

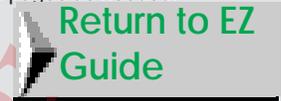
FOR GUIDANCE USE ONLY

Diver-Assisted Hand Removal of Invasive Plants

REGULATORY REFERENCE	FEE
Part 301. Inland Lakes and Streams General Permit Category U or Minor Project Category 47	\$50 GP \$100 MP
<u>GENERAL GUIDANCE</u>	
<p>You must answer True to all of the following statements for application to qualify as a general permit, and to use this guide:</p> <ul style="list-style-type: none"> Project is diver-assisted hand removal of nonnative, submergent or floating, invasive plants on an area in an inland lake \leq 800 square feet per single-family residential property for General Permit, and \leq 2 acres for Minor Project. Plants are removed by hand or using small hand tools, and plant fragments must be contained and collected. Photos of the plants to be removed are included with the application. If a suction dredge is used to transport and collect plants, it may not be used to remove pull or uproot plants, or suction sediments from the lake bottom. Plant removal occurs during the growing season. <p>Note: For a blank copy of the permit application form, go to: www.michigan.gov/jointpermit. For information on disposal options, go to: http://www.michigan.gov/deq/0,1607,7-135-3312---,00.html</p>	
<u>APPLICATION REQUIREMENTS</u>	
<p>Note: On-line users can go to the appropriate section or drawing by pressing the indicated button</p>	
<p>The following Sections of the Permit Application must be completed:</p>	
	
<p>Include the following drawing:</p>	<p>Include the following site plan and cross-section drawing:</p>
	
	



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>Fish Lake Drive; multiple properties</i>	Zip Code <i>49265</i>	Municipality Township/Village/City <i>Lake Township</i>	County <i>Otsego County</i>
Property Tax Identification Number(s) <i>See attached site plan property list</i>	Latitude <i>45.65210 N</i>	Township/Range/Section (TRS) <i>T 3 0 N or S; R 0 4 E or W; Sec 6</i>	
Subdivision/Plat and Lot Number <i>See attached site plan property list</i>	Longitude <i>- 85.55268 W</i>	OR Private Claim #	

2 Applicant and Agent Information

Owner/Applicant (individual or corporate name) <i>Fish Lake Property Owners Assoc.; John Smith Pres.</i>	Agent/Contractor (firm name and contact person) <i>Invasive Species, Inc.; Attn: Susan Wright</i>
Mailing Address <i>1234 Fish Lake Drive</i>	Mailing Address <i>4567 Warner Street</i>
City <i>Fish Lake Village</i> State <i>MI</i> Zip Code <i>49265</i>	City <i>Otsego</i> State <i>MI</i> Zip Code <i>49265</i>
Contact Phone Number <i>231-555-1200</i> Fax <i>231-555-1201</i>	Contact Phone Number <i>231-555-1000</i> Fax <i>231-555-1100</i>
Email <i>johnsmith@gmail.net</i>	E-mail <i>swright@ISI.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) <i>See attached site plan property list</i>	Mailing Address
Contact Phone Number	City State Zip Code

3 Project Description

Project Name <i>Fish Lake Invasive Plant Harvest</i>	Pre-Application File Number ____ - ____ - ____ -P
Name of Water body <i>Fish Lake</i>	Date project staked/flagged

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

- | | |
|--|--|
| <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 |

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

Harvest Eurasian Milfoil plants using diver assisted suction in three areas in western Fish Lake. Area A will be 6400 ft², Area B 1600 ft², and Area C 800 ft². All plant material will be collected using suction harvest equipment, collected, disposed of at the local municipal compost facility.

Construction Sequence and Methods

Plants will be removed by scuba diver, and collected using water suction equipment, including plant fragments. No sediment will be removed with suction. Plant material will be transported to the local municipal compost facility for disposal.



