian vegetation is dominated by Red-osier Dogwood, Common Reed (*Phragmites australis*) and Goldenrods (*Solidago* species). Evaluation of Significance Pre-construction Monitoring surveys conducted in May 2013 reported a Snapping Turtle travelling around the gravel pit towards the pond as described the *Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Third Addendum* (AECOM, 2013c).

Surface water levels, vegetation health and presence of turtle species at Monitoring Location R1 were monitored monthly between November 2013 and April 2014. The results from baseline monitoring are summarized in **Table 3**. The surrounding vegetation appeared to be in good health and going through seasonal change in the fall to a dormant stage in the winter for the monitoring duration. No signs of stress to vegetation health were observed (refer to **Appendix B** for photographic logs). The water surface levels at the edge of the pond were recorded to be fluctuating with the seasons and ranged between 0.22 m to 0.28 m. The pond was frozen between January and March 2014 and as a result it was not possible to record surface water levels at that time. No turtle species were observed during the monitoring period.

Table 3. Summary of Results from Pre-construction Baseline Monitoring at R1

Date	Surface Water Level – Relative to Ground (m)	Surrounding Vegetation Health	Turtle Species Observed
21-Nov-2013	0.48	All vegetation is going through fall seasonal change and in good health.	No
18-Dec-2013	N/A[1]	All vegetation is dormant in winter condition. Coniferous trees appear in good health.	No
24-Jan-2014	N/A[1]	All vegetation is dormant in winter condition.	No
25-Feb-2014	N/A[1]	All vegetation is dormant in winter condition.	No
25-Mar-2014	0.22	All vegetation is dormant in winter condition and partially covered in snow.	No
28-Apr-2014	0.44	All vegetation is going through seasonal change and in good health.	No

Notes: 1. Water level not calculated due to frozen conditions in mini-piezometer or surface water.

3.2 Shallow Groundwater

3.2.1 Monitoring Location M1

One mini-piezometer (MP-M1) was installed in a pond identified as TWH-06 as part of the hydrogeological baseline investigations at Turbine 8. The mini-piezometer is installed approximately 230 m southeast of Turbine 8, within the predicted turbine foundation dewatering zone of influence (**Figure 1**).

Mini-piezometer water levels at MP-M1 were monitored monthly from November 2013 through to April 2014. Water levels are responding to season fluctuations in shallow groundwater levels and precipitation as no construction activities occurred at Turbine 8 during the monitoring period. Based on the data presented in **Table 4** and **Figure 3**, the hydraulic gradients in the pond are variable and change based on seasonal variability in precipitation, snow melt and seasonal fluctuations in groundwater levels. During late fall and early winter (November and December) vertical hydraulic gradients in the pond had downwards hydraulic gradients, indicating groundwater recharge. During the spring (April) MP-M1 had an upward hydraulic gradient, indicating groundwater discharge. This gradient reversal is naturally occurring and is most likely a result of increases in groundwater table elevation as a result of spring snow melt.

Table 4. MP-M1 Summary of Mini-Piezometer Pre-Construction Baseline Monitoring

Date	Water Level – Relative to Ground (m)[1]	Vertical Hydraulic Gradient[2]	Comments
21-Nov-2013	-0.73	-0.63	Mini-Piezometer installed.
18-Dec-2013	0.18	-0.47	Pond frozen and snow covered.
24-Jan-2014	N/A[3]	N/A[3]	Pond frozen and snow covered.
25-Feb-2014	N/A[3]	N/A[3]	Pond frozen and snow covered.
25-Mar-2014	N/A[3]	N/A[3]	Pond frozen and snow covered, snow melt prior to monitoring event.
28-Apr-2014	0.53	0.13	Pond free of ice.

Notes: 1. Positive water level indicates flowing artesian condition (i.e., water level above ground surface). Negative water level indicates that water level is below ground surface.
2. Negative hydraulic gradient indicates a downwards hydraulic gradient (i.e., recharge). Positive hydraulic gradient indicates an upwards hydraulic gradient (i.e., discharge).
3. Water level and/or hydraulic gradient not calculated due to frozen conditions in mini-piezometer or surface water.

3.2.2 Reference Monitoring Location R1

One mini-piezometer (MP-R1) was installed in a pond identified as TWH-05 in order to provide background monitoring information for Monitoring Location M1. The mini-piezometer is installed approximately 31 m north of Turbine 7, outside any predicted turbine foundation dewatering zone of influence (**Figure 2**).

