

TIFA FINAL Meeting Minutes 3/10/2017

The meeting was called to order by Jim Brennan at 6:43 PM.

Attendees: Jim Brennan, Norine Maki, and John Ulrich

Public present: Fred Nannestad

Norine made a motion to approve the agenda, John seconded the motion. Motion passed.

Norine made a motion to approve the minutes. John seconded the motion. Motion passed. The minutes of the 2/28/17 meeting were approved.

Treasurers report: there is approximately \$26,000.00 in the account with approximately \$30,000.00 in the account after the current tax cycle is complete.

There was no public comment on the agenda.

There was a discussion about the meeting Jim and John had with Roger Crimmins on 3/8/2017 as follows:

Roger will send the TIFA a letter granting permission to fill out the DNR permit to operate the dam and the TIFA will either reimburse Republic Mountain Lake, LLC for the \$500.00 application fee or the TIFA will send the check along with the application if permission is granted in the letter from Republic Mountain Lake, LLC to do so.

Roger will send a letter for a proposal for the TIFA to purchase the dam on land contract.

Roger found union members who are willing to donate their time to repair the dam gates.

Republic Township needs to authorize the use of the township generator/welder for the repair.

Jim made a motion to allow the TIFA to fill out the DNR permit application within 14 days of receiving the Republic Mountain Lake, LLC letter authorizing that action. John seconded the motion. Roll call vote: Jim – aye, Norine - aye, John - aye. Motion passed.

Jim made a motion to allow Lori Burton to fill out the DNR permit application on township computer and the TIFA will reimburse for Lori's time to fill out the application. The application will be sent in with the letter from Republic Mountain Lake, LLC to show the TIFA had permission to do so. Norine seconded the motion. Roll call vote: Jim – aye, Norine - aye, John - aye. Motion passed.

Jim made a motion to allow the TIFA treasurer to write a check for \$500.00 for the DNR permit if the Republic Mountain Lake, LLC letter gives that authority. Norine seconded the motion. Roll call vote: Jim – aye, Norine - aye, John - aye. Motion passed.

Public Comment – None

John made the motion to adjourn and Norine seconded the motion. Motion passed. Meeting adjourned at 7:08 PM.

John Ulrich, Supervisor

Republic Township

906-376-8139

TIFA FINAL Meeting Minutes 4/7/2017

The meeting was called to order by Jim Brennan at 6:33 PM.

Salute to the flag.

Attendees: Jim Brennan, Norine Maki, and John Ulrich

Norine made a motion to approve the agenda, John seconded the motion. Motion passed.

Norine made a motion to approve the minutes of the 3/10/17 meeting . Jim seconded the motion. Motion passed.

Treasurers report: there is approximately \$26,000.00 in the account with approximately \$30,000.00 in the account after the current tax cycle is complete.

There was no public comment on the agenda

There was no old business.

New business included the presentation of 2 letters from Roger Crimmins as follows:

Letter to allow the TIFA and the Republic Sportsmen's Club to operate the dam gates and to pursue a permit from the DNR per the Lease agreement.

A Lease Agreement between Republic Mountain Lake, LLC and Michigamme River Basin Authority (TIFA).

Jim made a motion to add a line to the lease stating the following: If DEQ permit is not approved the lease agreement is VOID. John seconded the motion. Roll call vote: Jim – aye, Norine - aye, John - aye. Motion passed.

John made a motion to approve the lease agreement as amended between Republic Mountain Lake, LLC and the Michigamme River Basin Authority (TIFA). Jim seconded the motion. Roll call vote: Jim – aye, Norine - aye, John - aye. Motion passed.

Public Comment – None

Norine made the motion to adjourn and John seconded the motion. Motion passed. Meeting adjourned at 6:57 PM.

John Ulrich, Supervisor

Republic Township

906-376-8139

TIFA FINAL Meeting Minutes 5/9/2017

The meeting was called to order by Jim Brennan at 6:32 PM.

Salute to the flag.

Attendees: Jim Brennan, Maggie Shephard, and John Ulrich

John made a motion to approve the amended agenda, Maggie seconded the motion. Motion passed.

Treasurers report: None.

There was no public comment on the agenda. No public present.

Old Business:

Jim made a motion to attach the Republic Dam Permit Application to the minutes. A copy was given to the secretary. Maggie seconded the motion. Motion passed.

Jim made a motion to attach the 4/24/17 copy of the lease agreement to the minutes. Maggie seconded the motion. Motion passed.

New business:

Jim made a motion to change Article 3, Section 2 to the by-laws to from 5 to 7 members. Maggie seconded the motion. After discussion, Jim withdrew the motion.

Jim made a motion to put the presentation by the Sportsman's Club to the DNR in the minutes. Maggie seconded the motion. Motion passed.

There was a discussion of the future of the dam. There was not action taken on the subject.

Jim showed an original copy of the Michigamme River Basin Tax Increment Financing And Water Improvement Authority Development Plan to the board. He will make copies and get one to each member of the board.

Public Comment – None

Jim made the motion to adjourn and John seconded the motion. Motion passed. Meeting adjourned at 7:23 PM.

John Ulrich, Supervisor
Republic Township
906-376-8139



Republic Township <republictownship@gmail.com>

Application/Service Request Receipt Acknowledgement

1 message

No Reply <noreply@michigan.gov>

Tue, May 9, 2017 at 3:16 PM

To: republictownship@gmail.com

James Brennan,

This is to notify you that Michigan DEQ has received your submission. Details of your submission are presented below:

Form Name: MDEQ/USACE Joint Permit Application (JPA) for Inland Lakes and Streams, Great Lakes, Wetlands, Floodplains, Dams, Environmental Areas, High Risk Erosion Areas and Critical Dune Areas

Submission Reference Number: 2RD-BFY1-R7AY

System Receipt Date: 05/09/2017 3:01PM

Facility, Site, or Project: Republic Dam

Additional notifications will be sent when key events are recorded or when submission processing milestones are achieved.

You can access MiWaters using the link below if you need to modify your application.

