NPDES Industrial Storm Water Permitting

Jason Fyffe, Ohio EPA
Division of Surface Water

Ohio Environmental Protection Agency

Why Regulate Storm Water

It can wash pollutants off your facility!

How Ohio EPA Regulates Storm Water

National Pollutant Discharge Elimination System (NPDES) Permits

- Established 1972
- Sect 402 of Federal CWA
- ORC 6111
- Applied to Storm Water 1992

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Permits

Who Needs One?

Individual vs. General Permit

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NPDES Program for Storm Water

NPDES Storm Water Program

Industrial

- Wide-ranging application
- Based on SIC Codes

Construction

- Land Disturbances ≥ 1 acre

Municipal

- "Communities" in Urban Area
- Includes non-traditional entities such as ODOT & State Universities

NPDES Program for Storm Water

- Includes discharges to
  - "Waters of the State"
  - Municipal Separate Storm Sewer Systems (MS4s)
- Does <u>not</u> include discharges to
  - Sanitary sewers
  - Combined sewer systems
- Caution: Not all discharges within the "combined sewer area" are always to combined sewers!

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11 Categories of Industrial Activity

i. Facilities with Effluent Limitations for SW
ii. Manufacturing
iii. Mineral, Metal, Oil & Gas Mining or Drilling
iv. Hazardous Waste Treatment, Storage or Disposal Facilities
v. Industrial Waste Landfills
vi. Recycling Facilities
vii. Steam Electric Plants
viii. Transportation Facilities with Vehicle Maintenance
ix. Wastewater Treatment Plants (> 1 MGD)
x. Construction Activity
xi. Light Industrial Activity

Check below to determine if you need coverage:

http://www.epa.ohio.gov/portals/35/permits/IndustrialStormWater_Final_GP_AppD_dec11.pdf

Ohio EPA May Not Allow General Permit

- If more than one type of discharge exists
- If facility has history of non-compliance
  - Requires action by Director per OAC 3745-38-04

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Industrial Storm Water Permits

- Two options for permitting
  - General Permit
    - Submit NOI
    - $350 application fee
    - Only addresses storm water discharges
  - Individual Permit
    - Submit Form 1 and 2F
    - $200 application fee
    - Are facility-specific
    - Can include more than one type of discharge

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Multi-Sector General Storm Water Permit (MSGP)

- 5th generation
- Mostly consistent with federal MSGP
  - Clearer industry specific requirements
  - Existing federal guidance
- OHR000005 allows coverage to more facilities
- Benchmark monitoring
- Monitoring data to be submitted to Ohio EPA

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Multi-Sector General Storm Water Permit (MSGP)

Does not cover:

- Petroleum bulk stations and terminals (SIC 5171)
- Marinas (SIC 4493)
- Coal surface mining (SIC 1221)
- Phosphatic fertilizer manufacturers (SIC 2874)
- Metal mining (SIC 10xx)
- Active landfills
- Discharges violating water quality standards
- New discharges (no continuous coverage since February 10, 1996) to Superior High Quality Waters, Outstanding State Waters, and Outstanding National Resource Waters

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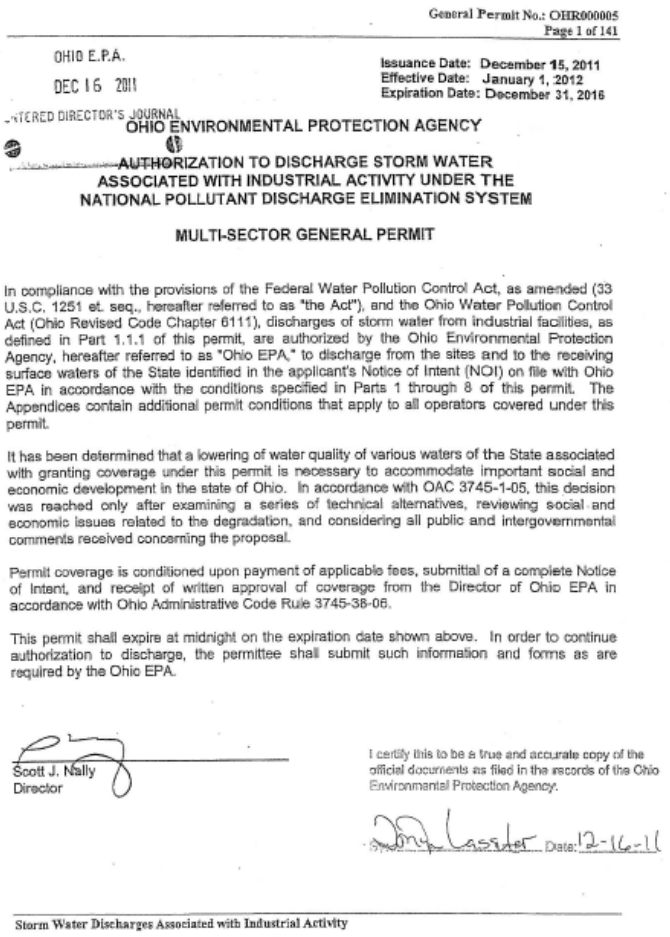
Obtaining MSGP Coverage

Renewal Coverage

- Submit application within 90 days
- Revise SWPPP within 180 days

Initial Coverage (new)

- Within 180 days of commencing discharge:
  - Develop SWPPP
  - Submit application



