



JOINT PERMIT APPLICATION



U.S. ARMY CORPS OF ENGINEERS (USACE)
 Detroit District Office
 Phone: 313-226-2218, Fax: 313-226-6763
 Website: www.lre.usace.army.mil/functions/rd/dtwhome.html

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ)
 Land and Water Management Division (LWMD)
 Phone: 517-373-9244, Fax: 517-241-9003
 Website: www.deq.state.mi.us/lwm

This "Joint Permit Application" package was developed to facilitate the state and federal permit application process administered by the MDEQ and the USACE, respectively, for regulated activities where the land meets the water, including wetlands, often referred to as the land/water interface. The status of your application being processed by the state can be viewed on the LWMD website under "CIWPIS".

Permit applications should be sent to the Permit Consolidation Unit (PCU), LWMD, MDEQ for initial review. Once the PCU has received the information necessary for review of the project, **including drawings that have adequate detail for review** and the **full application fee**, the file will be sent to the appropriate MDEQ District/Field Office for site inspection and final processing. You will receive a card or a public notice that will tell you your file number and the telephone number of the office where your application is being processed. The PCU review time for complete applications ranges from 15 to 45 days. District/Field Office processing times usually range from 60 to 90 days, processing times will be longer if a public hearing is held. A LWMD staff person from your local District/Field Office may visit your project site and may contact you for additional information prior to issuance of a permit, if approved. If a federal permit will also be required, a copy of the permit application will be sent to the Detroit District Office, USACE, for processing at the federal level. Additional copies of this application form can be downloaded from the LWMD website under "Permit Application" or can be photocopied from the original. If you have any questions about the permitting process or if you need to modify your application, you can contact the PCU by phone or fax at the numbers above, by mail at the address below, or by email at DEQ-LWM-PCU@state.mi.us.

The LWMD, MDEQ, regulates activities under the following Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The regulated activities are summarized in Appendix D. The complete statutes and rules can be downloaded from our website under "LWMD Statutes and Rules".

- Part 301, *Inland Lakes and Streams*
- Part 303, Wetlands Protection
- Part 325, Great Lakes Submerged Lands
- *Floodplain* Regulatory Authority found in Part 31, Water Resources Protection
- Part 353, Sand Dunes Protection and Management
- Part 323, Shorelands Protection and Management
- Part 315, *Dam Safety*
- Part 91, Soil Erosion and Sedimentation Control

The USACE has the authority to regulate activities within the waters of the United States under the following statutes:

- Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)
- Section 404 of the Clean Water Act (33 U.S.C. 1344)

Complete all items in Sections 1 through 9, on pages 1 and 2 of the application (italicized words are defined in Appendix E):

- Please **print** all information and use **black, blue, or red ink**.
- Make sure you:
 - Provide the Township, Range, Section, and Property Tax Identification Numbers required in Section 1.
 - Provide the requested information for all *adjacent and impacted property owners* in Section 8.
 - Print your name and sign and date your application in Section 9. If applicant is a corporation, include title of authorized representative.

Prepare maps and drawings with black or blue ink and provide adequate detail for review:

- Read and follow the "**General Instructions for all Drawings**" on page 1 of Appendix B.
- Review the sample site location maps in Sample Drawing 1 and prepare a site location map for your project location.
- Prepare an Overall Site Plan following the instructions on page 1 of Appendix B.
- Review the Plan View and Cross-Section (elevation) Sample Drawings 2 through 23 in Appendix B for the type of information required for your project.
- Prepare site-specific Plan View and Cross-Section Drawings for your proposed project showing existing and proposed details.

Complete project specific information:

- Complete items in Sections 10 through 21 on pages 3 through 7 that apply to your project following the instructions at the beginning of each section. The instructions for each sample drawing in Appendix B indicates the application sections you will most likely need to complete.
- If your project is located on a Great Lake, elevations must be provided in IGLD 85. If the elevation is surveyed, please describe the reference point or benchmark used, and its elevation. If the elevation is from a still water elevation, please note this and provide observed water elevation and date of observation. For observed Great Lake water elevations in IGLD 85 visit the USACE website under "water levels". On inland waters, generally use NGVD 29 or a local datum, NGVD 29 or IGLD 85 must be used for *Section 10 Waters*. The state building code requires an Elevation Certificate for any building construction or addition in the floodplain. This form can be found at www.fema.gov/library/rlvcert.pdf.