<https://miwaters.deq.state.mi.us/miwaters/>

This is an automated email sent by the MiWaters system



2 RD-BFY 1-R7A4
Joint Permit Application

For Work in Inland Lakes and Streams, Great Lakes, Wetlands, Floodplains, Dams,
 High Risk Erosion Areas and Critical Dune Areas
www.mi.gov/jointpermit

What is the purpose of the Joint Permit Application?

This Joint Permit Application was developed to facilitate the state and federal permit application process administered by the Michigan Department of Environmental Quality (DEQ) and the U.S. Army Corps of Engineers (USACE).

The Joint Permit Application is a multi-purpose application used to describe and quantify proposed activities regulated by the DEQ and/or the USACE. This application is for those activities regulated by the following Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended by the State of Michigan.

- Part 301, Inland Lakes and Streams
- Part 325, Great Lakes Submerged Lands
- Part 303, Wetlands Protection
- Floodplain Regulatory Authority found in Part 31, Water Resources Protection
- Part 315, Dam Safety
- Part 323, Shorelands Protection and Management (High Risk Erosion Areas)
- Part 353, Sand Dunes Protection and Management (Critical Dune Areas)

The regulated activities are summarized in Appendix D. The statutes and rules are available at www.mi.gov/jointpermit.

This application is also for those activities regulated by the USACE within the waters of the United States under Section 10, Rivers and Harbors Act of 1899 (33 U.S.C. 403) and Section 404, Clean Water Act of 1977 (33 U.S.C. 1344).

Preapplication Meeting: This is an optional service available for activities proposed in inland lakes and streams (Part 301), wetlands (Part 303), and critical dune areas (Part 353). A preapplication meeting can answer many questions regarding whether or not a permit is required and the review process. The application form and fee schedule are available at www.mi.gov/jointpermit.

How do I complete the Joint Permit Application?

An accurate and complete application package is required for processing; inaccurate or missing information will delay processing.

There are three parts to a complete Joint Permit Application package:

1. Application Form
2. Maps and Drawings
3. Fee

Follow the checklists on the following page for each part of the application package.

When you have questions or need assistance in completing the application package refer to the following information on our website www.mi.gov/jointpermit or you may contact the appropriate district office, page iii, or through the website link "Who to Contact."

- Joint Permit Application Training Manual
- EZ Guides for small projects
- Acronyms in Appendix A
- Sample drawings in Appendix B
- Minor Project and General Permit Categories in Appendix C
- Fee schedule in Appendix C
- State and Federal Authority and Penalties in Appendix D
- Glossary in Appendix E



Application Checklist

The following website will provide township, range, section, latitude and longitude information:

www.mcgi.state.mi.us/wetlands/

In each section check all boxes that apply to your project.

Show and label property lines on the site plan.

Label existing and proposed contours, dimensions, excavation and/or fill on the site plans and cross sections.

Provide tables for multiple impact areas.

1. Application Form

- Complete Sections 1 through 9 of the application form.
- An authorization letter from the property owner if someone other than the property owner is signing the application.
- Complete those Sections 10 through 20 that apply to your project. Follow the instructions at the beginning of each section. For additional information, the instructions for each sample drawing in Appendix B indicate the application sections you will most likely need to complete. Complete the application form as much as possible before adding attachments. Label each attachment with the applicant's name.
- Stake or flag the area for site inspection including the property corners, proposed road or driveway centerlines, and areas of proposed impacts. The site must be flagged when the application is submitted.

2. Maps and Drawings

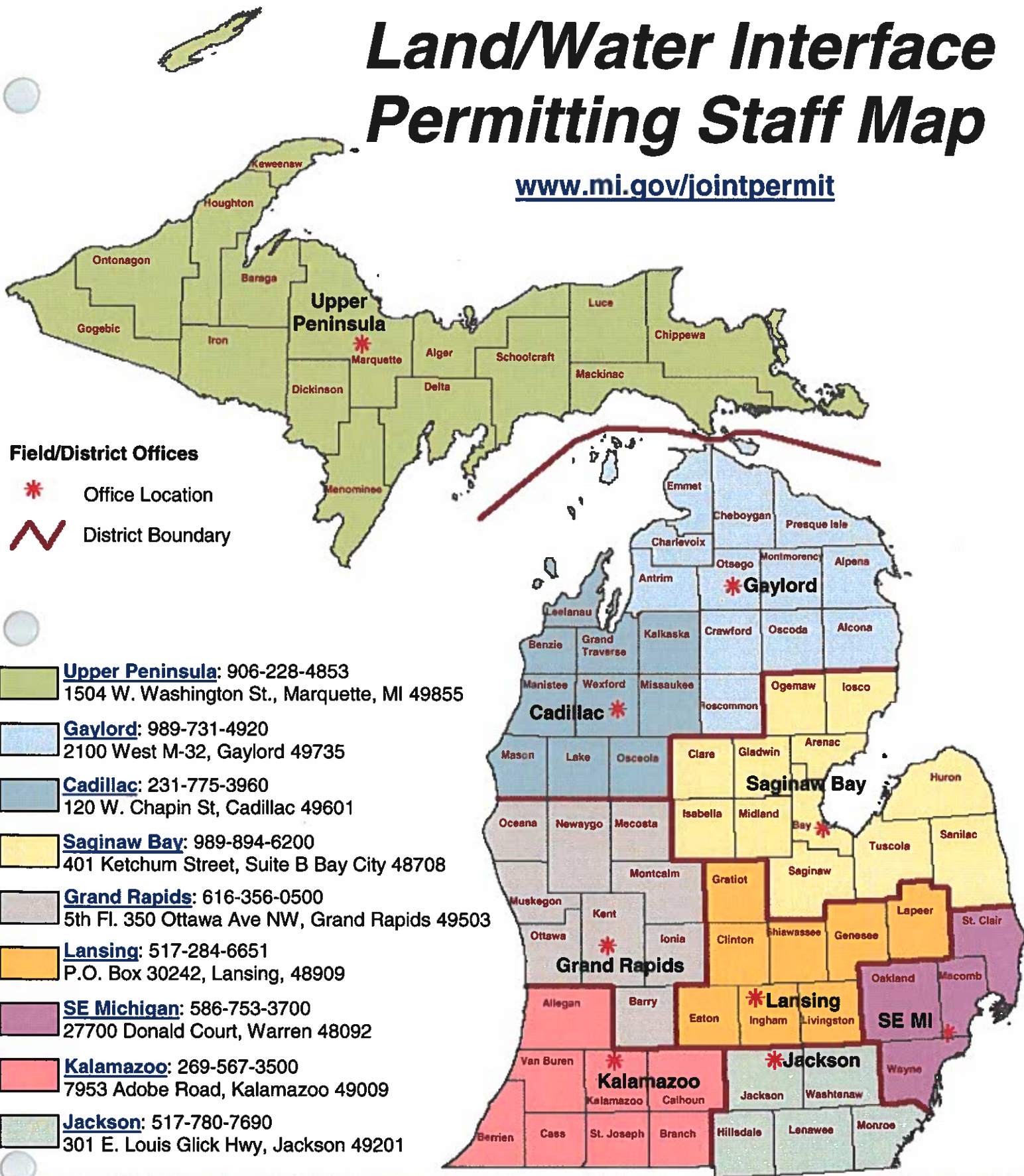
- All maps and drawings must be black and white, legible, reproducible, and sized to 8.5" x 11". Aerial photographs do not substitute for site plans. If larger drawings or blueprints are required to show adequate detail for review, you may also submit one full size copy.
- Vicinity Map: A map to the proposed project location that includes ALL streets, roads, intersections, highways, or cross-roads to the project. Do not assume review staff knows your project location.
- Project Site Plan: Overhead drawings to scale or with dimensions, length and width, of the proposed project are required. Show and label property lines on the site plan.
- Cross-section drawings are required. Provide the cross-sections and profile views to scale or with dimensions, length, width, and height.
- Elevation data must include a description of the reference point or benchmark used and its corresponding elevation. For projects on the Great Lakes or Section 10 Waters, elevations must be provided in IGLD 85. For observed Great Lake water elevations in IGLD, visit the USACE website under "water levels". If elevations are from still water, provide the observation date and water elevation. On inland sites, elevations can use NGVD 29, NAVD 88, a local datum or an assumed bench mark.
- Provide descriptive photographs of the proposed work site showing vegetation if wetlands are involved or the shoreline for shore protection projects. All photographs must be labeled with your name and the date of the 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. Provide aerial photographs 1:400 or larger for major projects.

