

USING GIS FOR BETTER PROJECT SCREENING AND EVALUATION



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APPLICATION SCREENING -- MiWATERS

The screenshot displays the MiWaters website interface. At the top, a navigation bar includes the DEQ logo and links for Home, About, Contact, Sign In, and My Account. The main heading reads "MiWaters – Water Resources Information and Forms" with a subtitle "Times and Ratings Permit Applications and Service Requests".

A central section titled "Why Create a MiWaters Account?" lists reasons for creating an account: "If you are planning on any of the following: Building on a sensitive area, such as a dune or a wetland; Discharging wastewater of any kind; Applying pesticides to a water body; ... or other activities, you'll need to create a MiWaters account." To the right of this list are two buttons: "CREATE AN ACCOUNT" and "SIGN IN WITH AN EXISTING ACCOUNT".

Below this, a section titled "Public Information and Services" states "Keep informed with our online tools — no account necessary". This section contains three sub-sections:

- SITE MAP EXPLORER**: Features a map of a coastal area with a sidebar for "Map Layers" (Topography, Elevation, Other Information, 2010 Census Data). A text box below the map says: "Use our Explorer Mapping Tools and additional web/R capabilities to navigate all available Water Resources Division public site information."
- PUBLIC NOTICE SEARCH**: Includes a search interface with a map and a text box stating: "Keep informed about public notices, hearings, and other events, and access documents related to Water Resources permit applications."
- REPORT SPILLS, POLLUTION, UNAUTHORIZED ACTIVITIES**: Features a form for reporting incidents. A text box on the right says: "If you're witness or become aware of spills, pollution, or any other unauthorized activities in watersheds, bays, or streams, you can use our online tools to apply for a report, with complete anonymity if you choose."

The footer contains links for Sign In, Account, Contact, Home, and a copyright notice: "Copyright 2017 State of Michigan".

APPLICATION SCREENING -- BASIS OF PROJECT SCREENING

- **MOA between EPA and DEQ**

EXAMPLES

Interstate Waters

Drinking Water Intakes

- **State Law (NREPA)**

EXAMPLES

State Natural Rivers

State Historic/Archaeological Sites

- **MI Coastal Zone Management Program**

EXAMPLES

CZM Certification

- **Some Criteria addressed in both MOA and State Law**

EXAMPLES

Contamination

T&E Species



- **STATE OR FEDERALLY LISTED OR THREATENED OR ENDANGERED SPECIES**
(including USFWS designated critical habitat areas)
Data Source: MI Natural Features Inventory
- **INTERSTATE WATERS (including tribal lands)**
Data Source: Wetlands, Lakes, and Streams unit, DEQ
- **AREAS OF KNOWN OR SUSPECTED CONTAMINATION (Superfund, etc)**
Data Source: Remediation and Redevelopment Division, DEQ

- **AREAS OF KNOWN OR SUSPECTED CONTAMINATION**
(Dredge sediment testing requirements)

Data Source: Remediation and Redevelopment Division, DEQ

- **PROXIMITY TO A PUBLIC WATER INTAKE (within one mile)**

Data Source: Office of Drinking Water, DEQ

- **NATIONAL AND STATE PARKS**

Data Source: Conservation and Recreation Lands (CARL), Ducks Unlimited



- **FISH AND WILDLIFE SANCTUARIES AND REFUGES**

Data Source: Conservation and Recreation Lands (CARL), Ducks Unlimited

- **NATIONAL AND HISTORICAL MONUMENTS**

Data Source: Conservation and Recreation Lands (CARL), Ducks Unlimited

- **FEDERAL WILDERNESS AREAS AND PRESERVES**

Data Source: Conservation and Recreation Lands (CARL), Ducks Unlimited



- **NATIONAL HISTORIC PRESERVATION ACT SITES**
Data Source: State Historic Preservation Office
- **NATIONAL WILD AND SCENIC RIVERS**
Data Source: US National Park Service
- **STATE DESIGNATED WILDERNESS/NATURAL AREAS,
OR ENVIRONMENTAL AREAS**
Data Source: MI Department of Natural Resources

- **STATE HISTORIC OR ARCHAEOLOGICAL SITES**
Data Source: State Historic Preservation Office
- **IDENTIFIED RECHARGE AREAS FOR DRINKING WATER AQUIFERS**
Data Source: Office of Drinking Water, DEQ
- **IDENTIFIED RARE OR UNIQUE ECOLOGICAL TYPES**
(Rare and Imperiled Community Types)
Data Source: MI Natural Features Inventory

- **MICHIGAN NATURAL RIVERS**

Data Source: MI Department of Natural Resources

- **USACE SECTION 10 AREAS**

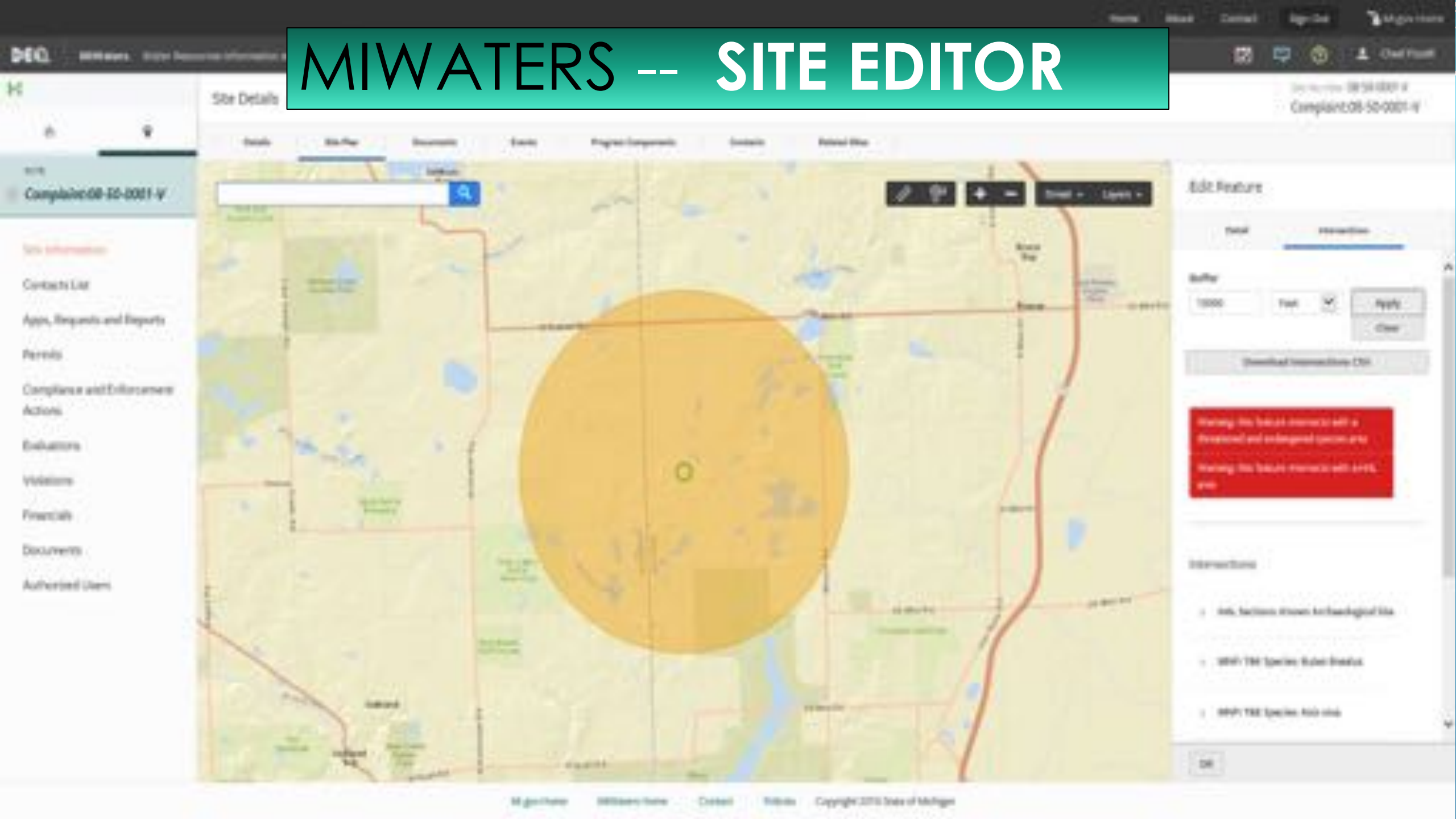
Data Source: Wetlands, Lakes, and Streams Unit, DEQ