To prevent processing delays, make sure only the following items are mailed to the PCU at the address below, label each attachment with applicant's name and date:

- Pages 1 and 2 of the application.
- Pages 3 through 7 of the application that you have provided information on.
- The Site Location Map, Overall Site Plan, Plan View and Cross-Section Drawings, and additional information sheets on 8.5 x 11 standard weight paper suitable for photocopying for public notice purposes. If larger drawings or blueprints are required to show adequate detail for review, submit 5 full size copies.
- An authorization letter from the property owner if someone other than the property owner is signing the application.
- A check made payable to the **State of Michigan** (refer to Appendix C for the correct permit application filing fee).

**MDEQ
 LWMD PCU
 P.O. BOX 30204
 LANSING, MI 48909-7704**

To reduce the processing time:

- Please flag the area for site inspection including the property corners, proposed road or driveway centerlines, and areas of proposed impacts.
- Descriptive photographs of the proposed work site are optional, but may assist staff in processing your application more quickly - e.g., showing vegetation if wetlands are involved or the *shoreline* for shore protection projects. All photographs must be labeled with your name and date of photograph, indicate what they show, and be referenced to the site plan. Proposed activities or structure(s) may be indicated directly on the photographs using indelible markers or ink pens.



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AGENCY USE	Previous USACE Permit or File Number	Date Received	Land and Water Management Division, MDEQ File Number	AGENCY USE
	USACE File Number		Marina Operating Permit Number	
			Fee received \$	

• Print in black, blue, or red ink and complete all items in Sections 1 through 9 and those items in Sections 10 through 21 that apply to your proposed project.

1 PROJECT LOCATION INFORMATION

• Refer to your property's legal description for the Township, Range, and Section information, and your property tax bill for your Property Tax Identification Number(s).

Address		Township Name(s)	Township(s)	Range(s)	Section(s)	
City/Village	County(ies)	Property Tax Identification Number(s)				
Name of Waterbody	Project Name or Job Number	Subdivision/Plat	Lot Number	Private Claim		
Project types (check all that apply)		<input type="checkbox"/> private	<input type="checkbox"/> public/government	<input type="checkbox"/> industrial	<input type="checkbox"/> commercial	<input type="checkbox"/> multi-family
		<input type="checkbox"/> building addition	<input type="checkbox"/> new building or structure	<input type="checkbox"/> building renovation or restoration	<input type="checkbox"/> river restoration	<input type="checkbox"/> single-family
		<input type="checkbox"/> other (explain)				
The proposed project is on, within, or involves (check all that apply)		<input type="checkbox"/> a legally established County Drain (date established _____)				
<input type="checkbox"/> a stream	<input type="checkbox"/> a pond (less than 5 acres)	<input type="checkbox"/> a Great Lake or Section 10 Waters		<input type="checkbox"/> a natural river		
<input type="checkbox"/> a river	<input type="checkbox"/> a channel/canal	<input type="checkbox"/> a designated high risk erosion area		<input type="checkbox"/> a dam	<input type="checkbox"/> a structure removal	
<input type="checkbox"/> a ditch or drain	<input type="checkbox"/> an inland lake (more than 5 acres)	<input type="checkbox"/> a designated critical dune area		<input type="checkbox"/> a wetland	<input type="checkbox"/> a utility crossing	
<input type="checkbox"/> a floodway area	<input type="checkbox"/> a 100-year floodplain	<input type="checkbox"/> a designated environmental area		<input type="checkbox"/> 500 feet of an existing waterbody		

2 DESCRIBE PROPOSED PROJECT AND ASSOCIATED ACTIVITIES, AND THE CONSTRUCTION SEQUENCE AND METHODS

• Attach separate sheets, as needed, including necessary drawings, sketches, or plans.

3 APPLICANT, AGENT/CONTRACTOR, AND PROPERTY OWNER INFORMATION

• The applicant can be either the property owner or the person or company that proposes to undertake the activity.
 • If the applicant is a corporation, both the corporation and its owner must provide a written document authorizing the agent/contractor to act on their behalf.