3. Fee

- Payment to the **State of Michigan**. Fees typically range from \$50 to \$4,000 depending on the type of project. Refer to Appendix C of the application and/or visit www.mi.gov/jointpermit to determine the appropriate fee for your project and for directions to pay by credit card or electronic fund transfer payment.
- Applications should be sent directly to the district offices. Please refer to page iii, or refer to www.mi.gov/jointpermit "who to contact" for address and/or phone number. Applications that cross county boundaries should be sent to the district containing the primary work effort.
- Applications for dams regulated under Part 315 or from public agencies eligible to receive federal and/or state transportation funding for a project involving public roadways, non-motorized paths, airports, or related facilities should be mailed to: DEQ, WRD, P.O. BOX 30458, LANSING, MI 48909-7958.

Land/Water Interface Permitting Staff Map

www.mi.gov/jointpermit



Field/District Offices

- Office Location
- District Boundary

- Upper Peninsula:** 906-228-4853
1504 W. Washington St., Marquette, MI 49855
- Gaylord:** 989-731-4920
2100 West M-32, Gaylord 49735
- Cadillac:** 231-775-3960
120 W. Chapin St, Cadillac 49601
- Saginaw Bay:** 989-894-6200
401 Ketchum Street, Suite B Bay City 48708
- Grand Rapids:** 616-356-0500
5th Fl. 350 Ottawa Ave NW, Grand Rapids 49503
- Lansing:** 517-284-6651
P.O. Box 30242, Lansing, 48909
- SE Michigan:** 586-753-3700
27700 Donald Court, Warren 48092
- Kalamazoo:** 269-567-3500
7953 Adobe Road, Kalamazoo 49009
- Jackson:** 517-780-7690
301 E. Louis Glick Hwy, Jackson 49201



APPENDICES

Appendix A:	Acronyms and Abbreviations	A-1
Appendix B:	Sample Drawings	
	1. General Instructions for all Drawings and Sample Site Location Maps	B-1
	2. Inland Lake Shore Protection.....	B-2
	3. Bulkhead/Seawall.....	B-2
	4. Pond Construction.....	B-3
	5. Floodplain Fill.....	B-3
	6. Wetland Boardwalk	B-4
	7. Dredging.....	B-4
	8. Driveway Across Wetland	B-5
	9. Residential Wetland Fill and Boardwalk Construction.....	B-5
	10. Docks - Piers - Mooring Piles.....	B-6
	11. Beach Sanding.....	B-6
	12. Pipe/Utility Crossings in a Trench	B-7
	13. Pipe/Utility Crossings using Directional Bore	B-7
	14. Bridge or Culvert (4 drawings)	B-8
	15. Dam Construction	B-12
	16. Water Intake.....	B-12
	17. Great Lakes Shore Protection.....	B-13
	18. Maintenance Dredge Channel	B-13
	19. Proposed Residence in a High Risk Erosion Area.....	B-14
	20. Proposed Residence in a Critical Dune Area.....	B-14
	21. Marina Site Plan.....	B-15
	22. Outlet Pipe	B-16
	23. Temporary Logging Road Crossing	B-16
Appendix C:	Fees and Categories for Minor Project and General Permit for Minor Activities.....	C-1
Appendix D:	State Authority, Federal Authority, Privacy Act Statement, and State and Federal Penalties	D-1
Appendix E:	Glossary (listed words are italicized in the application package).....	E-1

Application status can be viewed on the Water Resources Division (WRD) website at www.michigan.gov/miwaters. During the application period, if any information is missing from the application or if any clarification is needed regarding materials provided, the application is incomplete and staff will request the information from the applicant/agent by letter, email, fax or phone call. If a complete response is not provided within 30 days, the application will be closed. Some regulatory parts allow extensions if requested within the 30 day time frame. Once the WRD has received the information necessary for review of the project, including a thoroughly completed application, consistent drawings that have adequate detail for review and the full application fee, the file will be reviewed for final processing. A mailed postcard or a public notice will provide the file number and the telephone number of the office where the application is being processed. The review time to determine if an application is complete for processing ranges from 15 to 30 days. Technical processing times, after the application is administratively complete, may range from 60 to 90 days. Processing times will be longer if a public hearing is held. Staff from your local District/Field Office may visit the project site and may request additional information prior to a decision on the application. Application fees are not refundable or transferable.

