



AGENCY USE	Previous USACE File Number	Date Received	DEQ File Number
	USACE File Number		Fee received \$

Validate that all parts of this checklist are submitted with the application package. Fill out application and additional pages as needed.

- All items in Sections 1 through 9 are completed.
- Project-specific Sections 10 through 20 are completed.
- Dimensions, volumes, and calculations are provided for all impact areas.
- All information contained in the headings for the appropriate Sections (1-20) are addressed, and identified attachments (➔) are included.
- Map, site plan(s), cross sections; one set must be black and white on 8 1/2 by 11 inch paper; photographs.
- Application fee is attached.

1 Project Location Information For Latitude, Longitude, and TRS info anywhere in Michigan see www.mcqi.state.mi.us/wetlands/

Project Address (road, if no street address) <i>2157 Crystal Cove Dr</i>	Zip Code <i>49010</i>	Municipality (Township/Village/City) <i>Allegan</i>	County <i>Allegan</i>
Property Tax Identification Number(s)	Latitude <i>42.578218</i> N	Township/Range/Section (TRS) T ___ N or S; R ___ E or W;	
Subdivision/Plat and Lot Number <i>Lot #8 Crystal Cove Dr</i>	Longitude <i>- 85.786563</i> W	Sec _____ OR Private Claim # _____	

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name) <i>Jordan Notenbaum</i>	Agent/Contractor (firm name and contact person)
Mailing Address <i>1681 Turtle Head LN</i>	Mailing Address
City <i>Wayland</i> State <i>MI</i> Zip Code <i>49348</i>	City State Zip Code
Contact Phone Number Fax <i>616-885-2656</i>	Contact Phone Number Fax
Email <i>jordan@mobiledefenders.com</i>	E-mail
<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes 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? ➔ If no, attach letter(s) of authorization from all property owners including the owner of the disposal site.	
Property Owner's Name (If different from applicant)	Mailing Address
Contact Phone Number	City State Zip Code

3 Project Description

Project Name <i>2157 Crystal Cove Dr (Miner Lake, Allegan MI)</i>	Preapplication File Number <i>3228919359169462137</i> - - -P
Name of Water body <i>Miner Lake</i>	Date project staked/flagged

The proposed project is on, within, or involves (check all that apply)	Project Use
<input checked="" type="checkbox"/> an inland lake (5 acres or more) <input type="checkbox"/> a Great Lake or Section 10 Waters <input type="checkbox"/> a pond (less than 5 acres) <input type="checkbox"/> a wetland <input type="checkbox"/> a stream, river, ditch or drain <input type="checkbox"/> a 100-year floodplain <input type="checkbox"/> a legally established County Drain <input type="checkbox"/> a dam Date Drain was established <input type="checkbox"/> a designated high risk erosion area <input type="checkbox"/> a channel/canal <input type="checkbox"/> a designated critical dune area <input type="checkbox"/> 500 feet of an existing water body <input type="checkbox"/> a designated environmental area	<input checked="" type="checkbox"/> private <input type="checkbox"/> commercial <input type="checkbox"/> public/government <input type="checkbox"/> project is receiving federal/state transportation funds <input type="checkbox"/> Wetland Restoration <input type="checkbox"/> other

Indicate the type of permit being applied for: General Permit Minor Project Individual (All other projects.) ➔ See Appendix C.

Written Summary of All Proposed Activities *I would like to clear approximately 50% of the cat-tails/vegetation along the frontage of our new home site. We would like to add a floating dock, a boat lift, and a ski-doo port. We would also like to have some frontage that is clear of vegetation for general enjoyment of the lake.*

Construction Sequence and Methods *We would utilize mechanical harvesting to pull the weeds/vegetation up from their roots and remove them completely. We would hire a licensed, reputable company to complete the work.*

**4 Project Purpose, Use and Alternatives** *Attach additional sheets as necessary.*

Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use.
We recently bought this property and will be moving into our new home (under construction) within the next 30 days.

Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods.
There are not many alternatives to clearing these noxious plants because they cover the entire frontage of our property line. We will have no ability of lake enjoyment unless the weeds are cleared

5 Locating Your Project Site *Attach a legible black and white map with a North arrow.*

Names of roads of closest intersection *122nd Ave and 26th Street (Allegan MI)*

Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *East 2500 feet on 122nd ave from 26th street to Crystal Cove Dr*

Description of buildings on the site (color; 1 or 2 story, other)

Blue, two-story house

Description of adjacent landmarks or buildings (address; color; etc)

Red two-story house next door

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

6 Easements and Other Permits

No Yes Is there a conservation easement or other easement, deed restriction, lease, or other encumbrance upon the property?
 ➔ If yes, attach a copy. Provide copies of court orders and legal lake levels if applicable.

List all other federal, interstate, state, or local agency authorizations including required assurances for Critical Dune Area projects.

Agency	Type of Approval	Number	Date Applied	Date approved /denied	Reason for denial

7 Compliance

If a permit is issued, when will the activity begin? (M/D/Y) *4/01/2017*

Proposed completion date (M/D/Y) *8/01/2017*

No Yes Has any construction activity commenced or been completed in a regulated area?

➔ If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s).

No Yes Were the regulated activities conducted under a DEQ and/or USACE permit?