- **MICHIGAN'S COASTAL ZONE**

Data Source: MI Coastal Zone Management Program, DEQ



MIWATERS -- SITE EDITOR



- ESTABLISHES THE USE OF LATITUDE/LONGITUDE COORDINATES FOR PROJECT TRACKING
- 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

Navigation bar: Home, About, Contact, My Account

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

Section 2: Project Location Information


If you have selected an existing site, the project name and location information may pre-fill.

DEQ Use Reference Number (Pre-Permits, if applicable): 15A025000007111014

Water Facility Name:

Project Location:

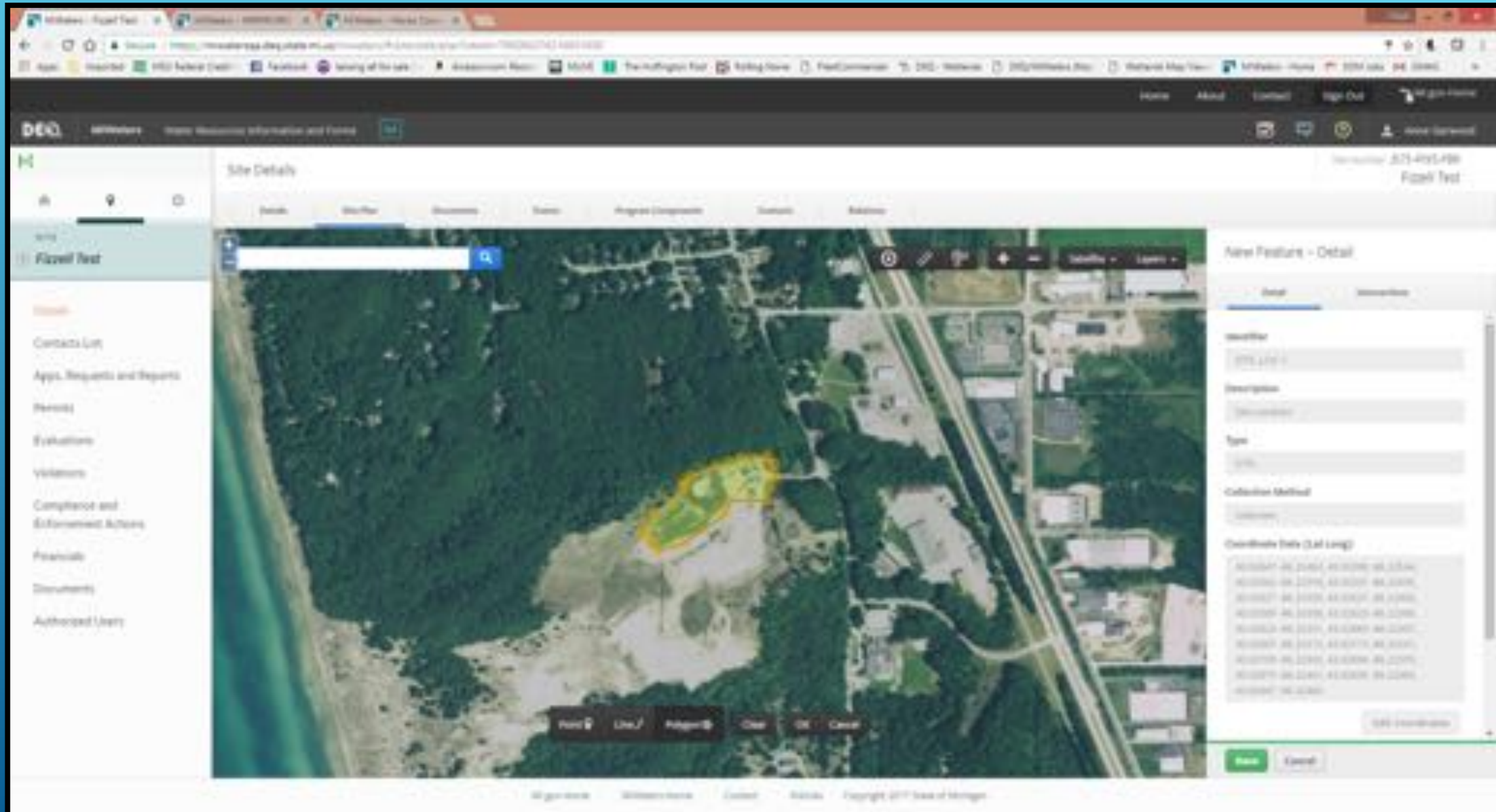
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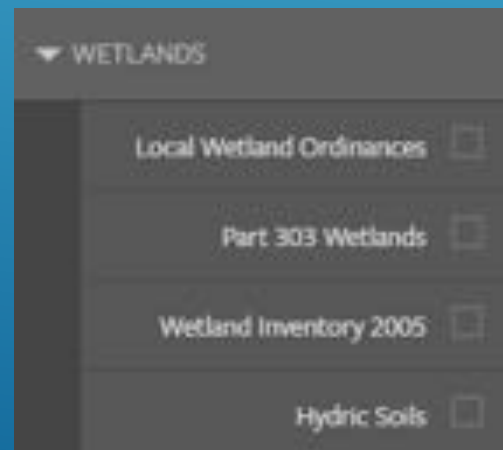
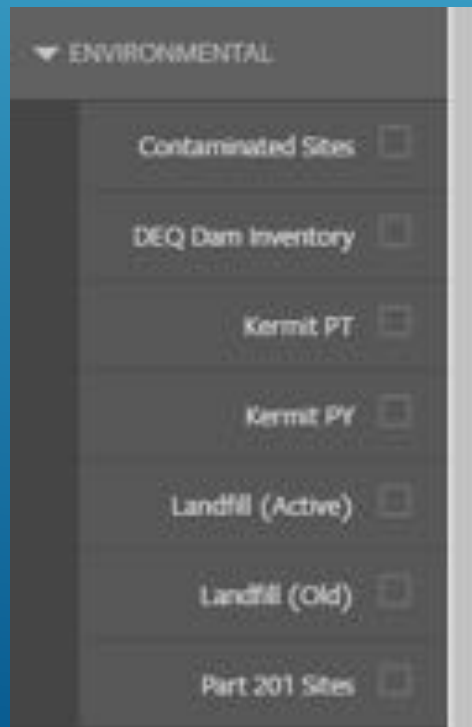
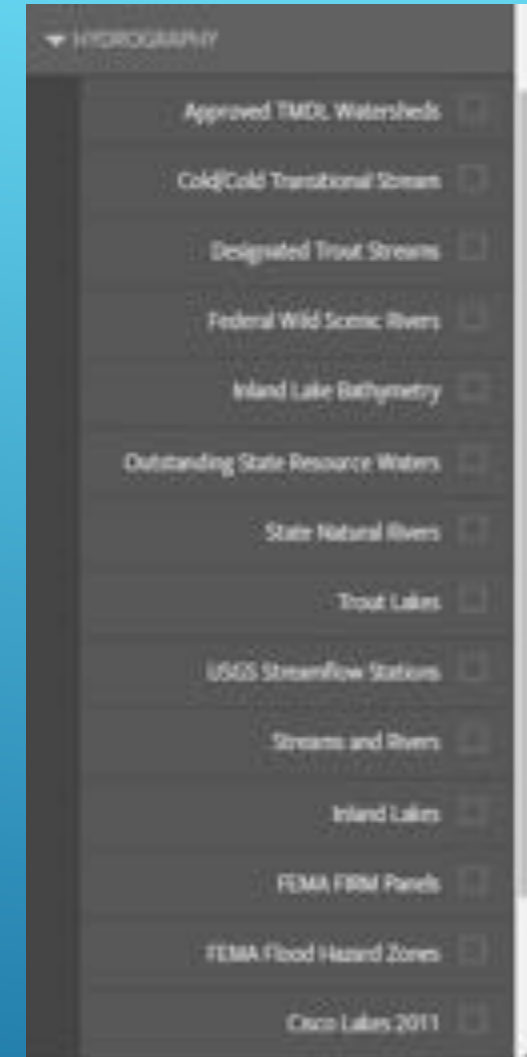
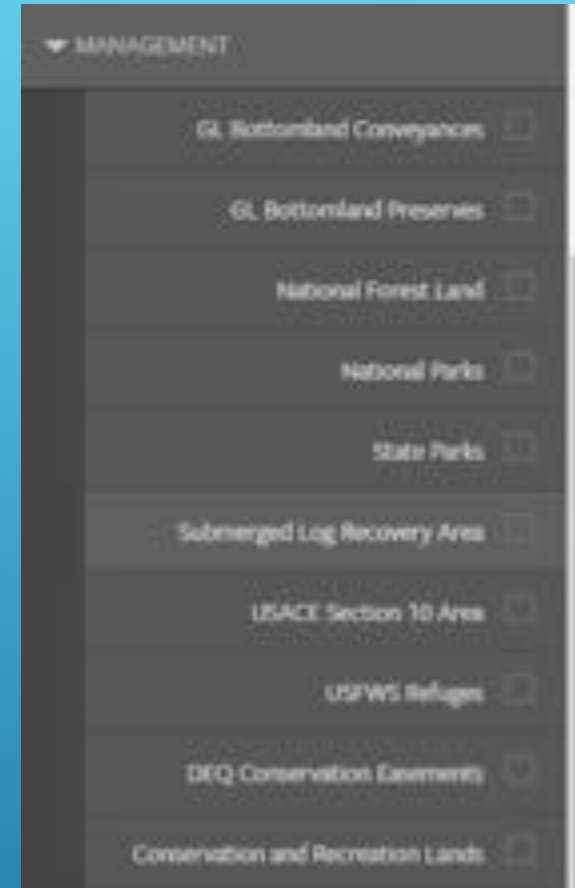
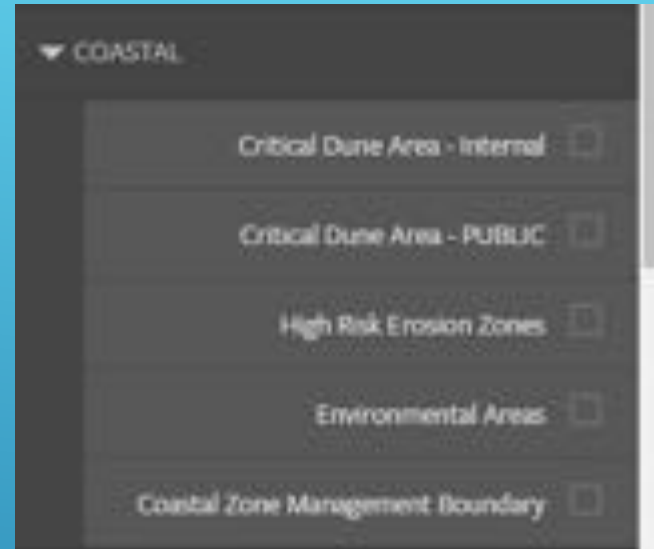
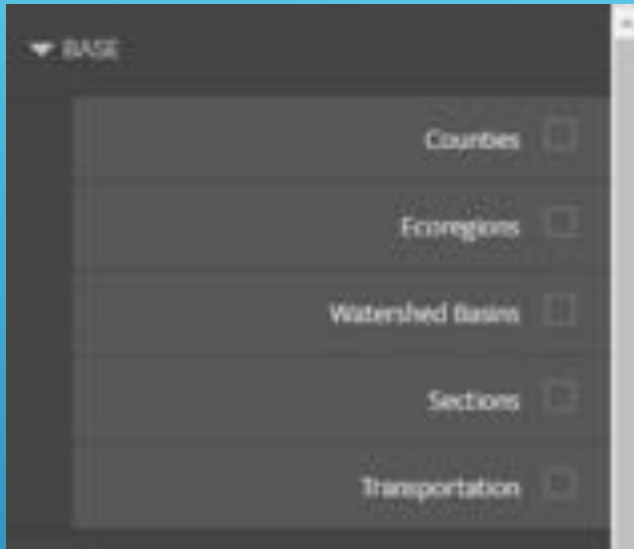
Location coordinates:

Project Location Address:

The screenshot displays the 'NEW SITE IN SITE EDITOR' interface within the MIWATERS SITES application. The browser address bar shows the URL: <https://miwaters.deq.state.nj.us/miwaters/#/newSite?location=790206027623&lat=40.0000000>. The top navigation bar includes links for Home, About, Contact, Sign Out, and a user profile icon labeled 'John Corbett'. The main header features the DEQ logo and the text 'MIWATERS - Water Monitoring Information and Forms'. The left sidebar contains a 'Site Search' section with a search bar and a list of categories: Contacts List, Apps, Requests and Reports, Records, Evaluations, Violations, Compliance and Enforcement Actions, Financials, Documents, and Authorized Users. The central area is titled 'Site Details' and includes tabs for Details, Map, Documents, Events, Progress (Completed), Contacts, and Related. The 'Map' tab is active, showing an aerial view of a site with a yellow pin. The right sidebar displays 'Site Features' with an 'Add New' button and a 'Site Map' section showing a map of the site with a yellow pin. The footer includes the text 'All rights reserved. All content is the property of the State of New Jersey. Copyright 2017 State of New Jersey'.



[illegible]



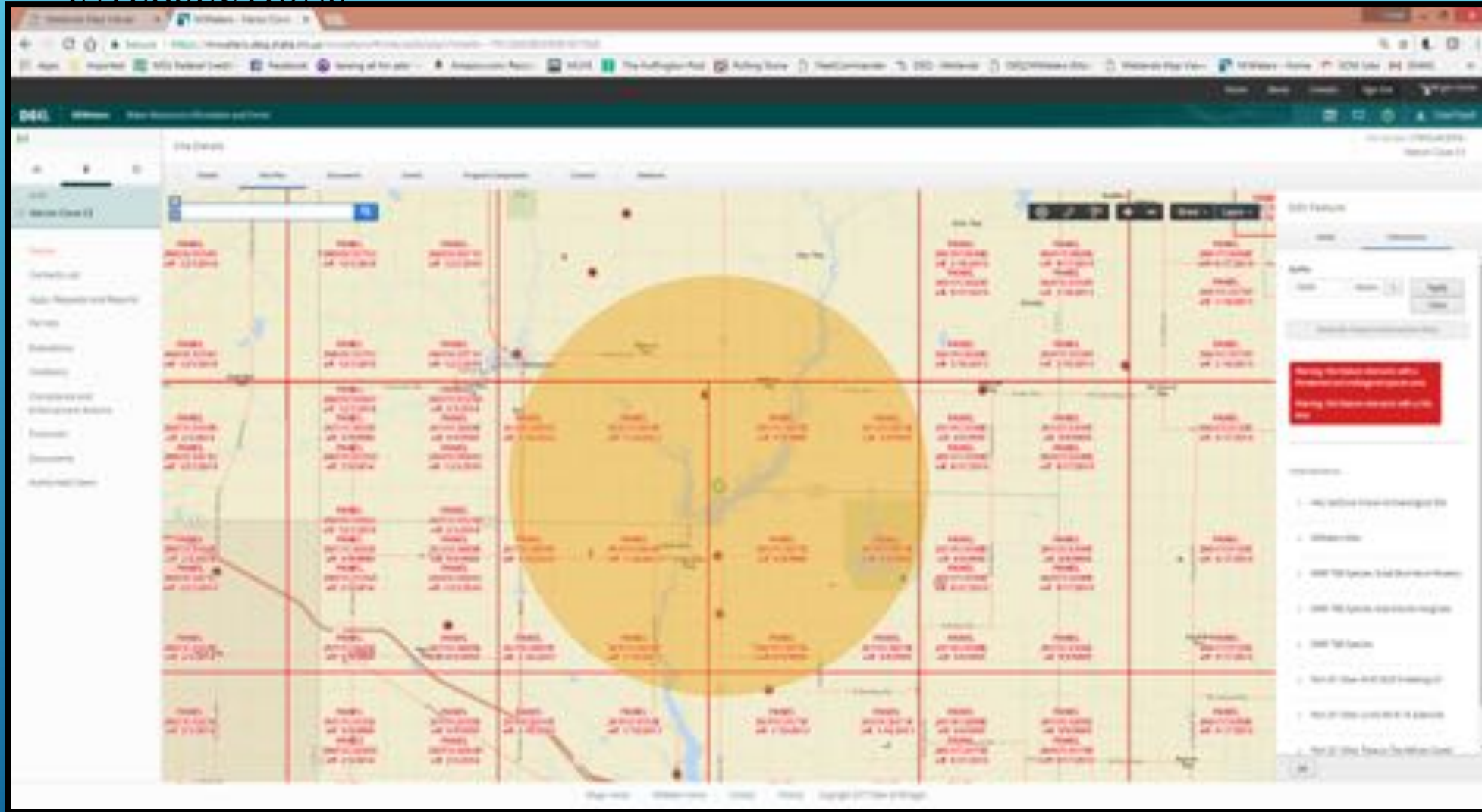
The screenshot displays the MIWATERS Sites web application interface. The main map area shows a satellite view with a yellow circular buffer centered on a location. Overlaid on the map are various colored regions: a large red area, a green area, and a yellow area. A sidebar on the left, titled 'Site Features', is highlighted with a black border. It contains an 'Add New' button, a search bar, and a legend. The legend includes the following items:

- USACE Section 10 area
- DEQ Conservation Easements
- Critical Zone Area - PUBLIC
- Coastal Zone Management Boundary

A sidebar on the right, titled 'Buffer', contains a 'Buffer' section with a 'Type' dropdown set to 'Circular' and a 'Radius' input field. Below this is a 'Generate Buffer' button. The bottom of the screen shows a copyright notice: 'Copyright 2017 DEQ & MDE'. The DEQ logo is visible in the bottom right corner.

LAYER INTERSECTIONS

INTERSECTION RESULTS



Edit Feature

Details

Intersections

Warning: this feature intersects with a threatened and endangered species area

Warning: this feature intersects with a HAL area

Intersections

HAL Sections: Known Archeological Site

Millers Site

IMR T&E Species: Great Blue Heron Roostery

IMR T&E Species: Alamidonta marginata

IMR T&E Species:

Part 201 Sites: MA-30-5625 N Harding Ct

OK

INTERSECTION EXPORT

GENERATE FEATURE INTERSECTION DATA REPORT

The screenshot displays the DEQ web application interface. The main map area shows a satellite view with various colored overlays representing different land use or conservation areas. A sidebar on the left contains navigation links such as 'Home', 'Conservation', 'Public Resources and Reports', 'Records', 'Evaluation', and 'Investment'. A 'Site Details' panel is open on the right, showing a list of site features. A yellow box highlights the 'Generate Feature Intersection Data' button in the 'Site Features' panel. Below the map, a 'Site Features' panel is visible, containing a search bar, a list of features, and a legend. The legend includes items like 'USACE Section 10 Area', 'DEQ Conservation Easements', 'Critical Zone Area - PUBLIC', and 'Coastal Zone Management Boundary'. The bottom of the screen shows a footer with 'Copyright 2017 DEQ'.