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 WRD website at www.mi.gov/jointpermit 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 WRD by phone or fax at the addresses on the previous page, or email at DEQ-WRD-MiWaters@michigan.gov.



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.mcgi.state.mi.us/wetlands/

Project Address (road, if no street address) <i>Co Road 601(hawks drive)</i>	Zip Code <i>49879</i>	Municipality (Township/Village/City) <i>Republic</i>	County <i>Marquette</i>
Property Tax Identification Number(s) <i>52-12-018-004-00</i>	Latitude _____ N	Township/Range/Section (TRS) T <i>46N</i> N or S; R <i>29W</i> E or W;	
Subdivision/Plat and Lot Number	Longitude _____ W	Sec <i>18</i> OR Private Claim # _____	

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name) <i>Republic Mountain Lake, LLC</i>	Agent/Contractor (firm name and contact person) <i>Michigamme River Basin Authority (TIFA)</i>
Mailing Address <i>599 Washington St</i>	Mailing Address <i>279 Kloman Ave</i>
City <i>Ishpeming</i> State <i>MI</i> Zip Code <i>49849</i>	City <i>Republic</i> State <i>MI</i> Zip Code <i>49879</i>
Contact Phone Number <i>306-486-4459</i> Fax <i>906-486-6650</i>	Contact Phone Number <i>906-376-8827</i> Fax <i>906-376-2383</i>
Email <i>lindberg@lindberginc.com</i>	E-mail <i>republictownship@gmail.com</i>

No 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>Operation of Dam Gates</i>	Preapplication File Number - - -P
Name of Water body <i>Michigamme River</i>	Date project staked/flagged

The proposed project is on, within, or involves (check all that apply)

- | | |
|---|--|
| <input 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 checked="" 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 |

Project Use

- private
- commercial
- public/government
- project is receiving federal/state transportation funds
- Wetland Restoration
- 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 *Operation of Republic Dam gates to control water level @ 1492.2 for seasonal use*

Construction Sequence and Methods

**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.

Same as number 3 on application

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.

5 Locating Your Project Site *Attach a legible black and white map with a North arrow.*Names of roads of closest intersection *CR 601 and Hawks Drive Republic Plat map attached.*Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body *4/10 of mile south of Hawks drive from 601 intersection.*Description of buildings on the site (*color; 1 or 2 story, other*)*None*Description of adjacent landmarks or buildings (*address; color; etc*)*None*How can your site be identified if there is no visible address? *Metal Gates and rails in the air 10 feet, map attached***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)

Proposed completion date (M/D/Y)

 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

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>attached list upstream 3.8 miles and 2 owners</i>			
<i>downstream</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.

- Property Owner
- Agent/Contractor
- Corp. or Public Agency / Title

Printed Name
James Brennan

Signature
James Brennan

Date
05/09/2017



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			<input type="checkbox"/> bioengineered shore protection	<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> crib dock
			<input type="checkbox"/> riprap	<input type="checkbox"/> seawall	<input type="checkbox"/> swim area	<input type="checkbox"/> other	
Dimensions of fill (ft)			Total volume (cubic yards)		Volume below OHWM (cubic yards)		
Length	Width	Maximum Depth					
Maximum water depth in fill area (ft)			Area filled (sq ft)		Will filter fabric be used under proposed fill? <input type="checkbox"/> No <input type="checkbox"/> Yes (If Yes, type)		

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

Type of clean fill peastone % sand % gravel % other

Source of clean fill commercial on-site ➤ If on-site, show location on site plan.
 other ➤ 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			<input type="checkbox"/> boat ramp	<input type="checkbox"/> boat well	<input type="checkbox"/> bridge or culvert	<input type="checkbox"/> maintenance dredge
			<input type="checkbox"/> navigation	<input type="checkbox"/> pond/basin	<input type="checkbox"/> other	
Dimensions (ft)			Total volume (cu yds)		Volume below OHWM (cu yds)	
Length	Width	Maximum Depth				
Has this same area been previously dredged?			<input type="checkbox"/> No <input type="checkbox"/> Yes		If Yes, provide date and permit number:	
Will the previously dredged area be enlarged?			<input type="checkbox"/> No <input type="checkbox"/> Yes		If Yes, when and how much?	
Is long-term maintenance dredging planned?			<input type="checkbox"/> No <input type="checkbox"/> Yes		If Yes, how often?	

Dredge or Excavation Method Hydraulic Mechanical other

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.
	For volumes less than 5,000 cu yards, has proposed dredge material been tested for contaminants within the past 10 years? <input type="checkbox"/> No <input type="checkbox"/> 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)
Riprap landward of the ordinary high water mark: dimensions (ft)	length	width	depth	Volume(cu yd)
Type and size of riprap (inches)			Will filter fabric or pea stone be used under proposed riprap?	
<input type="checkbox"/> field stone <input type="checkbox"/> angular rock <input type="checkbox"/> other			<input type="checkbox"/> No <input type="checkbox"/> 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.) ➔ 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) ➔ 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 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 ➔ 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
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 type="checkbox"/> H. BOAT HOIST – ROOFS (See EZ Guide)			
Type <input type="checkbox"/> cradle <input type="checkbox"/> side lifter <input type="checkbox"/> other		Located on <input type="checkbox"/> seawall <input type="checkbox"/> dock <input type="checkbox"/> bottomlands	
Hoist dimensions, including catwalks (ft) length width			
Area occupied, including cat walks (sq ft)		Distance of hoist from adjacent property lines (ft)	
Permanent Roof <input type="checkbox"/> No <input type="checkbox"/> Yes ➔ If Yes, how is the roof supported?		Maximum Roof Dimensions (ft): length width height	
<input type="checkbox"/> I. BOARDWALKS and DECKS in WETLANDS or FLOODPLAINS (See Sample Drawings 5 and 6. Complete Sections 12 and/or 13) ➔ 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"/> overland 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)			
➤ 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)		Boat Lengths
	width	height	swing radius
			chain length
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			
➤ 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		Fence height (ft)	Fence type and material
streams wetlands floodplains			
<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.			
<input checked="" type="checkbox"/> 11 Expansion of an Existing or Construction of a New Lake or Pond (See Sample Drawings 4 and 15)			
➤ 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)		Maximum Area: <input type="checkbox"/> acres <input type="checkbox"/> sq ft	
length	width	depth	
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	100-year floodplain elevation (ft) (if known)
	<input type="checkbox"/> other		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)	lowest elevation of flood vents (ft)



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.

