APPENDICES TO FLOW PUBLIC COMMENTS ON THE JOINT APPLICATION OF ENBRIDGE ENERGY TO OCCUPY GREAT LAKES BOTTOMLANDS FOR ANCHORING SUPPORTS TO TRANSPORT CRUDE OIL IN LINE 5 PIPELINES IN THE STRAITS OF MACKINAC AND LAKE MICHIGAN [NO. 2HB-VGKO-35JE]

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Summary of Enbridge Files Obtained from the MI DEQ Line 5 at the Straits

Original Draft: May 1, 2014 Revised: August 23, 2016 By: Gary Street, M.S., PE

Overview

The files shared in Appendix B were provided by a FOIA request submitted by FLOW to the MDEQ, and primarily covered the period of 2001 -2010, proceed through the subsequent years, and finally include a few entries from 2012.

Since 2001, Enbridge has engaged in numerous projects (6 or more) to install additional supports for Line 5 at the Straits. Questions raised by this information include:

- Why did they not install all of the needed supports in 2001?
- By postponing the installation of all the supports, did Enbridge expose the Straits unnecessarily to a major spill? Is that still the case?
- Given the record of multiple support installations, how can we be sure that even more supports are not needed?
- For at least three of the projects, no Notice of Completion was found in the DEQ files. Were the projects never completed?
- The East and West Leg Blueprints raise questions about Enbridge's compliance with the Radius of Curvature provision in the 1953 Easement. Violations compromising the integrity of the pipelines may have occurred during construction and installation on the irregular topography of the lakebed (see East and West Leg Blueprints, Appendix B pp. 3-4; <u>FLOW April 13, letter, p. 11</u>).

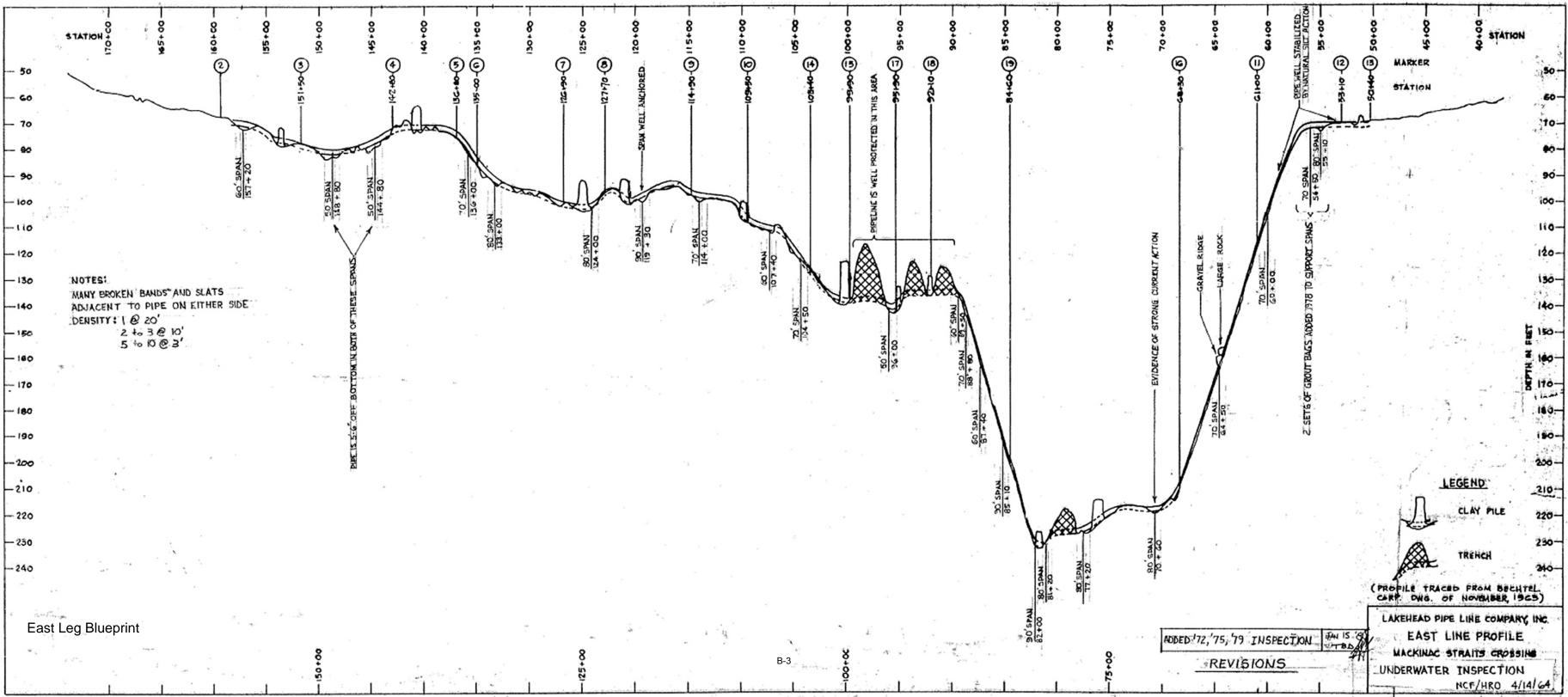
Enbridge engineers have clearly recognized the hazard the lack of proper supports poses. They repeatedly said the situation was urgent, and there were no other alternatives. Nevertheless, installation was not always done promptly.

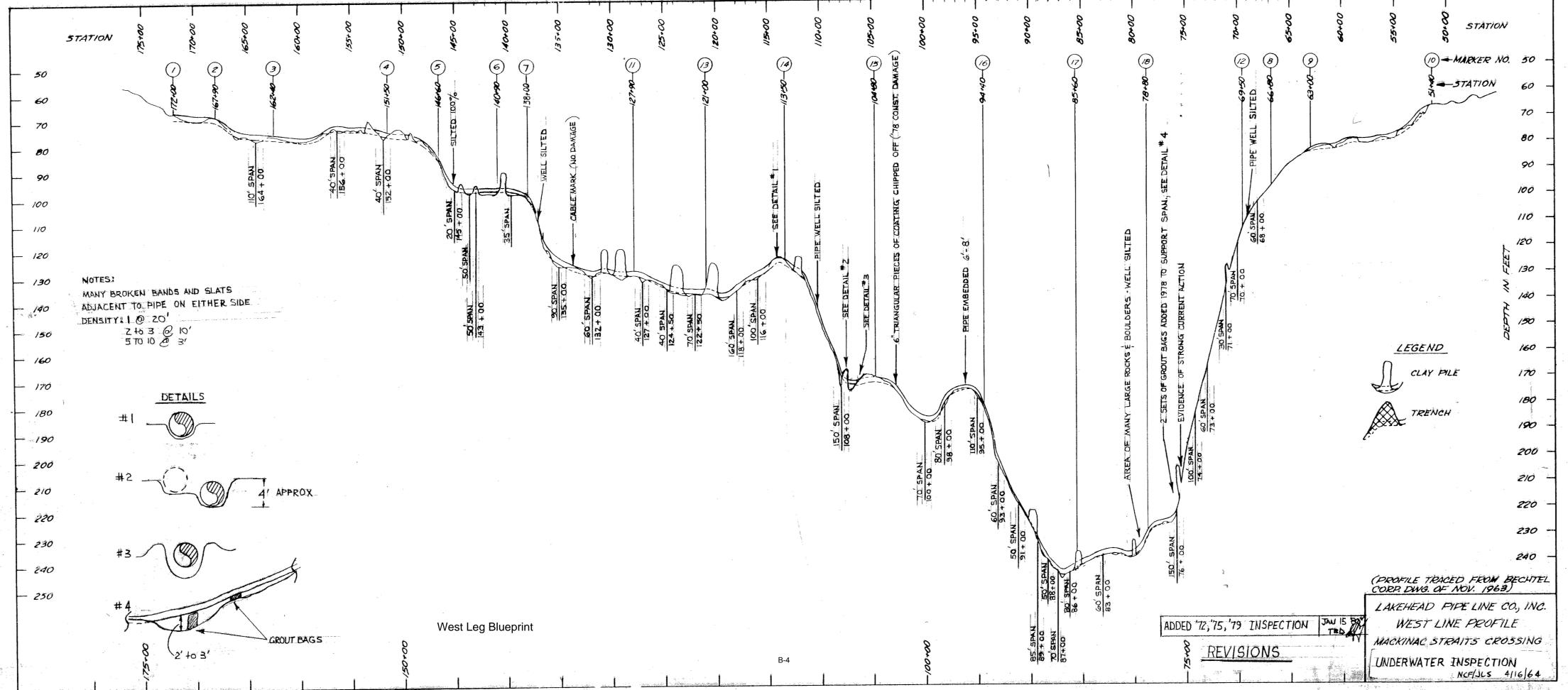
Table 1 is a Summary of the instances when Enbridge sought to install more supports between 2001 and 2010. It includes documented comments by Enbridge employees regarding the urgent need for these additional supports.

Table 1: Summary of Enbridge Requests for Installation of Supports – 2001 to 2010

Permit Request Date	Notice of Completion	Type of Support	Number of Supports	Comments - Urgency as Expressed by Enbridge
9/14/2001	12/5/2001	Grout bags	n/a	"These emergency preventative maintenance repairs must be completed as soon as possible. We are scheduled to begin work on Sunday morning, Sep. 16, 2001." "These maintenance repairs can wait no longer."
10/2/2001	12/5/2001	Grout bags?	8	"These emergency preventative maintenance repairs must be completed as soon as possible." "We appreciate your work to expedite the process."
05/20/2003	n/a	Auger	n/a	"Each of these indications ¹ have un-supported spans that are in need of repair." "If additional un-supported sections of the pipeline requiring repair are located, we will issue an additional map indicating their location."
03/14/2005	7/22/2005	Auger	10	"Each of these indications ¹ have un-supported spans that are in need of repair." "If additional un-supported sections of the pipeline requiring repair are located, we will issue an additional map indicating their location." "The purpose of this project is to provide support beneath our pipelines in sections where the pipeline is unsupported over too great a distance." "In order to maintain integrity and safety additional supports are necessary under lengthy unsupported spans of the pipeline."
05/03/2006	n/a	Auger	20	"The purpose of this project is to provide support beneath our pipelines in sections where the pipeline is unsupported over too great a distance." "In order to maintain integrity and safety additional supports are necessary under lengthy unsupported spans of the pipeline." "The purpose of this project is to enhance support beneath the pipelines where the span is currently unsupported for extended distances."
08/26/2010	n/a	Auger	10+	"In order to maintain integrity, installation of additional supports to minimize the distance between presently unsupported pipeline spans is necessary." "Project is for up to 10 anchoring structures to hold the pipeline to the bottom of Lake Michigan." "Do nothing or the no-build alternative presents a future risk to the pipeline. The no build is not an option."
9/16/2010				"The application is currently on hold at the request of Enbridge."

¹ Enbridge's term "Indications" signifies problems or potential problems.





FOIA request for Enbridge DEQ Permits (2-14-14).docx

153 ½ E. Front Street | Suite 203C | Traverse City, MI 49684 | 231.944.1568

August 1, 2014

Freedom of Information Act Coordinator Michigan Department of Environmental Quality Water Resources Division Land and Water Programs P.O. Box 30204 Lansing, MI 48909-7704

RE: Freedom of Information Act Request, MCL 15.231, et seq., re: All permits related to Lakehead Pipeline Company, Inc. and Enbridge Energy's Line 5 and Line 6B pipelines in Sanilac County and under the St. Clair River

Dear Freedom of Information Act Coordinator:

Under the provisions of the Freedom of Information Act (FOIA), I request, on behalf of FLOW, a Michigan nonprofit corporation, access to and copies of all documents contained in your file relating to all permits issued to Lakehead Pipeline Company's and Enbridge's pipelines known as Line 5 and Line 6B, located in Sanilac County and under the St. Clair River.

Specifically, I request copies of all public documents prepared by or in possession of Michigan Department of Environmental Quality (MDEQ) Land and Water Management Division (LWMD), its divisions, and its field offices related to all permits for Lakehead Pipeline Company's and Enbridge's pipelines known as Line 5 and Line 6B located in Sanilac County and under the St. Clair River.

The terms "documents" and "materials," as used in this FOIA request, should be construed in the broadest possible manner and include any written, graphic, or recorded matter, electronic, or a combination of these, however produced or reproduced, of any kind or description, including both sides of any two-sided writing, drafts and marked copies.

If there are any fees for searching for or copying the records I have requested, please advise and we will remit those fees at once, so long as the cost is within the limits of the Freedom of Information Act. If you believe that the volume of material contained in your file is so great that it would result in costs in excess of \$100.00, please notify me and provide an estimate of the total cost of this request, so that I may personally review the file or otherwise attempt to narrow the scope of this request.

If your file contains large-scale plans or drawings, rather than photocopying them piecemeal, please let me know, identifying the contents and/or subject matter, and suggest some way in which full-size copies can be obtained. Likewise, if your file contains any other "writing," as defined by the FOIA to include photographic films, prints, microfilm, microfiche, cards, disks, or other ways of recording or retaining meaningful information (such as audio or video tapes, CD, DVD, or information stored on computer), please advise, identifying contents and/or subject matter, as well as the format, and suggest some way in which we can obtain usable copies.

If all or any part of this request is denied, please cite the specific exemptions to justify your refusal to release the information, under Section 13 of the Act, and the reason why you have not invoked your discretion to release the requested documents in the public interest. We further request any segregable portion of any document you might otherwise withhold. For each record or portion of a record that you withhold, we specifically request a particularized description of the basis for withholding it.

Because FLOW is a Michigan nonprofit corporation researching public water and related policy for the benefit of Michigan and Great Lakes region, and working for the public interest, we request that fees be waived pursuant to Section 4 of the Freedom of Information Act (MCL 15.234(1)). A copy of 501(c)(3) letter is attached. This request for fee waiver should not be understood as consent to any extension to the statutory time period for responding to this request.

As I am sure you are aware, a response to a request under the FOIA must be completed within five business days. Because of the numerous items requested, within 5 days of this request please contact my office and advise if additional time is needed.

I thank you in advance for your cooperation and attention to this matter.

Sincerely,

E Vichard

Elizabeth R. Kirkwood Executive Director, FLOW

01 24 0046 Initial Supports/Supports 09 14 01 A

Enbridge Energy Company, Inc. Lako Superior Place 21 West Superior Street Duluth, MN 55802-2067 Tel 218 725 0100 Fax 218 725 0564 www.enbridgepartners.com ENBRIDGE

September 14, 2001

Craig Outwater Michigan Department of Environmental Quality

Subject: Enbridge Energy Partners (formally Lakehead Pipe Line) shuts down Michigan liquid petroleum pipeline for unscheduled maintenance.

Enbridge Energy Partners (formerly Lakehead Pipe Line) operates a 645-mile liquid petroleum pipeline from Superior, WI to Sarnia, Ontario. This pipeline, also referred to as Line 5 transports crude oil and natural gas liquids in batches and is routed across the Upper Peninsula of Michigan. The 30-inch pipeline then splits into two 20-inch pipelines for the underwater crossing at the Straits of Mackinac.

This notice is to inform you of some unscheduled maintenance work on the two parallel 20inch liquid petroleum pipelines at the Straits. A routine scheduled inspection of the underwater crossing of Line 5 identified a loss of existing support to some segments of the pipeline due to lakebed erosion. While the company is still completing underwater inspections, we have initiated a plan to expedite needed repairs to replace supports under the pipe segments. These repairs will require the line to be shutdown for the next four to seven days, weather and equipment dependent.

While Enbridge does not anticipate a problem and there has been no incident or leakage, this advisory seemed appropriate, as we believe you may receive questions from the public in light of the visibility of the barges completing the maintenance. As well, today the company filed a "Safety Related Condition" report with the U.S. Department of Transportation, Office of Pipeline Safety.

We do not expect the need for any response action on your part during the repair work and this advisory is for your information only.

An effort is underway to move a batch of natural gas liquid to displace the crude oil. This both reduces the stress load on the pipelines and lowers the environmental risk. A barge and other equipment are enroute to the area and will begin work once the NGL is locked into place and the pipeline shutdown beginning late afternoon today.

As always, we are available should you have any questions. I can be reached at (715) 394-0410.

lander (pr)

Regional Manager

Enbridge Energy Company, Inc. Lake Superior Place 21 West Superior Street Duluth, MN 55802-2067 www.enbridgepartners.com Grant P. Henningsen Supervisor, Civil/Mechanical Engineering Adam J. Erickson Engineer Tel 218 725 0548 Fax 218 725 0564 adam.erickson@enbridge-us.com



September 14, 2001

Mr. John Arevalo Michigan Department of Environmental Quality Gaylord District 2100 West M-32 Gaylord, MI 49735

Re: Enbridge Energy's Joint Permit Application for Repair Work to be Completed on Crude Oil Transmission Pipelines Located in the Straits of Mackinac.

Dear Mr. Arevalo:

As follow-up to our telephone conversation held yesterday regarding the above referenced project, enclosed is a Joint Permit Application for repair work to be conducted on Enbridge's (formerly Lakehead Pipeline) two 20-inch diameter pipelines. We have been in contact with the U.S. Army Corp of Engineers and they will be issuing a permit for this repair work today. They have assigned case number 880161211 to the project. These emergency preventative maintenance repairs must be completed as soon as possible. We are scheduled to begin repair work on Sunday morning, September 16, 2001.

We appreciate your work to expedite the approval process. If you have any questions or comments, please feel free to contact me at (218) 725-0548.