➔ If Yes, list the permit numbers

No Yes Are you aware of any unresolved violations of environmental law or litigation involving the property?

➔ If Yes, attach explanation.

8 Adjoining Property Owners *Provide current mailing addresses. Attach additional sheets/labels for long lists.*

Established Lake Board

Contact Person

Mailing Address

City

State and Zip Code

Lake Association

Sam Martin

616-378-0356

List all adjoining property owners.

If you own the adjoining lot, provide the requested information for the first adjoining parcel that is not owned by you.


Property Owner's Name	Mailing Address	City	State and Zip Code
<i>Ray and Pam Hoffman</i>	<i>616-299-2750</i>		



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, that it is in compliance with the State Coastal Zone Management 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 DEQ, USACE, and/or their agents or contractors to enter upon said property in order to inspect the proposed activity site before and during construction and after the completion of the 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.

<input checked="" type="checkbox"/> Property Owner <input type="checkbox"/> Agent/Contractor <input type="checkbox"/> Corp. or Public Agency / Title	Printed Name <i>Jordan Notenbaum</i>	Signature 	Date <i>2/24/2017</i>
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10 Projects Impacting Inland Lakes, Streams, Great Lakes, Wetlands or Floodplains

- Complete only those sections A through M applicable to your project.
- If your project impacts wetlands also complete Section 12. If your project impacts regulated floodplains also complete Section 13.
- 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. Example: (25 ft long x 10 ft wide x 2 feet deep) / 27 = 18.5 cubic yards
- Some projects on the Great Lakes require an application for conveyance prior to Joint Permit Application completeness.
 - Provide a black and white overall site plan, with cross-section and profile drawings. Show 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. Review Appendix B and EZ Guides for aid in providing complete site-specific drawings.
 - Provide tables for multiple impact areas or multiple activities such as multiple fill areas or multiple culverts. Include your calculations.

Water Level Elevation

On inland waters NGVD 29 NAVD 88 other Observed water elevation (ft) date of observation (M/D/Y)
 On a Great Lake IGLD 85 surveyed converted from observed still water elevation.

A. PROJECTS REQUIRING FILL (See All Sample Drawings)

- Attach a site plan and cross-section views to scale showing maximum and average fill dimensions with calculations.
- For multiple impact areas on a site provide a table with location, dimensions and volumes for each fill area.

Purpose bioengineered shore protection boat ramp boat well bridge or culvert crib dock
 riprap seawall swim area other

Dimensions of fill (ft) Length <u>10</u> Width <u>25</u> Maximum Depth <u>12 inches</u>	Total volume (cubic yards) <u>9.25</u>	Volume below OHWM (cubic yards) <u>5.25</u>
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Maximum water depth in fill area (ft) <u>2 ft</u>	Area filled (sq ft)	Will filter fabric be used under proposed fill? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (If Yes, type) <u>Polypropylene fabric</u>
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Fill will extend 0 feet into the water from the shoreline and upland 2 feet out of the water.

Type of clean fill peastone 100 % sand % gravel % other

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

B. PROJECTS REQUIRING DREDGING OR EXCAVATION (See Sample Drawings)

- Refer to www.mi.gov/jointpermit for spoils disposal and authorization requirements.
- Attach a site plan and cross-section views to scale showing maximum and average dredge or excavation dimensions with calculations.
- For multiple impact areas on a site provide a table with location, dimensions and volumes for each dredge/excavation area.

Purpose boat ramp boat well bridge or culvert maintenance dredge
 navigation pond/basin other

Dimensions (ft) Length <u>10</u> Width <u>35</u> Maximum Depth <u>20 inches</u>	Total volume (cu yds) <u>62</u>	Volume below OHWM (cu yds) <u>62</u>
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Has this same area been previously dredged? No Yes If Yes, provide date and permit number:

Will the previously dredged area be enlarged? No Yes If Yes, when and how much?

Is long-term maintenance dredging planned? No Yes If Yes, how often? Every 5yrs

Dredge or Excavation Method Hydraulic Mechanical other

Spoils Disposal
 Dredged or excavated spoils will be placed on-site landfill USACE confined disposal facility other upland off-site
 For disposal, provide a ➤ Detailed spoils disposal area location map and site plan with property lines.
 ➤ Letter of authorization from property owner of spoils disposal site, if disposed off-site.

For volumes less than 5,000 cu yards, has proposed dredge material been tested for contaminants within the past 10 years?
 No Yes ➤ If Yes, provide test results with a map of sampling locations.