Existing **Proposed**

Bridge

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
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.		Volume of dredge/excavation (cu yds)	
length	width	depth	
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 <ul style="list-style-type: none"> ➤ 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		Previous DEQ permit number, if known	
If Yes, provide date (M/D/Y)			
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	<input type="checkbox"/> abandonment	<input type="checkbox"/> alteration	<input type="checkbox"/> enlargement of an existing dam
	<input type="checkbox"/> removal	<input type="checkbox"/> repair	<input type="checkbox"/> reconstruction of a failed dam
	<input type="checkbox"/> new dam construction	<input checked="" type="checkbox"/> other <i>operation to control water level</i>	

Dam ID Number, if known 529	Type of outlet discharge structure <input type="checkbox"/> surface <input checked="" type="checkbox"/> bottom <input type="checkbox"/> mid-depth
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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 permissible).
- 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
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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 ReconfigurationDo 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"/> 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				

LEASE AGREEMENT

Republic Mountain Lake, LLC (RML) agrees to a one year lease with the Michigamme River Basin Authority (TIFA) for the Michigamme River Dam owned by Republic Mountain Lake.

For a lease rate of \$3,000, RML will lease the dam starting May 1, 2017 and terminating April 30, 2018.

The TIFA will subcontract the physical operations of the dam to the Republic Sportsman's Club, including power provision and staff to daily monitor the dam, water elevation and regulate the water flow by raising and lowering the dam gates. RML will assist in these duties upon request, on an as needed basis and will be compensated at a rate of \$50.00 per hour per man.

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This agreement will terminate April 30, 2018.

Republic TIFA will secure all permits necessary for water level to satisfy the Michigan DEQ.

If the DEQ permit is not approved, the lease agreement is void.

Glenn Brown
Michigamme River Basin Authority

4-24-17
Date:

Roger [Signature]
Republic Mountain Lake, LLC

4/17/17
Date:

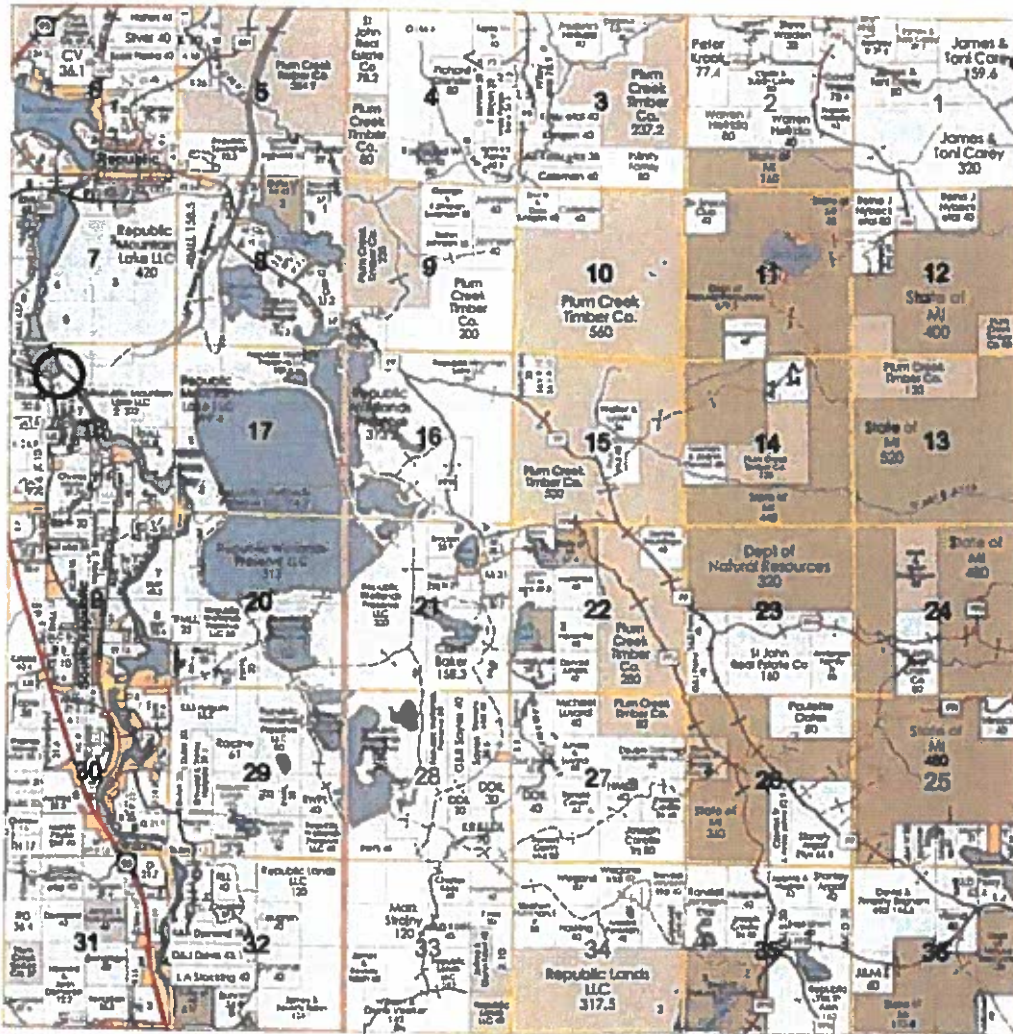
ADDENDA

PLAT MAP

Humboldt (C)
& Republic (EC)



