

Appendix A

Field Notes

- A1. Mini-Piezometer Field Construction Notes
- A2. Pre-construction Dewatering Monitoring Field Notes



A1. Mini-Piezometer Field Construction Notes

Mini-Piezometer Field Construction Notes

Date: Nov 21 2013 @	Project#: (c020	TPriCho Field	Personnel: OH, FW, ISM
Weather: 7°C Obercos	Site: MI		wed by:
ID:	GPS Datum: Easting: 431342 Northing: 431342 rowth often changes appearance of	Use tell Do note Tighten All mea Powery (if requir Use long Acro TOS - to BOS - bo TOP - to TOP - to SU - stick	ole, always visually locate on airphoto. on tape on all threaded joints. inthe on threads, use coupler as a drive head, all joints with pipe wrenches, hand tightening is not enough. suraments in metres. vash inside & out black iron pipe to remove cutting oil ed), part pipe langths possible to decrease number of joints. ITY ITHS: of screen tiom of screen
Single MP installation (if located in a perm OR Shallow Minipiezometer (MP shallow) of a MP nest where there is no stand Screen length (m); O. 235 Top of screen (TOS) to top of drive-point (TOD) Top of drive-point to top of 1st coupler (TOC¹):: TOC¹ to TOC² TOC² to top of pipe (TOP): Total length of MP from TOS: *this is the number used during installation TOP Screen length (TOP): TOP Screen length (TOP): TOP TOP TOP TOP Screen length (TOP): TOP Screen length (TOP): TOP	nanent water body) ing water year round. P): 0.08 + 1.845 - 0.925 - 2.85 0.925	TOC1 to TOC2:	ive-point (TODP): oupler (TOC¹): + +

Date:	Project #: Site:	Field Personnel:Reviewed by:
Soil Descriptions Pilot hole Augered: Pilot hole Diameter:		and (weathered) 0.75 to 1.5m firm
Single MP Installation Vertical distance between stream/lake/ of screen. "Total length of MP stretow from TOS_ Stickup (SU)	Note: I resistance conditions, au difficulty is due hole can hely work in streen While diag. is and the dig. is fall dispense.	MP Nest Installation Vertical distance between the screens. *Total length of MP shallow from TOS + screen length - stickup *Total length of MP shallow from TOS - stickup

[D	Date/Time	Depth to Groundwater (mbtop)	Depth to Surface Water (mbtop)	Weather	Comments*
	Nov. 21	198m	0.975 m		SG=0475

note if this is immediately after installation, damages etc...

Some theory:

Plezometers are a field tool for measuring hydraulic head at the screen of the plezometer. A nest (two or more plezometers with the screens installed at different depths) allows us to calculate the vertical component of the hydraulic gradient by measuring the change in hydraulic head (dh) over a vertical distance (dl).

The change in gradient can be measured with a single plezometer if it is installed in a permanent water body. In this case, the ch is the change between the water depth (mixtop) of the groundwater inside the pipe and the surface water outside the pipe. The dl is the distance between the stream/later/watend bottom and the top of the piezometer screen. Water will flow from high to low hydraulic head. Therefore if the water level is higher in the lowest measurement point, then groundwater is flowing up, and may be providing habitat for fish, etc...

Mini-Piezometer Field Construction Notes

Date: Nov · 21 · 30/3 Weather:	Project #: (a0.30127) Site: R		eld Personnel: EM, BM, OH
Sketch: Provide dimensions and visual clues — summer grow I are used I mp 66.	GPS Datum: Easting: 0479049 Northing: 4783375 Eev. 175. 1 th often changes appearance of location	s. (use flagging) is. (use flagging) is. (use flagging) is. (use flagging)	possible, always visually locate on airphoto. se tellon tape on all threaded joints. o not drive on threads, use coupler as a drive head, gitten all joints with pipe wrenches, hand lightening is not enough. it measurements in metres. over wash inside & out black from pipe to remove cutting oil required). se longest pipe lengths possible to decrease number of joints. CFOTY MISS: 8 - top of screen 9 - top of pipe 0 - top of drive-point - stickup; length of pipe sticking up out of the ground top - metres below the top of pipe
Single MP installation (if located in a perman OR Shallow Miniplezometer (MP shallow) of a MP nest where there is no standing Screen length (m); Top of screen (TOS) to top of drive-point (TODP); Top of drive-point to top of 1st coupler (TOC'):	tent water body) water year round. Screen Top of d Toc² to C. 085 Tod³ to Tod³ to Tod³ to Todal len S// S// S// S// S// S// S// S// S// S/	ding water year rour length (m):	of drive-point (TODP): Ist coupler (TOC¹): + + TOS: = TOP
TOPP TOS ? 0 . 0 6 Screen length (top to bottom):		9 7	TODP TOS Screen length (top to bottom):

