

Operation & Maintenance
of Facilities

Refresher Training

As required by Part I, Section A.3.g.2
of the MS₄ NPDES Permit

Facility Specific Stormwater Management



Why Am I Taking this Training?

- If you are taking this training, you will learn:
 - What the permit requirements are
 - What a stormwater Standard Operating Procedure (SOP) is
 - Inspection requirements and frequency
 - What is a high, medium, low pollution potential facility
- This training is for municipal and school employees and contractors working for municipalities
- Training is required
 - At least once during the permit cycle (typically 5-years) for existing staff
 - New hires shall receive training within one year of their hire date

Fleet

- A group of vehicles owned or operated as a unit.

Maintenance (includes but not limited to)

- adding/changing vehicle fluids, fueling, lubrication, painting, mechanical repairs, parts degreasing, and vehicle/equipment washing.

Storage Yard (includes but not limited to)

- areas where vehicles are stored longer than overnight/weekend
- areas where road maintenance materials are stored
- areas where vehicle maintenance materials are stored
- areas where chemicals in bulk are stored
- areas where catch basin cleaning wastes are stored
- and areas where maintenance equipment such as mowers, tractor trucks, and sweepers is stored.

Definitions



Prioritized Inventory *(Table 3 in the permit application)*

- Submitted with permit application
- Include the location of each facility and estimate of the number of structure stormwater controls
- Prioritized based on the potential to discharge pollutants to surface waters (high, medium or low)

Facility Examples

Administration buildings

Airports

Animal control building

Bus stations and garages

Cemeteries

Composting facilities

Equipment storage / maintenance facilities

Fire stations

Fuel Farms

Hazardous waste disposal facilities

Hazardous waste handling / transfer facilities

Landfills

Landscape maintenance facilities

Libraries

Materials storage yards

Mosquito control facility

Outdoor wash areas

Parks

Pesticide storage facilities

Police stations

Public golf courses

Public parking lots

Public schools

Public works yards

Recycling facilities

Salt storage facilities

Solid waste handling / transfer facilities

Vacant land and open space

Vehicle storage and maintenance yards

Other, describe

Genesee County Priority Procedure

A procedure for assessing the potential discharge pollutants to surface waters of the state was developed. The following factors were considered for assessing facilities in the urbanized area:

1. Amount of urban pollutants stored at the site (e.g., sediment, nutrients, metals, hydrocarbons, pesticides, fertilizers, herbicides, chlorides, trash, bacteria, or other site-specific pollutants)
2. Identification of improperly stored materials
3. The potential for polluting activities to be conducted outside (e.g., vehicle washing)
4. Proximity to waterbodies
5. Poor housekeeping practices
6. Discharge of pollutants of concern to impaired water
7. Did Facilities under 2008 permit have Facilities that were required (per Industrial Program) to have a SWPPP in 2010.

Site-Specific Standard Operating Procedure (SOP)

- Required for high priority facilities
- Structural and non-structural stormwater controls
- Identify responsible person
- List of significant materials stored, handling requirements, and potential to be discharged
- List good housekeeping practices implemented.
Good housekeeping practices include keeping the facility neat and orderly, properly storing and covering materials, and minimizing pollutant sources to prevent or reduce pollutant runoff





High Potential for Pollution Facilities Inspections

Schedule

- Routine maintenance and inspections. A biweekly schedule is recommended for routine inspections.
- Comprehensive inspection at least once every six months for all structural and non-structural controls

EGLE Industrial Stormwater Program

This is a separate program focused on industrial sites but has many similarities to the municipal facilities program. Good resources are available on EGLE's website.

- [EGLE - Industrial Storm Water Program \(michigan.gov\)](https://www.michigan.gov/egle)
- Industrial Storm Water Certified Operator
- Training
- Reference materials
 - Pollution prevention
 - Compost operations
 - Lidded leak-proof containers and compactors
 - Visual assessment report form, procedures, guidance video
 - SWPPP template (similar to SOP)
 - Activity specific controls (fueling, vehicle maintenance, painting, washing, loading, liquid storage, outside waste, etc.)
- Recommended for municipalities with a DPW yard.