Applicant (individual or corporate name)	Agent/Contractor (firm name and contact person)
Mailing Address	Address
City State Zip Code	City State Zip Code
Daytime Telephone Number with Area Code	Daytime Telephone Number with Area Code
Fax E-mail	Fax E-mail
Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? <input type="checkbox"/> No <input type="checkbox"/> Yes (If No, provide a letter signed by the property owner authorizing the agent/contractor to act on his or her behalf or a copy of easements or right-of-ways. If multiple owners, please attach all property owners' names, mailing addresses, and telephone numbers.)	
Property Owner's Name (If different from applicant)	Mailing Address
Daytime Telephone Number with Area Code	City State Zip Code

4 PROPOSED PROJECT PURPOSE, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

• The purpose must include any new development or expansion of an existing land use.
 • Include a description of alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative construction technologies; alternative project layout and design; alternative locations; local land use regulations and infrastructure; and pertinent environmental and resource issues.
 • For utility crossings, include both alternative routes and alternative construction methods.



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 apply**) 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 cottage/cabin pole barn none other (describe) _____

Color _____ Color of adjacent property house and/or buildings _____

House number _____ Address is visible on house garage mailbox sign other _____

Street name _____ Fire lane number _____ Lot number _____

How can your site be identified if there is no visible address? _____

Provide directions to the project site, with distances from the best and nearest visible landmark and waterbody _____

Does project cross boundaries of two or more political jurisdictions? (City/Township, Township/Township, County/County, etc.)

No Yes (If Yes, list jurisdiction names.)

6 List all other federal, interstate, state, or local agencies authorizations required for the proposed activity, including all approvals or denials received.

Agency	Type approval	Identification number	Date applied	Date approved / denied	If denied, reason for denial
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7 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 regulated area? No Yes

If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s) (M/D/Y)

Were the regulated activities conducted under a MDEQ permit?

No Yes

If Yes, list the MDEQ permit number

Are you aware of any unresolved violations of environmental law or litigation involving the property? No Yes (If Yes, please explain)

8 PUBLIC NOTIFICATION (Attach additional sheets if necessary)

- 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 beyond your property line.

Property Owner's Name	Mailing Address	City	State	Zip Code
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Name of Established Lake Board or Lake Association and the Contact Person's name, phone number, and mailing address

9 APPLICANT'S CERTIFICATION

READ CAREFULLY BEFORE SIGNING

I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application, that it is true and accurate, and, to the best of my knowledge, is in compliance with the State Coastal Zone Management Program and the National Flood Insurance Program. I understand 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. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the MDEQ and the USACE to enter upon said property in order to inspect the proposed activity site and the completed project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, 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.

- All applicants must complete all the items in Sections 1 through 9 on pages 1 and 2 of this application.
- Complete those items in Sections 10 through 21 that apply to your project. It is necessary to submit only those pages where you have provided information.
- Please list here the application page numbers being submitted and a brief description of other attachments included with your application.

Property Owner

Agent/Contractor

Corporation - Title _____

Printed Name

Signature

Date



10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE

- Check boxes A through N that may be applicable to your project and provide the requested information.
If your project may affect wetlands, also complete Section 12.
Provide an overall site plan showing existing lakes, streams, wetlands, and other water features; existing structures; and the location of all proposed structures, land change activities and soil erosion and sedimentation control measures.
On a Great Lake use IGLD 85 surveyed converted from observed still water elevation. On inland waters, NGVD 29 local datum other

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) and divide by 27.
Attach both plan and cross-section views to scale showing maximum and average fill dimensions.

(Check all that apply) floodplain fill wetland fill riprap seawall, bulkhead, or revetment bridge or culvert
boat launch off-shore swim area beach sanding boatwell crib dock other

Fill dimensions (ft) length width maximum depth Fill volume (cu yd) Maximum water depth in fill area (ft)

Type of clean fill pea stone sand gravel wood chips other Will filter fabric be used under proposed fill? No Yes (If Yes, type)

Source of clean fill on-site, If on-site, show location on site plan commercial other, If other, attach description of location

Fill will extend feet into the water from the shoreline and upland feet out of the water.

B. PROJECTS REQUIRING DREDGING OR EXCAVATION (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) and divide by 27.
Attach both plan and cross-section views to scale showing maximum and average dredge or excavation dimensions.
The applicant will be notified if sediment sampling will be required.