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

Riprap water ward of the ordinary high water mark: dimensions (ft) length width depth	Volume(cu yd)
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Riprap landward of the ordinary high water mark: dimensions (ft) length width depth	Volume(cu yd)
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Type and size of riprap (inches) field stone angular rock other Will filter fabric or pea stone be used under proposed riprap?
 No Yes, Type



<input type="checkbox"/> D. SHORE PROTECTION PROJECTS (See EZ Guides and Sample Drawings 2, 3, and 17. Complete Sections 10A, B, and/or C.) <input type="checkbox"/> For bioengineering projects include the list of native plants/seeds, if available.			
Type and length (ft)	<input type="checkbox"/> bioengineering (ft)	<input type="checkbox"/> revetment (ft)	<input type="checkbox"/> riprap (ft) <input type="checkbox"/> seawall/bulkhead (ft)
Structure is	<input type="checkbox"/> new <input type="checkbox"/> repair <input type="checkbox"/> replacement of an existing structure	Will the existing structure be removed? <input type="checkbox"/> No <input type="checkbox"/> Yes	
Proposed Toe Stone (linear feet)	Distance of project from adjacent property lines (ft)		
Distance of project from an obvious fixed structure (example - 50 ft from SW corner of house)			
For bioengineering projects indicate the structure type <input type="checkbox"/> brush bundles <input type="checkbox"/> coir log <input type="checkbox"/> live stakes <input type="checkbox"/> tree revetment <input type="checkbox"/> other			
<input type="checkbox"/> E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10) <input type="checkbox"/> Attach a copy of the property legal description, mortgage survey, or a property boundary survey report.			
Dock Type	<input type="checkbox"/> open pile <input type="checkbox"/> filled <input type="checkbox"/> crib <input checked="" type="checkbox"/> floating <input type="checkbox"/> cantilevered <input type="checkbox"/> spring piles <input type="checkbox"/> piling clusters <input type="checkbox"/> other		
Is the structure within the applicant's riparian area interest area? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Show parcel property lines on the site plan.			
Proposed structure dimensions (ft) length	width	Use	<input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial
Dimensions of nearest adjacent structures (ft) length	width	Distance of dock from adjacent property lines (ft)	
<input type="checkbox"/> F. BOAT WELL (See EZ Guide. Complete Sections 10A and 10B)			
Dimensions (ft) length	width	depth	Number of boats <input checked="" type="checkbox"/>
Type of sidewall stabilization	<input type="checkbox"/> concrete <input type="checkbox"/> riprap <input type="checkbox"/> steel <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other		
Volume of backfill behind sidewall stabilization (cu yd)	Distance of boat well from adjacent property lines (ft)		
<input type="checkbox"/> G. BOAT RAMP (See EZ Guide. Complete sections 10A, 10B, and 10C for mattress and pavement fill, dredge, and riprap)			
Type	<input type="checkbox"/> new <input type="checkbox"/> existing <input type="checkbox"/> maintenance/improvement	Use <input type="checkbox"/> private <input type="checkbox"/> public <input type="checkbox"/> commercial	
Existing overall boat ramp dimensions (ft) length	width	depth	Type of construction material <input type="checkbox"/> concrete <input type="checkbox"/> wood <input type="checkbox"/> stone <input type="checkbox"/> other
Proposed overall ramp dimensions (ft) length	width	depth	Proposed ramp dimensions (ft) below ordinary high water mark length width depth
Number of proposed skid piers	Proposed skid pier dimensions (ft) length width		Distance of ramp from adjacent property lines (ft)
<input checked="" type="checkbox"/> H. BOAT HOIST - ROOFS (See EZ Guide)			
Type	<input checked="" type="checkbox"/> cradle <input type="checkbox"/> side lifter <input type="checkbox"/> other	Located on <input type="checkbox"/> seawall <input type="checkbox"/> dock <input checked="" type="checkbox"/> bottomlands	
Hoist dimensions, including catwalks (ft) length 25 width 10			
Area occupied, including cat walks (sq ft)		Distance of hoist from adjacent property lines (ft) 40	
Permanent Roof <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> If Yes, how is the roof supported? steel support		Maximum Roof Dimensions (ft): length 25 width 10 height 15	
<input type="checkbox"/> I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13) <input type="checkbox"/> Provide a table for multiple boardwalks and decks proposed in one project; include locations and dimensions.			
Wetlands		Floodplains	
Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Boardwalk <input type="checkbox"/> on pilings <input type="checkbox"/> on fill	Deck <input type="checkbox"/> on pilings <input type="checkbox"/> on fill
Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width	Dimensions (ft) length width
<input type="checkbox"/> J. INTAKE PIPES (See Sample Drawing 16) or OUTLET PIPES (See Sample Drawing 22)			
If outlet pipe, discharge is to <input type="checkbox"/> inland lake <input type="checkbox"/> stream, drain or river <input type="checkbox"/> overlaid flow <input type="checkbox"/> Great Lake <input type="checkbox"/> wetland <input type="checkbox"/> other			
Number of pipes	Pipe diameters and invert elevations	Does pipe discharge below the OHWM?	<input type="checkbox"/> No <input type="checkbox"/> Yes
		Is the water treated before discharge?	<input type="checkbox"/> No <input type="checkbox"/> Yes
Type	<input type="checkbox"/> headwall <input type="checkbox"/> end section <input type="checkbox"/> other	Dimensions of headwall OR end section (ft) length width height	



