### Surface Water Concerns

#### Presentation Overview

Discuss why we have Storm Water Regulations
Discuss Michigan's Storm Water Program
Compliance Expectations

## Mercury In The Environment

- Waters of the State generally exceed the Water Quality Standards (WQS) of 1.3 ng/l
- WQS designed to protect human health, aquatic life and wildlife

Great Lakes tributaries

- 38 of 41 tributaries exceed WQS (range 0-107 ng/l)

Great Lakes connecting channels

- Detroit River
- St. Clair River
- St. Mary's River

Great Lakes open water stations exceed WQS

- Saginaw Bay
- Grand Traverse Bay

## Federal Clean Water Act 1987 Amendments





point source discharges

## Who needs a Permit?

 Regulated by Standardized Industrial Classification & Narrative
 Point Source Discharge to Waters of the State

"Exposure"
 "

Manufacturing (20-- to 39--) Public Warehousing (42--) Transportation (40-- to 45--) Mining (10-- to 14--) Open Landfills Power Plants Recycling Facilities Waste Water Treatment Hazardous Waste Storage & Treatment

#### Storm Water Permits

- General Permit - cjeneric coverage - minimum for protecting WQS - must have certificate of coverage to be valid - 229 salvage yards, scrap and waste materials
- Individual Permit

   site specific
  - additional requirements
    - sampling
    - monitoring
    - treatment
    - Limits
    - 3 salvage yards, scrap and waste materials

# Storm Water Pollution Prevention Plan (SWPPP)

The SWPPP is your facility's written procedure to minimize the amount of pollutants getting into the storm water runoff leaving your site.

## **Objectives of SWPPP**

- identify certified operator
- identify sources of significant materials
- implement non-structural controls
- install structural controls (as needed)
- ensure regular evaluation & update

#### Industrial Storm Water General Permit

BaD

Inventory Significant Materials – Mercury Switches – Fluids Gas Oils Antifreeze - Parts – Tires

- Batteries

## When Should Significant Materials Be Removed

Salvage Yards - Recommend removing switches while draining other fluids and dismantling parts - Limit liability – If crushing on site **MUST be removed** 



 Mercury switches or other significant items must be removed prior to crushing or shredding

## Material Handling

 Mercury switches, capsules, and lighting fixtures and should be collected in wellsealed, leak proof, heavy plastic containers

 other significant materials should be

 Stored in an area where minimal risk of fire or breakage.

# Non-structural Controls

# Preventative Maintenance Involves Inspection of equipment Cleaning of equipment Includes operation of systems

# Good Housekeeping

Most are common sense
Regularly scheduled
Employee participation is essential

#### **Preventative Maintenance**



Routine inspections

- Quick walk around inspection (Must be documented)
- Look at areas with a reasonable potential for a problem to occur

#### Structural Controls

 Necessary to address storm water runoff contamination

 Examples: oil water seperators, places to store barrels out of the weather

#### Review of inspections

Comprehensive inspection
 – Once every 6 months

Annual Plan review

 State of facility
 Adequacy of SWPPP - changes
 Spills and cleanups

#### Questions

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 517-241-8993

Storm Water Program Web Site: <u>http://www.michigan.gov/deg</u> then click on water, then surface water, then storm water