(Check all that apply) floodplain excavation wetland dredge or draining seawall, bulkhead, or revetment
navigation boat well boat launch other

Dredge volume (cu yd) Method 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 date and permit number, if available)
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 how much?)

C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 17, 22, and 23. Others may apply)

Riprap waterward of the shoreline OR ordinary high water mark Dimensions (ft) length width depth Volume (cu yd)

Riprap landward of the shoreline OR ordinary high water mark Dimensions (ft) length width depth Volume (cu yd)

Type of riprap 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) riprap seawall/bulkhead revetment

E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)

Type open pile filled crib Seasonal structure? No Yes

Proposed structure dimensions (ft) length width Dimensions of nearest adjacent structures (ft) length width

F. BOAT WELL (No Sample Drawing available)

Type of bank stabilization wood steel concrete vinyl riprap other
Boat well dimensions (ft) length width depth Number of boats

Volume of backfill behind sidewall stabilization (cu yd) Distances of boat well from adjacent property lines (ft)

G. BOAT LAUNCH (No Sample Drawing available)

(check all that apply) new existing public private commercial Type of material concrete wood stone other

Overall boat launch dimensions (ft) length width depth Boat launch dimensions (ft) below ordinary high water mark length width depth

Distances of launch from both property lines (ft) Number of skid piers Skid pier dimensions (ft) width length

H. BOAT HOIST (No Sample Drawing available)

(Check all that apply) seasonal permanent cradle side lifter other located on seawall dock bottomlands

I. BOARDWALKS AND DECKS IN WETLANDS OR FLOODPLAINS (See Sample Drawings 5 and 6)

(Check all that apply) boardwalk deck wetlands floodplain Boardwalk or deck is on fill piling

10 Continued - PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE

J. INTAKE PIPES (See Sample Drawing 16) **OUTLET PIPES** (See Sample Drawing 22)

Type <input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> pipe <input type="checkbox"/> other _____	If outlet pipe, discharge is to <input type="checkbox"/> wetland <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain, or river <input type="checkbox"/> Great Lake <input type="checkbox"/> other _____
Dimensions of headwall OR end section (ft) length _____ width _____ depth _____	Number of pipes _____ Pipe diameters and invert elevations _____

K. MOORING AND NAVIGATION BUOYS (No Sample Drawing available)

- Provide an overall site plan showing the distances between each buoy, distances from the shore to each buoy, and depth of water at each buoy in feet.
- Provide cross-section drawing(s) showing anchoring system(s) and dimensions.

Number of buoys _____	Type of anchor system _____	Purpose of buoy <input type="checkbox"/> mooring <input type="checkbox"/> navigation
Dimensions of buoys (ft) width _____ height _____		Do you own the property along the <i>shoreline</i> ? <input type="checkbox"/> No <input type="checkbox"/> Yes (If No, you must provide an authorization letter from the property owner(s))

L. GROINS (No Sample Drawing available)

- Provide an overall site plan showing the distances (ft) of the outermost *groins* from the property lines, distances between *groins*, length and width of each *groin*, and the distance from the existing toe of the bluff to the lakeward end of the *groins*.
- If existing *groins* are located on adjacent properties, provide distances (ft) from closest neighboring *groin* to your property lines on the site plan. Provide *cross-section* views showing the length and height of each *groin* and the height of *groin* ends above the observed water level (date and time). If step down type, show the height of each section above the observed water level.

Number of <i>groins</i> _____	Type of <i>groin</i> <input type="checkbox"/> steel <input type="checkbox"/> wood <input type="checkbox"/> other _____	Will <i>groin</i> be placed on a foundation? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, dimensions of foundation (ft)) length _____ width _____ height _____
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M. FENCES IN WETLANDS, STREAMS, OR FLOODPLAINS (No Sample Drawing available)

- Provide an overall site plan showing the proposed fencing through wetlands, streams, or *floodplains*.
- Provide drawing of fence profile showing the design, dimension, post spacing, board spacing, and distance from ground to bottom of fence (if in a *floodplain*).