4 Project Purpose, Use and Alternatives <i>Attach additional sheets as necessary.</i>					
Describe the purpose of the project and its intended use; include any new development or expansion of an existing land use. <i>The purpose of this project is to remove Eurasian milfoil from the lake, to prevent spread of invasive species.</i>					
Describe the alternatives considered to avoid or minimize resource impacts. Include factors such as, but to limited to, alternative locations, project layout and design, and construction technologies. For utility crossings include alternative routes and construction methods. <i>Weevils and herbicide alternatives were reviewed and determined to be too expensive, and no action would result in further spread of plant in the lake.</i>					
5 Locating Your Project Site <i>Attach a legible black and white map with a North arrow.</i>					
Names of roads of closest intersection <i>M-55 and Fish Lake Drive</i>					
Directions from main intersection to the project site, with distances from the best and nearest visible landmark and water body <i>Take Fish Lake Drive South from M-55 intersection to 1248 Fish Lake Drive. Plants along the shoreline.</i>					
Description of buildings on the site (color; 1 or 2 story, other) <i>Tan; 1-story ranch house</i>			Description of adjacent landmarks or buildings (address; color; etc) <i>Area C can be viewed at 1242 Fish Lake Drive</i>		
How can your site be identified if there is no visible address? <i>Area A can be viewed from 1238 Fish Lake Drive</i>					
6 Easements and Other Permits					
<input checked="" type="checkbox"/> No <input type="checkbox"/> 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
<i>Fish Lake Assoc.</i>	<i>Board Approval</i>		<i>Dec. 2, 2011</i>	<i>Dec. 2, 2011</i>	
7 Compliance					
If a permit is issued, when will the activity begin? (M/D/Y) <i>July 1, 2012</i>			Proposed completion date (M/D/Y) <i>Aug. 31, 2012</i>		
<input checked="" type="checkbox"/> No <input type="checkbox"/> 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).					
<input type="checkbox"/> No <input type="checkbox"/> Yes Were the regulated activities conducted under a DEQ and/or USACE permit? ♦ If Yes, list the permit numbers _____					
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Are you aware of any unresolved violations of environmental law or litigation involving the property? ♦ If Yes, attach explanation.					
8 Adjacent Property Owners <i>Provide current mailing addresses. Attach additional sheets/labels for long lists.</i>					
<input type="checkbox"/> Established Lake Board	Contact Person	Mailing Address	City	State and Zip Code	
<input checked="" type="checkbox"/> Lake Association	<i>John Smith</i>	<i>1234 Fish Lake Drive</i>	<i>Fish Lake Village</i>	<i>MI 49265</i>	
List all adjacents. If you own the adjacent lot, provide the requested information for the first adjacent parcel that is not owned by you.					
Property Owner's Name		Mailing Address	City	State and Zip Code	
<i>See attached property list</i>					
9 Applicant's Certification <i>Read carefully before signing.</i>					
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 type="checkbox"/> Property Owner	Printed Name	Signature	Date		
<input checked="" type="checkbox"/> Agent/Contractor	<i>John Smith</i>	<i>John Smith</i>	<i>Jan. 4, 2012</i>		
<input type="checkbox"/> Corp. or Public Agency / Title					



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) 0-6 date of observation (M/D/Y) 8/4/11
 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		<input type="checkbox"/> peastone ___%	<input type="checkbox"/> sand ___%	<input type="checkbox"/> gravel ___%	<input type="checkbox"/> other _____	
Source of clean fill		<input type="checkbox"/> commercial	<input type="checkbox"/> on-site	➔ If on-site, show location on site plan.		
		<input type="checkbox"/> 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 <input type="checkbox"/> Hydraulic <input type="checkbox"/> Mechanical <input type="checkbox"/> 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.