Date:	Project#: Site:	Field Personnel:Reviewed by:
Soil Descriptions Pilot hole Augered: Pilot hole Diameter:	Yes No S	oil Description: Sand + graviel, -Rive to mederained
Single MP Installation Vertical distance between stream/is of screen. "Total length of MP shallow from TOS Stickup (SU)	2.85	Wertical distance between the screens. *Total length of MP enater from TOS + screen length - stickup *Total length of MP or to

Ð	Date/Time	Depth to Groundwater (mbtop)	Depth to Surface Water (mbtop)	Weather	Comments*
	@ 13:35	2.445	1.11		56=0.48

note if this is immediately after installation, damages etc...

Some theory:

Plezometers are a field tool for measuring hydraulic head at the screen of the plezometer. A nest (two or more plezometers with the screens installed at different depths) allows us to calculate the vertical component of the hydraulic gradient by measuring the change in hydraulic head (dh) over a walked distance (dl). The change in gradient can be measured with a single pleasmeter if it is installed in a permanent water body. In this case, the dh is the change between the water depth (mittop) of the groundwater inside the pipe and the surface water outside the pipe. The dl is the distance between the streamfake/wetland bottom and the top of the pleasmeter screen. Water will flow from high to low hydrautic head. Therefore if the water level is higher in the towest measurement point, then groundwater is flowing up, and may be providing habitat for fish, etc...



A2. Pre-construction Dewatering Monitoring Field Notes

Monitoring Location	on: M1 TWH-06	Observers:	BM, OH, EW
Natural Area:	498	Turbine ID: Water Body ID:	P3.44
		Trade Souy ID.	F-3.44
Date: Nov all a	1013		
Start Time: 19:57	End Time: 15	5 160	
Neather Condition Temperature (C°):		8	
Cloud Cover (%):	Wind (itation:	Wind (B.S <u>.):</u> 2-3
Description of Loc	al Habitat Conditions and		
Hajacent	to agricultural	Geld Cheans), Dond	l surrounded by decide as forest
		- '1	V TARGET IN A TOTAL
fini-plezometer		Staff Guage	Soil
Vater Level in (m):	1.90	Staff Gauge Levels: 0.4	75m
Vater Level Out (m)	0.975		Soil Moisture: Sotural ed
contails of C	ounding Vegetation Health	E Sucrounding voc	relation: ACENEGU, SHACART
0	going through	Japasonal change -	No reaves on
resence of Turtle S	pecies Observed (Yes/No): No (If Yes, fi	ill out table below)
Species	UTM Coordinates		
		# of mas. General Description	n of Behaviour and Visible Traits (length, width, etc.)
	3		
	el — (8)		
Iditional Information	on disease the second	Cana all	
CALLY OF PER	VILLAN BARRE BORNON	horn water course	l east 6-1 pond
	9		
oto Log			
oto iD	General Description	Photo ID	General Description
			Ocheral Description

	on: R1 TWH-05 276	Observers: Turbine ID: Water Body ID:	access road leading to Turbine 7 P3.29
Date: Nov 21,	2013	2100	
Start Time: 16:40	End Time:	3 1 3 5	
Temperature (C°):	7°C Wind (1	(Dir.): S	
Cloud Cover (%):	100 Percipit	itation:	Wind (B.S <u>.): 2</u>
egist and n		d forth west and s	south, aggregate storage area
Mini-piezometer		Staff Guage	Soil
Water Level In (m):	a, 445	0-70	0
Water Level Out (m)	: (.11	Staff Gauge Levels:0, 식	8 m Soil Moisture: Saturated
Hedgerow	of white mive a		e north of land
Species	Species Observed (Yes/No): UTM Coordinates	(**************************************	li out table below)
	C TW Coordinates	# of Inds. General Description	n of Behaviour and Visible Traits (length, width, etc.)
Mustrat den	of whiter bank	c of pond across m	Plocation
Mustrat den	of whiter bank	c of pand across M	li john Lie mand
ulvert precent	of whiter bank	+ fond , that food	to the pond
mustrat den	at East end o	+ fond , that food	to the pond
musical den	at East end o	+ fond , that food	to the pond
angot Blue t	at East end o	+ fond , that food	to the pond
Musical Gen Julyert present Great Blue to	at East end o	thouse east of	to the pond
Mustrat Oren Julivent precent Greant Blue t	at East end o	course control	to the pond
Mustrat Oten When present Great Blue to	at East end o	thouse east of	fond.
Mustrat Oten When present Great Blue to	at East end o	thouse east of	fond.