Sincerely,

adan Erichn

Adam J. Erickson Engineer

Enclosure: Joint Permit Application Indications map

c: John Sobojinski – LPL Grant Henningsen – LPL Barry Power – LPL

01 24 0046 Initial Supports\Supports 09 17 01

	US Army Corps of Engineers (USACE)			Michigan Department of Envi	ironmental Quality (MDEQ)	DEQ
	Previous USACE Permit or File Number	Baa	bived	Land and Water Management		A
Щ			D/DEQ	01-24-1	90461	ଜ୍ମ
USE	USACE File Number	SEP 1	1	Marina Operating Permit Numb	yer	AGENCY
AGENCY		SEP 1	7 2001			
E		L J C Date		Fee received \$	1	SC
AG AG		GAVI	ORD	\$50.00	#-833	m
• Pri	nt in black, blue, or red ink and complete all items i					ct.
2.2. SP (1.2.5)	ROJECT LOCATION INFORMATION			<u></u>		
	efer to your property's legal description for the Townshi	p, Range, and Section	information, and your p	roperty tax bill for your Property	/ Tax Identification Number(s).	=
Add	330			V/. Townshi	ip(s) Range(s) Section(s	
LA	KE MICHIGAN BETWEEN UPPER & LOU	NOK FOUNDULA	Dranadu Tau Idaniiliad	A 39 N	3W N/A	_
	Village N/A County(ies) N	A.	Property Tax Identifical	1At		
Nam	e of Waterbody Project Name or J AKE MICHIGAN SCN 812		Subdivision/Plat N/A	Lot N	umber Private Claim	9 - 4
Proje	ect types 🗌 private 🗌 public/g	government	🔀 industrial	Commercia		
	other (explain)	ilding or structure	building renovation		ration single-family	у
-	proposed project is on, within, or involves (check all th		231 0	nty Drain (date established)	
10000A1101	a stream a pond (less than 5 acres)		a Great Lake or Section			
0.000	a river 🗌 a channel/canal		a designated high risk en		a <i>structure</i> removal	8
	a ditch or drain a <i>inland lake</i> (more than the field of	s seascheads hereite	a designated <i>critical dun</i> a designated <i>environmer</i>	an at the second s	an existing waterbody	2
	ESCRIBE PROPOSED PROJECT AND ASSOCIATED				an existing nateroody	-
• A	tach separate sheets, as needed, including necessary	drawings, sketches, o	r plans. PROSECT IS	TO PROVIDE SUPPOR	T UNDERNEATH	
00	r pipelines in sections where	THE PIPELINE	SPANS UN-SU	PPORTED OVER TOO	O GREAT A DISTANC	CE.
GRO	UT BAGS WILL BE PLACED BENGA	TH THE UNS	upported section	ws then filled	WITH GROUT VIA	
APU	IMPING RIG LOCATED ON A BARGE	AT THE SURF	ACE . GROUT HOS	SES WILL BE CONNI	ECTED BY DIVERS,	
	PPLICANT, AGENT/CONTRACTOR, AND PROPERT					-
• TI	he applicant can be either the property owner or the pe	rson or company that p	proposes to undertake th	e activity.		
	the applicant is a corporation, both the corporation and	it's owner must provid	le a written document au	thorizing the agent/contractor t	o act on their behalf.	
	icant (individual or corporate name) BRIDGE ENERGY LIMITED PAR	TNERSHIP	Agent/Contractor (firm	name and contact person)		
	ng Address 21 WEST SUPERIOR ST		Address	01	7: 0.4	
City	DULUTH MN State 55	Zip Code	City	Sta	ate Zip Code	
Day	ime Telephone Number with Area Code (218) 725	-0548	Daytime Telephone Nu		1	
	18) 725-0564 E-mail ADAM.ERKKSON@			E-mail		
(If N	e applicant the sole owner of all property on which this o, provide a letter signed by the property owner author	izing the agent/contrac	tor to act on his or her b			£.
	ers, please attach all property owners' names, mailing erty Owner's Name (If different from applicant)	addresses, and teleph	Mailing Address			
Flop	eny Owner's Name (il different nom applicant)		Mailing Address			
Day	ime Telephone Number with Area Code		City	Sta	ate Zip Code	
• Tł	ROPOSED PROJECT PURPOSE, INTENDED USE, A ne purpose must include any new development or expansion	ansion of an existing la	nd use.			
al	clude a description of alternatives considered to avoid ternative project layout and design; alternative location or utility crossings, include both alternative routes and a	s; local land use regula	ations and infrastructure;			es;
(Carbon 1997)				MALLING	Adding the second	-
N	ORDER TO MAINTAIN PIPELINE IN					
NO	LONGER, THIS METHOD OF NCH WE ARE AWARE OF,	REPAIR IS T	the most en	DUIRONMENTALLY	FRIENDLY METHO	0
WF	that we the product of					

US Army Corps of Engineers (USACE)	Michigan Department of Environmental Quality (MDEQ)	60
5 LOCATING YOUR PROJECT SITE		
Provide the requested information listed below that will help staff in locating your project site).	-
 Attach a copy of a map, such as a plat, county, or USGS topographic map, clearly showing 	the site location and include an arrow indicating the north direction.	
Is there an access road to the project? 🗌 No 📋 Yes (If Yes, type of road, check all that a	pply) 🗌 private 🔲 public 🔲 improved 🗌 unimproved	
Name of roads at closest main intersection and		
Directions from main intersection		
Style of house or other building on site 🗌 ranch 🗌 2-story 🗌 cape cod 🗌 bi-level 🗌 c	ottage/cabin 🗌 pole barn 🔲 none 📄 other (describe)	
Color Color of adjacent property house and/or buildings	IT IS LOCATED BETWEEN THE	
House number Address is visible on house garage mailbox is	n Dathar	
Street name Fire lane number Lot number	UFFER & LOWER FOUNDULA OF	
How can your site be identified if there is no visible address?	MICHIGAN AT THE MACKINAC	
Provide directions to the project site, with distances from the best and nearest visible landmark	k and waterbody STRAITS,	
Does project cross boundaries of two or more political jurisdictions? (City/Township, Township No ロ Yes (If Yes, list jurisdiction names.) しんたいのの	VTownship, County/County, etc.)	
6 List all other federal, interstate, state, or local agencies authorizations required for the propo	osed activity, including all approvals or denials received.	-1
Agency Type approval Identification number	Date applied Date approved denied If denied, reason for denia	al
USACE NATIONWIDE PERMIT NWO3	9-12-01	"
	9-14-01 9-14-01	
888 · 같은 # · · · · · · · · · · · · · · · · · ·		
		_
7 If a permit is issued, date activity will commence (M/D/Y) 9 - 15 - 01 P.E.	Proposed completion date (M/D/Y) IO - IS -OI Yes Were the regulated activities conducted under a MDEQ permit	2
Has any construction activity commenced or been completed in a regulated area? X No I fYes, identify the portion(s) underway or completed on drawings or	No ☐ Yes	"
attach project specifications and give completion date(s) (M/D/Y)	If Yes, list the MDEQ permit number	
Are you aware of any unresolved violations of environmental law or litigation involving the prop		
		_
8 PUBLIC NOTIFICATION (Attach additional sheets if necessary)	and the second se	
 Complete information for all adjacent and impacted property owners and the lake association If you own the adjacent lot, provide the requested information for the first adjacent parcel be 		
Property Owner's Name Mailing Advancement of the market adjacent parcel be		
77		
		_
Name of Established Lake Board or Lake Association Mailing Ad	ddress City State Zip Code	
and the Contact Person's Name Telephone Number 9 APPLICANT'S CERTIFICATION READ CAREFULLY BEFOR	ESIGNING	-
I am applying for a permit(s) to authorize the activities described herein. I certify that I am fam		
accurate, and, to the best of my knowledge, is in compliance with the State Coastal Zone Man	nagement Program and the National Flood Insurance Program. I understan	ld
that there are penalties for submitting false information and that any permit issued pursuant to	this application may be revoked if information on this application is untrue.	6
I certify that I have the authority to undertake the activities proposed in this application. By sig		
USACE to enter upon said property in order to inspect the proposed activity site and the comp county, state, or federal permits and that the granting of other permits by local, county, state, or	reled project. Tundersiand that I must obtain all other necessary local, or federal agencies does not release me from the requirements of obtaining	
the permit requested herein before commencing the activity. I understand that the payment of		,
• All applicants must complete all the items in Sections 1 through 9 on pages 1 and 2 of this a		
· Complete those items in Sections 10 through 21 that apply to your project. It is necessary t	o submit only those pages where you have provided information.	
Please list here the application page numbers being submitted and a brief description of oth	er attachments included with your application.	
8 2		
Property Owner	5 A	
Corporation - Title Enbridge Energy, Printed Name Adam Erickson	Signature adam Vuchen Date 19/14/	1
Corporation - Title Enbridge Energy, Printed Name Houm Erickson	Signature adam Vuchen Date 19/14/	0

.

US Army Corps of Engineers (USACE)	Michigan Department of Environmental Quality (MDEQ)
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON A	N INLAND LAKE OR STREAM OR A GREAT LAKE
• Check boxes A through N that may be applicable to your project and provide the re	quested information.
If your project may affect wetlands, also complete Section 12. If your project may i	
Provide an overall site plan showing existing lakes, streams, wetlands, and other w	ater features; existing structures; and the location of all proposed structures, land
	iew sample drawings for guidance in completing site-specific drawings for your project.
 On a Great Lake use IGLD 85 X surveyed converted from observed still water Observed water elevation (ft) 584,303, date of observation (M/D/Y) 	r elevation. On inland waters, I NGVD 29 I local datum I other
A. PROJECTS REQUIRING FILL (See All Sample Drawings)	BAGS
To calculate volume in cubic yards (cu yd), multiply the average length in feet (f	
Attach both plan and cross-section views to scale showing maximum and avera	ge fill dimensions.
(Check all that apply) [] floodplain fill [] wetland fill [] rip	
	atwell crib dock other
Fill dimensions (ft) Length 5 width 7 maximum depth 1.5	Fill volume (cu yd) Maximum water depth in fill area (ft)
Length 5 width / maximum depth 10	Will filter fabric be used under proposed fill?
Type of clean fill 🔲 pea stone 🔲 sand 🗌 gravel 🔲 wood chips 🔀 othe	
Source of clean fill on-site, If on-site, show location on site plan comme	ercial 🖾 other, If other, attach description of location POMPED FROM BARGE
Fill will extend OF feet into the water from the shoreline and upland.	feet out of the water. VARIETY OF LOCATIONS UNDER PIPELINE
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (See All Sample Dra	wings)
To calculate volume in cubic yards (cu yd), multiply the average length in feet (if the second	
Attach both plan and cross-section views to scale showing maximum and average	ge dredge or excavation dimensions.
 The applicant will be notified if sediment sampling will be required. 	a iv e
(Check all that apply) [I floodplain excavation wetland dredge	
navigation boat well boat launch	d and aquiament for diadalas
Dredge volume (cu yd) Metho	d and equipment for dredging
Has proposed dredge material been tested for contaminants? No Yes (If	Yes, attach testing results)
Has this same area been previously dredged? No Yes (If Yes, provide d	
If Yes, are you proposing to enlarge the previously dredged area No Yes	
Is long-term maintenance dredging planned? No Yes (If Yes, when and h	
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 17,	
	nsions (ft) Volume (cu yd)
Riprap waterward of the shoreline OR ordinary high water mark length	n width depth sions (ft) Volume(cu yd)
Riprap landward of the shoreline OR ordinary high water mark length	
Type of riprap iield stone angular rock other	1×3 F 4 5 F
Will filter fabric be used under proposed riprap? No Yes (If Yes, type)	
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17)	
(check all that apply) 🗌 riprap 🔲 seawall/bulkhead 🔲 revetment	2 II. (171 A. 192
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)	
	Seasonal structure? 🗌 No 🔲 Yes
A 45.1 194 83.0 1 4	
	Dimensions of nearest adjacent structures (It) length width
F. BOAT WELL (No Sample Drawing available)	
Type of bank stabilization wood steel concrete vinyl ripra	p other
Boat well dimensions (ft) Length width depth	
	Distances of boat well
	from adjacent property lines (ft)
G. BOAT LAUNCH (No Sample Drawing available)	
(check all that apply) anew existing public private commercial	Type of material concrete wood stone other
Overall boat launch dimensions (It)	Boat launch dimensions (ft) below ordinary high water mark
Length width depth	length width depth
Distances of launch	Number of skid piers Skid pier dimensions (II)
from both property lines (ft)	width length
H. BOAT HOIST (No Sample Drawing available)	
(Check all that apply) seasonal permanent cradle side lifter	
I. BOARDWALKS AND DECKS IN WETLANDS OR FLOODPLAINS (See Samp	
(Check all that apply) 🗌 boardwalk 🔲 deck 🔲 wetlands 🗌 flood	plain Boardwalk or deck is on [] fill [] piling

01 24 0046 Initial Supports\Letter asking to add supports 10 02 01

Enbridge (U.S.) Inc. Lake Superior Place 21 West Superior Street Duluth, Minnesota 55802 Telephone: (218) 725-0100 Fax: [218] 725=0564 www.enbridge.com Dana A. Slade Environmerical Analyst II Scott Lounsbury Supervisor, Environment Barry F. Power Environmental Engineer



October 2, 2001

Mr. John Arevalo Michigan Department of Environmental Quality Gaylord District 2100 West M-32 Gaylord, MI 49735

LWMD/DEQ OCT 0 9 200 GAYLORD

Re: Final phase of indications requiring repair work on Enbridge Energy's Crude Oil Transmission Pipelines Located in the Straits of Mackinac.

Dear Mr. Arevalo:

Enbridge Energy has recently located the final eight indications along our pipeline where additional support is required beneath our pipelines which cross the Straits of Mackinac. Each of these indications have un-supported spans exceeding 130 feet and are in need of repair. As with the earlier indications, these repairs will be completed through the use of grout bags. This work will be conducted coincident with our on-going repair program in the Straits as previously documented in our September 14, 2001 letter to the MDEQ. We are requesting authorization under our existing permit (#01-24-0046-P) which was issued on September 17, 2001.

These preventative maintenance repairs must be completed as soon as possible. We are scheduled to begin repair work on these final eight indications on Wednesday or Thursday, October 3 & 4, 2001. This is the last set of indications requiring repair on the un-supported sections of pipeline. Upon completion of these eight repairs, we will submit a notice of project completion to your office.

We appreciate your work to expedite the approval process. If you have any questions or comments, please feel free to contact me at (218) 725-0143.

Sincerely,

Barry F. Power, P.E. Engineer

Enclosure: Indications map Span locations

c: John Sobojinski – Enbridge Energy Grant Henningsen – Enbridge Energy Adam Erickson – Enbridge Energy Enbridge Energy Company, Inc. Lake Superior Place 21 West Superior Street Duluth, MN 55802-2067 Tel 218 725 0100 Fax 218 725 0139 www.enbridgepartners.com Scott W. Lounsbury Supervisor, Environment Dana A. Slade Senior Environmental Analyst Kris H. Benson Environmental Analyst Barry F. Power Environmental Engineer **ENBRIDGE**

December 5, 2001

LWMD/DEQ DEC 1 0 2001 GAYLORD

Received

01-21-46-P

Mr. John Arevalo Michigan Department of Environmental Quality Gaylord District 2100 West M-32 Gaylord, MI 49735

Re: Temporary completion of repairs on indications requiring work on Enbridge Energy's crude oil transmission pipelines located in the Straits of Mackinac.

Dear Mr. Arevalo:

Enbridge Energy has finished the 2001 repairs on indications along our pipeline where additional support was required beneath our pipelines which cross the Straits of Mackinac. However, this notification does not serve as the project Notice of Completion. Once we determine additional locations requiring repair, we will resume activities during 2002. Prior to initiating the 2002 repairs, we will submit a map showing the target locations and request for authorization to complete repairs.

If you have any questions or comments, please feel free to contact me at (218) 725-0143.

Sincerely Barry F. Power, P

Environmental Engineer

c: John Sobojinski – EEP Grant Henningsen – EEP Adam Erickson - EEP Scott Lounsbury – EEP

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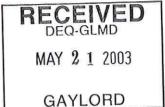
Consider a unique au procession d'importangen etchi si proven ibre gestionation d'accuration de la project Neural de Complitione, une exca determine préfilient représent représent repet, me vit man existing densité de la faiturie de 2465, représent ce vai equiration premisére des fix de la project de la présent la faiturie de 2465, représent ce vai equiration premisére des fix de la provision de la présent de la faiture de 2465, représent ce vai equipant de premisére des fix de la provision de la présent de la faiture de 2465, représent ce vai equipant de premisére des fix de la provision de la présent de la faiture de la présent de la présent de présent des fixes de la provision de la présent de la présent de la présent de la présent de présent des fixes de la présent de Enbridge Pipelines (Lakehead) L.L.C. Grant P. Henningsen

119 N. 25th Street East Superior, WI 54880 www.enbridgepartners.com

Supervisor, Civil/Mechanical Engineering Adam J. Erickson Engineer Tel 715 394 1548 Fax 715 394 1564 adam.erickson@enbridge.com



May 20, 2003



Mr. John Arevalo Michigan Department of Environmental Quality Land and Water Management Division **Gaylord District** 2100 M-32 West Gaylord, MI 49735

Enbridge Energy's Joint Permit Application for Repair Work to be Completed Re: on Crude Oil Transmission Pipelines Located in the Straits of Mackinac. MDEQ Permit Number: 01-24-0046-P

Dear Mr. Arevalo:

Enbridge Energy has recently located sections along our pipeline where additional support is required beneath our pipelines which cross the Straits of Mackinac. Each of these indications have un-supported spans that are in need of repair. These repairs will be completed through the use of the augered supports we discussed in our phone conversation several months ago. Figures depicting repair locations and the equipment to be used are included with this letter. We are requesting either a new authorization or a revised Joint Permit Application Approval for Permit number 01-24-0046-P.

We are scheduled to begin repair work on these additional indications in June of this year. If additional un-supported sections of pipeline requiring repair are located, we will issue an additional map indicating their locations. Please note that we are also seeking approval from the U.S. Army Corp. of Engineers.

We appreciate your work to expedite the approval process. If you have any questions or comments, please feel free to contact me at (715) 394-1548,

Sincerely,

Adam J. Erickson Engineer

Enclosure: **Repair Locations Map Typical Suspension Support Sketches Joint Permit Application**

C: John Sobojinski – Enbridge Grant Henningsen - Enbridge bc: Law

JOHN-I WAS NOT SURE IF I SHOULD INCLUDE THE \$50 APPLICATION FEE (IF NENGWAL) (IF NENGWAL) PLEASE CALL IF NEGDED ADM

Support Letter 03 14 05

Enbridge Pipelines (Lakehead) L.L.C. Superior Region Office 119 North 25th Street East Superior, WI 54880-5247 www.enbridgepartners.com Adam J. Erickson Region Engineer Tel 715 394 1548 Fax 715 394 1405 adam.erickson@enbridge.com



March 14, 2005

Mr. John Arevalo Michigan Department of Environmental Quality Land and Water Management Division Gaylord District 2100 M-32 West Gaylord, MI 49735

Re: Enbridge Energy's Joint Permit Application for Repair Work to be Completed on Crude Oil Transmission Pipelines Located in the Straits of Mackinac.

MDEQ Permit Number: 01-24-0046-P

Dear Mr. Arevalo:

Enbridge Energy is planning to repair sections along our pipeline where additional support is required beneath our pipelines which cross the Straits of Mackinac. Each of these indications have un-supported spans that are in need of repair. These repairs will be completed through use of the augered supports we have utilized the past few years. Figures depicting repair locations and the equipment to be used are included with this letter. We are requesting a new Joint Permit Application Approval for this project.

We are scheduled to begin repair work on these additional indications in June of this year. If additional un-supported sections of pipeline requiring repair are located or revised during our ROV (Remote Operating Vehicle) inspection, we will issue another map indicating their locations prior to initiating the repairs. Please note that we are also seeking approval from the U.S. Army Corp. of Engineers. Attached are three copies of the enclosures for distribution within the agency. A check in the amount of \$500 is included with this letter to cover the permit application filing fee.

We appreciate your assistance with approval of this project. If you have any questions or comments, please feel free to contact me at (715) 394-1548.

Sincerely,

Euclesen

Adam J. Erickson Engineer

Enclosure:

Repair Locations Map Typical Suspension Support Sketches Joint Permit Application

c: John Sobojinski – Enbridge Grant Henningsen – Enbridge Received LWMD/DEQ

MAR 2 1 2005 GAYLORD FIELD OFFICE

Support Letter 04 13 05

Enbridge Pipelines (Lakehead) L.L.C. Adam J. Erickson Superior Region Engineer 119 N. 25th Street East Superior, WI 54880 Tel 715 394 1400 Fax 715 394 1570 www.enbridgepartners.com



April 13, 2005

Mr. John Gustafson
Permit Consolidation Unit
Michigan Department of Environmental Quality
Land and Water Management Division
P.O. Box 30204
525 W. Allegan Street
Lansing, MI 48909-7704

RECEIVED

APR 1 9 2005

MDEQ/LWMD PERMIT CONSOLIDATION UNIT

Re: Application Correction Request for Enbridge Energy's Repair Work to be Completed on Crude Oil Transmission Pipelines Located in the Straits of Mackinac.

