

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Data Management for Michigan's 404 Program

Anne Garwood and Chad Fizzell

Michigan Department of Environment, Great Lakes and Energy

June 2020



Data Management

- Public GIS Tool MiWaters Explorer
- Internal GIS Tool Site Plan
- Internal Database
- Required screening for Red Filing or other coordination
- Tracking and reporting
- Inform Decision-Making



AN EGLE Permit provides the following authorizations:

- Authorization Under Section 404 of the Federal Clean Water Act
- Water Quality Certification under Section 401 of the Clean Water Act
- Coastal Zone Certification
- Screening and Coordination with State and Federal Endangered Species Program
- Screening and Coordination with the Federal Historic Preservation Program



Files Subject to EPA Review



- Affect 1 or more acres of wetland
- New breakwaters or seawalls with total length >1000 feet
- Stream enclosures > 300 feet or more in 1 or more segments
- Stream relocation or channelization >1000 feet in 1 or more segments
- Discharges located in proximity to a public water supply intake.
- Discharges within Critical Areas under state or federal laws such as:
 - NATIONAL AND STATE PARKS
 - FISH AND WILDLIFE SANCTUARIES, WILDERNESS AREAS AND PRESERVES,
 - NATIONAL AND HISTORIC MONUMENTS OR IDENTIFED UNDER NATIONAL HISTORIC PRESERVATION ACT.
 - COMPONENTS OF THE NATIONAL WILD AND SCENIC RIVERS SYSTEM.



Files Subject to EPA Review



- Discharges with reasonable potential to:
 - Affect Threatened and Endangered (T&E) Species as determined by USFWS
 - Cause adverse impacts on waters of another State or Tribe
 - Contain known or suspected toxic pollutants in toxic amounts or hazardous substances in reportable quantities



MiWATERS and Michigan's 404 Program: Using GIS for Better Project Screening, Evaluation, and Dissemination







MIWATERS LANDING PAGE

EGLE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY MiWaters

NPDES, Groundwater, Resource Permitting, Aquatic Nuisance Control, Wastewater Construction

Permitting & Compliance

What can I do here?

For registered users, MiWaters is the portal to several types of actions:

- Apply for permits
- · Manage your permits (pay fees, apply for renewals)
- Submit reports (required by your permit or certification)
- Submit service requests
- View issued permits
- See your notifications
- Review evaluations / site inspections

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About Contact > 1 MI.gov Home

Public Information and Services

These services are provided to be freely used by the public; no account is necessary to make use of them.

Public Notice Search

Find public notices, hearings, and other events. Access documents made available to the public.



Search for Combined Sewer Overflow (CSO), Retention Treatment Basin (RTB), and Sanitary Sewer Overflow (SSO) discharge events

Site Map Explorer

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Use our mapping tools and advanced

EGLE

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EGLE MiWaters - Water Resources Information and Forms



GETTING STARTED

To find the site you are looking for, you can:

Use the Search Bar above

Enter any identifying information into the search bar above, and both the Results list and the map will populate with any relevant results. This is a general search and will return results for each word in the search bar.

OR

Manipulate the Map

Focus in on a specific location using a mouse and the zoom tools or click on a bubble and the map will zoom to the location.

ADDITIONAL HELP

Q Simple Search

Enter any text into the keyword search. The results are based on each word. Using quotes





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EGLE MiWaters - Water Resources Information and Forms



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- The General Search box is a
 'Keyword' search and will
 return all records from
 MiWaters including that
 Keyword
- The map and site list to the left will also dynamically update to reflect your search
- All search functionality returns are based on MiWaters 'Sites', there is no 'geography search'
- Results are also limited to the extent of your map
- Searches can be cleared utilizing the 'Reset' button under the Search box

FINDING A SITE -- ADVANCED SEARCH

 Clicking on the drop down arrow shown displays the Advanced Search, including fields for Site Name, Address, and Town/Range/Section



FINDING A SITE -- SELECTING A SITE

• Once you've located your site within Explorer, you can select your site either on the map, or on the site list to the left.