<input type="checkbox"/> K. MOORING and NAVIGATION BUOYS (See EZ Guide for Sample Drawing)			
<ul style="list-style-type: none"> ➤ Provide a site plan showing the distances between each buoy and from the shore to each buoy, and depth (ft) of water at each location. ➤ Provide cross-section drawing(s) showing anchoring system(s) and dimensions. 			
Purpose of buoy <input type="checkbox"/> mooring <input type="checkbox"/> navigation <input type="checkbox"/> scientific structures <input type="checkbox"/> swimming <input type="checkbox"/> other			
Number of buoys	Dimensions of buoys (ft) width height swing radius chain length		Boat Lengths Type of anchor system
Buoy Location: Latitude N Longitude -- W. ➤ Provide a table for multiple buoys.			
Do you own the property along the shoreline?		<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If No, attach an authorization letter from the property owner(s).
Do you own the bottomlands?		<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If No, attach an authorization letter from the property owner(s).
<input type="checkbox"/> L. FENCES			
<ul style="list-style-type: none"> ➤ Provide an overall site plan showing the proposed fencing through streams, wetlands or floodplains. ➤ Provide a drawing of fence profile showing the design, dimension, post spacing, mesh, and distance from ground to bottom of fence. 			
Purpose of fence <input type="checkbox"/> Airport <input type="checkbox"/> Cervidae <input type="checkbox"/> Livestock <input type="checkbox"/> Residential <input type="checkbox"/> Security <input type="checkbox"/> Other			
Total length (ft) of fence through streams wetlands floodplains		Fence height (ft)	Fence type and material
<input type="checkbox"/> M. OTHER - e.g., structure removal, maintenance or repair, aerator, dry fire hydrant, gold prospecting, habitat structures, scientific measuring devices, soil borings, or survey activities.			
Structure description, dimensions and volumes. Complete Sections 10A-C as applicable.			
11 Expansion of an Existing or Construction of a New Lake or Pond (See Sample Drawings 4 and 15)			
<ul style="list-style-type: none"> ➤ Complete Section 10J for outlets and Section 17 for water control structures. ➤ Provide elevations, cross-sections and profiles of outlets, dams, dikes, water control structures and emergency spillways to nearest water bodies. 			
Which best describes your proposed water body use (check all that apply)			
<input type="checkbox"/> mining <input type="checkbox"/> recreation <input type="checkbox"/> storm water retention basin <input type="checkbox"/> wastewater basin <input type="checkbox"/> wildlife <input type="checkbox"/> other			
Water source for lake/pond			
<input type="checkbox"/> groundwater <input type="checkbox"/> natural springs <input type="checkbox"/> Inland Lake or Stream <input type="checkbox"/> storm water runoff <input type="checkbox"/> pump <input type="checkbox"/> sewage <input type="checkbox"/> other			
Location of the lake/basin/pond <input type="checkbox"/> floodplain <input type="checkbox"/> wetland <input type="checkbox"/> stream (inline) <input type="checkbox"/> upland			
Maximum dimensions (ft) length width depth		Maximum Area: <input type="checkbox"/> acres <input type="checkbox"/> sq ft	
Has the there been a hydrologic study performed on the site?		<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide a copy.
Has the DEQ conducted a wetland assessment for this parcel?		<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide a copy or WIP number:
Has a professional wetland delineation been conducted for this parcel?		<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide a copy with data sheets.
Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site For disposal, provide a ➤ Detailed spoils disposal area location map and site plan with property lines. ➤ Letter of authorization from property owner of spoils disposal site, if disposed off-site.		



12 Activities That May Impact Wetlands (See Sample Drawings 8 & 9). Complete other Sections as applicable.

- Locate your site and wetland information with the DEQ Wetlands Map Viewer at www.mcqi.state.mi.us/wetlands/
- For information on the DEQ's Wetland Identification Program (WIP) visit www.mi.gov/wetlands.
 - Provide a detailed site plan with labeled property lines, upland and wetland areas, and dimensions and volumes of wetland impacts.
 - Complete the wetland dredge and wetland fill dimension information below for each impacted wetland area.
 - Attach tables for multiple impact areas or activities.
 - Attach at least one cross-section for each wetland dredge and/or fill area; show wetland and upland boundaries on the cross-section.

Has the DEQ conducted a wetland assessment for this parcel?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide a copy or WIP number:		
Has a professional wetland delineation been conducted for this parcel?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide a copy with data sheets		
Is there a recorded DEQ easement on the property?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide the easement number		
Did the applicant purchase the property before October 1, 1980?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, provide documentation.		
Is any grading or mechanized land clearing proposed?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, label the locations on the site plan.		
Has any of the proposed grading or mechanized land clearing been completed?	<input type="checkbox"/> No <input type="checkbox"/> Yes	➤ If Yes, label the locations on the site plan		
Proposed Activity	<input type="checkbox"/> boardwalk or deck (Section 10I) <input type="checkbox"/> bridges and culverts (Section 14) <input type="checkbox"/> dewatering <input type="checkbox"/> draining surface water <input type="checkbox"/> fences (Section 10L) <input type="checkbox"/> fill or dredge <input type="checkbox"/> septic system <input type="checkbox"/> stormwater discharge (Section 10J)	<input type="checkbox"/> designated environmental area <input type="checkbox"/> driveway / road <input type="checkbox"/> restoration <input type="checkbox"/> other		
FILL	Dimensions maximum length (ft) maximum width (ft)	Area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	Average depth (ft)	Volume (cu yd)
DREDGE	Dimensions maximum length (ft) maximum width (ft)	Area <input type="checkbox"/> acres <input type="checkbox"/> sq ft	Average depth (ft)	Volume (cu yd)
Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site For disposal, provide a ➤ Detailed spoils disposal area location map and site plan with property lines. ➤ Letter of authorization from property owner of spoils disposal site, if disposed off-site.			
Septic System	The proposed project will be serviced by: <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system ➤ Show system on plans.			
	If a private septic system is proposed, has an application for a permit been made to the County Health Department? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, has a permit been issued? <input type="checkbox"/> No <input type="checkbox"/> Yes ➤ Provide a copy of the permit.			
Describe the wetland impacts, the proposed use or development, and the alternatives considered:				
Does the project impact more than 1/3 acre of wetland? <input type="checkbox"/> No <input type="checkbox"/> Yes ➤ If Yes, submit a Mitigation Plan with the type and amount of mitigation proposed. For more information go to www.mi.gov/wetlands				
Describe how impacts to waters of the United States will be avoided and minimized:				
Describe how the impact to waters of the United States will be compensated. OR Explain why compensatory mitigation should not be required for the proposed impacts.				