MDEQ File Number: 05-24-0013-P

Dear Mr. Gustafson:

This letter is an addendum to our previous submittal and serves to address the comments detailed in your March 28, 2005 letter (attached) requesting additional information regarding the above referenced project. Each of the items discussed in that letter are addressed below:

- 1. Section 3 of the joint permit application has been completed that indicates who the sole property owner is. Since the work to be completed will take place in Lake Michigan, the State of Michigan is considered the property owner. The joint permit application reflecting this information is included with this letter.
- 2. The property owners where the pipeline enters/exits the shoreline of Lake Michigan in both Emmet and Mackinac counties are included in Section 8 of the joint permit application.
- 3. The supports will be drilled approximately six feet into the lake bottom. A typical support structure is five feet wide by five feet tall, plus an anchor length of approximately six feet. There are two 20-inch crude oil transmission pipelines that will be worked on/supported.

We appreciate your assistance with approval of this project. If you have any questions or comments, please feel free to contact me at (715) 394-1548.

Sincerely,

Vich

Adam J. Erickson

Enclosures: Application Correction Request Letter Joint Permit Application

c: John Sobojinski – Enbridge Grant Henningsen – Enbridge John Korienek - NREC

bc: Law

Support App to DEQ 03 21 05.pdf

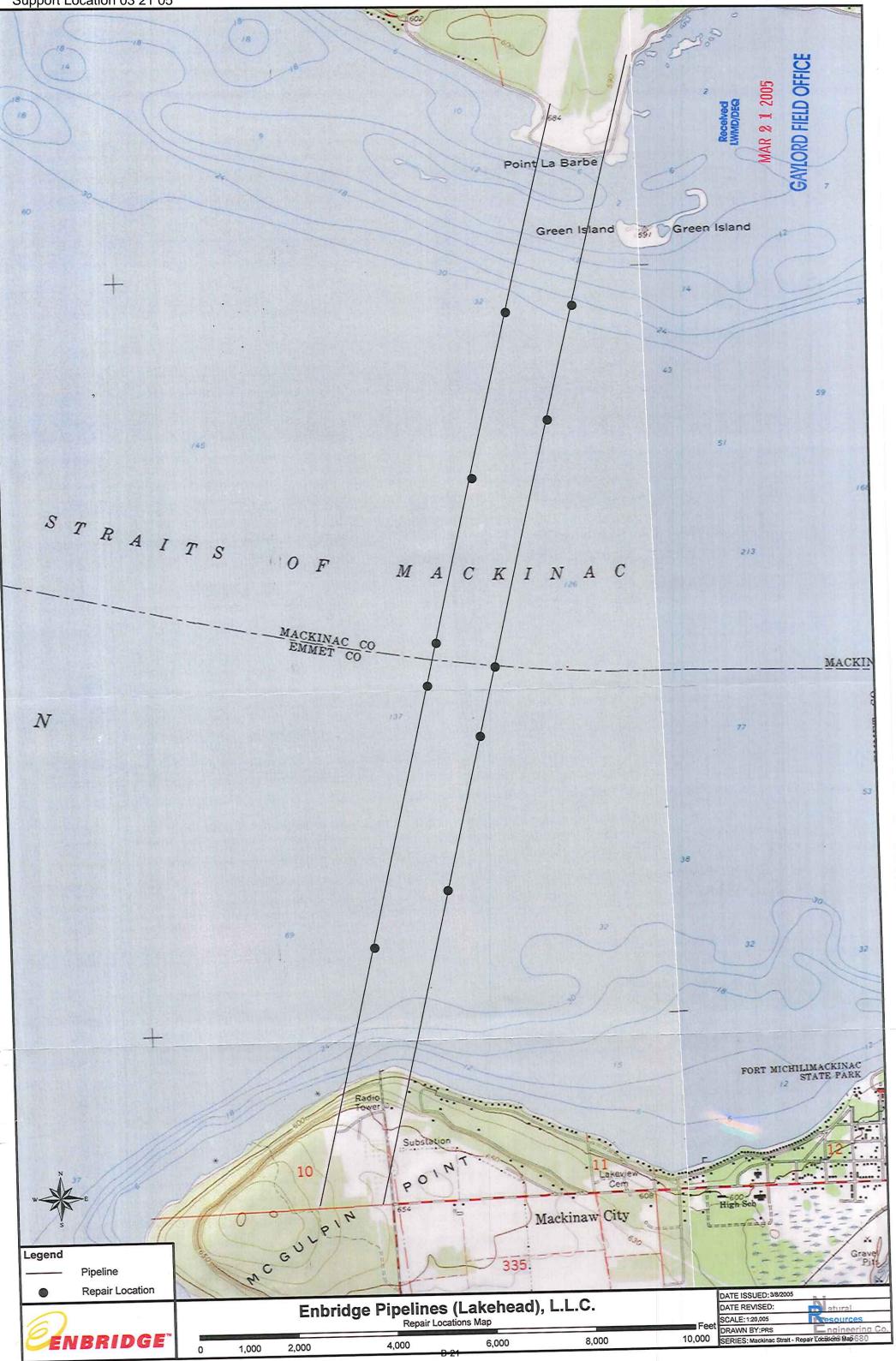
	US Army Corps of Engineers (USACE)			Michigan Department of Environmental Quality (MDEQ)
	Previous USACE Permit or File Number		ceived AD/DEQ	Land and Water Management Division, MDEQ File Number
IS I				05-74-0013P B
X	USACE File Number		2 1 2005	Marina Operating Permit Number
AGENCY USE		MAR MAR	6 1 2005	OS-24-0013P Image: Construction of the second sec
G		ă autopp		Fee received \$ # 2020
			FIELD OFFICE	500.00 # 203.5 m
-	omplete all items in Sections 1 through 9	and those items in Sections 1	0 through 21 that apply	to your proposed project.
	ROJECT LOCATION INFORMATION	o Township, Danao, and Socia	information and your pr	reports for hill for your Property Tay Identification Number(e)
	ress	e rownship, Range, and Section	Township Name(s)	roperty tax bill for your Property Tax Identification Number(s). Township(s) Range(s) Section(s)
0121220055	ke Michigan between Upper and La	ower Penninsula	N/A	39N 3W N/A
	/Village County(ies)	Property Tax Identificat	
N/.	Construction of the second	Manager 1st Managers		N/A
		Name or Job Number water Inspections	Subdivision/Plat	Lot Number Private Claim
1.000	ect types private] public/government	industrial	commercial multi-family
	cck all that apply) building addition other (explain)	new building or structure	building renovation	
	proposed project is on, within, or involves (cl			nty Drain (date established)
10000	a stream a pond (less than		a Great Lake or Section	
Constanting of the	a river 🗌 a channel/canal		a designated high risk er	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a ditch or drain an <i>inland lake</i> (5 a floodway area a 100-year flood	A second s	a designated critical dune a designated environmen	이번 방법에 가지 않는 것이 있는 것이 있는 것이 같이 있는 것이 없는 것이 같이 있는 것이 없는 것이 없다. 것이 같이 많이 많이 많이 없는 것이 없이 않이 않이 않이 않는 것이 없는 것이 없는 것이 없이 않이 않
	a floodway area a 100-year flood ESCRIBE PROPOSED PROJECT AND ASS			
and a second	ttach separate sheets, as needed, including n	and a state of the		
				tions where the pipeline span is unsupported
ove	er too great a distance. Support	s will be placed around	the unsupported se	ections of the pipeline and will then be augered
int	o the sediment. A certified dive	r will be deployed to ov	versee the installat	tion,
3 A	PPLICANT, AGENT/CONTRACTOR, AND P	ROPERTY OWNER INFORMA	TION	
	he applicant can be either the property owner			e activity.
		ration and it's owner must provid		thorizing the agent/contractor to act on their behalf.
551.96	licant (individual or corporate name)	1	Agent/Contractor (firm)	name and contact person)
	b <i>ridge Energy, Limited Partnershi</i> j ing Address	9	Address	
	9 North 25 th Street East		/ durooo	
City		Zip Code	City	State Zip Code
1	perior WI	54880		
	time Telephone Number with Area Code		Daytime Telephone Nu	mber with Area Code
	5) 394-1400		Fou	E mell
Fax	5) 394–1405 E-mail 5) 394–1405 Adam. Erickso	n@enbridge.com	Fax	E-mail
			Lucted and all property inv	olved or impacted by this project?
(If No	o, provide a letter signed by the property own	er authorizing the agent/contract	tor to act on his or her be	shalf or a copy of easements or right-of-ways. If multiple
	ers, please attach all property owners' names			
Prop	erty Owner's Name (If different from applican	d)	Mailing Address	
Davt	ime Telephone Number with Area Code		City	State Zip Code
Day			ONY	
4 PI	ROPOSED PROJECT PURPOSE, INTENDE	D USE, AND ALTERNATIVES	CONSIDERED (Attach a	dditional sheets if necessary)
• Th	ne purpose must include any new development	nt or expansion of an existing la	nd use.	
				such as, but not limited to, alternative construction technologies;
	ernative project layout and design; alternative or utility crossings, include both alternative rol			and pertinent environmental and resource issues.
				essary under lengthy unsupported spans of
22 3824	1052		e - 5	epictions of the augering method, equipment
		58-1147 BADD		e attachments. This support method is the of existing land use. This project
	ot for the installation of a new u			e capanaton of calaring land use. This project
21376 - 61		sencer advictions of	B-17	

	US Army Corps of Engineers	(USACE)
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LOCATING YOUR PROJECT							
		elp staff in locating your project topographic map, clearly showi		ation and inclu	ido on arrow indication	a tha narth d	iraction
		(es, type of road, check all that			oublic [] improved		
Name of roads at closest main		co, type of load, check all and	ւսիիվ 🖂				A Ofea
Directions from main intersecti							
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-		ry 🗌 cape cod 🛄 bi-level 🗌] collade/cap	n [_] pole ba	m () none () ourei	(describe)	
	nt property house and/or build		_				
House number Address	is visible on 🔲 house 🗌) garage 🔲 mailbox 🔲 sign	ı 🗌 other				
Street name Fire lan	e number Lot numbe)T					
How can your site be identified	if there is no visible address	?					
Provide directions to the project	t site, with distances from the	e best and nearest visible landm	ark and water	body It is	located betweee	n the Up	per and
Lower Peninsula's of N	lichigan in the Straits	s of Mackinac. Please i	refer to ti	he enclosed	1 map.		
	·						
Does project cross boundaries		lictions? (City/Township, Towns	hip/Township,	County/Coun	ly, etc.)		
6 List all other federal, intersta		porizations required for the proc	osed activity	including all a	porovals or denials re	reived	
Agency	Type approval	Identification number		_	Date approved / denied		reason for denial
USACE	Nationwide	NW03			May 27, 2003	1 11 11 11 10	reason for actual
	Permit			,	•		
7. If a permit is issued, date ac			_		mpletion date (M/D/Y		
Has any construction activity of If Yes, identify the portion(s) up			_] Yes	Were the reg	ulated activilies cond	ucted under	a MDEQ permit?
attach project specifications an					e MDEQ permit numb	er	
Are you aware of any unresolv	ed violations of environmenta	l law or litigation involving the p	roperty? 🖂 N	lo TYes (If	Yes, please explain)	···	
				• •			
8 PUBLIC NOTIFICATION (A	ttach additional sheets if nec	essarv)			·····		
Complete information for all	adjacent and impacted prope	rty owners and the lake associa			rd including the conta	ct person's r	name.
	provide the requested information	tion for the first adjacent parcel		property line.	0:64	State	Zin Codo
Property Owner's Name City of St. Ignace		•	Address North Sta	to Stroot	Cily <i>St. Ignace</i>	MI	Zip Code 49781
Edison Sault Electric C	lompany		East Porta		Sault Ste.	MI	49783
	ompuny	, 20 .		<i>ye me.</i>	Marie	///±	
Todd & Shirley Harbur	'n	4060	Leeward	Drive	Okemos	MI	48864
Neil & Jeannette Down			David Dri		Mackinaw	MI	49701
	2	747			City		
Elizabeth J. Hayes & I	Richard L. Hayes	1402	9 - 16 th C	ourt SE	Mill Creek	WA	98012
Name of Established Lake		n					
and the Contact Person's Name	and the second s						
9 APPLICANT'S CERTIFICAT		READ CAREFULLY BEF					1- A
I am applying for a permit(s) to accurate, and, to the best of my							
that there are penalties for sub							
I certify that I have the authority	to undertake the activities p	roposed in this application. By	signing this ap	plication, I ag	ree to allow represent	atives of the	MDEQ, USACE,
and/or their agents or contracto	rs to enter upon said propert						
			s by local, cou	ntv state or t	ederal adencies does	not release	me from the
issuance of a permit.	state, or federal permits and t						
	state, or federal permits and t	nat the graning of other permits e commencing the activity. I un					
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Complete these Stense in Cos	state, or federal permits and the ermit requested herein before all the items in Sections 1 the items of the text of t	e commencing the activity. I un rough 9 on pages 1 and 2 of thi	derstand that	the payment o	f the application fee d	oes not gua	rantee the
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Complete those items in Sec Please list here the applica Your permit decision will be Property Owner	state, or federal permits and the ermit requested herein before all the items in Sections 1 the tions 10 through 21 that appending tion page numbers being states and the tion page numbers being states and the the states and the states and the the states and the states and the states and the states and the states and the states and states and s	e commencing the activity. I un rough 9 on pages 1 and 2 of thi ly to your project. Submit only the submitted and a brief descript	derstand that is application, hose pages w lion of other a	the payment of here you have attachments i	f the application fee d	oes not gua	rantee the
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US Army Corps of Engineers (USACE)	Mici	ligan Department of Environme	ntal Quality (MDEQ) DEQ
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON		EAM OR A GREAT LAKE	
Check boxes A through N that may be applicable to your project and provide the			
 If your project may affect wetlands, also complete Section 12. If your project may 			
 Provide an overall site plan showing existing lakes, streams, wetlands, and other change activities and soil erosion and sedimentation control measures. Please re 			
 Some projects on the Great Lakes require an application for conveyance prior to 			
 On a Great Lake use <i>IGLD</i> 85 Surveyed Converted from observed still wa 			
Observed water elevation (ft) , date of observation (M/D/Y)			
A. PROJECTS REQUIRING FILL (See All Sample Drawings)			
To calculate volume in cubic yards (cu yd), multiply the average length in feet	(ft) times the average width (ft) times the average depth (ft) a	nd divide by 27.
· Attach both plan and cross-section views to scale showing maximum and aver			,
	••• = •	lkhead, or revelment	lge or culvert
	oatwell crib_dock	oth	
Fill dimensions (ft)	Fill volume (cu yd)	Maximum water depth	n in fill area (ft)
length width maximum depth			
			d under proposed fill?
Type of clean fill pea stone sand gravel wood chips of	· · · · · · · · · · · · · · · · · · ·	No Yes (If Ye	s, type)
Source of clean fill 🔲 on-site, If on-site, show location on site plan 🗌 comm		ttach description of location	
	eet out of the water.		
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging proje			
 To calculate volume in cubic yards (cu yd), multiply the average length in feet 			and divide by 27.
 Attach both plan and cross-section views to scale showing maximum and ave The applicant will be notified if sediment sampling will be required. 	rage dredge of excavation d	mensions.	
(Check all that apply) floodplain excavation wetland dredge		seawall, bulkhead, or revetment	·
☐ navigation ☐ boat well ☐ boat launch		other	
Dredge/excavation volume (cu yd) Dimensions (ft)	Method and equipment fo	·····	
length width depth	inomod und oquipmont to	landging	
Has proposed dredge material been tested for contaminants?	Will dredged or excavated	I spoils be placed 🗌 on-site 🗌] off-site?
No Yes (If Yes, attach testing results)		area site plan and location map	
Has this same area been previously dredged? I No I Yes (If Yes, provide	date and permit number, if a	vailable) (M/D/Y)	
If Yes, are you proposing to enlarge the previously dredged area?			
Is long-term maintenance dredging planned? No Yes (If Yes, when and	how much?)		
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 17		ply)	
	Dimensions (ft)		Volume (cu yd)
Riprap waterward of the Shoreline OR drainary high water mark		idth depth	
	Dimensions (ft)		Volume (cu yd)
Riprap landward of the shoreline OR ordinary high water mark	length w	idth depth	
Type of riprep i field stone angular rock other		·	
Will filter fabric be used under proposed riprap? No Yes (If Yes, type)			
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17)		······	
(check all that apply)	— n	Distances of proje	ect
iprap – length ft. seawall/bulkhead – length ft.	revetment - length	ft. from both property	/ lines (it)
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)			
Type open pile filled crib	Seasonal structure?		
Proposed structure dimensions (ft) length width	Dimensions of nearest adja	acent structures (ft) length	width
F. BOAT WELL (No Sample Drawing available)			
Type of bank stabilization wood steel concrete vinyl rip	·		APR 1 9 2005
Boat well dimensions (ft)	Number of boats		
length width depth		<u>`</u> `	APR 1 9 2005
Volume of backfill behind	Distances of boat well		
sidewall stabilization (cu yd)	from adjacent property line	S (II)	MDEQ/LWMD
G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) r Proposed overall boat launch dimensions (ft)		private commercial ref	REACTING NSOLIDATION UNIT
length width depth	Type of material	oncrete 🗌 wood 🔲 stone 🗌	other
Existing overall boat launch dimensions (ft)	Boat launch dimension	s (ft) below ordinary high water i	nark
length width depth	length	width depth	
Distances of launch	Number of skid piers	Skid pier dimensions (ft)	
from both property lines (ft)	number of olig piolo	width length	
H. BOAT HOIST (No Sample Drawing available)			
	Other		dook Thetherianda
(Check all that apply) seasonal permanent cradle side lifter		located on seawall	dock bottomlands
			•
(Check all that apply) boardwalk deck Boardwalk or deck is on		Dimensions (ft) length	width
Joint Permit Application (Word fill-in) Pr	age 3 of 7	EQP 2731 Rev	ised September 2002 twm