Home About Contact



FINDING A SITE -- SITE PROFILE

Home About Contact EGLE MiWaters – Water Resources Information and Forms 56 Jefferson at Kawkawlin River 6 11 \odot ₽ R × Jefferson Road Midland MI 48642 Search By Keyword ENVIRONMENTAL INTERESTS DOCUMENTS ≛ Q PROFILE MAP < SHOW LESS INFORMATION **Environmental Interests** 1 site found 56 Jefferson at Kawkawlin River Resources Individual Permit: WRP003456 v1.0 -Jefferson Road 0 Effective 08/04/2016 to 08/04/2021 (In Effect) () Midland MI 48642 EFFECTIVE 08/04/2016 EXPIRATION 08/04/2021 Geopolitical Selecting a site in the map or \triangleright BASIN on the site list, launches the SOURCE SYSTEM Kawkawlin-Pine Water Resources Information and Forms Site Profile screen, COUNTY SOURCE SYSTEM ID providing access to basic Midland WRP003456 information about the site, HUC12 Permits, timelines, basic 040801020201 geography, etc Site Contacts HUC8 04080102 None. TR

FINDING A SITE: SITE PROFILE: ENVIRONMENTAL INTERESTS

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EGLE MiWaters – Water Resources Information and Forms 56 Jefferson at Kawkawlin River 11 6 \odot ₽ R × Jefferson Road Midland MI 48642 Search By Keyword Q ENVIRONMENTAL INTERESTS DOCUMENTS ⇒ PROFILE MAP < SHOW LESS INFORMATION 1 site found Source System End Date Long Description Description Program Id Start Date ٥. т Τ Τ Т Υ Υ 56 Jefferson at Kawkawlin River Jefferson Road Resources Individual Permit: Water Resources Information WRP003456 Permit: WRP003456 v1.0 - Resources Individual Permit (In Effect) 08/04/2016 08/04/2021 WRP003456 v1.0 - Effective and Forms Midland MI 48642 08/04/2016 to 08/04/2021 (In Effect) 4 B All regulatory actions are summarized in table from on the Environmental Interests tab •

Home

About

Contact

FINDING A SITE -- SITE DETAILS - DOCUMENT DOWNLOAD

Home About Contact EGLE MiWaters – Water Resources Information and Forms 56 Jefferson at Kawkawlin River 6 \odot R × Jefferson Road Midland MI 48642 Search By Keyword ≛ Q PROFILE MAP ENVIRONMENTAL INTERESTS DOCUMENTS < SHOW LESS INFORMATION Select All 3 Documents Clear Selections 1 site found File Date Type Description ۵. 56 Jefferson at Kawkawlin River Jefferson Road Υ Υ Υ т Midland MI 48642 Intersection of Special interests.pdf Application/Request 2GA-TKN6-1JWR Application/Request : miscellaneous application and request documents 06/17/2016 Application/Request 2GA-TKN6-1JWR Application/Request : Attachments imported from nForm Submission 06/14/2016 permit app.pdf v1 proposed.pdf v1 Application/Request 2GA-TKN6-1JWR Application/Request : Attachments imported from nForm Submission 06/14/2016 ✓ Page: 1 of 1 > 5 rows 🗸 1 - 3 of 3 D All regulatory documents for a site can be found and downloaded • under the **Documents** tab

EXPLORING A SITE -- GIS LAYERS

EGLE MiWaters – Water Resources Information and Forms

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- Multiple GIS layers and backdrops can be added
- Features within the layers can be clicked for Attribute Information
- Other layers of interest include:

USACE Section 10 Areas Coastal Program Regulatory boundaries Historical and Archaeological Sites, Wetland Inventories

Information from other EGLE programs such as Landfills and Contaminated Sites

EXPLORING A SITE -- GIS TOOLS

• Zoom to Site Location

Home About Contact



EXPLORING A SITE -- GIS TOOLS – ADJACENT SITES

All Water Resource Division sites remain on to illustrate ALL regulatory actions within the area of your chosen SITE

Contact

MiWaters - Water Resources Information and Forms EGLE



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GETTING STARTED

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To find the site you are looking for, you can:

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Enter any identifying information into the search bar above, and both the Results list and the map will populate with any relevant results. This is a general search and will return results for each word in the search bar.

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Manipulate the Map

Focus in on a specific location using a mouse and the zoom tools or click on a bubble and the map will zoom to the location.

ADDITIONAL HELP

Q Simple Search

Enter any text into the keyword search. The results are based on each word. Using quotes



EXPLORING A SITE -- GIS LAYERS

• If multiple layers are clicked at the same location, layer details will be returned for all



EXPLORING A SITE -- DISTANCE MEASUREMENT

• Select Feature Type and Units. Click once at starting point, and double click to complete the distance measurement



• Aerial Imagery and an area calculation tool have been provided for conducting area measurements



← → Ů https://miwaters.deq.state.mi.us/miwaters/external/home



MiWaters

NPDES, Groundwater, Resource Permitting, Aquatic Nuisance Control, Wastewater Construction

Permitting & Compliance

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- Submit reports (required by your permit or certification)
- Submit service requests
- View issued permits
- See your notifications
- Review evaluations / site inspections

To get started, you'll need an account.



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Public Information and Services

These services are provided to be freely used by the public; no account is necessary to make use of them.