Natural Area: 486 Water Body ID: P3.44 Date: QA Water Conditions Start Time: 12:20 Water Conditions Framperature (C): Cloud Cover (N): Percipitation: Nod. Wind (B.S.): Wind (B	Monitoring Location		Observers:	134 TE
Date: PANDICS Start Time: 12.4% Start Time: 12.4% Weather Conditions Temperature C7: — 2	Feature ID:	TWH-06		8
Start Time: 12.20 Washer Conditions Temperature (C?):	Natural Area:	498	Water Body ID:	P3.44
Start Time: 12: AS End Time: 12: AS Wind (Dir.): Perspilation: Start Time: 12: AS Wind (Dir.): Perspilation: Start Time: 12: AS Wind (Dir.): Start Time: 12: AS Star				
Meather Conditions Temperature (C7): _ 2	Date: 12/18/13	1	#	
Temperature (C): 2 Wind (Dir.): Service (S): 100 Percipitation: In Shift Street (S): 100 Wind (B.S.): Blood Cover (S): 100 Wind (B.S.): Blood Wind			>	
Mini-piezometer Water Level in (m): 1.09 to service Staff Gauge Levels: 52 cm Water Level Out (m): 0.03 to 100 Description of Surrounding Vegetation Health: 0.52 m Presence of Turtle Species Observed (Yes/No): (If Yes, fill out table below) Species UTM Coordinates # of Inds. General Description of Behaviour and Visible Traits (length, width, e) Additional Information			15	A
Wini-piezometer Water Level In (m): 1.09 to work Water Level Out (m): 0.03 to Well Description of Surrounding Vegetation Health: Winiter Level Out (m): 0.03 to Well Description of Surrounding Vegetation Health: Winiter Condition: Presence of Turtle Species Observed (Yes/No): Species UTM Coordinates # of Inds. General Description of Behaviour and Visible Traits (length, width, e) diditional information # Description of Behaviour and Visible Traits (length, width, e) # Of Inds. General Description of Behaviour and Visible Traits (length, width, e) # Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, width, e) ## Of Inds. General Description of Behaviour and Visible Traits (length, e) ## Of Inds. General Description of Behaviour and Visible Traits ()lr.): <u> </u>	Wind (B.S.): 🗳
Mini-piezometer Water Level in (m): 1.09 to service Staff Gauge Levels: 52 cm Water Level Out (m): 0.03 to 100 Description of Surrounding Vegetation Health: 0.52 m Presence of Turtle Species Observed (Yes/No): (If Yes, fill out table below) Species UTM Coordinates # of Inds. General Description of Behaviour and Visible Traits (length, width, e) Additional Information	Diodd Cover (70).	Percipita	ation:	Sheller. Mod Wind
Nater Level In (m): 1.07 + 0.00 Staff Gauge Levels: 52 cm Soil Moisture: 1002LM Nater Level Out (m): 0.93 +0 100 Staff Gauge Levels: 52 cm Soil Moisture: 1002LM Presented Out (m): 0.93 +0 100 Staff Gauge Levels: 52 cm Soil Moisture: 1002LM Note: 100 Staff Gauge Levels: 52 cm Soil Moisture: 1002LM Soil Moisture: 1002L	boug -		cidensic ferest	
Water Level In (m): 1.09 100 000 000 000 000 000 000 000 000 0	Mini-niezometer			
Description of Surrounding Vegetation Health: DOMONA, 10 ROWS, all in Winter Condition. Presence of Turtle Species Observed (Yes/No):			otaπ Guage	Soil
Description of Surrounding Vegetation Health: DOMONA, 10 ROWS, all in Winter Condition. Presence of Turtle Species Observed (Yes/No):	Water Level In (m):	1.09 40 00419	Staff Gaune Levels: 52	CM Sould Show the
Description of Surrounding Vegetation Health: (If Yes, fill out table below) Species UTM Coordinates # of Inds. General Description of Behaviour and Visible Traits (length, width, electron of Surrounding Vegetation) Additional Information Show Is an agree of Turk of Surrounding Vegetation of Behaviour and Visible Traits (length, width, electron of Surrounding Vegetation) Description Additional Information Show Is an agree of Turk of Surrounding Vegetation of Behaviour and Visible Traits (length, width, electron of Surrounding Vegetation) Description Additional Information Show Is an agree of Turk of Surrounding Vegetation of Behaviour and Visible Traits (length, width, electron of Surrounding Vegetation) Control of Surrounding Vegetation of Surrounding Vegetation Description of Surrounding Vegetation of Surrounding Vegetation Control of Surrounding Vegetation of Surrounding Vegetation Control of Surrounding Vegetation of Surrounding Vegetation Control of Surrounding Vegetati	Nater Level Out (m)	:098 de 100		
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Additional Information Show Isom Leep cure party Deer result assert rais (length, warn, et al., assert as a second result as	Presence of Turtle	Species Observed (Yes/No):	: (If Yes,	fill out table below)
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Monitoring Location Feature ID:	TWH-05		Observers:	BM JE
Natural Area:	276		Turbine ID:	access road leading to Turbine 7
Italuiai Alea.	2/0		Water Body ID:	P3.29
Date: 12 18 1303				
Start Time: 12:15	End Time: 12	:25		
Weather Condition	IS			
Temperature (C°):	Wind	(Dir.):	NIA	Wind (B.S.): \
Cloud Cover (%):		pitation:	Light Snow	VVIII.d (D.S.).
* aggres	al Habitat Conditions and relds surroun gate storage	d bond		WAN .
Mini-plezometer		Cheff Co.		
biorotiletat		Staff Gu	age	Soil
Water Level In (m):	1.15 Chozen	Staff Car	uge Levels: 0. Ale	5 16 Part 1
Water Level Out (m)	1.105 1000	Juli Gal	-80 FOLEIS' CA 10	7.00
	TO TO TO			ige.
	Species Observed (Yes/No			ill out table below)
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Natural Area:	TWH-06		Turbine ID:	8	1	Truchall
	498		Water Body ID:	P3.44		
Date: Javi 2	1 2014					
Start Time:	End Time:					
Weather Condition		Din).		3		
Temperature (C°): Cloud Cover (%):	Wind (i			v	ind (B.S <u>.):</u>	
Description of Loca	al Habitat Conditions and A	Adjacent Lar	id Use:			
Pond Cou	prea in strow a	her I Ce				
Mini-piezometer		Staff Gua	ige		Soil	
	r		Ir. G	079		5007-
Water Level In (m):	Frozen & 0.449	Staff Gau	ge Levels: 10 fo	0-43 m	Soil Moisture: _	frogen
vvater Level Out (m)	: 07 +09					
					1	
Description of Sun	ounding Vegetation Healti	h: 1/20c	tation a	orman	ナ	
		<u> </u>				