13 Floodplain Activities (See Sample Drawing 5 and others. Complete other applicable sections.)

- For more information go to www.mi.gov/floodplainmanagement. This site also lists the projects and requirements for an expedited floodplain review under "Expedited Review Information for Minor Floodplain Projects."
- Examples of projects proposed within the non-floodway portions of the 100-year-floodplain which may qualify for an expedited review: Open pile decks and boardwalks; residences, commercial/industrial facilities, garages and accessory structures; parking lots; pavilions, gazebos, large community playground structures; residential swimming pools
- Examples of projects proposed within the floodway portions of the floodplain which may qualify for an expedited review: Open pile decks and boardwalks, (non-enclosed) that are anchored to prevent floatation and that do not extend over the bed and bank of a watercourse; parking lots constructed at grade or resurfacing that is no more than 4 inches above the existing grade; dry hydrants that do not require fill placement; scientific structure such as staff gauges, water monitoring devices, water quality testing devices, and core sampling devices which meet specific design criteria and fish structures that meet specific design criteria.
- For expedited review include:
 - Photographs of the work site labeled to identify what is being shown and with the direction of the photo clearly indicated. Include photographs of any river or stream adjacent to the project.
 - A letter or statement from the local unit of government acknowledging your proposed application. See the website for sample wording.
- A hydraulic analysis or hydrologic analysis may be required to fully assess floodplain impacts.
- The state building code requires an Elevation Certificate for any building construction or addition in a floodplain. A sample form can be found at www.fema.gov/nfip/elvinst.shtm.
 - Attach additional sheets or tables for multiple proposed floodplain activities and provide hydraulic calculations.
 - Show reference datum used on plans.

Proposed Activity	<input type="checkbox"/> fill <input type="checkbox"/> excavation or cut <input type="checkbox"/> other	100-year floodplain elevation (ft) (if known) Datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other
Site is _____ feet above <input type="checkbox"/> ordinary high water mark (OHWM) OR <input type="checkbox"/> observed water level. Date of observation (M/D/Y)		
Fill volume below the 100-year floodplain elevation (cu yds)	Compensating cut volume below the 100-year floodplain elevation (cu yds)	
Buildings and/or Additions	Type of construction is <input type="checkbox"/> residential <input type="checkbox"/> garage/pole barn <input type="checkbox"/> non residential <input type="checkbox"/> other	
	Construction is <input type="checkbox"/> new <input type="checkbox"/> addition AND Serviced by <input type="checkbox"/> public sewer <input type="checkbox"/> private septic <input type="checkbox"/> other	
	Lowest adjacent grade (ft): existing _____ proposed _____ datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other	
	Existing Structure Information	Proposed Structure Information
	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab on grade <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab on grade <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other
	Foundation floor elevation (ft)	Foundation floor elevation (ft)
	Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)	Height of crawl space/basement from finished foundation floor to bottom of floor joists (ft)
	Elevation of 1st floor above basement floor/crawl space (ft)	Elevation of 1st floor above basement floor/crawl space (ft)
	For enclosed areas below the flood elevation, such as a crawl space, garages and accessory structures: Area of proposed foundation (sq ft) Elevation of proposed enclosed area (ft) datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> other	
	Number of flood vents	net opening of each vent (sq inches)



14 Bridges and Culverts Including Foot and Cart Bridges. (See EZ Guides and Sample Drawings 5, 14A, 14B, 14C, 14D.)

- Complete other applicable Sections, including 10A-C.
- A hydraulic analysis or hydrologic analysis may be required to fully assess impacts. ➔ Attach hydraulic calculations.
- High Water Elevation - describe reference point and highest known water level above or below reference point and date of observation.
 - ➔ Attach additional sheets for multiple bridges and/or culverts.
 - ➔ Provide detailed site-specific drawings of existing and proposed Plan and Elevation View at a scale adequate for detailed review.
 - ➔ Provide all information in the boxes below; do not write in a reference to plan sheets. Show reference datum used on plans.