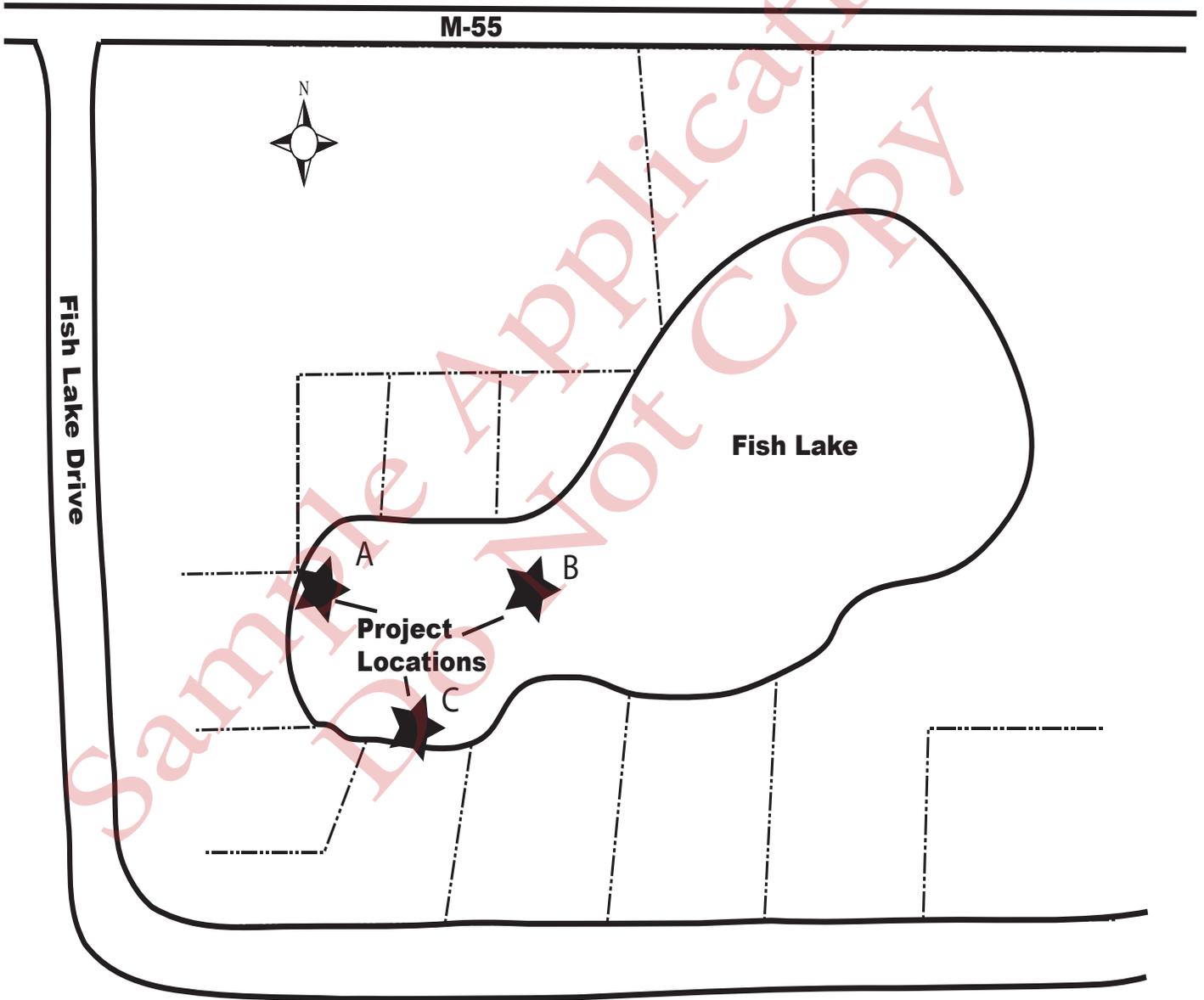
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 22, and 23)