Dunnana of Youth		ol: No	/MVaa	fill out table bei	lau.A	
	Reacion Cheered (Voc/No					
rresence of Turtle	Species Observed (Yes/No	o): <u> ao</u>	(ii res,		OW)	
Species	Species Observed (Yes/No UTM Coordinates				r and Visible Traits	(length, width, etc.
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Additional Informa	tion Cover de animal tr	# of Inds.	General Description	on of Behaviou	r and Visible Traits	

Monitoring Location Feature ID:	on: R1 TWH-05	Observers:	
Natural Area:	276	Turbine ID: Water Body ID:	access road leading to Turbine 7 P3.29
and the Autom	270	Traces doug so:	F3.29
Date: Jan 2			
Start Time: Weather Condition	End Time:		
vveatner conditior Temperature (C°);		N- N.	140 4 0 6 1
Cloud Cover (%):	Wind (I Percipit	office:	Wind (B.S <u>.):</u>
(70).	, Totapi	20071.	
Von d ho	al Habitat Conditions and A	Adjacent Land Use:	
Mini-plezometer		Staff Guage	Soil
Mater Level In />	Firms of 1 AUR.	Chaff Course I amend I for (S)	A75 000
valer Level III (M): Water Level Out (~	From 1020	Staff Gauge Levels: 1 (4 (5)	0.35 Soil Moisture: Frozen
Tales Lovel Out (II)	rice Co ruso		
Description of Sur	rounding Vegetation Health	: Trees and sh	rubs domaint
Presence of Turtle	Species Observed (Yes/No	. No Myon	ill out table below)
		(11 100, 1	iii out table below)
Species	UTM Coordinates	# of Inds, General Description	n of Behaviour and Visible Traits (length, width, etc
			