Stream Information	The site has a high water elevation (ft) <input type="checkbox"/> above or <input type="checkbox"/> below the Reference Point of _____ Date observed _____			
	Reference datum used <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> IGLD 85 (Great Lakes coastal areas) <input type="checkbox"/> other _____			
	Average stream width (ft) at the ordinary high water mark (OHWM) outside the influence of any ponding or scour holes around the structure	Upstream _____ Downstream _____		
	Cross-sectional area of primary channel (sq ft) _____ (See Sample Drawing 14C for more information)			
	The width of the stream where the water begins to overflow its banks. Bankfull width (ft) _____			
	The invert of the stream 100-feet from structure (ft)	Upstream _____ Downstream _____		
	Is the existing culvert perched? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide a profile of the channel bottom at the high and low points for a distance of 200 feet upstream and downstream of the culvert.			
Complete this form for each bridge / culvert location.				
Bridge			Existing	Proposed
	Number of bridge spans			
	Bridge type (concrete box beam, concrete I-beam, timber, etc.)			
	Bridge span (length perpendicular to stream) (ft)			
	Bridge width (parallel to stream) (ft)			
	Bottom of bridge beam (ft)	Upstream _____ Downstream _____		
	Stream invert elevation at bridge (ft)	Upstream _____ Downstream _____		
	Bridge rise from bottom of beam to streambed (ft)			
Culvert	Number of culverts			
	Culvert type (arch, bottomless, box, circular, elliptical, etc.)			
	Culvert material (concrete, corrugated metal, plastic, etc.)			
	Culvert length (ft)			
	Culvert <input type="checkbox"/> width <input type="checkbox"/> diameter (ft)			
	Culvert height prior to any burying (ft)			
	Depth culvert will be buried (ft)			
	Elevation of culvert crown (ft)	Upstream _____ Downstream _____		
	Higher elevation of <input type="checkbox"/> culvert invert OR <input type="checkbox"/> streambed within culvert (ft)	Upstream _____ Downstream _____		
Complete for both Bridges and Culverts	Entrance design (mitered, projecting, wingwalls, etc.)			
	Total structure waterway opening above streambed (sq ft)			
	Total structure waterway area below the 100-year elevation (sq ft) (if known)			
	Elevation of road grade at structure (ft)			
	Elevation of low point in road (ft)			
	Distance from low point of road to mid-point of bridge crossing (ft)			
	Length of approach fill from edge of bridge/culvert to existing grade (ft)			
	A Licensed Professional Engineer may 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. The "Required Certification Language" is found under "forms" on the "maps, forms and documents" link from the www.mi.gov/jointpermit page or a copy may be requested by phone, email, or mail. A hydraulic report supporting this certification may also be required.			
Is Certification Language attached? <input type="checkbox"/> No <input type="checkbox"/> Yes				



15 Stream, River, or Drain Construction, Relocation and Enclosure Activities

- Complete Section 10C for riprap activities.
- If side casting or other proposed activities will impact wetlands or floodplains, complete Sections 12 and 13, respectively.
 - Provide a scaled 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 scaled cross-section (elevation) drawings necessary to clearly show existing and proposed conditions.
 - For activities on legally established county drains, provide original design and proposed dimensions and elevations.

Stream Information	Water elevation (ft) datum <input type="checkbox"/> NGVD 29 <input type="checkbox"/> NAVD 88 <input type="checkbox"/> IGLD 85 (Great Lakes coastal areas) <input type="checkbox"/> other	
	➤ Show elevation on plans with description.	
	Dimensions (ft) of existing stream/drain channel (ft)	length width depth
Existing channel average water depth in a normal year (ft)		
Proposed Activity <input type="checkbox"/> enclosure <input type="checkbox"/> improvement <input type="checkbox"/> maintenance <input type="checkbox"/> new drain <input type="checkbox"/> relocation <input type="checkbox"/> wetlands <input type="checkbox"/> other		
If an enclosed structure is proposed, check material type <input type="checkbox"/> concrete <input type="checkbox"/> corrugated metal <input type="checkbox"/> plastic <input type="checkbox"/> other		
Dimensions (ft) of the structure: diameter length		Volume of fill (cu yds)
Will old/enclosed stream channel be backfilled to top of bank grade? <input type="checkbox"/> No <input type="checkbox"/> Yes		
Length of channel to be abandoned (ft)		Volume of fill (cu yds)
Dimensions (ft) of improved, maintained, new, relocated or wetland stream/drain channel. length width depth		Volume of dredge/excavation (cu yds)
How will slopes and bottom be stabilized?		Proposed side slopes (vertical / horizontal)
Spoils Disposal	Dredged or excavated spoils will be placed <input type="checkbox"/> on-site <input type="checkbox"/> landfill <input type="checkbox"/> USACE confined disposal facility <input type="checkbox"/> other upland off-site	
	For disposal, provide a ➤ Detailed spoils disposal area location map and site plan with property lines. ➤ Letter of authorization from property owner of spoils disposal site, if disposed off-site.	

16 Drawdown of an Impoundment

- If wetlands will be impacted, complete Section 12.