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 _____			

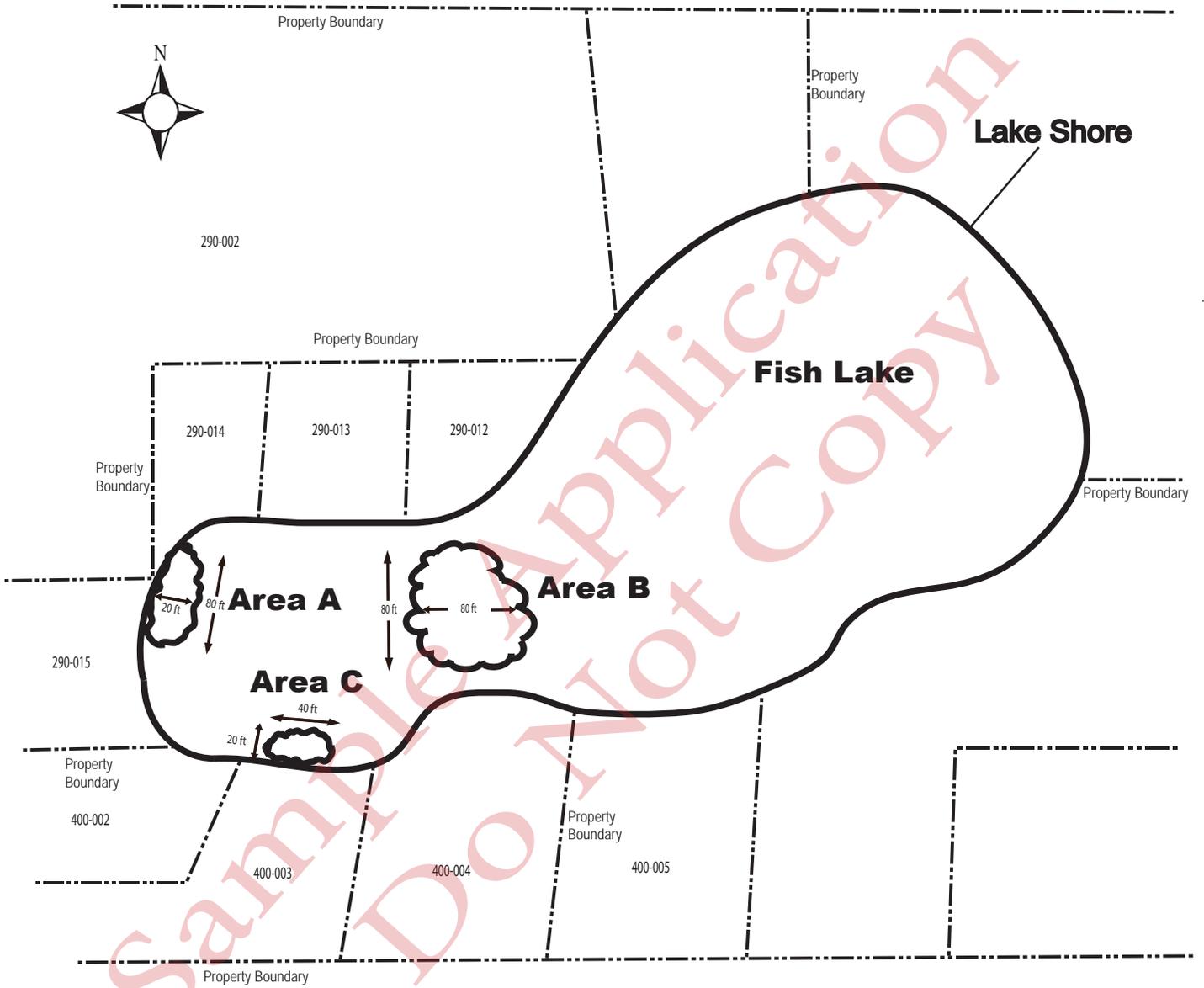
Sample Section 10M Table

	Length (ft)	Width (ft)	Area (ft²)	Water Depth (ft)	Latitude	Longitude	Plant Community
Area A	80	20	1,600	3	45.65210 N	-85.55268 W	90% Eurasian Milfoil
Area B	80	80	6,400	6	45.65195 N	-85.55205 W	80% Eurasian Milfoil
Area C	20	40	800	3	45.65015 N	-85.55210 W	95% Eurasian Milfoil
Total			8,800				