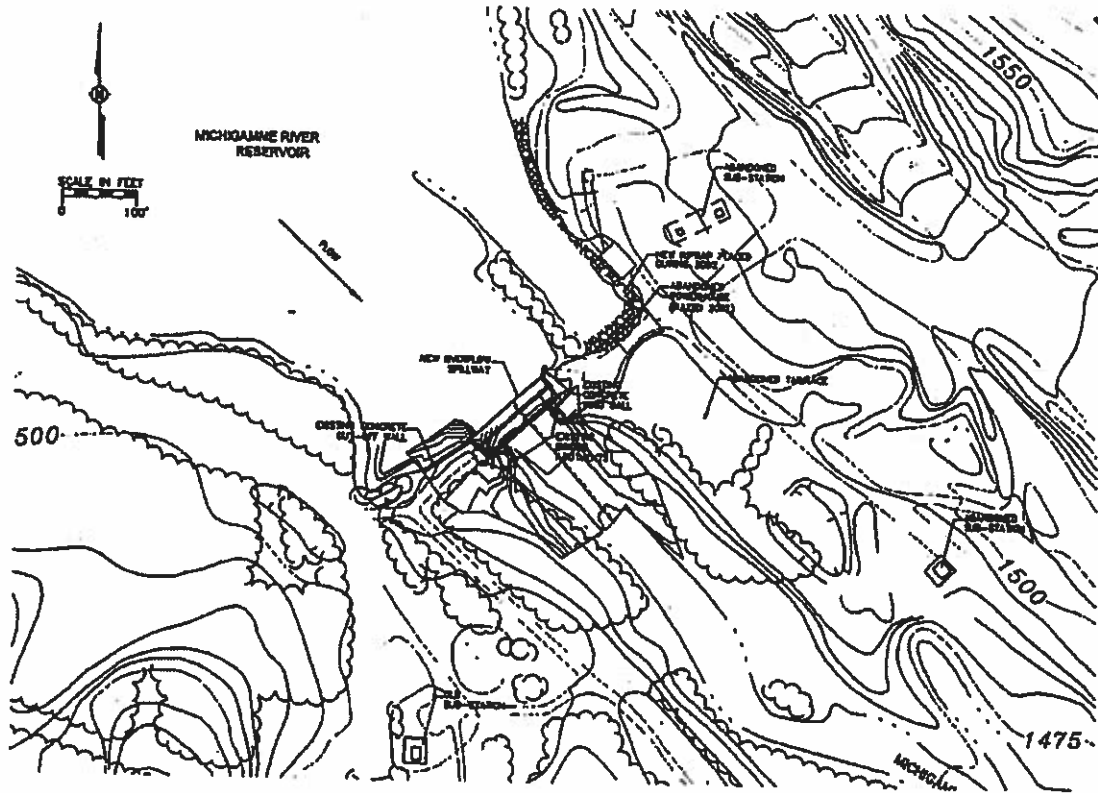
T.46N.-R.29W.



© 2008 Marquette County Equalization Department

ADDENDA

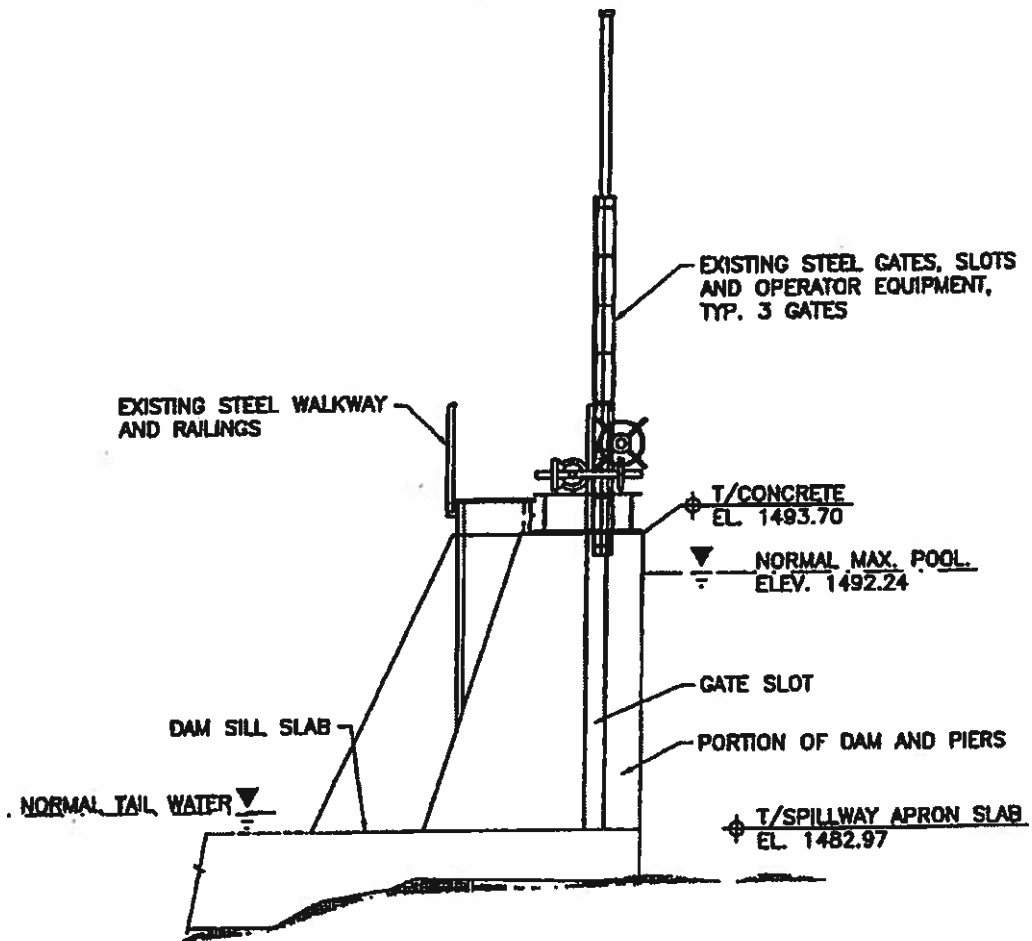
IMPROVEMENT DRAWING – Original Plan View of Dam