		4	*
Additional Informa	tion Should down	rant	
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()	An Oo Three to	11	
Photo Log			
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70	from SG look	I PO E	
(3)	Ann SG 1001	169 W	
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ford long world)

Jericho Dewatering Monitoring Field Sheet

Monitoring Location Feature ID:	TWH-06	Observers: Turbine ID:	JE/RIY
Natural Area:	498	Water Body ID:	P3.44
Date: 451 CT			
Date: 17b 25 Start Time: 102 Weather Condition	2014 15 End Time: 11	:40	
Temperature (C°): Cloud Cover (%):	Wind	(Dir.): NE	Wind (B.S.): 3
Description of Loc	al Habitat Conditions and	Adjacent Land Hee	
Mari	tield adiace	of and	
Porte	near offer	श्रा क कटाव ·	
Mini-piezometer		Staff Guage	Soil
Water Level In (m):	E/ UDCh.	Staff Gauge Levels: 0-9-	
Water Level Out (m)	10.65	Gail Gauge Levels:	Soil Moisture:
	21 0 00 3		
Description of Surr	ounding Vegetation Healt	th: Dormana	
		1	
Presence of Turtle	Species Observed (Yes/N	o): (If Yes,	fill out table below)
Species	UTM Coordinates	# of Inds. General Description	on of Behaviour and Visible Traits (length, width, e
Additional Informat	lon .		
Culvert.	Reding in	to produs not	VISILLO QUE TE Show
			4
Photo Log			
Photo ID	General Descript	ion Photo ID	General Description
IN Order			
			N.

tond short well.

Jericho Dewatering Monitoring Field Sheet

Monitoring Location	n: R1	Observers:	JEIRM
Feature ID:	TWH-05	_	iccess road leading to Turbine 7
Natural Area:	276	Water Body ID:	P3.29
			1 0.20
Data: (G) and (
Date: Pb 26 3 Start Time: 10 3	2014		
Weather Condition	60 'End Time: 10	7-12	40
Temperature (C°):		- 4	1
Cloud Cover (%):		(Dir.): None	Wind (B.S.):
Description of Loca	Habitat Conditions and	Adjacent Land Lless	
dari d	PRINS Summe	Ste bood box	
4500	ser = In		
101			
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Mini-plezometer		Staff Guage	Soil
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Monitoring Location		Observers:	Olga and Tulia
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Feature ID: Natural Area:		R1 VH-05 276	Observers: Turbine iD: Water Body iD:	access road leading to Turbine 7 P3.29
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Appendix B

Photographic Logs

- B1. Photographic Log of Preconstruction Dewatering Monitoring on November 21, 2013
- B2. Photographic Log of Preconstruction Dewatering Monitoring on December 18, 2013
- B3. Photographic Log of Preconstruction Dewatering Monitoring on January 24, 2014
- B4. Photographic Log of Preconstruction Dewatering Monitoring on February 25, 2014
- B5. Photographic Log of Preconstruction Dewatering Monitoring on March 25, 2014
- B6. Photographic Log of Preconstruction Dewatering Monitoring on April 28, 2014





Monitoring Location M1



Photograph 1. ↑
Pond and surrounding vegetation, facing west.



Photograph 2. ↑
East end of pond with dense cover with lesser duckweed (*Lemna minor*).



Photograph 3. ↑
Manitoba Maple (*Acer negundo*)
trees surrounding pond.



Photograph 4. ↑
Location of culvert on east side of pond.





Photograph 5. ↑
Location of culvert draining out into watercourse east of and behind the pond.



Photograph 6. ↑
Mini-piezometer and staff gauge installed at east end of pond, facing west.



Monitoring Location R1



Photograph 7. ↑
Cultural meadows surrounding banks of pond, facing east from monitoring location.



Photograph 8. ↑
Surrounding cultural meadows and Phragmites on banks of pond, facing west from monitoring location.



Photograph 9. ↑
Red-osier thicket and cultural meadow on north bank of pond.



Photograph 10. ↑
Possible muskrat den located on south bank, across from monitoring location.





Photograph 11. ↑
Mini-piezometer and staff gauge location.