[👌 Site Map Explorer

Use our mapping tools and advanced search capabilities to navigate all available Water Resources Division

A SPATIAL APPROACH TO SITE TRACKING AND SCREENING

• ESTABLISHES THE USE OF SPATIAL COORDINATES FOR PROJECT TRACKING. POINT/LINE/POLYON FEATURES AVAILABLE TO INTERNAL STAFF FOR SITE CREATION

SPATIAL APPROACH ALLOWS GIS LAYER INTERSECTION TO SCREEN PROJECTS BASED ON PROJECT LOCATION

 SCREENING LAYERS CAN BE KEPT CURRENT BY LINKING DIRECT TO AGENCY SERVERS AND AGENCY MAINTAINED DATA

• KML/KMZ SITE DATA IMPORT AVAILABLE SOON





Site Details

Site Number 6458-CQK4-Y3F 31 - U.S.- 41 - wetland



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EGLE

Site Number 64S8-CQK4-Y3F Site Details 31 - U.S.- 41 - wetland Program Components Details Site Plan Relations Documents Events Contacts Edit Feature Q Satellite - Layers ο Detail Intersections Buffer 1500 Feet Apply Clear Generate Feature Intersection Data Legend Warning: this feature intersects with a HAL HAL Sections area USPWS Massasauga Habitat MNFI T&E Species Animal Community Intersections Other Plant USFWS Critical Habitats HAL Sections: Known Archaeological Site USFWS Mussel Protocol - Group 1 - State special concern ▶ Wetland Inventory 2005: PFO4B - Group 2 - State threatened or endangered - Group 3 - Federally threatened or endangered Wetland Inventory 2005 OK Streams and Rivers



Site Details

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Site Number 64S8-CQK4-Y3F 31 - U.S.- 41 - wetland





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	Landfill (Old)	
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-	WETLANDS	
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VENVIRONMENTAL

Contaminated Sites

DEQ Dam Inventory

Kermit PT

Kermit PY

Wetland Inventory 2005

Hydric Soils









MiWaters Permit Components Data

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Permit Details 🔍 Pe	Resour	Garwood Test Site rces Individual Permit - WRP020725 v1.0
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Parts applied

Part 303 - Wetlands Protection

Part 301 - Inland Lakes and Streams

Section 404 of Clean Water Act

Activities

Fill (except spoil disposal or swim areas)

Culvert

Minor Project/General Permit Categories

MP 20. Fills - Minor MP 10. Culverts - Large

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Activity Description

40 ft long new bottomless culvert crossing of stream and 15 cubic yards of fill in

800 sq ft of wetland for pole barn construction



Is the project in Section 10 Waters?

No

Does this require EPA review - Red File?

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Is this project in the Coastal Zone Management Area?

No

Is this permit application "After the Fact"?

Was the proposed impact modified in the issued permit?

Yes

No

No

○ No

Is this an expedited permit due to "high water" issues.

No



Project Activities (Requested Vs. Permitted)

Fill (except spoil di areas)	sposal or	swim 🖕	0.5	50	Acre	es ₹		0.02	Acres	•	×
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MiWaters and Wetland Mitigation

Mitigation Acreage Requirements	
Есо Туре	
Wetland - Forested	•
Mitigation Ratio	
Permitted Impacted	
2	
Preservation Proposed	
Permitted Impacts minus 10:1 ratio for Preservation	
2	
Required Mitigation (based on Statutory Ratio)	
4	

MiWaters and Wetland Mitigation

Mitigation Bank Site Name		
Clinton River Watershed Wetland Mitigation Bank #2	•	
Есо Туре		
Wetland - Forested	•	
Watershed		
12 - CLINTON	•	
Eco Region		
VI.1.1 - Maumee Lake Plain	•	



MiWaters and Wetland Mitigation

Permit Details 📿 Permit	5						1	Resources Individual Perm	Garwood Test Site tit - WRP020726 v1.0
Details Documents	Events	Contacts	Program Components	Schedules	Features and Limits	Annual Charge	Relations	Related Permits	Financial Instruments
Wetland Mitigation	Eco Type								
Eco Type	Permitted Impacted	\$	Remaining Required Mitigation	\$	Total Mitigation Credits	Verified Mitigation Provided	٠	Credits Provided Minus Required	٠
Wetland - Emergent	5	N.	6		6	6		0	Open
Wetland - Forested	10	5	10		10	10		0	Open
Wetland - Scrub/Shrub	5		7.5		7.5	6.5		-1	Open



MiWaters Information

www.Michigan.gov/miwaters



EGLE Contacts Permits Online Services Programs Locations 10 ML gov



Michigan Department of **Environment, Great Lakes, and Energy**

800-662-9278 www.Michigan.gov/EGLE





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