ADDENDA

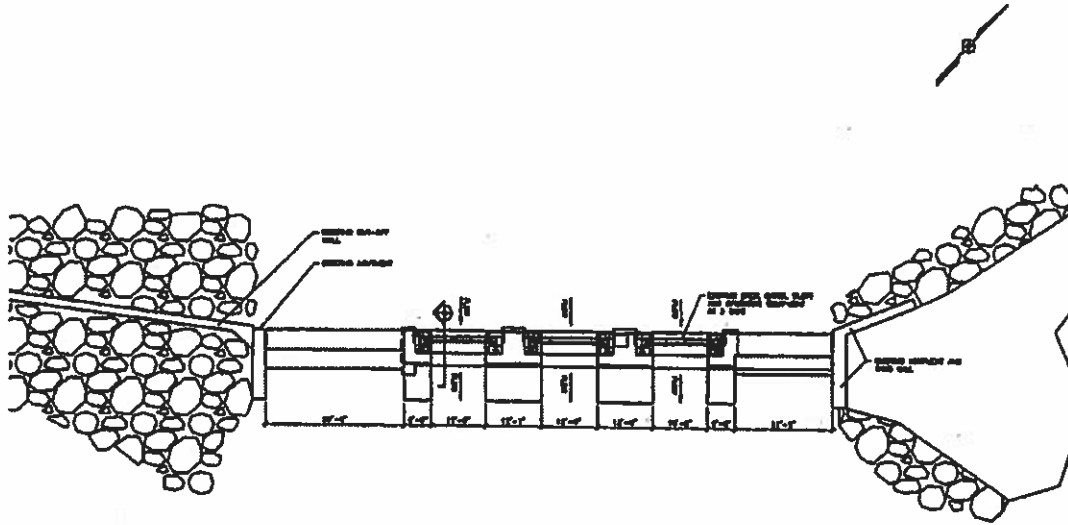
IMPROVEMENT DRAWING – Original Plan View of Dam

Section through Dam



ADDENDA

IMPROVEMENT DRAWING – Original Plan View of Dam



Original Plan View of Dam

ADDENDA

SUBJECT PHOTOS



Subject dam.



Subject dam.

ADDENDA

SUBJECT PHOTOS - Continued



View from dam.



View from dam.

ADDENDA

SUBJECT PHOTOS - Continued



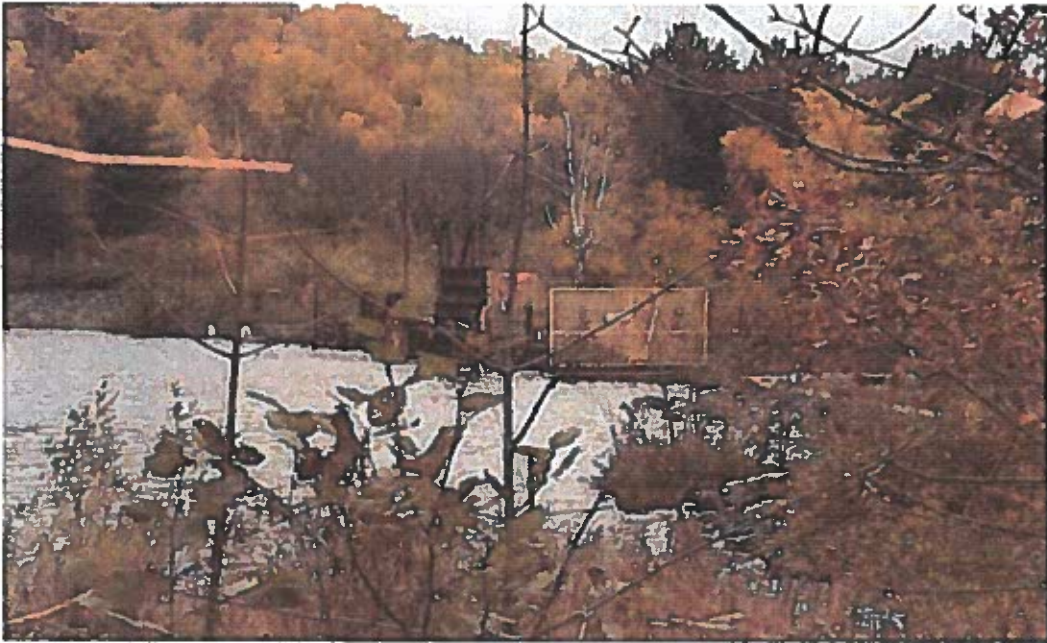
View from dam.



Dam as seen from shore.

ADDENDA

SUBJECT PHOTOS - Continued



Dam as seen from shore.