The screenshot shows the EGLE (Michigan Department of Environment, Great Lakes, and Energy) website. The page is titled "Industrial Storm Water Program" and provides information about the program, including the types of permits available, the certification process, and training options. The page is structured with a navigation menu, a search bar, and a main content area with several sections of text and links.

EGLE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

ABOUT EGLE AIR LAND WASTE WATER SUSTAINABILITY

WATER

Great Lakes
Drinking Water
Lakes & Streams
Wetlands
M/Waters
Wastewater
Onsite Wastewater
Surface Water
Wastewater Construction
Water Permits
Water Management

EGLE / WATER / WASTEWATER / SURFACE WATER

Industrial Storm Water Program

As a result of the federal regulations governing storm water discharges, the State of Michigan began issuing permit coverage in 1994. There are three types of permits available in Michigan: a general permit, a general permit with monitoring requirements, or a site specific individual permit. There are approximately 4,000 facilities with storm water discharge authorization.

Michigan's industrial storm water permit authorization requires facilities to obtain an industrial storm water certified operator who has supervision over the storm water treatment and control measures at the facility. In addition the facility must develop a Storm Water Pollution Prevention Plan (SWPPP) which describes nonstructural and structural controls implemented onsite and eliminate any unauthorized non-storm water discharges. The certification process for industrial storm water certified operators is currently an on going process in each of the district offices.

This page can be accessed as www.mi.gov/industrialstormwater.

[Industrial Storm Water Program Staff Contact Information](#)
[Industrial Storm Water Program's mission statement](#)

Industrial Storm Water Certified Operator Training Options and Information

All facilities that require industrial storm water permit coverage are required to have an Industrial Storm Water Certified Operator who has supervision over the facility's storm water treatment and control measures. The information below discusses how to become a new certified operator and how current certified operators can renew their certification that is due to expire:

- **New Certified Operator Information:** In order to obtain a new certification, you typically must attend one of the EGLE WRD industrial storm water certified operator training/exam sessions which are conducted in the various district offices. However, given the situation regarding COVID-19 it has been decided to suspend all "in person" training/exam sessions until at least January 1, 2021. An application form which includes self-study materials and an exam is available for those looking to become an Industrial Storm Water Certified Operator until "in person" trainings can resume. To apply for a certification, a complete application/exam form needs to be submitted to EGLE WRD along with the \$30 certification fee. If you submit a complete application, pass the exam with at least a 70%, and pay the \$30 certification fee you will be issued a certification that is valid for 5 years.
- **Certification Renewal Information:** Certified operators will receive notice from EGLE WRD when their certification is due to expire and are typically required to attend a recertification training session if they wish to renew their certification. However, due to the COVID-19 situation all the "in person" training sessions required for operators looking to renew their certification that is due to expire on July 1, 2020 have been cancelled. To account for the cancelled training sessions, a Recertification Form that includes an online training certification component is available for those looking to renew their certifications this year. The online training certification component is intended to satisfy the required training associated with the renewal process. In order to complete the renewal process, a completed Recertification Form and the \$95 recertification fee must be submitted to EGLE WRD on or before August 31, 2020.

[Click here to obtain a Certification Application/Exam or a Recertification Form.](#)