INTERSECTION EXPORT

GENERATE FEATURE INTERSECTION DATA REPORT

Intersection Report
Generated On: Sep 21, 2017
Generated By: mike

Feature List

Feature ID	Name	Status
1	Feature 1	Active
2	Feature 2	Active
3	Feature 3	Active
4	Feature 4	Active
5	Feature 5	Active
6	Feature 6	Active
7	Feature 7	Active
8	Feature 8	Active
9	Feature 9	Active
10	Feature 10	Active

Intersection Data

Intersection ID	Name	Status
1	Intersection 1	Active
2	Intersection 2	Active
3	Intersection 3	Active
4	Intersection 4	Active
5	Intersection 5	Active
6	Intersection 6	Active
7	Intersection 7	Active
8	Intersection 8	Active
9	Intersection 9	Active
10	Intersection 10	Active

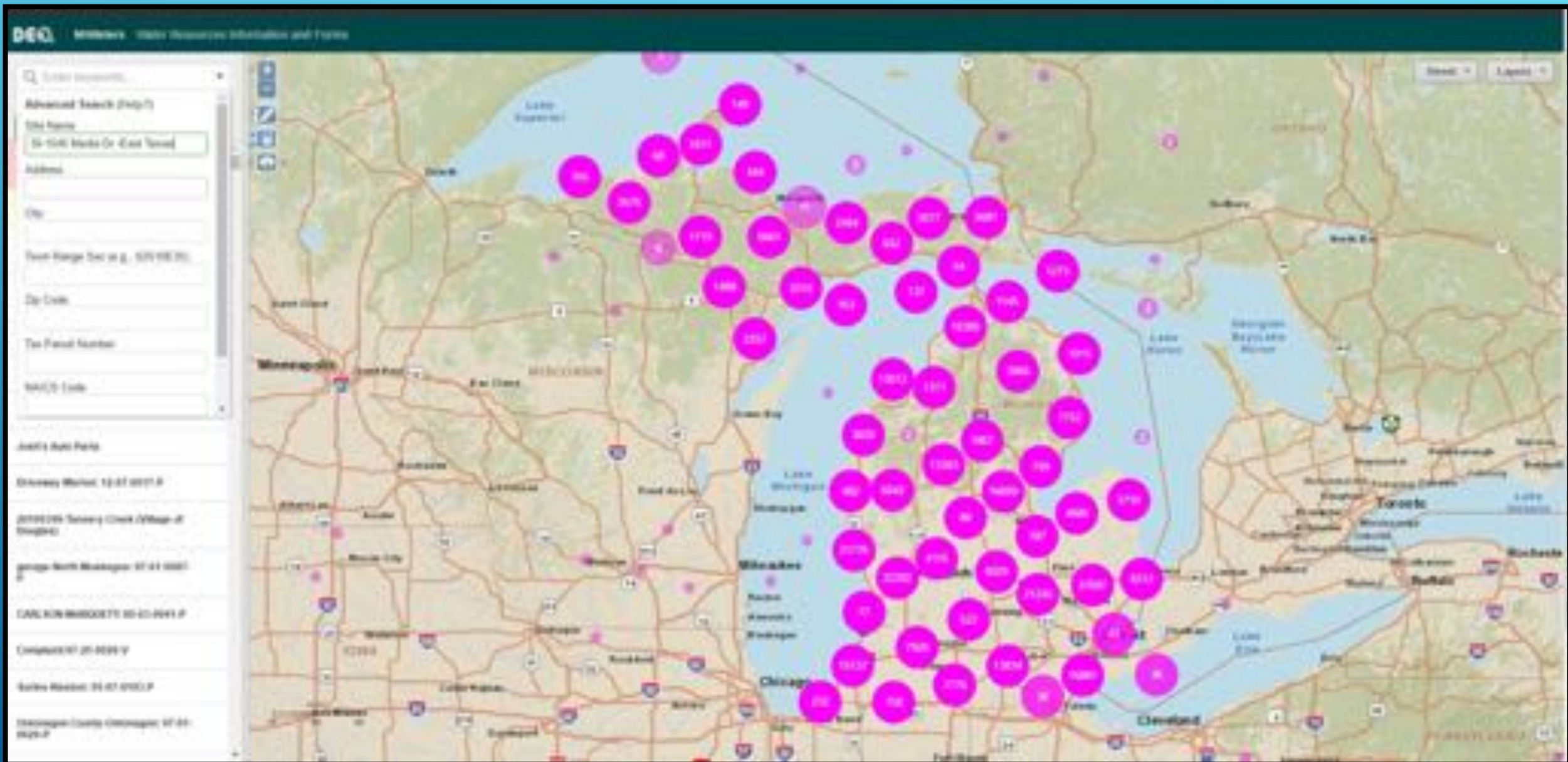
The screenshot displays the MIWATERS Identify Tool web application. The interface includes a top navigation bar with links like Home, About, Contact, Sign Out, and a Chat icon. Below this is a site-specific header for 'Wilson-Carrizosa 00-70-0049-P'. The main content area features a map with a search bar and a popup window showing details for a facility. The popup text is as follows:

FACILITY_NAME
FACILITY_NAME: Wilson-Carrizosa
CONTRACT_ID: 7112015425
CONTRACT_NAME: Wilson-Carrizosa

On the right side of the map, there is a 'Site Features' section with a search bar and a list of features. The bottom of the page shows a footer with 'Copyright 2017 State of Michigan'.