Type of drawdown <input type="checkbox"/> over winter <input type="checkbox"/> temporary <input type="checkbox"/> one-time event <input type="checkbox"/> annual event <input type="checkbox"/> permanent (dam removal) <input type="checkbox"/> other		
Reason for drawdown		
Has there been a previous drawdown? <input type="checkbox"/> No <input type="checkbox"/> Yes If Yes, provide date (M/D/Y)		Previous DEQ permit number, if known
Does waterbody have established legal lake level? <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Not Sure		Dam ID Number, if known
Extent of vertical drawdown (ft)	Impoundment design head (ft)	Number of adjoining or impacted property owners
Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
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)

**17 Dam, Embankment, Dike, Spillway, or Control Structure Activities** (See Sample Drawing 15)

- For more information go to www.mi.gov/damsafety. If wetlands will be impacted, complete Section 12.
- Information on removing a dam is available at www.mi.gov/damsafety and following the Related Link –Dam Management.
 - Attach detailed signed and sealed engineering plans for a Part 315 dam repair, dam alteration, dam abandonment, or dam removal.
 - Part 315 Dam Safety application fees are added to all other application fees.
 - Mail applications for dams regulated under Part 315 to DEQ, WRD, P.O. BOX 30458, LANSING, MI 48909-7958, attention Dam Safety.

Proposed Activity abandonment alteration enlargement of an existing dam
 removal repair reconstruction of a failed dam
 new dam construction other

Dam ID Number, if known Type of outlet discharge structure surface bottom mid-depth

Will proposed activities require a drawdown of the waterbody to complete the work? No Yes ➤ If Yes, complete Section 16.

Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft) _____

Hydraulic Height (difference between design flood elevation and streambed elevation at downstream embankment toe) (ft) _____ Impoundment size at design flood elevation (acres)

Does dam meet the criteria for regulation under Part 315? (i.e. hydraulic height of 6 feet or more and an impoundment size at the design flood of 5 surface acres or more) No Yes

Dredging/excavation volume (cu yd) Fill volume (cu yd) Riprap volume (cu yd)

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:

Complete the following for a new dam, reconstruction of a failed dam or enlargement of an existing dam

For Part 315 regulated dams, the following must be attached:

- Site-specific conceptual plans of the dam for resource impact review (An engineering report and detailed engineering plans are not required until the project has been determined to be permitable).
- A description and evaluation of the loss of natural resources associated with the project.
- A description of the natural resources that are associated with or created by the impoundment and how they offset the natural resources lost by the creation of the impoundment.
- An assessment of all known existing and potential adverse effects within the scope of the project.

Embankment dimensions	length (ft)	top width (ft)	bottom width (ft)	slopes (vertical / horizontal)	
				Upstream	Downstream

Have soil borings been taken at dam location? No Yes ➤ If Yes, attach results.

Do you have flowage rights to all proposed flooded property at the design flood elevation? No Yes ➤ If No, provide a letter of authorization from the property owner.

Applications for Part 315 regulated dam removal projects must also include the following:

- An evaluation of the capacity of the remaining structure to pass flood flows.
- An evaluation of the quantity and quality of the sediments behind the impoundment.
- A description of the methods to be employed to control sediments.
- An assessment of all known existing and potential adverse impacts within the scope of the project.

**18 Utility Crossings** (See Sample Drawings 12 and 13, and EZ Guide)

- If side casting is proposed, complete Sections 10A and 10B. If spoils will be placed in or impact wetlands, complete Section 12.
 - Attach additional sheets or tables with the requested information as needed for multiple crossings.
 - For wetland crossings using the open trench method show clay plugs at the wetland/upland boundaries on the plans.

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

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

Utility Type	Number of lake or stream crossings	Number of wetland crossings	Pipe diameter with casing (in)	Pipe length per crossing (ft)	Distance below streambed or wetland (in)	Trench width (ft)
<input type="checkbox"/> sanitary sewer						
<input type="checkbox"/> storm sewer						
<input type="checkbox"/> watermain						
<input type="checkbox"/> cable						
<input type="checkbox"/> electric						
<input type="checkbox"/> fiber optic cable						
<input type="checkbox"/> oil/gas pipeline						

19 Marina Construction, Expansion and Reconfiguration (See Sample Drawing 21)

- For more information go to www.mi.gov/marinas
- Marinas located on 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 a conveyance is necessary, an application must be submitted before the Joint Permit Application can be determined complete.
 - Fully complete Section 10 E. For multiple structures provide a table with the requested information.
 - Enclose a copy of any current pump-out agreement with another marina facility, if on-site sanitary pump out facilities are not available.
 - Attach a copy of the property legal description, mortgage survey, or a property boundary survey to your application.
 - The WRD may require a riparian interest area (RIA) estimate survey, sealed by a licensed surveyor, in order to determine whether the proposed project will adversely impact riparian rights. Include any available sealed RIA estimate survey and/or written authorizations from affected adjoining riparian owners with your application.

Proposed Marina Activity New construction Expansion Reconfiguration

Do you have an existing Great Lake Conveyance? No Yes For more information visit www.mi.gov/deqgreatlakes.

Are sanitary pump-out facilities available? No Yes Is there a pump out agreement? No Yes If Yes, provide a copy.