US Army C	orps of Engineers (USACE)			Michigan Department	of Environme	ental Quality (MDEQ) DEQ
10 Continued - P	ROJECTS IMPACTING WI	ETLANDS OR FLOODP	LAINS OR LOC	ATED ON AN INLA	ND LAKE OR STREAM	OR A GREA	AT LAKE
	PES (See Sample Drawing						
				If outlet pipe, disch	arge is to 🗌 wetland	🗌 inlan	d lake
Type 🗌 hea	adwall 🔲 end section 🗌] pipe 🔲 other		🗌 🔲 stream, drain, 🕯	or river 🛛 🗌 Great La	ake 🔲 other	r l
Dimensions o	f headwall OR end section ((ft)		Number of pipes	Pipe diameters and in	nvert elevation	ns
length	width dep	oth					
🗌 K. MOORING	AND NAVIGATION BUOY	S (No Sample Drawing a	available)		· · · · · · · · · · · · · · · · · · ·		
	overall site plan showing th			ces from the shore to	each buoy, and depth of	of water at eac	ch buoy in feet.
 Provide cro 	oss-section drawing(s) show	ving anchoring system(s) and dimension	S			
Number of bu	oys Type of anchor syst	em		Purpose of buoy			
				mooring n	avigation		
Dimensions of	f buoys (ft)			Do you own the pre	operty along the shoreli	ne? 🗌 No [Yes
width	height			(If No, you must pr	ovide an authorization	etter from the	property owner(s))
	lo Sample Drawing availabl						
					s, distances between g	roins, length a	and width of each <i>groin</i> , and
	e from the existing toe of th						
	groins are located on adjace						
	oss-section views showing t the height of each section a			ne neight of <i>groin</i> end	is above the observed v	water level (da	ate and time). It step down
Number of gro		above the observed wat	er ievei.	Will amin be place	d on a foundation? 🔲 i		Vac dimensions of
Runnos or gro		☐ othor			ength widt		height
	WETLANDS, STREAMS,		o Sompio Droui	· · · · · · · · · · · · · · · · · · ·	ciigui wioi	<u></u>	
	overall site plan showing th				,		
	awing of fence profile showi					hottom of for	ce (if in a floodalain)
(check all that		Total length (ft) of		board spacing, and c	Fence height (Fence type and material
	streams [] floodplain		_	loodplains	1 choo hoight	19	r choc type and material
	g., structure removal, marin				lations in wetlands or fi	oodolaine	I
	ee Section 4 for a c	• •				Joupianis	
			• •	•••	•		
	OF AN EXISTING OR CON			ND (See Sample Dra	wings 4 and 15)	A*.	
	ibes your proposed waterbo	• •		f ta 🗂		4 . 4 4.	
	stormwater retention	basin sto	rmwater detenti	on basin 🔲 recr	eation waster	vater basin	other
Water source for	· .						
groundwater		Inland Lake or Stream				e	other
Location of the la		floodplain	wetland			·	··
	e construction of a dam, dik		e, or spillway?	NO Yes (If Ye	s, complete Section 17)	
	AT MAY IMPACT WETLA				7 044 0405		
	on the MDEQ's Wetland A					01)	
(check an unat ap	pply) [] fill (Section 10A)	dredge or exc			walk or deck (Section 1	or)	
	fences (Section 10 I wetland delineation been				ng surface water		·
	federal method was used, s			es (in res, piease	Applicant purcha		bor 1 1980
······	d MDEQ easement on the p					<u>,,</u>	
	inducted a wetland assessr						
	and impacts, proposed use		orts to avoid/mir	imize impacts. Desc	ribe the welland alterna	tives and pro-	vide the type and amount
of miligation prop	osed if more than 1/3 acre is	s to be impacted.		•			
	mechanized land clearing p	roposed? 🗌 No 🔲 Ye	ès 👘	Has any of the pro	posed grading or mecha	anized land clo	earing been completed?
	ow locations on site plan)			No 🗌 Yes (II	Yes, please label and	show location	s on site plan)
	vetland dredge and wetland						
	on a site plan drawn to scale				etland dredge and/or fill	area. (See S	Sample Drawings 8 & 9)
	Section 10A for fill and Sect						
	ial will be disposed of on sit						
Wetland dredge	maximum length (ft)	maximum width (ft)	dredge a		average depth (ft) dred	ge volume(cu yd)
dimensions				s 🔄 sq ft	~		
Wetland fill	maximum length (ft)	maximum width (ft)	fill area		average depth (ft)) till vo	olume(cu yd)
dimensions				sq ft		~e	
Total wetland dree	+			Total wetland dred	ge volume (cu yd)		RECEIVED
🗌 acres 🗌 sq f					·		
Total wetland fill a				Total wetland fill vo	Nume (cu yd)		APR 1 9 2005
🗌 acres 🗌 sq f							1
The proposed pro	ject will be serviced by 🔲	public sewer		m, has application b		If Yes, has	permit been issued?
	system (If septic system, system on plans)	snow existing and	County Health B-2		mit? 🗌 No 🔲 Yes		permit been issued? Yes (MY ESPANDATION UNIT
			D-2				



Support Notice of Completion 07 22 05



Natural Resources Engineering Company69 North 28th Street - Suite 27Superior, Wisconsin 54880Telephone (715) 395-5680Fax [715]

Fax [715] 395-5681

July 22, 2005

Mr. John Arevalo Michigan Department of Environmental Quality Gaylord District 2100 West M-32 Gaylord, MI 49735 Received

GAYLORD FIELD OFFICE

JUL 2 6 2005

RE: MDEQ Permit Number 05-24-0013-P

Dear Mr. Arevalo:

This letter serves as a Notice of Completion for Enbridge Pipelines (Lakehead) LLC project involving the installation of support structures on our crude oil transmission pipeline in Lake Huron at St. Ignace, Michigan. The project was completed on July 1, 2005. We will notify the MDEQ prior to initiating our 2006 project.

In the event you have questions or comments, please feel free to give me a call. I can be reached at (715) 395-5680 Ext. 120.

Sincerely,

John J. Korienek, P.E. Environmental Engineer

cc: Adam Erickson – Enbridge: Superior Region

Supports 05 03 06 👘

Enbridge Pipelines (Lakehead) L.L.C. 119 N. 25th Street East Superior, WI 54880 Tel 715 394 1400 Fax 715 394 1570 www.enbridgepartners.com Scott W. Lounsbury Supervisor, Environment Kris H. Benson Environmental Analyst II Paul R. Meneghini Sr. Environmental Analyst Rachael A. Shetka Environmental Analyst David M. Hoffman Sr. Environmental Analyst Joseph P. Peterson Environmental Analyst II



May 3, 2006

Ms. Wendy Fitzner Michigan Department of Environmental Quality WMD - PCU P.O. Box 30204 Lansing, MI 48909-7704

RE: Joint Permit Application for Pipeline Inspection and Repair Activities to be Conducted Along Pipeline Crossing at the Straits of Mackinac

Dear Ms. Fitzner:

Please see attached Joint Application for coverage of proposed pipeline maintenance activities. Currently Enbridge has coverage for similar maintenance work under permit #05-24-0013, however, because the current permit expires prior to the planned execution of the proposed activities and because the number of additional locations identified for repair is deemed significant by the Agency, Enbridge has been requested to resubmit a Joint Permit Application to cover the additional repairs.

As I discussed with the Agency contact (John Arevalo) earlier this week, the proposed project is similar in terms of method to that previously covered under the existing permit. As shown on the attached figures, the proposed work involves conducting underwater inspections along the pipeline and installing a brace over the pipe, secured by anchors augured into the lake bed at twenty locations (refer to Project Location Map). The work will be conducted using a barge platform to lower the weights which will be installed by a certified diver. The proposed project execution date is scheduled for June 1st with an anticipated completion date of June 15th, contingent on maritime conditions.

I appreciate your assistance with this request. Please feel free to contact me if you have any questions or require further information at (715) 394-1572 or by email at *Kris.Benson@Enbridge.com*.

Sincerely,

Bergar 1.

Kris Benson Environmental Analyst II, CHMM

Enclosures: Proposed Project Locations Site map Project Schematics (3)

c: Dan Klarner - Enbridge Regional Engineer

Land & Water Mgt. Div. MAY 1 1 2006 Permit Consolidation Unit

Permit for Add. Supports 03 21 05

US Army Corps of Engineers (USACE)				Michigan Depa	artment of Environm	ental Quality (I	MDEQ)
Previous USACE Permit or File Number			elved		r Management Division,		
W	R		AD/DEQ	05.	-74-001	31	
USACE File Number	ě.			Marina Operation	ig Permit Number	<u> </u>	
. 5	a K	MAR	2 1 2005		•		
- AGENCY	Date Received			Fee received \$! !
AG		מטרוויי	FIELD OFFICE		# 00.00	203E	~ i
		JAILUKU	FIELD VITIOL		0.00	002	
Complete all items in Sections 1 through 9	and those items	in Sections 1	0 through 21 that apply	to your propos	ied project.		
PROJECT LOCATION INFORMATION						1. 00 0 11	
Refer to your property's legal description for the second se	ne Township, Rang	ge, and Section	Township Name(s)	openy tax bill to	Township(s)		umber(s). Section(s)
Address Lake Michigan between Upper and L	Awar Panninsi	ila	N/A		39N	Range(s) 3W	N/A
City/Village County	dies)	<u></u>	Property Tax Identificat	ion Number(s)	10314		14/1
N/A N/A	(100)		r soperty revisionalous		N/A		
	t Name or Job Nun	nber	Subdivision/Plat		Lot Number	Private	Claim
	rwater Inspec		N/A		N/A	N/A	
Project types private	Dublic/governm	ient	M Industrial		C commercial	the second se	ulti-family
	🗌 new building or		Duilding renovation	or restoration	river restoration		ngle-family
Other (explain)							
The proposed project is on, within, or involves (cl			legally established Cour	•		_	
a stream a pond (less that		-	Great Lake or Section 1	-		a new marin	
a river a channel/canal			designated high risk ero	-		🗋 a structure r	
a ditch or drain an Inland lake (5			designated critical dune] a utility cros	-
a floodway area a 100-year flood			designated environment		500 feet of an exis	ling waterbody	l
2 DESCRIBE PROPOSED PROJECT AND ASS				QUENCE AND	METHODS		
 Attach separate sheets, as needed, including n 							
The purpose of this project is to pr	• •		· ·			••	
over too great a distance. Support:					e pipeline and w	ill then be	augered
into the sediment. A certified dive	r will be deplo	oyed to ove	rsee the installation	on.			
3 APPLICANT, AGENT/CONTRACTOR, AND P	ROPERTY OWNE	R INFORMAT	ION				·
The applicant can be either the property owner				activity.			
 If the applicant is a corporation, both the corpor- 					ht/contractor to act or	Nheir behalf.	
Applicant (individual or corporate name)			AgenVContractor (firm na				
Enbridge Energy, Limited Partnership	7		-		_		
Mailing Address			Address				
119 North 25th Street East							
City State	Zip Co		City		State	Zip Code	
Superior WI	5488			·			
Daytime Telephone Number with Area Code		<u> </u>	Daytime Telephone Num	ber with Area C	ode		
(715) 394-1400							
Fax E-mail	A A A A		ax	E-mail			
(715) 394-1405 Adam.Erickson							
Is the applicant the sole owner of all property on wh							
(If No, provide a letter signed by the property owned				all or a copy of e	easements or right-of	-ways. It multi	ple
owners, please attach all property owners' names, Property Owner's Name (If different from applicant)			e numbers.) failing Address				
croperty owners a traine fit unstatit northalphicanty	i	ļ	acaulty Addiess				
Daylime Telephone Number with Area Code			lly		State	Zip Code	
entitud Telebrinia Hillingi Millinia Onie			my .		01018	5000 His	
PROPOSED PROJECT PURPOSE, INTENDED	USE AND ALTER	RNATIVES	NSIDEDED IAHach add	itional choole #	locetean/		
 The purpose must include any new development 				100101 2110612 11	novosadiyj		
 Include a description of alternatives considered to 				th as, but not lim	nited to, alternative o	aslauction ter	haologies
 Include a description of alternatives considered a alternative project layout and design; alternative la 							
· For utility crossings, include both alternative route						· - ,	
In order to maintain pipeline integrity				sary under l	lengthy unsuppo	rted spans	of
			· · ·	•		•	
pipeline. Indications of the span locat	tions are show	in in the ei	<mark>iclosed map</mark> . Depi	ictions of th	e augering meti	hod, equiph	nent
utilized as well as the structure of the	e supports the	emselves ar	e located in the a	ttachments	This support	method is	the
	- •				••		
most environmentally friendly method o	of which we ai	re aware.	There will be no e	expansion of	^e existing land u	ise. This p	project
is not for the installation of a new util	lity crossing						
	ing crossing,						
Joint Permit Application (Word fill-in)		Pag	etot7		EQP 2731 Revise	d September 20	02 Iwm

<u>່ມ</u> ບວກແຫຼບທຸລະຫະດຽຫອ	ara (novor)						
LOCATING YOUR PROJECT							
 Provide the requested informa Attach a copy of a map, such 				ocation and inc	ludo on orrow indicalir	a the north c	lizaction
Is there an access road to the pr							
		rea, type or load, check i	an ulat appiy)			r Claumi	proveo
Name of roads at closest main in							
Directions from main intersection			_				
Style of house or other building o	xn site 🗌 ranch 🗌 2-stor	ry 🗌 cape cod 🔲 bi-le	vel 🗌 cottage/ca	ibin 🔲 pole b	am 🗌 none 🗌 othe	r (describe)	
Color Color of adjacent	property house and/or build	fings					
House number Address is	s visible on 🗌 house 🔲] garage 🔲 mailbox []sign []other				
Street name Fire lane r	number Lot numbe	er					
How can your site be identified if	there is no visible address?	?					
Provide directions to the project s	site, with distances from the	best and nearest visible	landmark and wat	erbody <i>It is</i>	located between	en the Un	ner and
Lower Peninsula's of Mic				-			
Does project cross boundaries of		ctions? (City/Township, 1	ownship/Townshi	p, County/Cour	nty, etc.)	<u></u>	
List all other federal, interstate,		orizations required for the	e proposed activity	, including all a	approvals or denials re	ceived.	
Agency	Type approval	Identification number		te applied	Date approved / denie		, reason for denia
SACE	Nationwide	NW03	May	20, 2003	May 27, 2003		
	Permit						
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Man and Man to an and shake a shake		NI INI INNNE		Deserved			
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as any construction activity comm Yes, identify the portion(s) under tach project specifications and g re you aware of any unresolved w PUBLIC NOTIFICATION (Attac Complete information for all adju If you own the adjacent lot, prov operty Owner's Name Way of St. Ignace dison Sault Electric Comm Fodd & Shirley Harburn feil & Jeannette Downing Vizabeth J. Hayes & Rich ame of Established Lake Board of the Contact Person's Name, te APPLICANT'S CERTIFICATION m applying for a permit(s) to auth curate, and, to the best of my kno at there are penalties for submittin ertify that I have the authority to to d/or their agents or contractors to the necessary local, county, state purements of obtaining the permit uance of a permit. All applicants must complete all to Complete those Items In Sections Please list here the application your permit decision will be delay	menced or been completed away or completed on drawi live completion date(s) (M/D violations of environmental I ch additional sheets if neces acent and impacted property ride the requested informatik apany hard L. Hayes rd] or Lake Association stephone number, and mailin horize the activities describe owledge, is in compliance w ng false information and that undertake the activities prop o enter upon said property in e, or federal permits and that it requested herein before co the items in Sections 1 throus s 10 through 21 that apply to page numbers being sub	In a regulated area? ⊠ ings or DY) law or litigation involving ssary) y owners and the lake as on for the first adjacent pr M. 3. 7. 44 64 64 64 64 64 64 64 64 64	the property? sociation or estab arcel beyond your ailing Address 96 North Sta 25 East Porto 060 Leeward 819 David Dru 47 4029 - 16 th C BEFORE SIGNING am familiar with th the Management P uant to this applica By signing this ap posed activity site mits by local, cou 1 understand that of this application. hly those pages w cription of other a are not submitted	Were the re No Were the re No HYes, list th No Yes (If ished lake boa property line. It Street age Ave. Drive ive Box Court SE G e information of trogram and the ation may be re oplication, t age and the comp inty, state, or fe the payment of here you have attachments in	gulated activities cond Yes he MDEQ permit numb Yes, please explain} and including the conta City St. Ignace Sault Ste. Marie Okemos Mackinaw City Mill Creek	er ct person's m State MI MI MI MI W/A eation, that it ance Program on this applic atives of the stand that I m not release more person's more atives of the stand that I m not release more person's more APF	a MDEQ permit name. Zip Code 49781 49783 48864 49701 98012 is true and m. 1 understand ation is untrue. MDEQ, USACE nust obtain all me from the antee the

John Gustafson - Fwd: Re: Request for Permit Extension (#05-24-0013)

From:	Wendy Fitzner
То:	John Gustafson
Date:	5/9/06 11:42AM
Subject:	Fwd: Re: Request for Permit Extension (#05-24-0013)

John, this just came in as 06-24-0016. Can you process it within the next couple of days? Thanks.

Page 1

>>> John Arevalo 05/02/06 2:47 PM >>>

Dear Ms. Benson: We have discussed this matter internally. The work which you are requesting will require a new permit application, site plans, \$500 fee and public noticing. This is consistent with what we are doing statewide, and the new work exceeds (by two times) the work permitted under 05-24-0013-P. Note that this email was cc.'d to Wendy Fitzner, LWMD, Permit Consolidation Unit Chief. It should be a simple matter for you to submit a new application by updating/revising your '05 app. You already have the site plans in your PDF file. Wendy advised that if you submit a completed app. + fee, she anticipates being able to prepare the public notice within a few days after that. The public notice period comment period lasts 20 days. If Wendy assigns the file to me, I should be able to issue a permit for Enbridge in time for them to begin work by 6/1/06. Applications can also be submitted on-line. Feel free to contact Wendy for assistance w/that process. If you do not have a copy of your '05 application form and materials, let me know, and I will fax them to you. Wendy's tx number is 517-373-8798.

>>> <Kristen.Benson@enbridge.com> 05/02/06 1:21 PM >>> Mr. Arevalo,

As we discussed this morning, please see attached letter requesting an extension of Permit #05-24-0013. As noted in the letter, the proposed project involves work identical to that already covered in the permit, although at an additional 20 locations. Should you have any questions or need additional clarification, please do not hesitate to contact me at the number listed below.

Kris H. Benson Environmental Analyst II, CHMM Enbridge Energy, Superior Office Phone: 715-394-1572 Fax: 715-394-1570

Unless otherwise indicated or obvious from the nature of the transmittal, the information contained in this email message is CONFIDENTIAL information intended for the use of the individual or entity named herein. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify the sender using the above contact information or by return email and delete this message and any copies from your computer system. Thank you.