Mini-piezometer water levels at MP-R1 were monitored monthly from November 2013 through to April 2014. Water levels are responding to season fluctuations in shallow groundwater levels and precipitation as no construction activities occurred at Turbine 7 during the monitoring period. Based on the data presented in **Table 5** and **Figure 4** the hydraulic gradients in the pond are variable and change based on seasonal variability in precipitation, snow melt and seasonal fluctuations in groundwater levels. Upon mini-piezometer installation, vertical hydraulic gradients in the pond had downwards hydraulic gradients, indicating groundwater recharge. This is most likely due to the effects of mini-piezometer installation and the limited recovery time prior to measuring water levels in November. During the winter and spring (February to April) MP-R1 had an upward hydraulic gradient, indicating groundwater discharge.

Table 5. MP-R1 Summary of Mini-Piezometer Pre-Construction Baseline Monitoring

Date	Water Level – Shallow MP - Relative to Ground (m)[1]	Vertical Hydraulic Gradient[2]	Comments
21-Nov-2013	-1.12	-0.88	Mini-piezometer installed in sand and gravel in pond.
18-Dec-2013	N/A[3]	N/A[3]	Pond is frozen and snow covered.
24-Jan-2014	N/A[3]	N/A[3]	Pond is frozen and snow covered.
25-Feb-2014	0.35	0.11	Pond is frozen and snow covered.
25-Mar-2014	0.21	0.17	Pond is partially frozen and snow covered. Considerable snowmelt since February visit.
28-Apr-2014	0.23	0.03	Beaver/muskrat den observed.

Notes: 1. Positive water level indicates flowing artesian condition (i.e., water level above ground surface). Negative water level indicates that water level is below ground surface.
2. Negative hydraulic gradient indicates a downwards hydraulic gradient (i.e., recharge). Positive hydraulic gradient indicates an upwards hydraulic gradient (i.e., discharge).
3. Water level and/or hydraulic gradient not calculated due to frozen conditions in mini-piezometer or surface water.

4. Conclusions and Recommendations

The following conclusions and recommendations are presented based on the results of the pre-construction dewatering monitoring for the Jericho Wind Energy Centre:

a) Overall health of the surrounding vegetation at Monitoring Locations M1 and R1 was in good condition and undergoing normal seasonal change. Surface water levels were showing seasonal fluctuations. No presence of turtle species was observed at either monitoring location.

b) Upwards hydraulic gradients, indicating groundwater discharge, were observed at Monitoring Locations M1 and associated reference Monitoring Location R1.

c) It is recommended that continued monitoring of the Significant Turtle Wintering Habitat Feature TWH-06 at Monitoring Location M1 and the associated reference Monitoring Location R1 for the Significant Turtle Wintering Habitat Feature TWH-05 occur during construction dewatering activities as detailed in **Table 6** below.

Table 6. Construction and Post-Construction Monitoring Plan

Monitoring Location ID	Associated Turbine Dewatering Zone of Influence	Natural Feature or Water Body	Monitoring Activities	Monitoring Frequency and Duration During Construction	Monitoring Frequency and Duration Post-Construction	Early Warning Indicators (EWI)	Contingency Measures
M1	Turbine 8 Monitoring Location	Significant Turtle Wintering Habitat Feature TWH-06	• Surface water level (staff gauge) • Vertical hydraulic gradient (mini-piezometer) • Vegetation stress (observation)	• One monitoring event within two weeks prior to dewatering activities at Turbine 8. • Daily monitoring during dewatering activities at Turbine 8.	• Monthly monitoring for up to one year if project-related impacts are observed.	• Decline in surface water levels of 30 cm from seasonal / baseline conditions; or • Decline in surface water levels of 30 cm from previous monitoring event; or • Directional change from upward to downward hydraulic gradient from baseline conditions or from previous monitoring event.	• If EWI detected during turtle wintering timing window (October 1 to April 30): • Direct dewatering discharge to pond after appropriate temperature and water quality controls (e.g., sediment bag, enviro-tank, etc.).
R1	Turbine 8 Reference Location	Significant Turtle Wintering Habitat Feature TWH-05					

5. References

AECOM, 2012:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Addendum. Prepared for Jericho Wind, Inc. December 2012.

AECOM, 2013a:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report. Prepared for Jericho Wind, Inc. February 2013.

AECOM, 2013b:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Second Addendum. Prepared for Jericho Wind, Inc. January 2013.

AECOM, 2013c:

Jericho Wind Energy Centre Natural Heritage Assessment and Environmental Impact Study Report Third Addendum. Prepared for Jericho Wind, Inc. October 2013.

AECOM, 2013d:

Jericho Wind Energy Centre Dewatering Environmental Monitoring Plan. Prepared for Jericho Wind, Inc. November 2013.