Marina Description	Current Count	Final Count
Number of boat slips/wells (do not include broadside dockage or mooring buoys)		
Lineal feet of broadside dockage		
Maximum number of boats at broadside dockage		
Number of mooring buoys		
Number of launch ramps/lanes		



20 Critical Dune Areas and High Risk Erosion Areas (See Sample Drawings 19 and 20)

Critical Dune Areas (See Sample Drawing 20)

- Although not required, submitting **PHOTOGRAPHS** of the site may provide for a faster application review.
- For more information go to www.mi.gov/jointpermit, select "Sand Dune Protection" under "Related Links."
- All property boundaries and proposed structure corners, including decks, septic systems, water wells, driveways, grading, and terrain alteration locations must be staked before the WRD site inspection.
- Scaled overhead and cross-section plans must include all property boundaries, locations, and dimensions of all existing structures and impacted areas, and all proposed structures, terrain alterations, and construction access. Cross-sections must show existing and proposed grades, including foundations.
- Construction in critical dune areas on slopes greater than 33 percent (1 vertical: 3 horizontal) is prohibited without a special exception.
- Construction in critical dune areas on slopes that measure from 25 percent (1 vertical: 4 horizontal) to less than 33 percent requires sealed plans prepared by a registered architect or licensed professional engineer.

High Risk Erosion Areas (See Sample Drawing 19)

- For more information go to www.mi.gov/jointpermit, select "HREA" under "Related Links."
- All property boundaries, proposed structure corners, and septic system locations must be staked before the WRD site inspection.
- Scaled overhead plans must include all property boundaries, and the location and dimensions of all structures and septic systems must be included.
- Additional information, including the building construction plans, may be required to complete the application review.

Critical Dune Areas

Parcel dimensions (ft) width depth	Date project staked (M/D/Y)
Property is a <input type="checkbox"/> platted lot <input type="checkbox"/> unplatted parcel	Year current property boundaries created
Dune habitat present in Building Site and access route (check all that apply): <input type="checkbox"/> Wooded <input type="checkbox"/> Open Dune <input type="checkbox"/> Shrubs <input type="checkbox"/> Bare Sand <input type="checkbox"/> Lakefront Lot <input type="checkbox"/> MNFI Community if known: _____	
Type of construction activities <input type="checkbox"/> addition <input type="checkbox"/> driveway <input type="checkbox"/> garage <input type="checkbox"/> new home <input type="checkbox"/> renovation <input type="checkbox"/> septic <input type="checkbox"/> deck(s) <input type="checkbox"/> other	
<input type="checkbox"/> Provide a sand relocation plan with location and dimensions of disposal area. Indicate <input type="checkbox"/> on-site OR <input type="checkbox"/> off-site If on-site show location and how the disposal site will be accessed on the plans. Indicate the depth of the disposed sand on the plans.	
<input type="checkbox"/> Provide the permit or letter from the County Enforcing Agent stating the project complies with Part 91 (Soil Erosion and Sedimentation Control).	
The proposed project will be serviced by <input type="checkbox"/> public sewer <input type="checkbox"/> private septic system. * On the plans, show the location and dimensions of the private septic system. If a private septic system is proposed, has a permit been issued by the health department? <input type="checkbox"/> No <input type="checkbox"/> Yes * If Yes, provide a copy of the permit for all Critical Dune Area projects.	
<input type="checkbox"/> Provide a copy of the vegetation assurance letter. <input type="checkbox"/> Provide a re-vegetation plan, including # _____ of trees to be removed and # _____ of trees to be replanted.	
Proposed Utility Installation	Proposed New Construction
Utility Installation Method <input type="checkbox"/> directional bore <input type="checkbox"/> plowing in <input type="checkbox"/> open trench <input type="checkbox"/> other	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other
* Show utility locations and dimensions on the site plan.	Area of existing structure (sq ft)
* Show construction access route on the site plan.	Area of proposed structure (sq ft)
* Show existing and proposed grades on the cross-section.	Area of existing deck (sq ft)
* Show locations of vegetation to be removed on the site plan.	Area of proposed deck (sq ft)
Provide the following information for special use projects: (a) Lot size, width, density, and front and side setbacks. (b) Storm water drainage that provides for disposal of drainage water without serious erosion. (c) Methods for controlling erosion from wind and water. (d) Re-stabilization plan. (e) Environmental Impact Statement.	



High Risk Erosion Areas	Parcel dimensions (ft) width depth		Date project staked (M/D/Y)	
	Existing Structure Information		Proposed New Construction	
	Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other		Foundation type <input type="checkbox"/> basement <input type="checkbox"/> concrete slab <input type="checkbox"/> pilings <input type="checkbox"/> crawl space <input type="checkbox"/> other	
	Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other		Material above foundation wall <input type="checkbox"/> block <input type="checkbox"/> log <input type="checkbox"/> stud frame <input type="checkbox"/> other	
	Siding material <input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other		Siding material <input type="checkbox"/> block <input type="checkbox"/> vinyl <input type="checkbox"/> wood <input type="checkbox"/> other	
	Area of the foundation, excluding attached garage (sq ft)		Area of the foundation, excluding attached garage (sq ft)	
	Area of the garage foundation (sq ft)		Area of the garage foundation (sq ft)	
	If renovating or restoring an existing structure, indicate the renovation or restoration cost \$			
	Current structure replacement value \$			
	Tax assessed value of existing structure excluding land value \$		Assessment Year	
Provide the number of individual living units in the proposed building				