John Arevalo Cadillac District Supervisor Land and Water Management Division Gaylord Phone: 989-705-3450

Support Permit 05 11 06 orginal of fax copy roid 3-4-06

US Army Corps of Engineers (USACE)

Michigan Department of Environmental Quality (MDEQ)

Previous USACE Permit or File Number USACE FILE FILE FILE FILE FILE FILE FILE FIL	r Mgt. Div. 1 2006 solidation Unit	Land and Water Management Division, MDEQ File Number 06 - 24 - 16 - P Marina Operating Permit Number Fee received \$ 500 -
 Complete all items in Sections 1 through 9 and those items in Sections 10 the 	rough 21 that apply to the pr	oject. Clear drawings and cross sections must be provided.
1 PROJECT LOCATION INFORMATION		
Refer to your property's legal description for the Township, Range, and Section Address Lake Michigan (all in-water work) between Upper and Lower Peninsula	Township Name(s)	Township(s) Range(s) Section(s) 39N 3W N/A
City/Village County(ies) N/A Mackinaw and Emmet (in Straits)	Property Tax Identification	Number(s)
Name of Waterbody Lake Michigan Project Name or Job Number Pipeline Inspection		Lot Number Private N/A Claim N/A
Project types private public/government (check all that apply) building addition other (explain)	industrial building renovation of	restoration river restoration single-family
a stream a pond (less than 5 acres) Image: Constraint of the stream		Waters a natural river a new marina sion area a dam a structure removal area a wetland a utility crossing al area 500 feet of an existing waterbody EQUENCE AND METHODS
The purpose of this project is to enhance support beneath the pipe (work will involve the installation of a brace and anchoring system (augured directly into the lake bed.) A certified diving contractor v APPLICANT, AGENT/CONTRACTOR, AND PROPERTY OWNER INFOR	n over each proposed lo will be employed to over	ocation to increase support; the anchors will be
 The applicant can be either the property owner or the person or company tha If the applicant is a corporation, both the corporation and its owner must provide Applicant (individual or corporate name) 	t proposes to undertake the	prizing the agent/contractor to act on their behalf.
Mailing Address 119 N. 25th St. E.	Address	
City Superior, State WI Zip Code 54880	City	State Zip Code
Daytime Phone Number with Area Code (Cell Phone Number (715) 394-1414	Daytime Phone Number w	
Fax (715) 394-1405 E-mail Dan.Klamer@Enbridge.com	Fax	E-mail
Is the applicant the sole owner of all property on which this project is to be const If No, provide a letter signed by the property owner authorizing the agent/contract attach all property owners' names, mailing addresses, and telephone numbers. or any other encumbrance upon the property in the project area. A copy of the l	ctor to act on his or her beha Disclose any DEQ conserva	If or a copy of easements or right-of-ways. If multiple owners, ation easements or other easements, deed restrictions, leases,
Property Owner's Name	Mailing Address	
(If different from applicant) Daytime Phone Number with Area Code Cell Phone Number	City	State Zip Code
 PROPOSED PROJECT PURPOSE, INTENDED USE, AND ALTERNATIVE The purpose must include any new development or expansion of an existing I Include a description of alternatives considered to avoid or minimize resource alternative project layout and design; alternative locations; local land use regule For utility crossings, include both alternative routes and alternative construction 	land use. a impacts. Include factors su ulations and infrastructure; a on methods.	ch as, but not limited to, alternative construction technologies; nd pertinent environmental and resource issues.
In order to maintain pipeline integrity, installation of additional supports proposed locations for installation of the anchoring structures are provide as well as equipment utilized for installation are included with the attach impact. Note: This project is considered pipeline maintenance and is no	ed on the attached map. S ments. The support meth	Shematics showing the auagurung apparatus and method od is anticipated to incur minimal or no environmental

US Army Corp	os of Engineers (USACE)	Mich	igan Departn	nent of Environ	mental Quality	(MDEQ) DEC
5 LOCATING YOUR PRO	JECT SITE						
	rmation listed below to help stal						
	ich as a plat, county, or USGS t ad at the time of application sub		rly showing	he site location a	and include an arrow	v indicating the nor	h direction.
	e project? 🗹 No 🔲 Yes (If Ye		all that ann	v) 🗆 private	D public	improved	unimproved
	in intersection N/A - work en						
Directions from main intersec							
Style of house or other building	ng on site 🔲 ranch 🔲 2-story	y 🗌 cape cod 🔲 bi	i-level 🗌 c	ottage/cabin 🗌	pole barn 🔲 none	e 🔲 other (describ	e)
	Color of adjacent property hous						
	Iress is visible on 🗌 house		1 mm	-			
			number	Lot num	ber		
	ed if there is no visible address?						
	ect site, with distances from the located within the Straits of					undarmatar ninali	na orossino
	es of two or more political jurisdi					underwater pipen	ne crossing
🗌 No 🗋 Yes (If Yes, list ju	risdiction names.) Unknown						
	rstate, state, or local agency au	attact to a state		at the second			
Agency		tification number	Date app		oved / denied	lf denied, reason f	or denial
USACE	Nationwide Permit	NW03	3/14/200	4/13/	2005		
	activity will commence (M/D/Y)		— ——			tion date (M/D/Y)	
	commenced or been completed underway or completed on draw		V No	Yes	permit? No	d activities conduct	ed under a MDEQ
attach project specifications a	and give completion date(s) (M/	D/Y)			If Yes, list the MD	EQ permit number	
Are you aware of any unresol	lved violations of environmental	l law or litigation involv	ing the prop	erty? 🚺 No 🗌] Yes (If Yes, expla	in)	
	(Alleste different etc.) - Kerne						
 PUBLIC NOTIFICATION Complete information for a 	I (Attach additional sheets if ne II adjacent and impacted proper	cessary) rtv owners and the lak	e associatio	n or established	lake board, includin	a the contact perso	n's name
	, provide the requested informal					g uio contact porce	
Property Owner's Name		Mailing Add	dress		City		State Zip Code
See attached word docume	ent for landowner information	n					
Name of Established Lake	e Board 🔲 or Lake Associatior	n					
	ne, phone number, and mailing						
9 APPLICANT'S CERTIFIC	CATION	READ CAREFUL	LY BEFOR	E SIGNING			
I am applying for a permit(s) t	to authorize the activities descri						
	my knowledge, is in compliance Ibmitting false information and t						
I certify that I have the author	ity to undertake the activities pr	roposed in this applica	ition. By sig	ning this applicat	ion, I agree to allow	representatives of	the MDEQ, USACE,
	tors to enter upon said property						
	, state, or federal permits and the permit requested herein before						
issuance of a permit.					,		,
	te all of the items in Sections 1						
	ections 10 through 21 that apply processed if the application for			pages where yo	ou nave provideo ini	ormation.	
	ge numbers being submitted ar			hments included	with your application	on.	
	14" or 11" by 17" size drawing			uires one set of o	rawings on 8.5" x 1	1" paper, with all no	otations
	ies may be submitted in addition m the owner must be included i						
Property Owner				12.	1 a all	1910 - 1000 -	1-7-01
Agentroontractor		Dan Klarner		anij	wee	erne	5-3-06
Corporation - Title	Printed Name		18	ignature		, mi	Date
					10 11/2	ter Mgt. DN	
					Land & Wa		
			B-28			1 1 2006	
Joint Permit Application	PDF Fill-in	Page 2 of 7	2 20		MAY	EQP 273	31 Revised 12/2005

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Consolidation Unit

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY PERMIT

Enbridge Energy 119 North 25th Street East Superior, WI 54880	Permit No. 06-24-0016-P Issued June 8, 2006 Extended Revised
•	Expires June 8, 2007 and Environmental Protection Act 451, PA 1994, as
amended and specifically:	
Part 301 Inland Lakes and Streams	🗍 Part 315 Dam Safety
🛛 Part 325 Great Lakes Submerged Lands	Part 323 Shorelands Protection and Management
🗌 Part 303 Wetland Protection	Part 353 Sand Dune Protection and Management
🗌 Part 31 Floodplain/Water Resources Protectio	n
Permission is hereby granted, based on permitte	e assurance of adherence to State requirements and permit

conditions to:

Auger 20 five by five foot support structures into the lakebed in the Straits of Mackinaw to hold two existing 20 inch pipelines in place, in accordance with attached plans and following conditions.

Water Course Affected: Lake Michigan

Property Location: Emmet County, Wawatam Township, Section 10 11 Town/Range 39N, 4W

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee in exercising the authority granted by this permit shall not cause unlawful pollution as defined by Part 31, Floodplain/Water Resources Protection of the Natural Resources and Environmental Protection Act 451, PA 1994, as amended.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the plans and the specifications submitted with the application and/or plans and specifications attached hereto.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved herein.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that act.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- 1. Permittee shall notify the Department of Environmental Quality within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached, preaddressed post card to the office addressed thereon.
- . This permit shall not be assigned or transferred without the written approval of the Department of Environmental Quality.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific State Act, Federal Act and/or Rule under which this permit is granted.
- L. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

DEPARTMENT OF THE ARMY

DETROIT DISTRICT, CORPS OF ENGINEERS BOX 1027 DETROIT, MICHIGAN 48231-1027

July 19, 2006

IN REPLY REFER TO

Received LWMD/DEQ

JUL 2 7 2006

GAYLORD FIELD OFFICE

Engineering & Technical Services Regulatory Office File No. 88-016-121-4

REC	EIVED
JUL	2 4 2006
DE	EQ-LWMD

Dan Klamer Enbridge Energy Limited Partnership 119 North 25th Street East Superior, Wisconsin 54880

Dear Mr. Klamer:

Reference your application for a Department of the Army permit to repair a pipeline in Lake Michigan at Straits of Mackinac, St. Ignace, Michigan (Section 10, 11, 23-26, Township 39N, 40N, Range 4W).

We have verified that the project is authorized by nationwide permit as published in the Federal Register. As indicated on the enclosed plans prepared May 3, 2006, the following work is authorized under NW03:

Install support harnesses with anchors at 20 locations along a submerged oil pipeline. The support structures will be installed using hydraulically driven auger heads supported by a barge mounted power supply.

This authorization is contingent upon compliance with the following terms and conditions:

a. The enclosed nationwide permit(s) and the general conditions.

b. The following special conditions:

1. The permittee shall contact the U.S. Coast Guard so that a notice to mariners can be circulated prior to commencement of the work.

2. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

We also direct your attention to Paragraph D.2 under Further Information, which states, "NWPs do not obviate the need to obtain other Federal, state, or local permits, approvals, or authorizations required by law." We suggest that you contact the Michigan Department of Environmental Quality, Lansing, Michigan, telephone 517-373-9244, to determine if state approval is required. Work should not commence until State approval is obtained.

Any construction activity other than that shown on the plans may not qualify for the authorization. If you contemplate any changes or additional activities from those depicted on the plans, please submit them to this office for authorization review prior to any construction. Upon completion of the work, fill in and return the enclosed COMPLETION REPORT.

This verification is valid until the NWP is modified, reissued, or revoked. All existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2007. It is incumbent on you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. If you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP. If you have any questions on this matter, contact me at (313) 226-3396 and refer to File Number: 88-016-121-4.

Sincerely,

ORIGINAL SIGNED BY

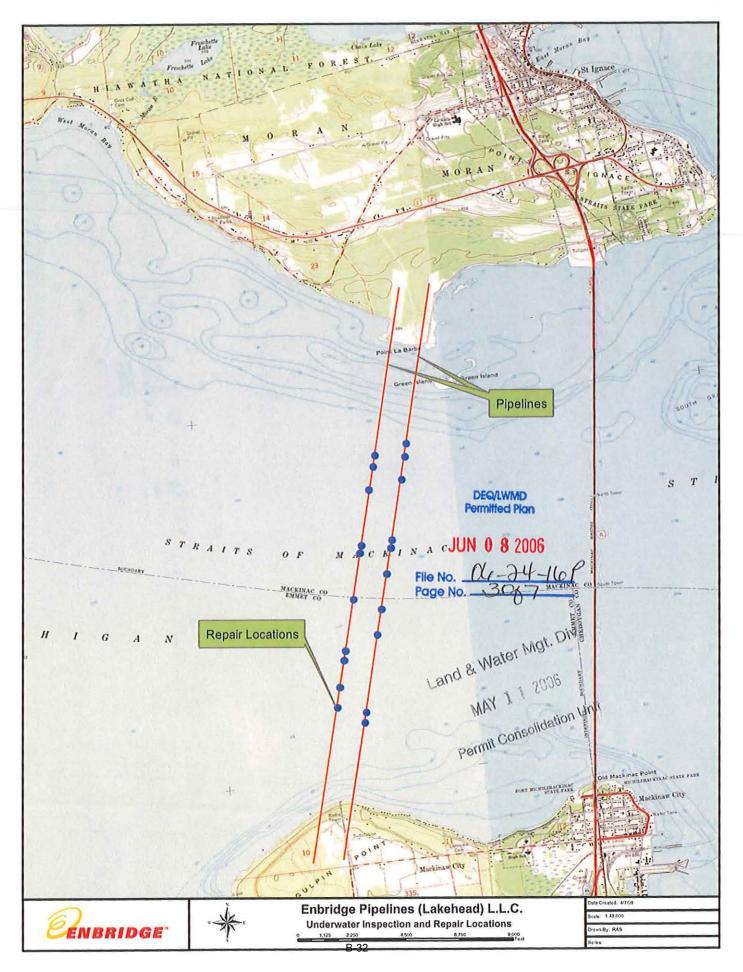
James D. Luke Project Manager Permit Evaluation Branch A

Enclosures

Copy Furnished

MDEQ, Upper Peninsula District Office (06-24-16), w/encl. Sault Ste. Marie Field Office, w/encl. NOAA, w/print

Supports 06 08 06



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Department of Environmental Quality Land and Water Management Division

PROJECT REVIEW REPORT

		Incone		File # $\underline{06} - 24$ -	<u>16-P</u>	
Name of reviewer:	Arevalo		Date o	File # $C_6 - 24$ -		
GENERAL INFORM	ATION:					
1. Name of applicant:	Entridge 2	Meron				
2. Name of property ow	ner:	g}				
3. Waterbody type: (check all that apply)	WetlandFloodplain	□ Warm water str □ Cold water stre			stream)	
4. Jurisdictional determine				<u> </u>		
a. Is the wetland con			□ Yes □ 1	40		
 b. Approximate size c. Is the project with 		acres opulation > 100,000?		ło	{	
				□ Part 31 □ Sec. 404 □		
6. Is the application dra	wing complete and a	accurate? Dryes	No If no, why?			
FIELD REVIEW (for	Part 303):				J	
7. Total wetland acreage	e owned by property	owner =	acres			
8. Total wetland acreage	e to be impacted by p	proposed activity =	acres			
Dominant plants	Indicator status	Other plants	Indicator status	Soils (description)	Depth	
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		\sim				
		\sim				
			\			
	,					
DESCRIBE HYDROLOGIC INDICATORS:						
·						
		<u> </u>	<u> </u>			
GENERAL FIELD NO	DTES/COMMENT	S: (Attach other page(s	s) for additional note	s/comments)		
All earlier	files 01-24-	46-P, 02-24-4	+P, 05-24-13-	P. for similar reviews.	This	
hold the ensi	the proplania	to the las	kebed. Tim &	hunland America In	annun	
P.O. Box 2220 1	in effice review was simply for addition sites where the applicant needs to hold the existing sipelines on to the lakebed. Tim Grunland, America Transmission P.O. Box 2220, Kingsford, MI 49802, tx #-906-396-1566, asked to fe cc: d					

Ripelinias nearby

FILE REVIEW:

9 a. Is there reasonable potential for impacts to state or federally listed threatened or endangered species?	Yes No
b. If yes, has the MDNR and/or US FWS reviewed and signed off on potential impacts?	□ Yes □ No
10. Would the project adversely affect fish and wildlife?	I Yes I No
11. Would the project adversely affect recreation and aesthetics?	Yes No
12. Would the project adversely affect navigation?	Yes I No
13. Would the project adversely affect historic or archeological sites?	Yes No
14. Would the project comply with state Water Quality Standards?	Yes I No
15. Would the project comply with the Michigan Natural Rivers Act? w/A	□ Yes □ No
16. Would the project comply with NREPA, Part 323 (Shorelands Protection and Management)?	⊡ Yes □ No .
17. Would the project comply with the Michigan Coastal Zone Management Program?	Yes I No
18. If the project is proposed under Part 301 or 325: a. Would the project adversely affect riparian rights?	TYes No
b. Would the project adversely affect the public trust?	TYes No
c. Would the project adversely affect other criteria listed in Section 30106 or 32515 as appropriate?	Yes No
d. Would the project involve work on state-owned bottomlands of the Great Lakes?	Yes No
e If yes, would a conveyance be required? X Place, Stand of the Solo	TYes INO
e If yes, would a conveyance be required? * likely of taried when projections installed f. Would the project be consistent with similar structures or other permitted projects in the area?	Yes 🗆 No
19. If the project is proposed under Part 303:	<u>la an de Cangon in ac e</u> ntret i <u>s</u> 'nd
a. Would the activity be in the public interest?	Yes No
b. Is a permit necessary to realize the benefits derived from the activity?	Yes No
c. Would adverse secondary or cumulative effects occur due to the probable impacts of the proposed project in addition to the existing and anticipated activities in the watershed?	□ Yes □ No
d. Is the activity otherwise lawful?	□ Yes □ No
e. Has the applicant shown that an unacceptable disruption to the aquatic resources would not result?	□ Yes □ No
f. Has the applicant shown that the proposed activity is wetland dependent,	
OR Has the applicant shown that no feasible and prudent alternatives exist?	🗆 Yes 🗆 No
20. If the project is proposed as a Minor Project (Part 301 or 325) or General Permit (Part 303):	
a. Is the activity listed by the Department as a category for a minor project or under a general permit?	🛛 Yes 🗆 No
b. Would the activity have only minimal adverse environmental effects when performed separately?	🛛 Yes 🗖 No
c. Would the activity have only minimal adverse environmental effects cumulatively?	🛛 Yes 🗆 No
d. If proposed under a GP, would the activity comply with Part 303 review criteria in #20 a-f?	🔲 Yes 🗖 No
EXPLANATION OF FINDINGS AND RECOMMENDATION: (Attach other page(s) for additional expla	nation)
EXPLANATION OF FINDINGS AND RECOMMENDATION: (Attach other page(s) for additional expla minimal environmental impact. Aane activities author previously.	injed
previously.	
	-
Recommendation: I Issue Deny Modify Date of review completion:	,[8 06

ENBRIDGE ENERGY PARTNERS 1100 LOUISIANA, SUITE 3300 HOUSTON, TEXAS 77002 713-650-8900

INVOICE NUMBER 02-MAY-2006	INVOICE DATE 02-MAY-06	DESCRIPTION MDEQ PERMIT	DISCOUNT 0.00	NET AMOUNT 500.00
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ENBRIDGE ENERGY PARTNERS 1100 LOUISIANA, SUITE 3300 HOUSTON, TEXAS 77002 713-650-8900

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(HECK MUHBER 1111103425 CHECK DATE 03-MAY-06

AMOUNT OF CHECK ********500.00

TO THE ORDER OF MICHIGAN DEPT OF ENVIRONMENTAL QUALITY CASHIERS OFFICE PO BOX 30657 LANSING, MI 48909-8157

CHECK NUMBER

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Rasmusson, Scott (DNRE)

From: Arevalo, John (DNRE)

Sent: Friday, October 01, 2010 10:46 AM

To: Rasmusson, Scott (DNRE)

Subject: FW: Enbridge

Read this, and add it to Enbridge's file. I hope that the information is something that you don't need, but you need to know.