(check all that apply) <input type="checkbox"/> wetlands <input type="checkbox"/> streams <input type="checkbox"/> <i>floodplains</i>	Total length (ft) of fence through wetlands _____ streams _____ <i>floodplains</i> _____	Fence height (ft) _____	Fence type and material _____
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N. OTHER - e.g., *structure removal, marine railway, low sand trap wall, breakwater*, and structural foundations in wetlands or *floodplains*

11 CONSTRUCTION OF A NEW LAKE OR POND (See Sample Drawings 4 and 15)

Which best describes your proposed waterbody use **(check all that apply)**

wildlife *stormwater retention basin* *stormwater detention basin* recreation wastewater basin other _____

Water source for lake/pond

groundwater natural springs *Inland Lake or Stream* *stormwater runoff* pump sewage other _____

Will project involve construction of a *dam, dike, outlet control structure, or spillway*? No Yes **(If Yes, complete Section 17)**

12 ACTIVITIES THAT MAY IMPACT WETLANDS

- For information on the MDEQ's *Wetland Assessment Program*, please visit the LWMD website or call 517-241-8485.

(check all that apply) fill (Section 10A) dredge or excavation (Section 10B) boardwalk or deck (Section 10I)
 fences (Section 10M) bridges and culverts (Section 14) draining surface water other _____

Has a professional wetland delineation been conducted for this parcel? No Yes **(If Yes, please provide a copy; if federal method was used, supply data sheets)**

Applicant purchased property before **OR** after October 1, 1980.

Has the MDEQ conducted a *wetland assessment* for this parcel? No Yes **(If Yes, please provide a copy)**

Describe the wetland impacts, proposed use or development, and efforts to avoid/minimize impacts.

Is any grading or mechanized land clearing proposed? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, please show locations on site plan)	Has any of the proposed grading or mechanized land clearing been completed? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, please label and show locations on site plan)				
<ul style="list-style-type: none"> • Complete the wetland dredge and wetland fill dimension information for each impacted wetland area. Attach additional sheets if necessary and label the impacted wetland areas on a site plan drawn to scale. Please attach at least one typical <i>cross-section</i> for each wetland dredge and/or fill area. (See Sample Drawings 8 & 9) • Also complete Section 10A for fill and Section 10B for dredge or excavation activities. • If dredge material will be disposed of on site, please show the location on site plan in an <i>upland</i> area and include <i>soil erosion and sedimentation control measures</i>. 					
Wetland dredge dimensions	maximum length (ft) _____	maximum width (ft) _____	dredge area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	average depth (ft) _____	dredge volume (cu yd) _____
Wetland fill dimensions	maximum length (ft) _____	maximum width (ft) _____	fill area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	average depth (ft) _____	fill volume (cu yd) _____
Total wetland dredge area <input type="checkbox"/> acres <input type="checkbox"/> sq ft			Total wetland dredge volume (cu yd) _____		
Total wetland fill area <input type="checkbox"/> acres <input type="checkbox"/> sq ft			Total wetland fill volume (cu yd) _____		
The proposed project will be serviced by <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system (If septic system, show existing and new or expanded system on plans)			If septic system , has application been made to the County Health Department for a permit? <input type="checkbox"/> No <input type="checkbox"/> Yes		If Yes , has permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, provide copy)



13 FLOODPLAIN ACTIVITIES (See Sample Drawing 5. Others may apply)
 • Please attach additional sheets with the requested information when multiple *floodplain* activities are included in this application.

(check all that apply) fill dredge wetland impacts other _____

Site is _____ feet above *ordinary high water mark* (OHWM) OR observed water level _____. Date of observation _____ (M/D/Y)

Fill volume below the 100-year floodplain elevation (cu yd)	Compensating cut volume below the 100-year floodplain elevation (cu yd)
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14 BRIDGES AND CULVERTS (Including Foot and Cart Bridges)

- Provide detailed site-specific drawings of existing **and** proposed *Plan View* (Sample Drawing 14A), *Elevation View* (Sample Drawing 14B), *Stream and Floodplain Cross-Section* (Sample Drawing 14C), *Stream Profile* (Sample Drawing 14D) and *Floodplain Fill* (Sample Drawing 5) at a scale adequate for detailed review.
- Provide the requested information that applies to your project. If there is not an existing *structure*, leave the "Existing" column blank.
- If you choose to have a Licensed Professional Engineer "certify" that your project will not cause a "*harmful interference*" for a range of flood discharges up to and including the 100-year flood discharge then you must use the "Required Certification Language". A copy is available on our website under "Permit Application" or you may request a copy by phone, email, or mail. A hydraulic report supporting this certification may also be required.
- Please attach additional sheets with the requested information when multiple crossings are included in this application.