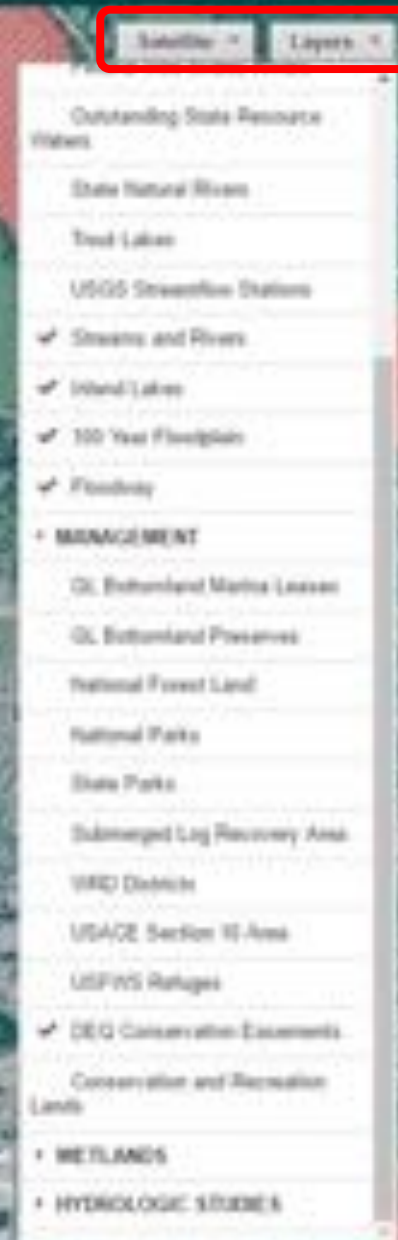
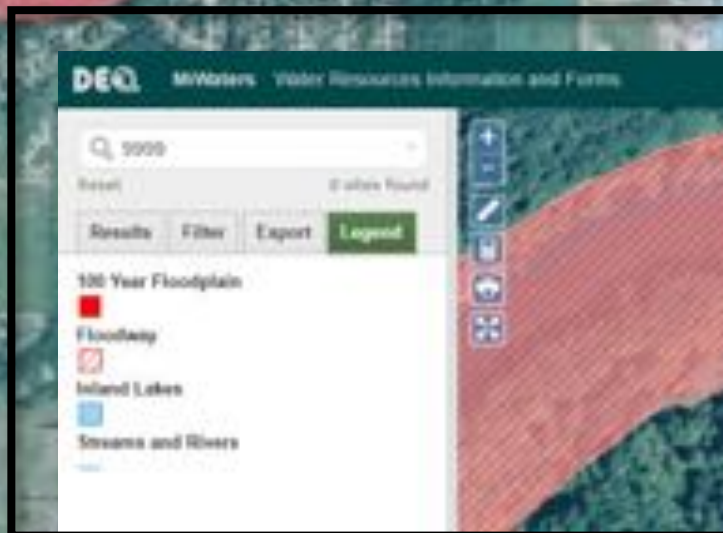
SCREENING TOOLS AVAILABLE TO EXTERNAL CUSTOMERS

SITE EXPLORER



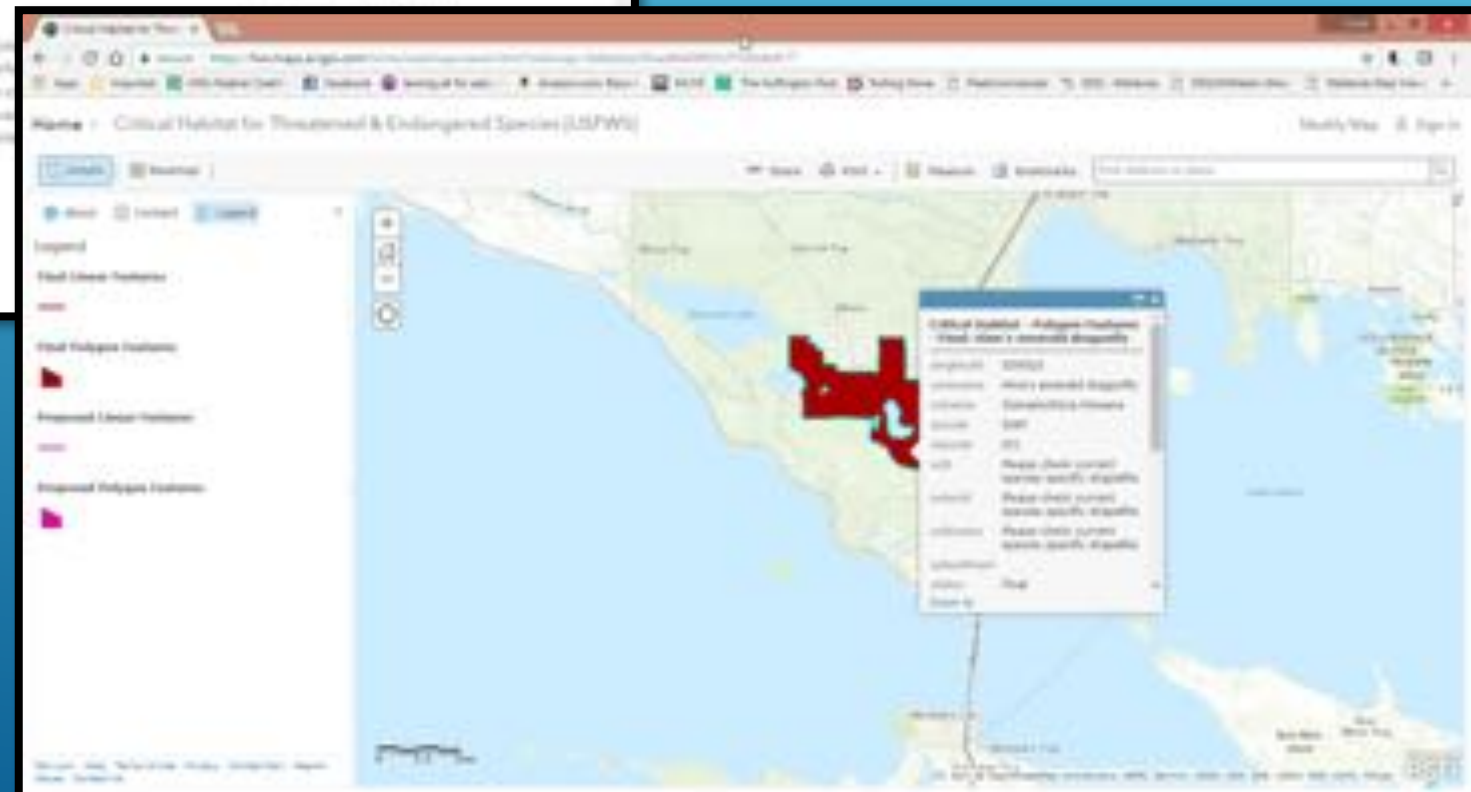
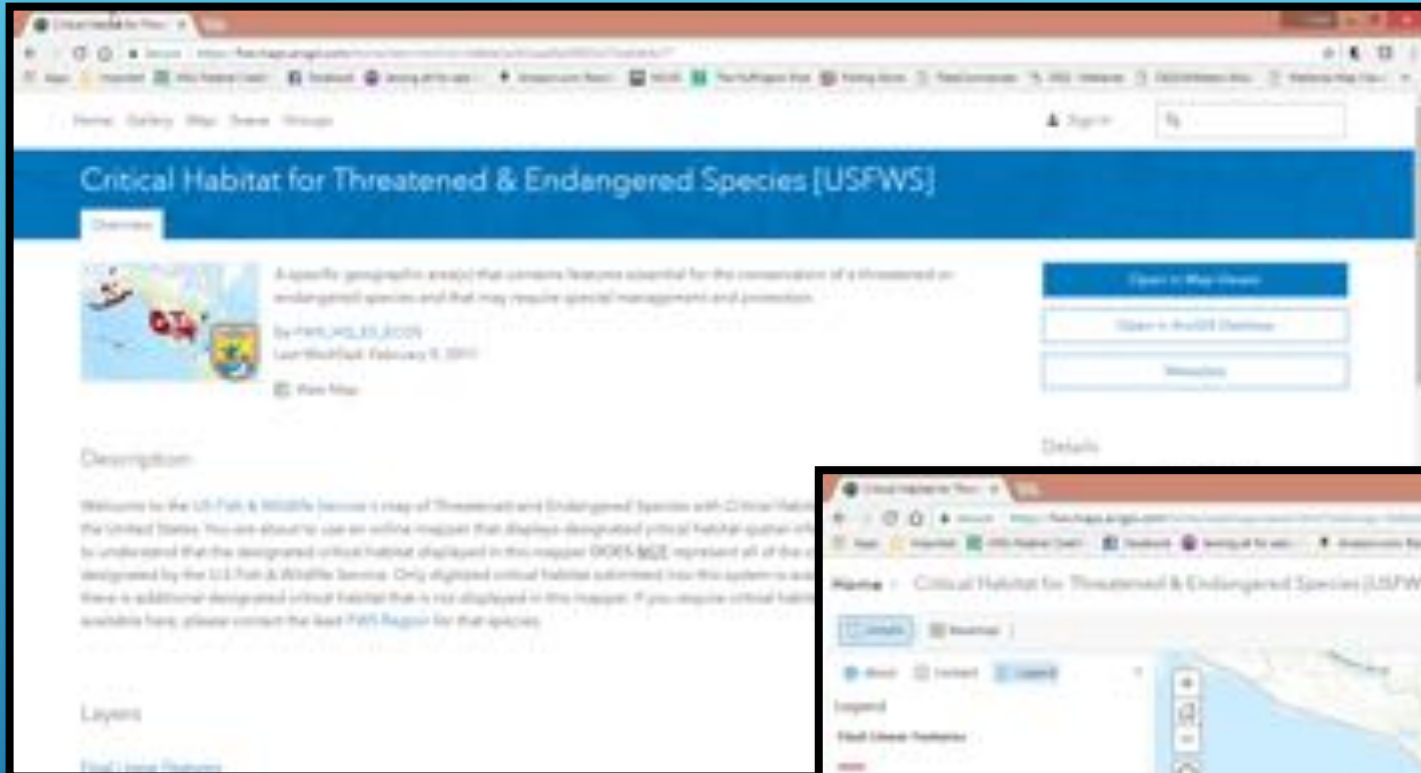
EXPLORING A SITE -- GIS LAYERS