John Arevalo, PWS Water Resource Cadillac District Supervisor Water Resources Division Michigan Department of Natural Resources and Environment Gaylord Field Office 989-705-3450 arevaloj@michigan.gov

From: Masterson, Mike (DNRE) Sent: Monday, September 20, 2010 9:11 AM To: Arevalo, John (DNRE) Subject: RE: Enbridge

Transmission of crude oil through pipelines is regulated by the Pipeline Hazardous Materials Safety Administration which is housed in the Department of Transportation. If a spill should occur in the Great Lakes (probably all section 10 waters), the Coast Guard would be the primary emergency responder and would establish the incident command structure. If the spill occurs inland affecting surface waters, then EPA would be the primary emergency responder and would establish the incident command structure. In either case, the State would be involved within the established command structure to ultimately ensure that all state regulations are adhered to as well. Helpful?

From: Arevalo, John (DNRE) Sent: Monday, September 20, 2010 8:50 AM To: Masterson, Mike (DNRE) Subject: Enbridge

Our permit was issued Friday, so we're all set for now. Given your experience w/the Marshall spill, I was hoping that you could give information regarding who reviews the inspection information obtained by Enbridge for their Straits crossing. Since it runs from WI to Sarnia, Mary Dettloff thought that PHMSA would be involved. I am interested in who has oversight, and the chain of command should there be a spill someday. I anticipate more inquiries similar to the letter to our file which you read. Although it does not come under our jurisdiction, I would like more information for myself, just so I know. The other WRD staff who are working w/NDPES permitting for Enbridge will (hopefully) continue to keep me in the loop regarding Enbridge's app. w/them. Thanks.

John Arevalo, PWS Water Resource Cadillac District Supervisor Concern By Env. Groups.pdf

Great Lakes Environmental Law Center, West Michigan Environmental Action Council, Natural Resources Defense Council, National Wildlife Federation, Tip of the Mitt Watershed Council, Sierra Club

September 14, 2010

VIA ELECTRONIC MAIL and U.S. MAIL

Scott RasmussonReceivedMichigan Department of Natural Resources and EnvironmentLWMD/DEGLand and Water Management DivisionSEP 1 7 20102100 West M-32SEP 1 7 2010Gaylord, MI 49735-9282GAYLORD FIELD OFFICE989-731-4920GAYLORD FIELD OFFICE

Re: Comments on Draft Permit to Drill Support Structures in the Great Lakes, File No. 10-24-0035P, Enbridge Pipelines (Lakehead), LLC

Dear Mr. Rasmusson,

Please accept these comments submitted on behalf of the Great Lakes Environmental Law Center, West Michigan Environmental Action Council, Natural Resources Defense Council, National Wildlife Federation, Tip of the Mitt Watershed Council, and Sierra Club regarding the Michigan Department of Natural Resources and Environment ("MDNRE") draft Permit to Drill, File No. 10-24-0035P ("Draft Permit"), for the T39N, R04W, Section 10, Wawatam Township, Emmet County, MI proposed by Enbridge Pipelines (Lakehead), LLC. ("Enbridge")

For the reasons set forth below, we request that the MDNRE only approve this permit after ensuring that all safety measures and best management practices are in place to protect Michigan's fragile fresh water ecosystem. Public notice for the Draft Permit states that written comments will be accepted 20 days after August 27, 2010. Therefore, these comments are timely submitted.

I. INTRODUCTION

Enbridge is seeking a permit to drill support structures on the bottom of Lake Michigan to maintain the integrity and safety of existing pipeline structures. A permit is required before Enbridge takes any action pursuant to part 325 of the Submerged Lands Act. Under the Submerged Lands Act, a permit is necessary to protect the waters of the Great Lakes and the Great Lakes bottomlands. Enbridge is seeking to conduct maintenance on an oil/gas pipeline that runs under the Straits of Mackinac. Following the known failures of Enbridge to comply with federal pipeline maintenance recommendations and the subsequent multiple and devastating infractions against our fresh water resources, MDNRE must proceed with all precautionary measures at its disposal to require that any pipeline maintenance in these submerged waters, subject to the Public Trust, be carried out in the safest possible fashion. In light of the valid

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concerns about the safety and lack of maintenance on decades old, Enbridge-owned and/or operated pipelines, to protect the ecological health of the Great Lakes and the health and safety of the surrounding communities, this pipeline must be shut down and flushed prior to any maintenance operations and MDNRE must require strict safety measures and adoption of best management practices.

II. Pipes Act of 2006 - Nine Elements of Effective Damage Prevention

In 2006 President Bush signed the PIPES Act to strengthen and improve Federal and State pipeline safety programs. The Pipes Act specifies nine elements which should be implemented to prevent pipeline damage. These nine elements (including Damage Prevention and Corrosion Control) are considered consistent and congruent with the Common Ground Alliance (CGA) Best Practices.¹ MDNRE must require Enbridge to adopt the nine elements in its safety program to ensure the protection of the Great Lakes.

III. Best Management Practices

In 1999, the U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration ("PHMSA") published the Common Ground Study of One-Call Systems and Damage Prevention Best Practices. (The Best Practices have since been updated, most recently in 2010). The Common Ground Best Practices are intended to be shared among stakeholders involved with and dependent upon the safe and reliable operation, maintenance, construction, and protection of underground facilities, including oil and gas pipelines.² The MDNRE should determine if Enbridge has adopted the Common Ground Alliance Best Practices, and if not, encourage Enbridge to adopt the Best Practices as appropriate. The PHMSA has stated that excavation damage continues to be the leading cause of serious pipeline incidents. ³ To prevent the potential damage caused by any excavation on this project, the MDNRE must require Enbridge to adopt the damage prevention practices as set forth by the PHMSA.

IV. Risk Assessments and Safety Inspections

To help ensure the reliability and integrity of oil pipelines, the industry has taken a risk management approach. The American Petroleum Institute has developed the API 1160 Managing System Integrity for Hazardous Liquid Pipelines. The API 1160 is a key industry standard which lays out a framework for conducting risk assessments for pipeline systems. The MDNRE must ensure Enbridge has adopted the API 1160 risk assessments and, if not, require its incorporation. MDNRE must inquire as to what risk assessments and/or safety inspections Enbridge and the PHMSA have conducted on the Lakehead pipeline system and scrutinize the results, particularly anomalies found in the proposed project area, prior to making a determination on this permit request. MDNRE must also inquire as to what other problems or concerns were detected along this section of the pipeline in Enbridge's pipeline integrity management program. Finally, MDNRE should take action to ensure that any anomalies in the pipeline identified as potential risks to the watershed are addressed as part of the proposed project and subsequent permit.



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¹ CGA Best Practices, Version 7.0, March 2010. (www.commongroundalliance.com).

² http://www.commongroundalliance.com/Template.cfm?Section=Best_Practices.

³ http://primis.phmsa.dot.gov/comm/DamagePrevention.htm?nocache=4560

V. Corrosion

The PHMSA has determined that corrosion accounts for 25% of all significant pipeline incidents.⁴ Corrosion is a serious issue and any corrosion of the pipeline at issue should be investigated by MDNRE prior to making a determination on Enbridge's permit application. Corrosion can affect all types of pipelines, including pipelines submerged in fresh water. Without proper maintenance, corrosion can completely deteriorate a pipeline causing significant damage. Pipeline support structures are the main areas where pipe corrosion becomes a problem. Corrosion at support structures is commonplace because support saddles create crevices which can, overtime, undermine the structural integrity of the pipe. If not addressed immediately, corrosion can undercut paint film and eventually cause rapid pipe wall loss. There is available technology that can reduce the likelihood of corrosion at support structures. These technologies include, but are not limited to, protective coatings and linings, cathodic protection, materials selection, and inhibitors.⁵

These best practices are widely adopted by the industry, and MDNRE must evaluate the tools and technologies that Enbridge plans to utilize in anchoring down the pipes on the Great Lakes bottomlands. Economics and cost savings must not be the only driving force in Enbridge's choice of anchoring systems. MDNRE must ensure that Enbridge has considered the possibility of other, safer, anchoring systems that limit pipe corrosion.

VI. Emergency Preparedness

There are additional questions about the scope of proposed work on the pipeline that were not addressed in the permit application. What contingency plans have been adopted in case of an oil leak or spill during the pipeline anchoring? Have on-site and off-site emergency preparedness plans been filed with state and local government and first responders? MDNRE officials must be on-site for the duration of the project to ensure compliance with applicable federal and state laws and regulations.

CONCLUSION

For all of the above reasons, we respectfully request that the Michigan Department of Natural Resources and Environment fulfill its duty to protect the environment and health of Michigan's residents by closely scrutinizing this permit application, requiring stringent safety measures, utilizing the most environmentally protective best management practices, and requiring this pipeline to be shut down and flushed prior to any maintenance operations.

Received LWMD/DEQ

SEP 1 7 2010

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⁴ http://primis.phmsa.dot.gov/comm/reports/safety/SigPSIDet_2000_2009_US.html?nocache=3616#_liquid

⁵ <u>http://www.nace.org/content.cfm?parentid=1046¤tID=1424</u>.

Submitted on this 14th day of September, 2010.

A M

Nick Schroeck Executive Director Great Lakes Environmental Law Center 440 Burroughs St. Box 70 Detroit, MI 48202 313-820-7797 nschroeck@wayne.edu

Jennifer Baggiani Student Attorney Great Lakes Environmental Law Center

Rachel Hood Executive Director West Michigan Environmental Action Council

Thom Cmar Midwest Program Attorney Natural Resources Defense Council

Marc Smith Senior Policy Manager National Wildlife Federation

Grenetta Thomassey, PhD Program Director Tip of the Mitt Watershed Council

Anne Woiwode State Director Sierra Club, Michigan Chapter

> SEP 1 7 2010 GAYLORD FIELD OFFICE

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DEQ Permit 09 17 10.pdf DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT PERMIT

ISSUED TO:

Enbridge Energy Attn: Jacob Jorgensen, Assoc. Engineer 1320 Grand Avenue Superior, WI 54880 Permit No.10-24-0035-PIssuedSeptember 17, 2010RevisedSeptember 17, 2015

This permit is being issued by the Michigan Department of Natural Resources and Environment (MDNRE) under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) and specifically:

Part 301 Inland Lakes and Streams

Part 315 Dam Safety

Part 325 Great Lakes Submerged Lands

Part 323 Shorelands Protection and Management
 Part 353 Sand Dune Protection and Management

Part 303 Wetlands Protection

Part 31 Floodplain/Water Resources Protection

Permission is hereby granted, based on permittee assurance of adherence to State requirements and permit conditions to:

Place helical anchoring structures approximately five feet wide, saddle mounted around two existing 20 inch diameter pipelines and augured into the lake bed in at least ten locations to maintain the integrity of the pipelines, as shown on the attached plans.

Water Course Affected: Lake Michigan

Property Location: Emmet County, Wawatam Township, Section 10 11 Town/Range 39N, 4W

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee in exercising the authority granted by this permit shall not cause unlawful pollution as defined by Part 31, Floodplain/Water Resources Protection of the NREPA.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the plans and the specifications submitted with the application and/or plans and specifications attached hereto.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved herein.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with Act 53 of the Public Act of 1974 and comply with each of the requirements of that act.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- 1. Permittee shall notify the MDNRE within one week after the completion of the activity authorized by this permit, by completing and forwarding the attached, preaddressed post card to the office addressed thereon.
- J. This permit shall not be assigned or transferred without the written approval of the MDNRE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific State Act, Federal Act and/or Rule under which this permit is granted.
- L. Work to be done under authority of this permit is further subject to the following special instructions and specifications:

- 1. Enbridge and/or its consultants shall provide the MDNRE a site map showing the total number and locations of the anchoring structures that were installed under this permit. This information can be emailed to <u>rasmussons@michigan.gov</u>.
- 2. Authority granted by this permit does not waive any jurisdiction of the U.S. Corps of Engineers (USACE) or the need for a federal permit, if required.
- 3. In issuing this permit, the MDNRE has relied on the information and data which permittee has provided in connection with the permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete, or inaccurate, the MDNRE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- 4. The authority to conduct the activity as authorized by this permit is granted solely under provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state or federal approval or authorizations necessary to conduct the activity.
- 5. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representatives of the permittee, undertaken in connection with this permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- 6. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity and/or mitigation plan from the MDNRE. Such revision requests shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by the MDNRE prior to being implemented.
- 7. This permit is being issued for the maximum time allowed under Part 325, Great Lakes Submerged Lands, of the Natural Resources and Environmental Protection Act, PA 451 of 1994, as amended, including all permit extensions allowed under the administrative rule R322.1011(f), as determined by the MDEQ. Therefore, no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by the MDEQ, will be for a five-year period beginning at the date of issuance.

Rebecca A. Humphries, Director Michigan Department of Natural Resources and Environment

By

Scott Rasmusson Water Resources Division 989-705-3437

cc: Wawatam Township Moran Township Barr Engineering Ms. Gina Nathan, USACE, Detroit (LRE-2010-00463-56) Mr. Steve Casey, MDNRE

Joint Permit 08 26 10.pdf

2	US Army Corps of Engineers (USACE)	Michigan Department of Environmental Quality (MDEQ)	DEQ

Previous USACE Permit or File Number	RECE		iter Manage	ment Division, N	DEQ File Numb	AGENCY
USACE File Number	AUG 2	6 2010		or Marina Operal	ing Permit Num	NCY U
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Read Instructions pages i - iii. All of the following	g boxes below must be che	ecked and information provided to		ication to be	processed:	
 All items in Sections 1 through 9 are completed Items in Sections 10 through 21 that apply to 		Date project was stake Application fee is attac				
Dimensions, volumes and calculations are pr	S. A.	All requested suppleme		achments (⇒)	are included	
Reproducible location map, site plan(s), cross						er.
List any additional attachments, tables, etc.:						
PROJECT LOCATION INFORMATION						
· Refer to your property's legal description for the Town			for your P			
Site location Address (road, if no street address)	Zip Code	Township Name(s)		Township(s)	Range(s)	Section(s)
Lake Michigan (all in-water work) betwee	n			40N & 39N	4W & 4W	25 & 10/11
Upper and Lower Peninsula City/Village County(ies)		Property Tax Identification Number	er(s)	3911	411	10/11
	and Emmet (in	N/A	51(0)			
Straights	second second second second					
Name of Project Nam		Subdivision/Plat	Lot Nu	Imber	Private	
	Pipeline Inspection	N/A	N/A		Claim N/	
	lic/government [/ building or structure [ansportation funds [industrial building renovation or restoration other (explain)		mercial restoration		-family e-family
The proposed project is on, within, or involves (check al		egally established County Drain (date	establish	ed) (M/D/Y)	1 1	
a stream a pond (less than 5 acr		Great Lake or Section 10 Waters	🗌 a nati	ural river 🔲	a new marina	
a river a channel/canal		lesignated high risk erosion area	🗌 a dan		a structure rer	
a ditch or drain an inland lake (5 acres	12/1	lesignated critical dune area	a wet		a utility crossir	ng
a floodway area a 100-year floodplain DESCRIBE PROPOSED PROJECT AND ASSOCI		lesignated environmental area		eet of an existin		haate)
Written Summary of All Proposed Activities. See Att		IL CONTRACTION OF GOLINGE A			a auditional s	10013)
Construction Sequence and Methods.						
APPLICANT, AGENT/CONTRACTOR, AND PROF	PERTY OWNER INFORMAT	TON				
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US Army Corps of Engineers (USACE)	Michigan Departmen දිණ් Environmental Quality (MDEQ)
No Yes Is there a MDEQ conservation easement or other If yes, attach a copy.	easement, deed restriction, lease, or other encumbrance upon the property in the project area?
PROPOSED PROJECT PURPOSE, INTENDED USE, AND AL Purpose/Intended Use: The purpose must include any new development	.TERNATIVES CONSIDERED (Attach additional sheets if necessary) opment or expansion of an existed land use. See attached
Alternatives: include a description of alternatives considered to av technologies; alternative project layout and design; and alternative I Saw artrached	rold or minimize resource impacts. Include factors such as, but not limited to alternative construction locations. For utility crossings, include both alternative routes and alternative AUG 2 6 2010
LOCATING YOUR PROJECT SITE	PERMIT CONSOLIDATION
	s the site location and road from the nearest major intersection, and includes a horn and IDATION UNIT of road, check all that apply) [] private [] public [] improved [] unimproved
Is there an access road to the project? (2) No (2) Yes (If Yes, type Name of roads at closest main intersection N/A - work conditions and the section N/A - work conditions at the section of the section	
Directions from main intersection	
	ape cod 📋 bi-level [] cottage/cabin 🗍 pole barn [] none [] other (describe)
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How can your site be identified if there is no visible address?	
• • •	nd nearest visible landmark and waterbody Project locations all located within the
Straits of Mackinac in Lake Michigan: all work will Does the project cross the boundaries of two or more political jurisdi	
No []] Yes → If Yes, list jurisdictions: Unknown	cuoris (Cityr rownship, rownship) rownship, countyr county, etc.)
	tions required for the proposed activity, including all approvals or denials received.
Agency Type approval Identificatio	n number Date applied Date approved / denied If denied, reason for denial
US Coast Guard Notification	
Mackinac Bridge Authority	
Notification	
COMPLIANCE If a permit is issued, date activity will commence (M/D/Y)	/ Proposed completion date (M/D/Y) / /
Has any construction activity commenced or been completed in a re	
If Yes, identify the portion(s) underway or completed on drawings	
attach project specifications and give completion date(s) (M/D/Y) Are you aware of any unresolved violations of environmental faw or	/ / If Yes, list the MDEQ permit number
ADJACENT/RIPARIAN AND IMPACTED OWNERS (Attach addition • Complete information for all adjacent and impacted property owners)	ral sheets if necessary) ers and the lake association or established lake board, including the contact person's name.
· If you own the adjacent lot, provide the requested information for t	the first adjacent parcel that is not owned by you.
Property Owner's Name Mailin See attached for landowner information.	ng Address City State Zip Code
where the second s	
Name of [] Established Lake Board [] or Lake Association and the Contact Person's name, phone number, and mailing addres	e
APPLICANT'S CERTIFICATION RE	AD CAREFULLY BEFORE SIGNING
	rein. I certify that I am familiar with the information contained in this application; that it is true and with the State Coastal Zone Management Program. I understand that there are penalties for submitting
	tion may be revoked if information on this application is untrue. I certify that I have the authority to
	application, I agree to allow representatives of the MDEQ, USACE, and/or their agents or contractors to
	e and the completed project. I understand that I must obtain all other necessary local, county, state, or y, state, or federal agencies does not release me from the requirements of obtaining the permit
requested herein before commencing the activity. I understand that	the payment of the application fee does not guarantee the issuance of a permit.
Agent/Contractor Printed Name	Signature (M/D/Y)
図 Corporation/Public Agency –	() leaff & and a second
Title Associate Region Jacob Jorgensen Cerving en	Yezov - George 03/25/2010
Enginear	W way