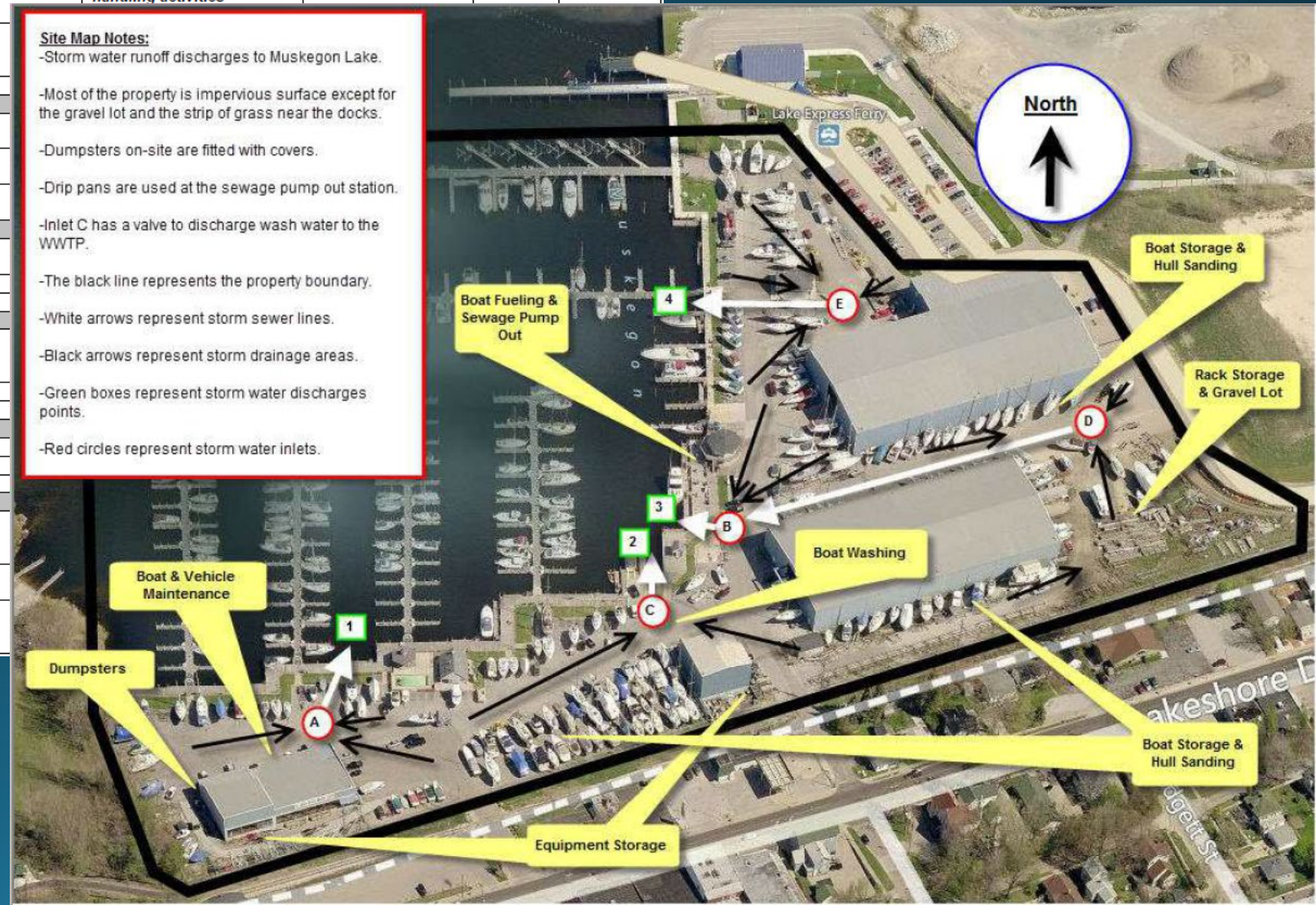
The Industrial Storm Water Certified Operator Training Manual was developed by EGLE WRD to inform permittees and Industrial Storm Water Certified Operators of the program and permit obligations. The training manual is intended to be utilized as part of the online Industrial Storm Water

Example Site Plan

Section Listed in General Permit	Storage Areas / Activity Areas	Significant Materials	Exposure Method	Reasonable Potential Evaluation (high,medium,low)	Inlet(s)	Discharge Point(s)
1) Loading, unloading, and other material handling operations	1) Boat maintenance area	Oil, battery acid, diesel fuel, gasoline, and other fluids	Spillage during material handling activities	High	A	1
	2) Fueling area	Gasoline, diesel fuel				
2) Outdoor storage including secondary containment structures	1) Boat storage area	NA				
	2) Equipment storage area	Grease, hydraulic oil				
	3) Rack storage	Rusting of metal				
3) Outdoor manufacturing or processing activities	NA					
4) Significant dust or particulate generating processes	1) Boat hull sanding	Paint dust, fiberglass dust				
5) Discharge from vents, stacks, and air emission controls	NA					
6) On-site waste disposal practices	1) Dumpster staging area	General refuse				
	2) Slip owner sewage pump out	Raw sewage and grey water				
	1) Dumpster staging area	General refuse				