- Multiple GIS layers and backdrops can be added from the two drop down menus in the upper right
- Features within the layers can be clicked for more details
- A legend is available under the 'Legend' tab under the search entry
- Other layers of interest include USACE Section 10 Areas, Coastal Program Regulatory boundaries, as well as information from other DEQ programs such as Landfills and Contaminated Sites



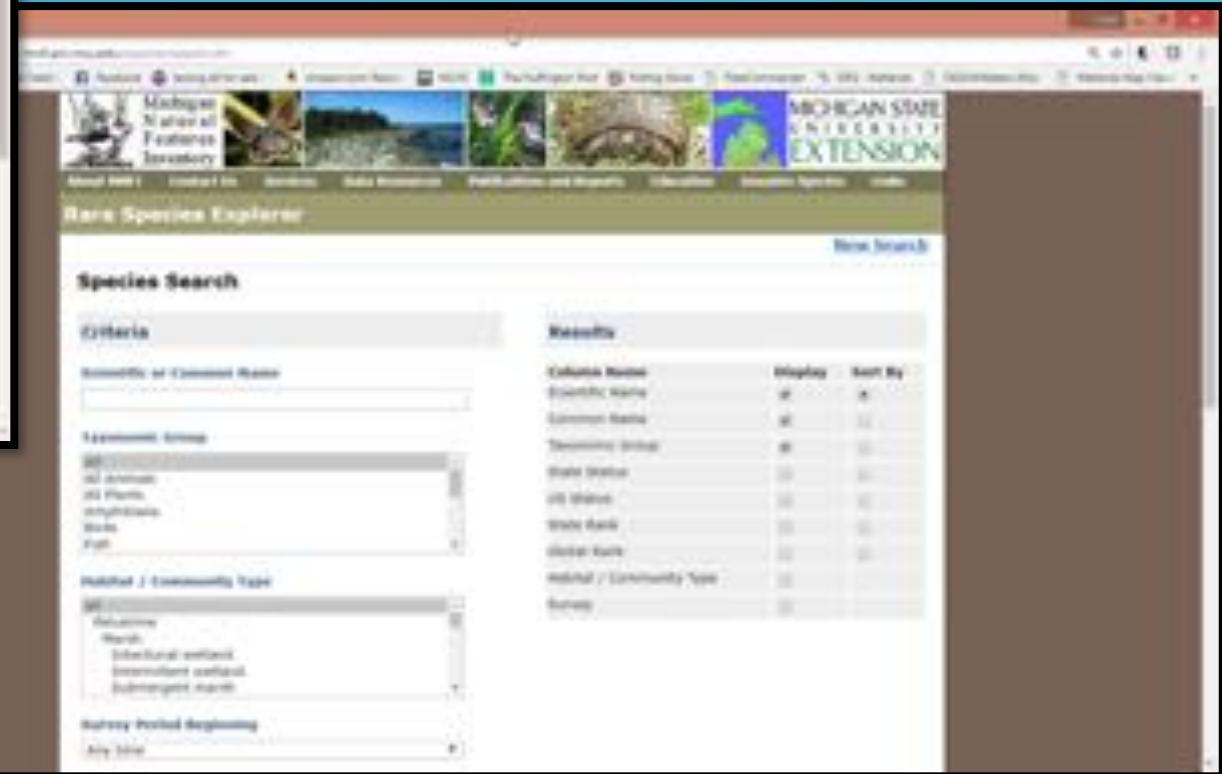