 DRAWDOWN OF AN IMPC If wetlands will be impacted, a 		12				Parts Cand
					AUG 2 6 2	010
Type of drawdown 🔲 over win	ter 🔲 temporary 🗌 o	ne-time event 🔲 annual e	vent 🛄 permane	nt (dam removal) 🔲	other	
Reason for drawdown			12-14/		DNRE/WF PERMIT CONSOLIDAT Previous MDEC PERMIT	RD IONTINIT
Has there been a previous draw	down? 🗌 No 📄 Yes	(If Yes, provide date (M/D/	<u> </u>		number, if known	
Does waterbody have establishe	d legal lake level? 🗌	No 🗌 Yes 🗌 Not Sure			Dam ID Number, if known	l
Extent of vertical			oundment		Number of adjacent or	
drawdown (ft)	·		ign head (ft)		impacted property owners	;
Date drawdown would start			e drawdown	, ,	Rate of drawdown	
(M/D/Y) / / Date refilling would start			uld stop (M/D/Y) e refill	/ /	(ft/day) Rate of refill	
(M/D/Y) / /			uld end (M/D/Y)	1 1	(ft/day)	
Type of outlet discharge structur	e to be used		oundment area at		Sediment depth behind in	nooundment
	nid-depth		mal water level (ac	res)	discharge structure (ft)	1
17 DAM, EMBANKMENT, DIK	E, SPILLWAY, OR CO				······································	
For more information go to w				•		
 If wetlands will be impacted, a 						
Attach site-specific conceptua						t review.
 Detailed engineering plans ar Attach detailed engineering plans 					апорота.	
Which one best describes your g	project? I new da		nstruction of a faile	d dam 🛛 🗍 e	nlargement of an existing dam	
🗌 dam repair 🔄 dam altera] other	Ū Ū	
Dam ID Number		e of outlet discharge structu		sed activities require a	a drawdown of the waterbody to	complete the
If known		surface 🗌 bottom 🗌 mid	• •		also complete Section 16)	
Riprap		dging/excavation	Fill volum		s structure allow complete	U.
Volume (cu yd)		ıme (cu yd)	(cu yd)	1	nage of waterbody? 🗌 No 📋	Yes
Benchmark	Datum used			Describe benchmark	and show on plans	
elevation (ft) Have you engaged the services			les If Yes provide	name registration nu	mher, and mailing address	
Name		Registration Number	Mailing Address	nome, regionation no	mont one moning decrees.	
		-	-			
Will a water diversion during con	struction be required?	🗌 No 🔲 Yes If Yes, des	cribe how the strea	m flow will be controlle	ed through the dam construction	n area during
the proposed project activities:						
					MENT OF AN EXISTING DAM	
Describe the type of dam and ho	w you will design the d	am and embankment to cor	itrol seepage throu	gh and underneath the	e dam.	
	·····		I			
Embankment top		vation at downstream			mbankment top elevation	
elevation (ft)	embankment to				n embankment toe) (ft)	
Embankment length (ft)	Embankment to	op widin (it) Embankme	nt boltom width (it)	Embankment slopes	•	
Drange of permal	Imp	undmont flood alouation (#)	. Mavinum	(vertical / horizontal)	Downstream	arooduro of the
Proposed normal pool elevation (ft)	ampo I	oundment flood elevation (ft		venical drawdown cap structure, if available)	pability (ft) (Attach operational)	procedure of the
Have soil borings been taken at	dam location?	Will a cold wate	er underspill be pro		Do you have flowage rights to	all proposed
No ☐ Yes ♥ If Yes, attach			If Yes, invert ele		flooded property at the design	
					No Yes	
18 UTILITY CROSSINGS (See						
 If side casting is required, con Attach additional about as tab 				ellands may be impac	ted, complete Section 12.	
Attach additional sheets or tab		intormation as needed for m	witipie crossings.	Crossing of [7]	Inland Lake or Stream	Ifloodatain
What method will be used to con		nre 🗂 directional drilling		•	Inland Lake or Stream	floodplain ate Section 12)
	Number of	Number of inland lake or	Pipe diameter	Pipe length per	Distance below streambed	
Туре	wetland crossings	stream crossings	(in)	crossing (ft)	or wetland (in)	(ft)
🔲 sanitary sewer						
storm sewer						
🔲 watermain						
🔲 cable						
🖂 oil/gas pipeline			20"	21,000		

MDNRE and USACE - Joint Permit Application Enbridge Pipelines (Lakehead), L.L.C. Straits of Mackinac Maintenance and Inspection Project, Line 5 Mackinac and Emmet Counties, Michigan

Project Descripton

2 – Describe proposed project and associated activities, and the construction sequence and methods. The purpose of the project will be to perform visual inspection of the existing 20-inch pipelines installed beneath the Straits of Mackinac and install support structures in more than 10 locations along the pipeline. The most of the location of the existing pipelines is shown on the attached site location Figures 1,2,3, & 4 in attachment "FIGURES AND CONTRUCTION TYPICALS". The work will involve the installation of a helical anchoring system with saddle mounted about the pipeline in each proposed location to increase support; the anchors will be augered directly into the lake bed. The proposed locations for installation of the anchoring structures are provided on the attached map. During the underwater inspection additional location requiring maintenance may be identified. Installation of support structures in these locations would occur during this project. Schematics showing the auguring apparatus and method as well as equipment utilized for installation are included with the attachments.

Work will be conducted from barges and a certified diving contractor will be employed to oversee the installation. Work is scheduled to begin September 17, 2010 and is expected to take 10 days at the minimum with very good weather conditions and up to 30 days with poor weather conditions.

4 – Proposed project purpose, intended use, and alternative considered.

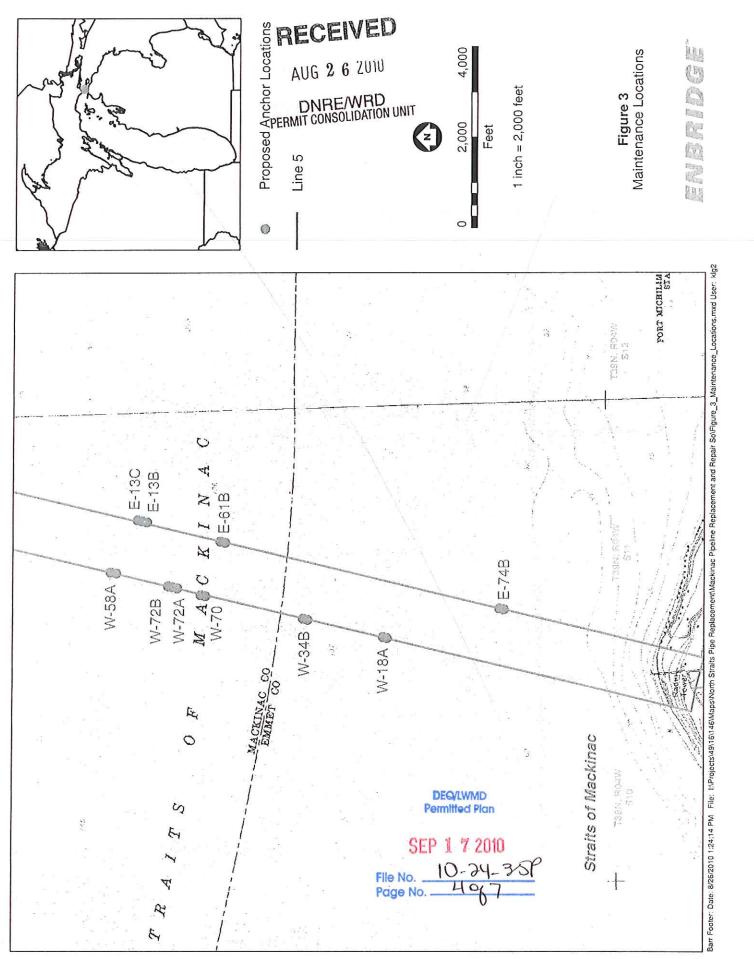
In order to maintain pipeline integrity, installation of additional supports to minimize the distance between presently unsupported pipeline spans is necessary. The proposed locations for installation of the anchoring structures are provided on the attached map. Schematics showing the auguring apparatus and method as well as equipment utilized for installation are included with the attachments. The support method is anticipated to incur minimal or no environmental impact. This project is considered pipeline maintenance and is not associated with a new utility installation.

The proposed work is necessary to provide better overall pipeline integrity and safety. Do nothing or the no-build alternative presents a future risk to the pipeline. The no build is not a viable option.



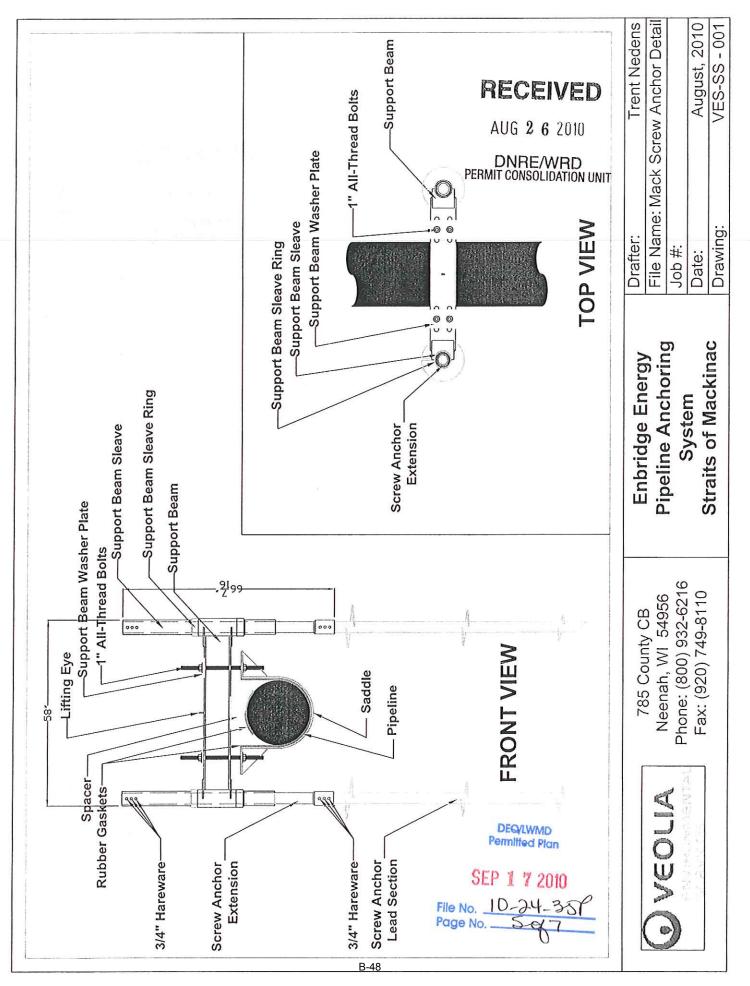
AUG 2 6 2010

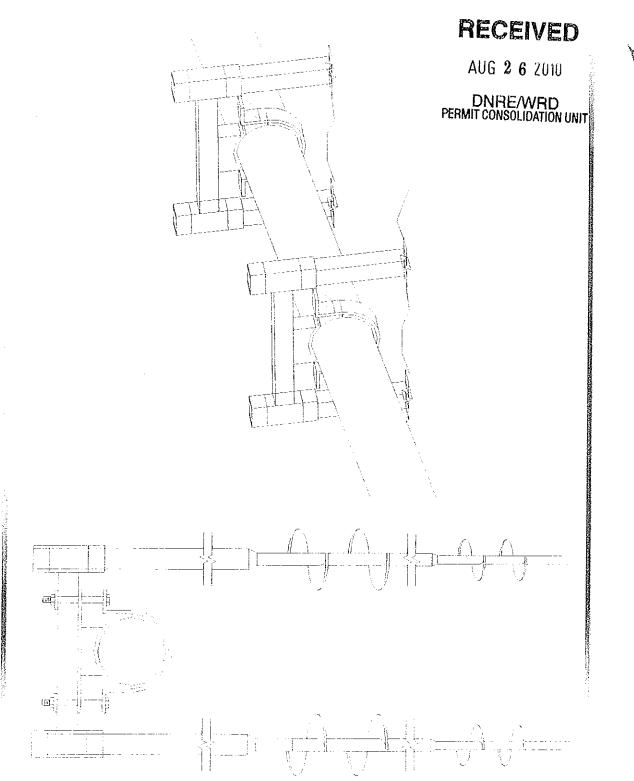
DNRE/WRD PERMIT CONSOLIDATION UNIT



B-47



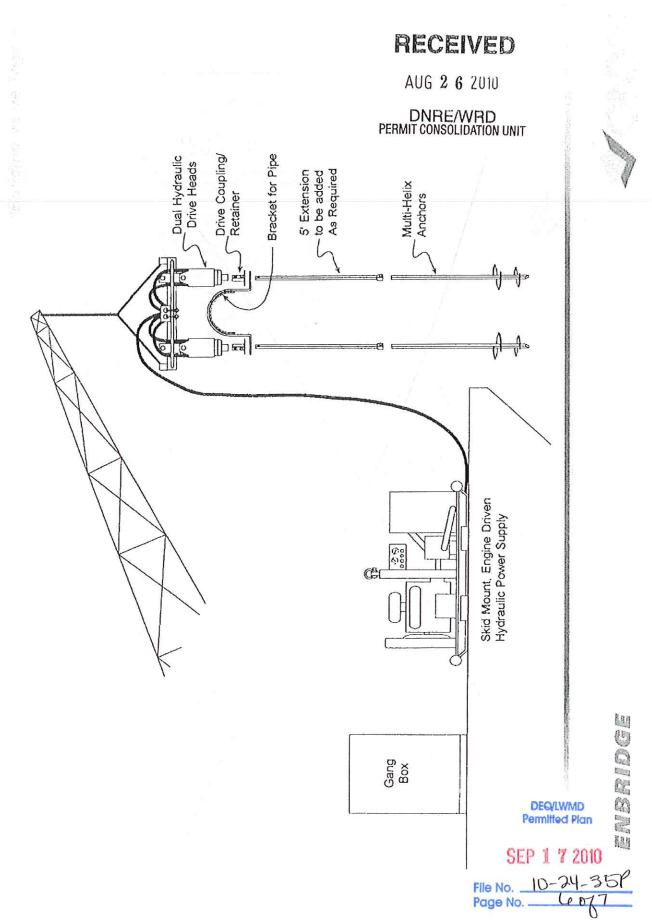


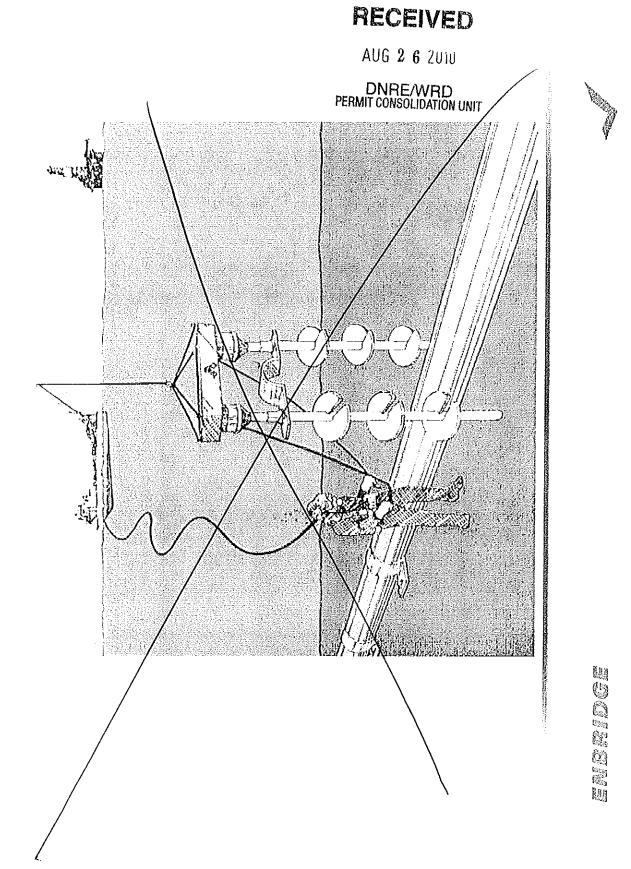


ENERGIAN CONTRACTOR

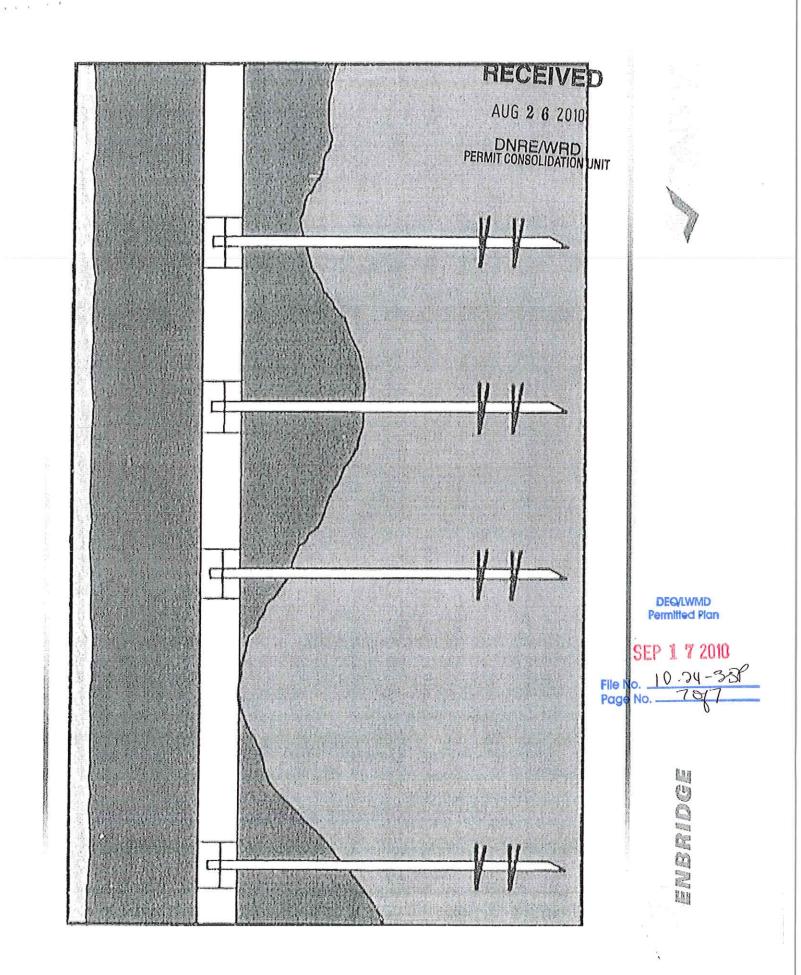
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Proj. Review and Number of Supports 2010

Department of Natural Resources and Environment Land and Water Management Division

PROJECT REVIEW REPORT

File # 10-24-0035-P

Name of reviewer: Sco GENERAL INFORM		Da	ate of field review: De	sktop		
1. Name of applicant: I	Enbridge Energy					
2. Name of property ov	vner: various					
 Waterbody type: (check all that apply) Jurisdictional determ a. Is the wetland con b. Approximate size 	Wetland Floodpla Floodpla ination (for Part 30 of wetland = nin a county with a p under: Part 30 wing complete and Part 303):	3): in Section 30301? acres opulation > 100,000? I Part 303 accurate? Xes	stream Inl	eat Lake Canal (Great L and lake Canal (Inland I No 5 Part 31 Sec. 404		
8. Total wetland acreag	e to be impacted by	proposed activity =	acres			
Dominant plants	Indicator status	Other plants	Indicator status	icator status Soils (description) Dep		
				· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·					
DESCRIBE HYDROI	LOGIC INDICATO	DRS:				
······						
GENERAL FIELD N	OTES/COMMENT	°S• (Attach other page	(e) for additional nate			
Project is for up to 10						
	-			ther pipelines in the area.		
		•		* *		

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Arevalo, John (DNRE)

From:	Arevalo, John (DNRE)
Sent:	Tuesday, September 07, 2010 8:27 AM
То:	Kristen Benson
Cc:	'Alina M. Heydt'; Tammy Leinweber
Subject	: RE: Straits of Mackinac project (MDNRE File #10-24-0035-P)

Because you have crossing easements which presumably have language about maintaining the pipelines, you could provide me with those specific pages of the easement documents in lieu of getting letters of authorization to act as the riparian owner's agent in this matter. I do not need copies of the entire easement documents, just pertinent language regarding Enbridge's ability to maintain the pipeline.