Figures

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JER5609
JER3670
Bog Line
JER5654
R1
TWH-05
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3400134
JER1074
JER1050
JER1104
7
Gordon Rd
JER3689

Legend

- Wind Energy Centre Study Area
- Transmission Line Study Area
- Railway
- Roads

Project Location

- GE Turbine
- Transmission Line
- Collection Line Directionally Drilled
- Collection Line
- Crane Path
- Access Road
- Permanent Meterological Tower
- Substation & Laydown Area
- Disturbance Areas
- 120m Area of Investigation
- Turbine Dewatering Zone of Influence
- Monitoring Stations

Natural Heritage Features

- Turtle Wintering Areas

Water Body Features

- Moderate Sensitivity REA Watercourse Feature
- Non-REA Watercourse Feature

MOE Water Wells (Depth)

- < 10 m
- > 10 m

N
W E
S

Metres
0 25 50 100 150 200

1:5,000
UTM Zone 17N, NAD 83

Jericho Wind Energy Centre
Pre-Construction Dewatering Monitoring Report

Monitoring Location R1

May 2014
Project 60301207

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Figure 2

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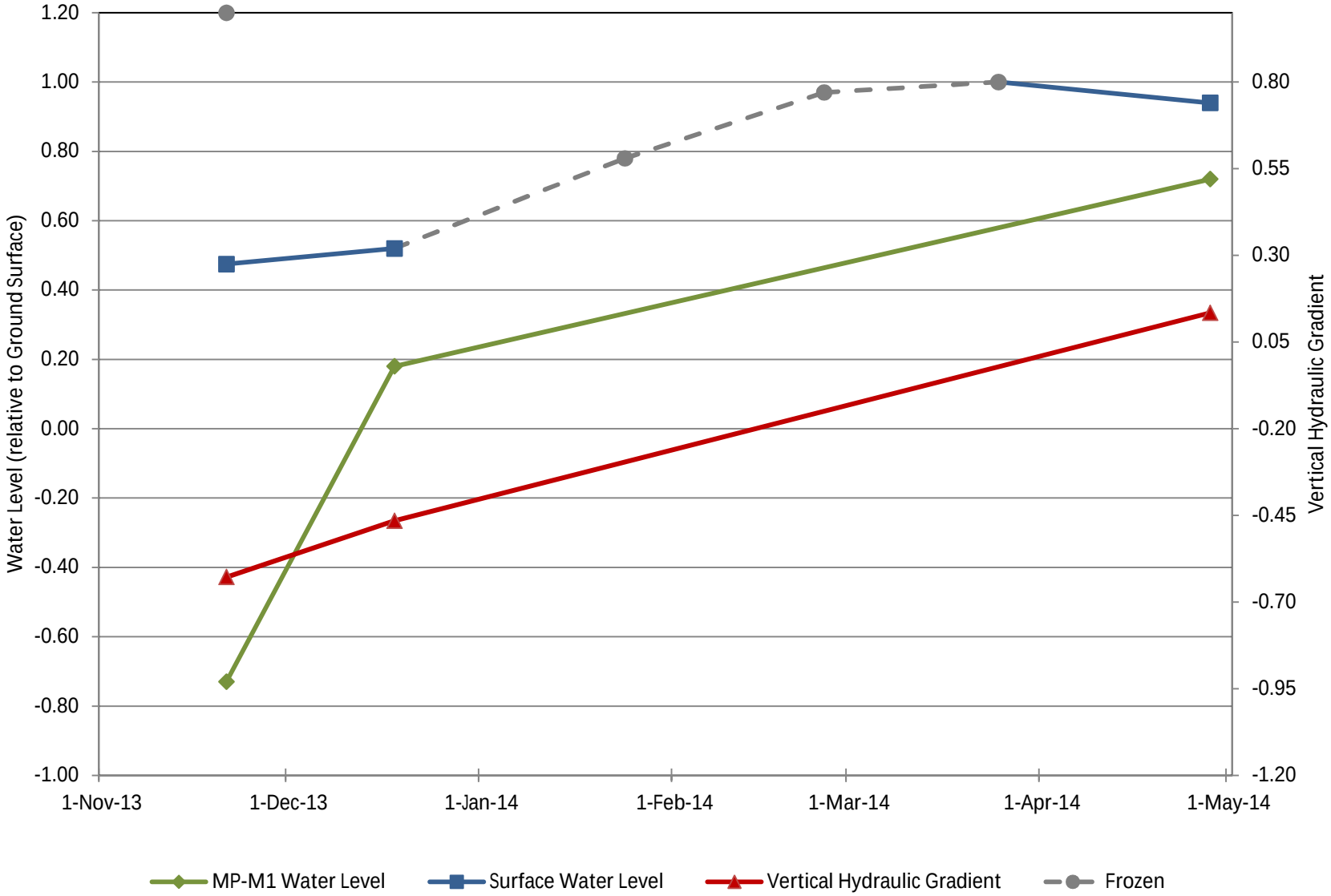
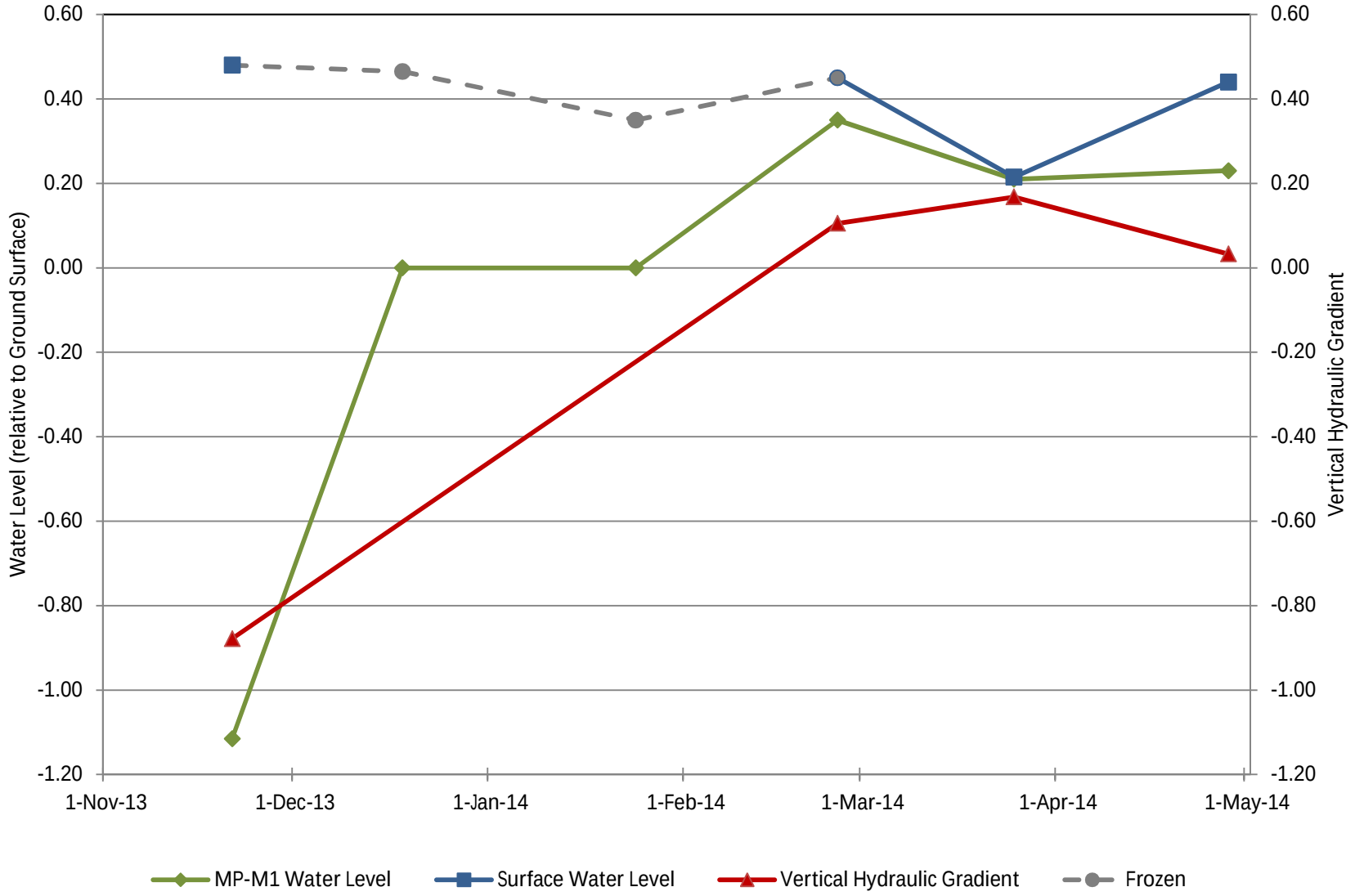


May 2014	MP-M1 Hydrograph Jericho Pre-Construction Dewatering Monitoring Report	Figure 3



May 2014

MP-R1 Hydrograph
Jericho Pre-Construction Dewatering Monitoring Report

Figure 4