**Plum Creek Timberland
Weyerhaeuser Company
PO Box 89
Orfield, ME 04937**

**Orenda Properties. LLC
1736 McKinley St
Wyandotte, MI 48192**

**Ilona Anderson
12199 Pine Crest Lane
Republic, MI 49879**

**Paul & Dawn Linden
11842 Deer Creek Run
Plymouth, MI 48170**

**Lawrence Schultz
2309 Elm Ave
Zion, IL 60099**

**Robert & Nancy Marszelak
1005 East 8th Street
Hobart, IN 46342**

**Casimir J. & Beth H. Ries
282 Denberry Dr
Lake Zurich, IL 60047**

**Michael & Cindy Rautio
11621 Bobcat Run
Republic, MI 49879**

**Robert & Judith Maxfield
1734 Hwy D
Belgium, WI 53004**

**David Antilla
271 Pine St
Republic, MI 49879**

**Michael Herrington
12601 River Road
Republic, MI 49879**

**Carol Kruschke
12460 River Road
Republic, MI 49879**

**Charles & Leslie Hurst
217 Croix St
Negaunee, MI 49866**

**Curtis & Julie Sjöholm
489 Cooper Lake Rd
Ishpeming, MI 49849**

**GMO Threshold Timber,
Michigan, LLC
45815 St Hwy M-26
Atlantic Mine, MI 49905**

**James & Deborah Rittenhouse
W1734 Townhall Rd
Campbell Sport, WI 53010**

**John Isaacson
4350 Campbell Road
Fort Gratiot, MI 48059**

**Michael & Joan Roy
185 Orchard Lane
Skandia, MI 49885**

**Patrick Manning
501 W. Ridge St
Marquette, MI 49855**

**Jerry Zymanski, MD
12721 Misty Harbor Lane
Palos Park, IL 60464**

**Drew & Michael Knepp
1005 Sunrise Ave
Iron River, MI 49935**

**Ronald Holcomb
575 W. Coulter Road
Lapeer, MI 48446**

**Robert & Deborah Rajsic
PO Box 224
Republic, MI 49879**

**Anthony & Darlene Hoffman
W2923 Warbler Lane
Sheboygan Falls, WI 53085**

**Republic Township
PO Box 338
Republic, MI 49879**

**Wulf & Scot McNeill
PO Box 22
Republic, MI 49879**

**Michael & Laurel Crampton
15204 Emory Court
Bowie, MD 20716**

**Donald & Linda Hurrell
11676 River Road
Republic, MI 49879**

**Keith & Denise Manning
S 22W 27424 Fenway Dr S
Waukesha, WI 53188**

**Bohdan Fedirko
PO Box 388309
Chicago, IL 60638**

Joanna Prokop
7740 Lorel Lane
Deerbank, IL 60459

Glenn & Carolyn Watters
5908 Morning View Lane
Weston, WI 54476

Brant Kucera
321 Pine St
Apt A
Marquette, MI 49855

David & Christina Depkon
1946 Manor Lane
Park Ridge, IL 60068

John Jilbert
200 Meeske
Marquette, MI 49855

**Florence Kulbicki & Marilyn
Rabideau**
584 20 Road
Grand Junction, CO 81507

Republic, Mountain Lake, LLC
599 Washington St
Ishpeming, MI 49849

Paul & Kristin Hilbert
4762 Pine Lane
Green Bay, WI 54313

Ralph & Patricia Watters
165 S Pansy St
Ishpeming, MI 49849

Todd & Elizabeth Collins
PO Box 156
Palmer, MI 49871

Daryl Ritola
PO Box 401
Republic, MI 49879

Holly Johnson
PO Box 233
Republic, MI 49879

Charles & Shelly Sullivan
504 E 38th St
Hibbing, MN 55746

Charles & Diane Niemi
317 Hemlock St
Republic, MI 49879

Aaro & Ritva Illi
PO Box 422
Republic, MI 49879

Joseph Van Nort
6 Windsong Dr
Fairview, NC 28730

Dana & Sharon Maze
40262 Kristen Dr
Sterling Heights, MI 48310

Robert Pearce
28528 US 41
Champion, MI 49814

Russell & Lisa Green
307 S. Main
Bellevue, MI 49021

Shane Carlson
PO Box 733
Assonet, MA 02702

Republic Dam and the community of Republic

- Republic Sportsmen's club has had a fishing derby on the Michigamme River for the past 26yrs. This being the 27th.
- The first derby had 80 fishermen signed up and on our 26th Derby we had 346 adults and 150 in the kids category. They are even known to not only come from all over the UP and parts of Lower Michigan they also come from...
 - Ohio
 - Minnesota
 - Wisconsin
 - Illinois
- Dam was built in 1898 – first used for to help supply electricity to the mine. Community has never known the River without its impound basin.
- For almost 10 yrs our towns TIFA organization has been having to negotiate with Roger Crimmins on his operating the dam so that we would be able to have the basin of water that we are accustomed too. The past three years we have had to pay Roger three thousand dollars to help us have the water level for the summer so we could continue to have our derby.
- The town spent a lot of money on building a pretty incredible campground along the river in hopes of maintaining the river basin
- On our 20th Anniversary we decided to turn the derby into a festival for everyone to enjoy. There is a parade, Fireworks, Live Music, camping, food, bouncy houses for the kids from Friday through Sunday.
- The 20th fishing Derby our first Prize Walleye was \$2,000 and on our 25th fishing Derby anniversary our first prize walleye was \$2,500~~0~~
- This past year it became known that our club treasurer had embezzled all of our money. The matter has gone to the prosecutor and is being worked on but in the

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Gabe Brown
Michigamme River Basin Authority

4-24-17
Date:

Roger Larson
Republic Mountain Lake, LLC

4/17/17
Date:

TIFA FINAL Meeting Minutes 6/6/2017

The meeting was called to order by Jim Brennan at 6:30 PM.

Salute to the flag.

Attendees: Jim Brennan, Norine Maki, Maggie Shepherd, and John Ulrich

John made a motion to approve the amended agenda, Maggie seconded the motion. Motion passed.

Jim made a motion to approve the minutes of the 5/9/17 meeting as corrected. John seconded the motion. Motion passed.

John made a motion to approve the minutes of the 4/7/17 meeting. Norine seconded the motion. Motion passed.

Treasurers report: None.

There was no public comment on the agenda. No public present.

Old Business:

Jim made a motion to refile the updated dam permit and to send the additional \$1,500.00 for the wetland addition to the permit. Maggie seconded the motion. Roll call vote: Jim – Aye, Norine – Aye, Maggie – Aye, John – Nay. Motion passed.

Jim reiterated the fact that the Michigamme River Basin Tax Increment Financing And Water Improvement Authority Development Plan needs to be updated.

The by-law changes as approved by the township board were signed and are to be given to the office manager for filing.

New business:

Jim made a motion to discuss the following with UPEA at no cost to the TIFA:

Cost of installing the Rock Crib Dam

Additional associated engineering costs

Wetlands study

Permitting of the Rock Crib Dam.

Norine seconded the motion. Motion passed.

Jim will research what kind of a lawyer will be needed to partner with another local organization on the purchase of the property and the installation of a Rock Crib Dam.

Public Comment – None

John made the motion to adjourn and Norine seconded the motion. Motion passed. Meeting adjourned at 7:08 PM.

John Ulrich, Supervisor

Republic Township

906-376-8139