		Existing	Proposed			Existing	Proposed	
Culvert type (box, circular, arch) and material (corrugated metal, timber, concrete, etc.)				Bridge span (length perpendicular to stream) OR culvert <input type="checkbox"/> width <input type="checkbox"/> diameter (ft)				
Bridge type (concrete box beam, timber, concrete I-beam, etc.)				Bridge width (parallel to stream) OR culvert length (ft)				
Entrance design (projecting, mitered, wingwalls, etc.)				Bridge <i>rise</i> (from bottom of beam to streambed) OR Culvert <i>rise</i> (from top of culvert to streambed) (ft)				
Total <i>structure waterway opening</i> above streambed (sq ft)								
<input type="checkbox"/> elevation of culvert crown	Upstream			Higher elevation of <input type="checkbox"/> culvert invert OR <input type="checkbox"/> streambed within culvert (ft)	Upstream			
	Downstream				Downstream			
Elevation of road grade at <i>structure</i> (ft)				Distance from low point of road to mid-point of bridge crossing (ft)				
Elevation of low point in road (ft)								
Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C)			Average stream width at OHWM outside the influence of the structure (ft)				upstream	downstream

Reference datum used (show on plans with description) NGVD 29 IGLD 85 (Great Lakes coastal areas) local

High water elevation – describe reference point and highest known water level above or below reference point and date of observation.

15 STREAM, RIVER, OR DRAIN CONSTRUCTION ACTIVITIES (No sample drawing available)

- Complete Section 10A for fill, Section 10B for dredge or excavation, and Section 10C for *riprap* activities.
- If side casting or other proposed activities will impact wetlands or *floodplains*, complete Sections 12 and 13, respectively.
- Provide an overall site plan showing existing lakes, streams, wetlands, and other water features; existing *structures*; and the location of all proposed *structures* and land change activities. Provide *cross-section* (elevation) drawings necessary to clearly show existing and proposed conditions. Be sure to indicate drawing scales.
- For activities on legally established county drains, provide original design and proposed dimensions and elevations.

(check all that apply) maintenance improvement relocation enclosure new drain wetlands other _____

Dimensions (ft) of existing stream/drain channel to be worked on. length _____ width _____ depth _____

Dimensions (ft) of new, relocated, or enclosed stream/drain channel. length _____ width _____ depth _____

Existing channel average water depth in a normal year (ft)	Proposed side <i>slopes</i> (vertical / horizontal)
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How will *slopes* and bottom be stabilized?

Will old/enclosed stream channel be backfilled to top of bank grade? No Yes

If an enclosed *structure* is proposed, check type? concrete corrugated metal plastic other _____

Will spoils be disposed of on site? No Yes (If Yes, show location of spoils on site plan in an *upland* area.)

Reference datum used (show on plans with description) NGVD 29 IGLD 85 (Great Lakes coastal areas) local _____



16 DRAWDOWN OF AN IMPOUNDMENT

- If wetlands will be impacted, also complete Section 12.

Type of drawdown over winter temporary one-time event annual event permanent (*dam removal*) other _____

Reason for drawdown _____

Has there been a previous drawdown? No Yes (If Yes, provide date (M/Y)) _____ Previous permit number, if known _____

Does waterbody have established legal lake level? No Yes Not Sure _____ Dam ID Number, if known _____

Extent of vertical drawdown (ft)	Impoundment design head (ft)	Number of adjacent or impacted property owners
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Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
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Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
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Type of outlet discharge structure to be used <input type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid-depth	Impoundment area at normal water level (acres)	Sediment depth behind impoundment discharge structure (ft)
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17 DAM, EMBANKMENT, DIKE, SPILLWAY, OR CONTROL STRUCTURE ACTIVITIES (See Sample Drawing 15)

- If wetlands will be impacted, also complete Section 12.
- Please attach site-specific conceptual plans for construction of a new *dam*, reconstruction of a *failed dam*, or enlargement of an existing *dam* for resource impact review. Detailed engineering plans are required once the activity has been determined to be permissible from an environmental standpoint.
- Please attach detailed engineering plans for a *dam repair*, *dam alteration*, *dam abandonment*, or *dam removal*.