Sample Site Location Map



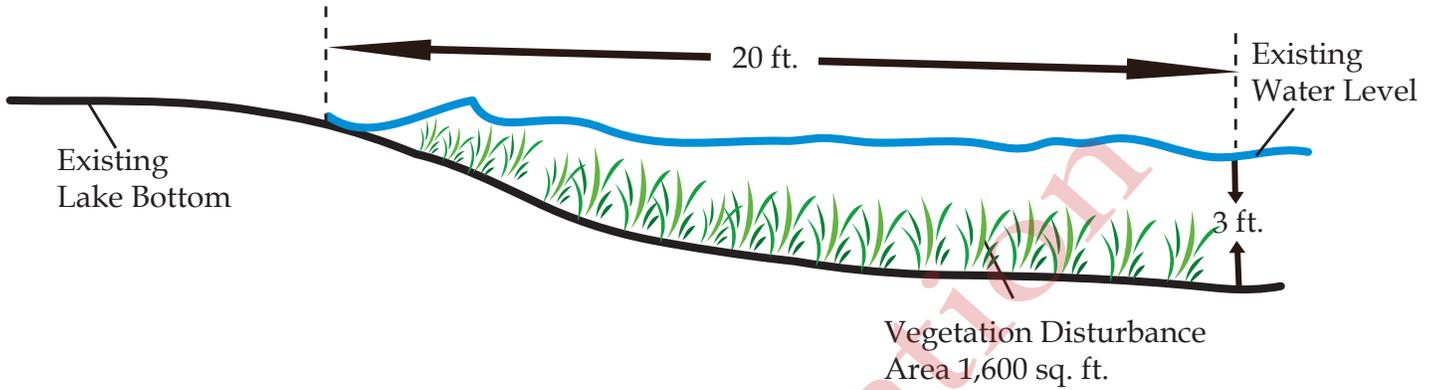
Sample Site Plan and Property List



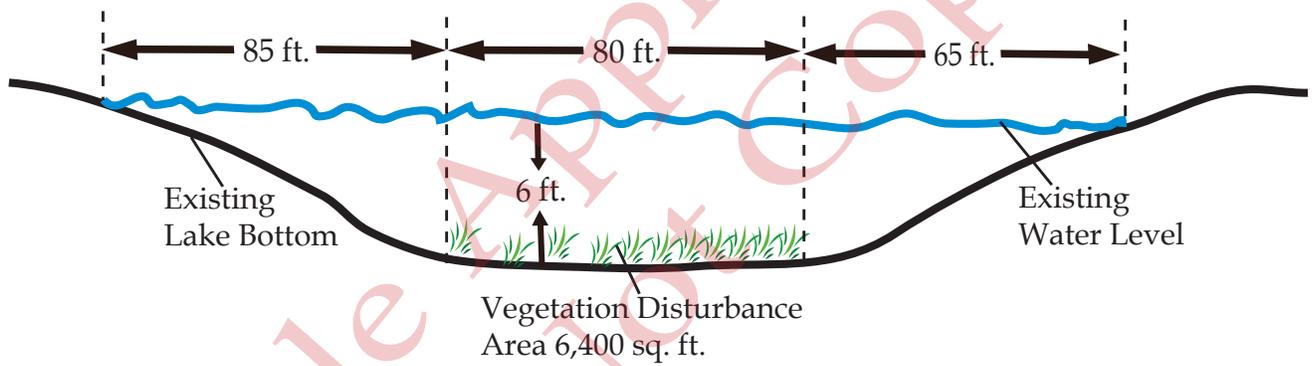
Parcel No.	Owner and Address	Parcel No.	Owner and Address
69-06-400-005	John Smith 1234 Fish Lake Dr. Fish Lake Village, MI 49265	69-06-290-015	Alice Wagner 1248 Fish Lake Dr. Fish Lake Village, MI 49265
69-06-400-004	Robert Johnson 1238 Fish Lake Dr. Fish Lake Village, MI 49265	69-06-290-002	Joseph Smith 1252 Fish Lake Dr. Fish Lake Village, MI 49265
69-06-400-003	William Johnson 1242 Fish Lake Dr. Fish Lake Village, MI 49265	69-06-290-014 69-06-290-013 69-06-290-012	Collins Family Trust 1425 Fish Lake Dr. Fish Lake Village, MI 49265
69-06-400-002	David Hill 1246 Fish Lake Dr. Fish Lake Village, MI 49265		

Sample Cross-Section Drawings

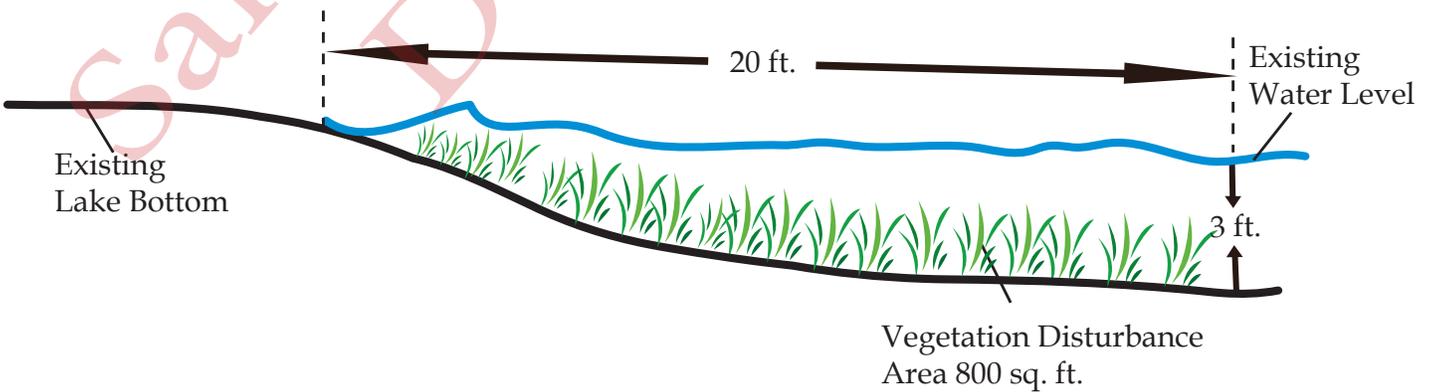
Area A



Area B



Area C



Sample Vegetation Photograph