John Arevalo, PWS Water Resource Cadillac District Supervisor Water Resources Division Michigan Department of Natural Resources and Environment Gaylord Field Office 989-705-3450 arevaloj@michigan.gov

From: Kristen Benson [mailto:Kristen.Benson@enbridge.com]
Sent: Thursday, September 02, 2010 1:42 PM
To: Arevalo, John (DNRE)
Cc: 'Alina M. Heydt'; Tammy Leinweber
Subject: RE: Straits of Mackinac project (MDNRE File #10-24-0035-P)

John,

No, these properties are not Enbridge owned although we do have crossing easements. I believe the property ownership on the UP is city-owned and on the lower side, county-owned, as I believe it is noted in the application.

Please let me know if you need any additional information. If you have any questions specific to the application, you may contact Alina Heydt at Barr Engineering; she is cc'd on this note so you have her email; her phone # is 218-343-7777.

Sincerely,

Kris Benson Senior Environmental Analyst Enbridge 119 n. 28th St. E. Superior, WI. 54880 Office: 715-394-1572 Cell: 218-348-1177 From: Arevalo, John (DNRE) [mailto:AREVALOJ@michigan.gov]
Sent: Thursday, September 02, 2010 12:35 PM
To: Kristen Benson
Subject: Straits of Mackinac project (MDNRE File #10-24-0035-P)

Ms. Benson: is Enbridge Energy the riparian owner in the upper and lower peninsulas of Michigan where the pipelines come ashore? FYI, your file is now here in my office in Gaylord. Thank you.

John Arevalo, PWS Water Resource Cadillac District Supervisor Water Resources Division Michigan Department of Natural Resources and Environment Gaylord Field Office 989-705-3450 arevaloj@michigan.gov

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Arevalo, John (DNRE)

From:Arevalo, John (DNRE)Sent:Friday, September 03, 2010 9:59 AMTo:Kristen BensonSubject:RE: Straits of Mackinac project (MDNRE File #10-24-0035-P)

Because Enbridge does not own the two properties, I would like you to mail me writen authorization from the two affected prop. owners giving Enbridge the authorization to be their agent to apply for this permit, since they are the riparian owners. I understand that you have an easement, but this letter of authorization would suffice. Thank you.

-----Original Message-----From: Kristen Benson [mailto:Kristen.Benson@enbridge.com] Sent: Thu 9/2/2010 1:42 PM To: Arevalo, John (DNRE) Cc: 'Alina M. Heydt'; Tammy Leinweber Subject: RE: Straits of Mackinac project (MDNRE File #10-24-0035-P)

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Kris Benson Senior Environmental Analyst Enbridge 119 n. 28th St. E. Superior, WI. 54880 Office: 715-394-1572 Cell: 218-348-1177

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Sent: Thursday, September 02, 2010 12:35 PM To: Kristen Benson Subject: Straits of Mackinac project (MDNRE File #10-24-0035-P)

Ms. Benson: is Enbridge Energy the riparian owner in the upper and lower peninsulas of Michigan where the pipelines come ashore? FYI, your file is now here in my office in Gaylord. Thank you.

John Arevalo, PWS Water Resource Cadillac District Supervisor Water Resources Division Michigan Department of Natural Resources and Environment Gaylord Field Office 989-705-3450 arevaloj@michigan.gov

10 24 0035 Add. Supports 2010\Joint Permit 08 26 10.pdf

	US Army	Corps	of Engineers	(USACE)	
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Previous USACE Permit or File Number	RECE	IVED	Land and Water Manag	-003	5-P	G
USACE File Number District Office	AUG 2 (3 2010	Pre-application Number	or Marina Operal	ting Permit Numb	
Read Instructions pages i - iii. All of the following boxe	DNRE/ PERMIT CONSOL		Fee received \$	<u>.</u> C		SE
All items in Sections 1 through 9 are completed	is below must be che	cked and information		dication to be	processea:	
Items in Sections 10 through 21 that apply to the pr	oiect are completed		n fee is attached			
Dimensions, volumes and calculations are provided			ted supplementary at	tachments (⇒)	are included	
Reproducible location map, site plan(s), cross section	ons and photographs	are provided, one s	et must be black and	white on 8 ½ b	y 11 inch pape	er.
List any additional attachments, tables, etc.:						
PROJECT LOCATION INFORMATION						
Refer to your property's legal description for the Township,			operty tax bill for your F			
Site location Address (road, if no street address)	Zip Code	Township Name(s)		Township(s) 40N &	Range(s) 4W &	Section(s)
Lake Michigan (all in-water work) between Upper and Lower Peninsula				39N	4W a 4W	25 & 10/11
City/Village County(ies)		Property Tax Identif	ication Number(s)	5514	1 711	10/11
N/A Mackinac and	Emmet (in	N/A	.,			
Straights)						
Name of Project Name or	//	Subdivision/Plat		umber	Private	
	line Inspection	N/A industrial	N/A	nmercial	Claim N/	4 i-family
Project types private public/gov (check all that apply) building addition new buildi	ng or structure	building renovation c		r restoration		e-family
project is receiving federal transport	tation funds] other (explain)				
The proposed project is on, within, or involves (check all that a	Contraction and the second sec		nty Drain (date establish	and the second s	1 1	
a stream a pond (less than 5 acres)		reat Lake or Section 1			a new marina	
a river a channel/canal		signated high risk ero			a structure rem	
a ditch or drain an inland lake (5 acres or monol a floodway area a 100-year floodplain		signated critical dune signated environment		feet of an existin	a utility crossin	lg
2 DESCRIBE PROPOSED PROJECT AND ASSOCIATED						neets)
Written Summary of All Proposed Activities. See Attache						
Construction Sequence and Methods.						
3 APPLICANT, AGENT/CONTRACTOR, AND PROPERTY	OWNER INFORMATI	ON				
Owner/Applicant						
(individual or corporate name) Enbridge Energy, Limit	ted Partnership	Agent/Contractor				
Jacob Jorgensen, Associate Region Engineer	and a second	(firm name and cont	act person)			
Mailing Address 1320 Grand Avenue		Address				
City Superior State WI Zip Code	54880	City		State	Zip Coo	de
Daytime Phone Number with Area Code Cell Phone Numb		Daytime Phone Nun	nber with Area Code	Cel	Phone Number	
715-394-1551 218-248-080	18					
Fax 832-325-5602 E-mail		Fax		E-mail		
Jacob. Jorgensen@enbr						
 No Yes Is the applicant the sole owner of all property If no, attach letter(s) of authorization from all owners. A lett 	on which this project is er signed by each pror	s to be constructed an	a all property involved	or impacted by t	nis project?	hehalfora
copy of easements or right-of-ways must be provided. If multiple	ole property owners, als	so attach a list of all ov	wners along with their n	ames, mailing a	addresses, and	
numbers. If the applicant is a corporation, a corporate officer r	nust provide written do	cument authorizing an	y agent/contractor liste	d above to act o	on its behalf.	
A letter of authorization must be provided from an owner receiv Property Owner's Name	ing dredge spoils on th	eir property, or where Mailing Address	access through their p	roperty is requir	ed	
(If different from applicant)		Maining Address				
Daytime Phone Number with Area Code Cell Phone Num	ıber	City		State	Zip Code	
	•					

B-58

US Army Corps of Engineers (USACE)	Michigan Departmen දිණ් Environmental Quality (MDEQ) හැදිණු
No Yes Is there a MDEQ conservation easement or other ease at I fyes, attach a copy.	sement, deed restriction, lease, or other encumbrance upon the property in the project area?
	RNATIVES CONSIDERED (Attach additional sheets if necessary) nent or expansion of an existed land use. See attached
Alternatives: Include a description of alternatives considered to avoid technologies; alternative project layout and design; and alternative loca Saa arrached	I or minimize resource impacts. Include factors such as, but not limited to alternative construction ations. For utility crossings, include both alternative routes and alternative COETIVED
	AUG 2 6 2010
LOCATING YOUR PROJECT SITE	PERMIT CONTROL PERMIT
	e site location and road from the nearest major intersection, and includes a hother site UNIT
Is there an access road to the project? (2) No [1] Yes (If Yes, type of	
Name of roads at closest main intersection NZA - work conduct Directions from main intersection	ted entirely in water and
	e cod [] bi-level []] cottage/cabin []] pole barn []] none []] other (describe)
Color Color of adjacent property house and/or b	
Fire lane number Lot number Address is visible of	
How can your site be identified if there is no visible address?	
•	nearest visible landmark and waterbody Project locations all located within the
Straits of Mackinac in Lake Michigan: all work will b	
Does the project cross the boundaries of two or more political jurisdiction	ארא: (City/Township, Township/Township, County/County, etc.)
	is required for the proposed activity, including all approvals or denials received.
Agency Type approval Identification n	
US Coast Guard Notification	
Mackinac Bridge Authority Notification	
COMPLIANCE	
If a permit is issued, date activity will commence (M/D/Y)	/ Proposed completion date (M/D/Y) / /
Has any construction activity commenced or been completed in a regul # If Yes, identify the portion(s) underway or completed on drawings or	
attach project specifications and give completion date(s) (M/D/Y)	/ / If Yes, list the MDEQ permit number
Are you aware of any unresolved violations of environmental law or litig	
AD IACENT/DIDADIAN AND INCACTED OWNERS. (Attach additional	
 ADJACENT/RIPARIAN AND IMPACTED OWNERS (Attach additional • Complete information for all adjacent and impacted property owners 	and the lake association or established lake board, including the contact person's name.
. If you own the adjacent lot, provide the requested information for the	first adjacent parcel that is not owned by you.
Property Owner's Name Mailing / See attached for landowner information.	Address City State Zip Code
See arrained for landowar in ormation.	
Name of [] Established Lake Board [_] or Lake Association	
and the Contact Person's name, phone number, and mailing address	CAREFULLY BEFORE SIGNING
and the Contact Person's name, phone number, and mailing address APPLICANT'S CERTIFICATION READ I am applying for a permit(s) to authorize the activities described herein accurate; and, to the best of my knowledge, that it is in compliance with false information and that any permit issued pursuant to this application undertake the activities proposed in this application. By signing this ap- enter upon said property in order to inspect the proposed activity site and and the terms of the terms of the proposed activity site and and the terms of the terms of the proposed activity site and and the terms of the terms of the proposed activity site and and the terms of terms of the terms of the terms of terms of terms of terms of the terms of t	I. I certify that I am familiar with the information contained in this application; that it is true and in the State Coastal Zone Management Program. I understand that there are penalties for submitting in may be revoked if information on this application is untrue. I certify that I have the authority to plication, I agree to allow representatives of the MDEQ, USACE, and/or their agents or contractors to ind the completed project. I understand that I must obtain all other necessary local, county, state, or
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16 DRAWDOWN OF AN IMPO		10				· Rent Gand
 If wetlands will be impacted, a 	ilso complete Section	IZ			AUG 2 6 2	010
Type of drawdown 🔲 over wint	ter 🔲 temporary 🗌 o	ne-time event 🔲 annual e	vent 🗌 permane	nt (dam removal) 🔲	other	
Reason for drawdown					DNRE/WF PERMIT CONSOLIDAT Previous MDEQ Permit	
Has there been a previous draw	down? 🗌 No 📄 Yes	(If Yes, provide date (M/D/	<u>n / /</u>		number, if known	
Does waterbody have establishe	ed legal lake level? [] No 🗌 Yes 🗌 Not Sure			Dam ID Number, if knowr	۱
Extent of vertical			oundment		Number of adjacent or	
drawdown (ft)			sign head (ft)		impacted property owners	\$
Date drawdown would start			e drawdown	, ,	Rate of drawdown	
(M/D/Y) / /		the second se	uld stop (M/D/Y) e refill		(fl/day) Rate of refill	
Date refilling would start (M/D/Y) / /			uld end (M/D/Y)	, ,	(ft/day)	
Type of outlet discharge structur	e to he used		oundment area at		Sediment depth behind in	
	nid-depth		mal water level (ac	res)	discharge structure (ft)	pointent
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For more information go to w				Ŭ,		
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Which one best describes your p	iroiect? I new da		intent, of dant tent	d dam er	largement of an existing dam	
	tion 🔲 dam abandor			i other		
Dam ID Number		e of outlet discharge structu	re Will propo		drawdown of the waterbody to	complete the
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Riprap		dging/excavation	Fill volum		structure allow complete	
Volume (cu yd)		ume (cu yd)	(cu yd)	1	age of waterbody? 🗌 No 📋	Yes
Benchmark	Datum used			Describe benchmark	and show on plans	
elevation (ft) Have you engaged the services		NGVD 29 other				
Name		Registration Number	Mailing Address	name, registration nor	nder, and maining address.	
Will a water diversion during con	struction be required?	🗌 No 🔲 Yes If Yes, des	cribe how the strea	m flow will be controlle	d through the dam constructio	n area during
the proposed project activities:						
					VENT OF AN EXISTING DAM	1
Describe the type of dam and ho	w you will design the d	am and embankment to cor	ntrol seepage throu	gh and underneath the	dam.	
Embankment top		vation at downstream			bankment top elevation	
elevation (ft)	embankment to			evation at downstream		
Embankment length (ft)	Embankment to	op width (ft) Embankme	nt bottom wiath (it)	Embankment slopes	Upstream	
0	l	less to the standard standard (f)		(vertical / horizontal)	Downstream	
Proposed normal	impo	oundment flood elevation (ft		-	ability (ft) (Attach operational	procedure of the
pool elevation (ft) Have soil borings been taken at (dam location?	Will a cold wate	er underspill be pro	structure, if available)	Do you have flowage rights to	all proposed
□ No □ Yes ➡ If Yes, attach			s If Yes, invert ele		looded property at the design	
			s in rea, insert de	rauon (it)	No [] Yes	
18 UTILITY CROSSINGS (See						
 If side casting is required, corr 				etlands may be impact	ed, complete Section 12.	
Attach additional sheets or tab		information as needed for n	ultiple crossings.		· · · · · · · · · · · · · · · · · · ·	3
What method will be used to con	•	ana 🗂 dhaadhaa -1 it 100		•]floodplain
🗍 flume 🗌 plow 🛄 open	trench [] jack and bo	ore <u>1</u> directional drilling Number of inland lake or	Pipe diameter	Pipe length per	ers 🔲 wetlands (also comple Distance below streambed	
Туре	wetland crossings	stream crossings	(in)	crossing (ft)	or wetland (in)	(ft)
sanitary sewer						
storm sewer				<u> </u>		
watermain					<u>}</u>	
🖂 oil/gas pipeline			20"	21,000	<u> </u>	
	ter a second					

B-60

MDNRE and USACE - Joint Permit Application Enbridge Pipelines (Lakehead), L.L.C. Straits of Mackinac Maintenance and Inspection Project, Line 5 Mackinac and Emmet Counties, Michigan

Project Descripton

2 – Describe proposed project and associated activities, and the construction sequence and methods. The purpose of the project will be to perform visual inspection of the existing 20-inch pipelines installed beneath the Straits of Mackinac and install support structures in more than 10 locations along the pipeline. The most of the location of the existing pipelines is shown on the attached site location Figures 1,2,3, & 4 in attachment "FIGURES AND CONTRUCTION TYPICALS". The work will involve the installation of a helical anchoring system with saddle mounted about the pipeline in each proposed location to increase support; the anchors will be augered directly into the lake bed. The proposed locations for installation of the anchoring structures are provided on the attached map. During the underwater inspection additional location requiring maintenance may be identified. Installation of support structures in these locations would occur during this project. Schematics showing the auguring apparatus and method as well as equipment utilized for installation are included with the attachments.

Work will be conducted from barges and a certified diving contractor will be employed to oversee the installation. Work is scheduled to begin September 17, 2010 and is expected to take 10 days at the minimum with very good weather conditions and up to 30 days with poor weather conditions.

4 – Proposed project purpose, intended use, and alternative considered.

In order to maintain pipeline integrity, installation of additional supports to minimize the distance between presently unsupported pipeline spans is necessary. The proposed locations for installation of the anchoring structures are provided on the attached map. Schematics showing the auguring apparatus and method as well as equipment utilized for installation are included with the attachments. The support method is anticipated to incur minimal or no environmental impact. This project is considered pipeline maintenance and is not associated with a new utility installation.

The proposed work is necessary to provide better overall pipeline integrity and safety. Do nothing or the no-build alternative presents a future risk to the pipeline. The no build is not a viable option.



AUG 2 6 2010

DNRE/WRD PERMIT CONSOLIDATION UNIT 10 24 0035 Add. Supports 2010\2010 App on Hold 09 15 10.pdf

Arevalo, John (DNRE)

From:	Klemans, Diana (DNRE)
Sent:	Thursday, September 16, 2010 9:17 AM
То:	Graf, Tom (DNRE); Fitzner, Wendy (DNRE); Dettloff, Mary (DNRE); Rasmusson, Scott (DNRE); Arevalo, John (DNRE)
Cc:	Saalfeld, Jerry (DNRE); Ostlund, Peter (DNRE); Syts, Sean (DNRE)
Subject:	RE: More reporter questions

Hi All,

Enbridge submitted an application for coverage under a general NPDES permit to discharge any petroleum impacted dewatering wastewater generated from the maintenance project proposed for the pipeline crossing the Straits. The application is currently on hold at the request of Enbridge. The NPDES permit (if issued) can deal only with potential impacts resulting from the dewatering discharge. Although it is not exactly clear from these notes what special safety requirements and additional information the public would like to see brought into the DNRE's regulatory process, it is unlikely that the NPDES permit can deal with them. Jerry Saalfeld or Sean Syts can provide more info if needed.

The WRD also administers Part 5, Spillage of Oil and Polluting Materials, but this appears to deal only with on land storage facilities. Pete Ostlund is looking into this more closely to determine for sure whether we have/don't have some leverage (i.e. for safety) under this Part. He is in a meeting all day today so he will get back to everyone tomorrow or Monday.

Dina

-----Original Message-----From: Graf, Tom (DNRE) Sent: Wednesday, September 15, 2010 2:26 PM To: Fitzner, Wendy (DNRE); Dettloff, Mary (DNRE); Rasmusson, Scott (DNRE); Arevalo, John (DNRE) Cc: Klemans, Diana (DNRE) Subject: RE: More reporter questions

Mary -

Scott hit the nail on the head - we can only react to the work proposed in the permit application and evaluate the impacts of the proposed work pursuant to Part 325. We do not have authority under Part 325 to regulate the operation of the pipeline. Might