EXTERNAL SCREENING RESOURCES

USFWS CRITICAL HABITAT SCREENING TOOL



EXTERNAL SCREENING RESOURCES

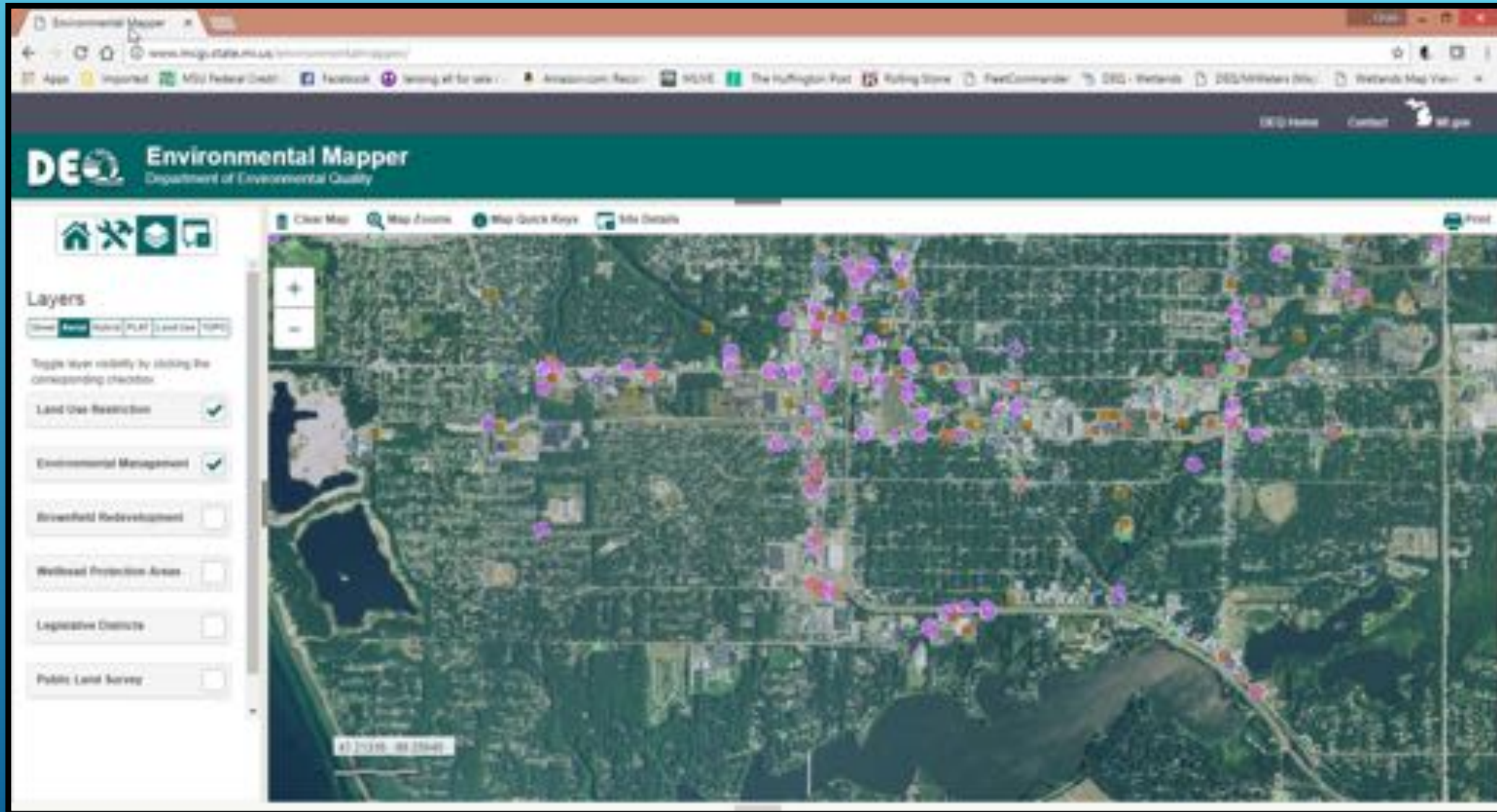
MNFI RESOURCE SCREENING



<https://mnfi.anr.msu.edu/>

EXTERNAL SCREENING RESOURCES

DEQ ENVIRONMENTAL MAPPER

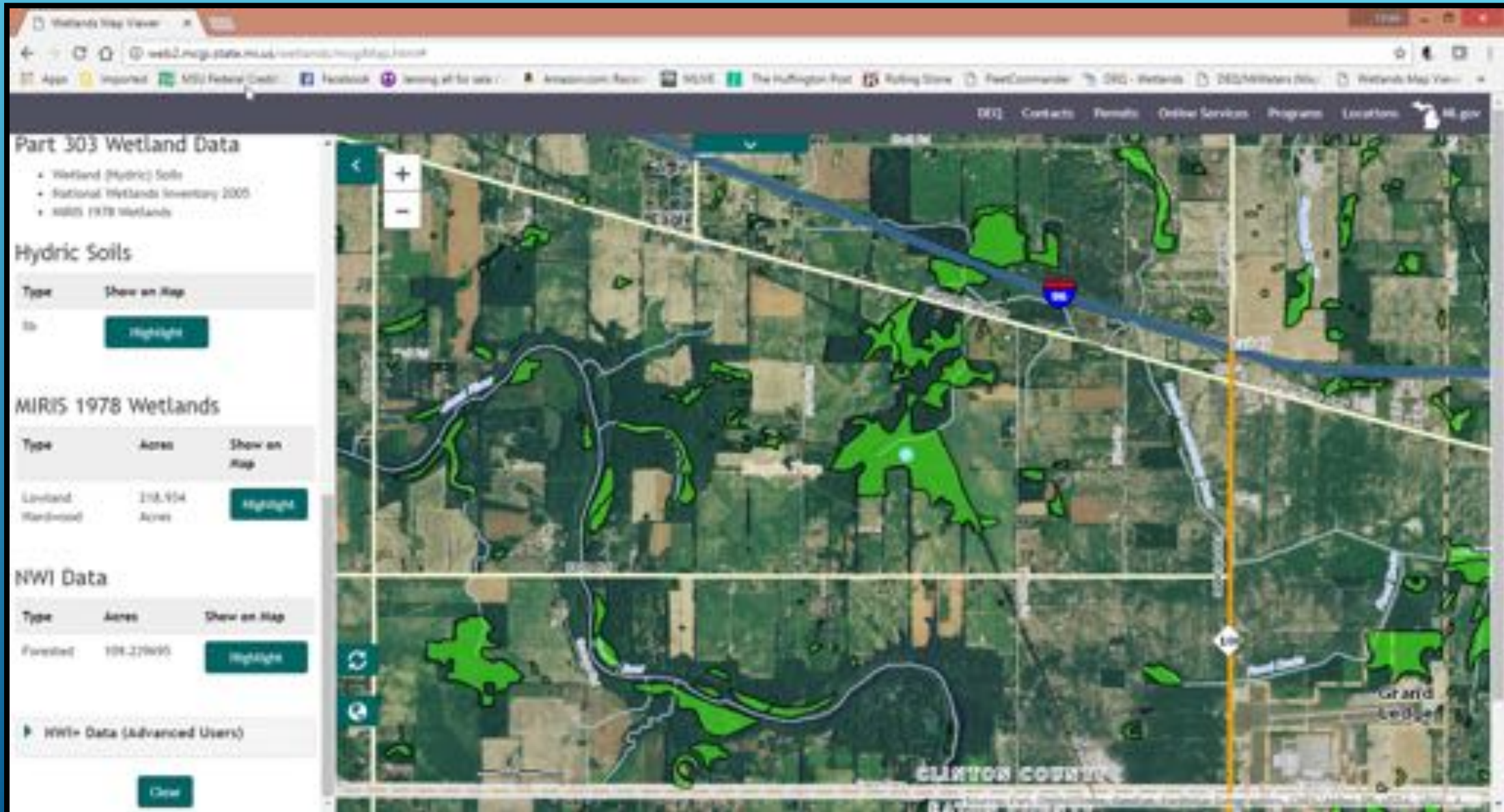


<http://www.mcgi.state.mi.us/environmentalmapper/>



EXTERNAL SCREENING RESOURCES

DEQ WETLANDS MAP VIEWER



PROJECT SCREENING & GIS

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