Which one best describes your project? new *dam* construction reconstruction of a *failed dam* enlargement of an existing *dam*
 dam repair *dam alteration* *dam abandonment* *dam removal* other _____

Dam ID Number If known	Type of outlet discharge structure <input type="checkbox"/> surface <input type="checkbox"/> bottom <input type="checkbox"/> mid depth	Will proposed activities require a drawdown of the waterbody to complete the work? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, also complete Section 16)
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Riprap Volume (cu yd)	Dredging/excavation Volume (cu yd)	Fill volume (cu yd)	Does structure allow complete drainage of waterbody <input type="checkbox"/> No <input type="checkbox"/> Yes
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Benchmark elevation (ft)	Datum used <input type="checkbox"/> Local <input type="checkbox"/> NGVD 29 <input type="checkbox"/> other _____	Describe benchmark and show on plans
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Have you engaged the services of a Licensed Professional Engineer? No Yes (If Yes, name, registration number, and mailing address) _____

Will a water diversion during construction be required? No Yes (If Yes, describe how the stream flow will be controlled through the *dam* construction area during the proposed project activities) _____

• The following additional information is required for a new *dam*, reconstruction of a *failed dam*, or enlargement of an existing *dam*.

Describe the type of *dam* and how you will design the *dam* and embankment to control seepage through and underneath the *dam*.

Embankment top elevation (ft)	Streambed elevation at downstream embankment toe (ft)	Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft)
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Embankment Length (ft)	Embankment top width (ft)	Embankment bottom width (ft)	Embankment slopes (vertical / horizontal) Upstream _____ Downstream _____
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Proposed normal pool elevation (ft)	Impoundment flood elevation (ft)	Maximum vertical drawdown capability (ft) (attach operational procedure of the proposed structure if available)
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Have soil borings been taken at <i>dam</i> location? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, submit results with permit application)	Will a cold water <i>underspill</i> be provided? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, invert elevation _____ ft)	Do you have flowage rights to all proposed flooded property at the design flood elevation? <input type="checkbox"/> No <input type="checkbox"/> Yes
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18 UTILITY CROSSINGS (See Sample Drawings 12 and 13)

- If side casting is required, complete Subsections 10A and 10B. If spoils will be placed in wetlands or wetlands may be impacted, complete Section 12.
- Please attach additional sheets with the requested information as needed for multiple crossings.

What method will be used to construct the crossings?
 flume plow open trench jack and bore directional drilling

Crossing of Inland Lake or Stream floodplain
 international waters wetlands (also complete Section 12)

Type	Number of wetland crossings	Number of inland lake or stream crossings	Pipe diameter (inches)	Pipe length per crossing (feet)	Distance below streambed or wetland (inches)
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<input type="checkbox"/> sanitary sewer					
<input type="checkbox"/> storm sewer					
<input type="checkbox"/> watermain					
<input type="checkbox"/> cable					
<input type="checkbox"/> oil/gas pipeline					



19 MARINA CONSTRUCTION AND OPERATING PERMIT INFORMATION (See Sample Drawing 21)

- *Marinas* located on one of the Great Lakes, including Lake St. Clair, may be required to secure leases or conveyances from the state of Michigan to place *structures* on the bottomlands.
- If you have a current pump-out agreement with another *marina* facility, please enclose a copy.
- Please attach a copy of the property legal description or a property boundary survey report to your application.

Marina owner			Marina name		
Mailing address			Location address		
City	State	Zip Code	City	State	Zip Code
Marina owner's daytime telephone number with area code			Marina's daytime telephone number with area code		
Check the reasons for submitting this application <input type="checkbox"/> Owner's name change <input type="checkbox"/> Construction of a new <i>marina</i> <input type="checkbox"/> Issuance of a new <i>Marina Operating Permit</i> <input type="checkbox"/> Expansion/modification of an existing <i>marina</i> <input type="checkbox"/> Reissuance of a <i>Marina Operating Permit</i>			Current Marina Operating Permit Number _____ Expiration Date (M/D/Y) _____		
	Existing	Proposed		Existing	Proposed
Number of boat slips/wells			Are sanitary pump-out facilities available?	<input type="checkbox"/> No <input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> Yes
Number of launch ramps/lanes			Number of hoist/take-out wells		
Number of mooring buoys			Number of gas pumps		
Lineal feet of broadside dockage			Name of <i>marina</i> insurance company		
Number of parking spaces					