Site Map Notes:

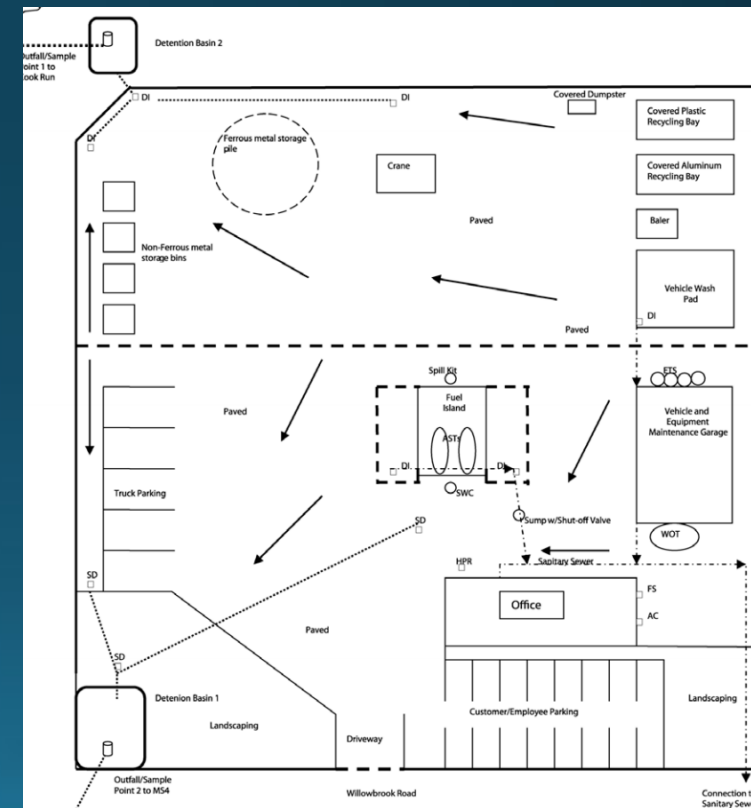
- Storm water runoff discharges to Muskegon Lake.
- Most of the property is impervious surface except for the gravel lot and the strip of grass near the docks.
- Dumpsters on-site are fitted with covers.
- Drip pans are used at the sewage pump out station.
- Inlet C has a valve to discharge wash water to the WWTP.
- The black line represents the property boundary.
- White arrows represent storm sewer lines.
- Black arrows represent storm drainage areas.
- Green boxes represent storm water discharge points.
- Red circles represent storm water inlets.



* From EGLE sample SWPPP

Medium and Low Priority Facilities

- Identify BMPs currently implemented or to be implemented during the permit cycle. For example,
 - CBs - *most common*
 - Detention basins
 - Oil/grit separator
 - Dumpsters
- Have a site map with BMPs and drainage system
- Should be inspecting at least once per year



Map Notes:
- All interior floor drains, including the vehicle wash area and fuel island, discharge to the municipal sanitary sewer system.
- All SDs are part of the MS4. Contact the City of Anywhere Public Works Department, Stormwater Management Division at (111) 999-0001 concerning significant inspection findings associated with these storm drains.

↑ N
Not to Scale

Other Permits and Considerations

- The MS4 program does not exonerate other environmental regulations and permits
- For example:
 - Michigan's Part 5 Administrative Rules contain spill prevention, containment, and notification requirements for the storage of salt, oil, and other regulated polluting materials. www.mi.gov/part5
 - Industrial stormwater program www.mi.gov/industrialstormwater
 - Groundwater Program regulates discharge of wastewater to groundwater and the storage of hazardous materials under Part 31. www.mi.gov/groundwaterdischarge



Additional Information

- [GCDC Surface Water Management \(gcdcswm.com\)](http://gcdcswm.com)
- www.ClearGeneseeWater.org
- EGLE – Stormwater Program www.mi.gov/eglestormwater
- US EPA Stormwater Discharges from Municipal Sources
<https://www.epa.gov/npdes/stormwater-discharges-municipal-sources>

Questions?

Thank you

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Surface Water Management

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