20 HIGH RISK EROSION AND CRITICAL DUNE AREAS (See Sample Drawings 19 and 20, also Sample Drawing 9 if wetlands are impacted)

- Construction in *critical dune areas* on *slopes* greater than a 1-foot vertical *rise* in a 3-foot horizontal plane (33 percent) are prohibited without a special exception.
- Construction in *critical dune areas* on *slopes* that measure from a 1-foot vertical *rise* in a 4-foot horizontal plane (25 percent) to less than a 1-foot vertical *rise* in a 3-foot horizontal plane (33 percent) requires plans prepared by a registered architect or licensed professional engineer.
- All property boundaries and proposed *structure* corners, septic system, water well, and driveway locations must be staked before the MDEQ site inspection.
- Additional information, including the building construction plans, may be required to complete the application review.
- The use of federal funds includes any federally insured mortgages such as the Veterans Administration (VA) or Federal Housing Administration (FHA).

Parcel dimensions (ft) width	depth	Property is a <input type="checkbox"/> platted lot <input type="checkbox"/> unplatted parcel	If platted lot, year platted	Length of shore frontage (ft)
Type of construction activities	<input type="checkbox"/> home	<input type="checkbox"/> garage <input type="checkbox"/> driveway	<input type="checkbox"/> septic <input type="checkbox"/> addition <input type="checkbox"/> renovation	<input type="checkbox"/> other _____
The proposed project will be serviced by <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system (If septic system , show existing and new or expanded system on plans)	If septic system , has application been made to the County Health Department for a permit? <input type="checkbox"/> No <input type="checkbox"/> Yes		If Yes , has permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes , provide copy)	Number of individual living-units in proposed building
Existing construction is on <input type="checkbox"/> pilings <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> crawl space	Proposed new construction will be on <input type="checkbox"/> pilings <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> crawl space			
Existing construction material above foundation wall <input type="checkbox"/> stud frame <input type="checkbox"/> log <input type="checkbox"/> block <input type="checkbox"/> other _____	Proposed new construction material above foundation wall <input type="checkbox"/> stud frame <input type="checkbox"/> log <input type="checkbox"/> block <input type="checkbox"/> other _____			
Existing siding material <input type="checkbox"/> wood <input type="checkbox"/> vinyl <input type="checkbox"/> block <input type="checkbox"/> other _____	Proposed new siding material <input type="checkbox"/> wood <input type="checkbox"/> vinyl <input type="checkbox"/> block <input type="checkbox"/> other _____			
Area of the existing foundation, excluding attached garage (sq ft)	Area of the proposed foundation, excluding attached garage (sq ft)			
Area of the existing garage foundation (sq ft)	Area of the proposed garage foundation (sq ft)			
If renovating or restoring existing <i>structure</i> , renovation or restoration cost \$ _____	Current <i>structure</i> replacement value \$ _____	Tax assessed value of existing <i>structure</i> (excluding land value) \$ _____		Assessment year _____
Are federal funds being used to finance any portion of the proposed project? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes , please identify source)				
Date by which project location will be staked (M/D/Y)				

21 ACTIVITIES IN DESIGNATED ENVIRONMENTAL AREAS (No Sample Drawings Available)

- Many designated *environmental areas* are completely or partially wetlands. Be sure to complete Section 12 if your proposed activities will also occur in wetlands.
- If you are proposing any alteration in a designated *environmental area*, please attach a detailed site plan.

(Check all that apply)

<input type="checkbox"/> placement of <i>structures</i>	<input type="checkbox"/> grading or other soil alteration	<input type="checkbox"/> alteration of natural drainage
<input type="checkbox"/> alteration of vegetation	<input type="checkbox"/> boardwalk or deck	<input type="checkbox"/> driveway or road
<input type="checkbox"/> dredge <input type="checkbox"/> fill	<input type="checkbox"/> culvert	<input type="checkbox"/> other _____

Has the MDEQ staff or anyone else conducted a *wetland assessment* for this parcel? No Yes (If **Yes**, please provide copy of response)

Describe the proposed activity.