General Permit No.: OHR000005
Page 1 of 141

OHIO E.P.A.
DEC 16 2011
ENTERED DIRECTOR'S JOURNAL

Issuance Date: December 15, 2011
Effective Date: January 1, 2012
Expiration Date: December 31, 2016

OHIO ENVIRONMENTAL PROTECTION AGENCY

AUTHORIZATION TO DISCHARGE STORM WATER
ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

MULTI-SECTOR GENERAL PERMIT

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereafter referred to as "the Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Chapter 6111), discharges of storm water from industrial facilities, as defined in Part 1.1.1 of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the sites and to the receiving surface waters of the State identified in the applicant's Notice of Intent (NOI) on file with Ohio EPA in accordance with the conditions specified in Parts 1 through 8 of this permit. The Appendices contain additional permit conditions that apply to all operators covered under this permit.

It has been determined that a lowering of water quality of various waters of the State associated with granting coverage under this permit is necessary to accommodate important social and economic development in the state of Ohio. In accordance with OAC 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and intergovernmental comments received concerning the proposal.

Permit coverage is conditioned upon payment of applicable fees, submittal of a complete Notice of Intent, and receipt of written approval of coverage from the Director of Ohio EPA in accordance with Ohio Administrative Code Rule 3745-38-06.

This permit shall expire at midnight on the expiration date shown above. In order to continue authorization to discharge, the permittee shall submit such information and forms as are required by the Ohio EPA.

Scott J. Nally
Director

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

Date: 12-16-11

Storm Water Discharges Associated with Industrial Activity

Ohio Environmental Protection Agency

NOI Form

Division of Surface Water - *Notice of Intent (NOI) For Coverage Under Ohio EPA Industrial Storm Water General Permit (OHR000005)*

(Read accompanying instructions carefully before completing this form.)

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized to discharge into state surface waters under Ohio EPA's NPDES general permit program. Becoming a permittee obligates a discharger to comply with the terms and conditions of the permit. Complete all required information as indicated by the instructions. Do not use correction fluid on this form. Forms transmitted by fax will not be accepted. A check for $350 must accompany this form and be made payable to "Treasurer, State of Ohio."

I. Applicant Information/Mailing Address

Company (Applicant) Name:		
Mailing (Applicant) Address:		
City:	**State:**	**Zip Code:**
Contact Person:	**Phone:**	**Fax:**
Contact E-mail Address:		

II. Facility/Site Location Information

Facility Name:		
Facility Address/Location:		
City:	**State:** Ohio	**Zip Code:**
County(ies):	**Township(s):**	
Facility Contact Person:	**Phone:**	**Fax:**
Facility Contact E-mail Address:		
Latitude:	**Longitude:**	*(Approximate Center of Facility)*
Receiving Stream or MS4:		

III. General Permit Information

General Permit Number: Industrial Storm Water (OHR000005), Fee = $350	**Initial Coverage:** ☐	**Renewal Coverage:** ☐
Existing NPDES Facility Permit Number (if applicable):	**Primary SIC Code:**	

Outfall	SIC Codes(s)	Subsector	Federal Effluent Limitation (if applicable)	Latitude	Longitude
Example	*2421*	*A1*	*Table 010 – Discharges resulting from spray down or intentional wetting of logs at wet storage areas*	*40 15 35*	*-80 41 22*
			Not Applicable		

IV. Payment Information

Check #:	
Check Amount: $350.00	
Date of Check:	

For Ohio EPA Use Only

Check ID (OFA): _____ **ORG #:** _____

Rev ID: _____ **DOC #:** _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name:	**Title:**
Applicant Signature:	**Date:**

“No Exposure” Certification

Exemption from Industrial Storm Water Permits

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Conditional Exclusion for No Exposure

- Meet definition of No Exposure:

  "All industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff"

- Submit No Exposure Form
- Re-Certify every 5 years
- No Exposure Form and Instructions:

www.epa.ohio.gov/Portals/35/storm/IndustrialStormWater_NoExposure.pdf

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What is a “storm resistant shelter”

- Completely roofed and walled buildings or structures
- Structures with only a top cover but no side covers
  - Provided that materials do not otherwise come in contact with run-on or snowmelt and subsequently run off

Not Exposed

As long as dumpster is lidded and in good condition (no leaks)

Not Exposed

As long as no material is lost in transfer to truck

Exposed

Conditional Exclusion for No Exposure

- Other exceptions to storm resistant shelter
  - Tanks, drums or barrels
    - Must be sealed with no operational valves
    - Are in good condition
    - No transfer of material to/from container outdoors
- Above Ground Storage Tanks
  - If separate from vehicle maintenance activities
  - In good condition
  - Secondary containment recommended
- Adequately Maintained Vehicles
  - Includes non-leaking forklifts, trucks, trailers, etc.

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Determining Exposure

- Tarps are temporary: To be eligible for NOE, only allowed during renovations/construction
- Available on a facility-wide basis only
- Products intended for outdoor use can be exposed
  - **Not** salt piles or erodible/dissolvable materials

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Exposure or No Exposure?

if all loading and mixing occurs under canopy

NPDES or NOE?

Potential Discharge to Surface Water or Storm Sewer System?

- "No" = No further action

Facility falls under the SIC codes or narratives in 40 CFR 122.26?

- "No" = No further action

Exposure of industrial materials or activities to storm water?

- "No" = Submit No Exposure Cert. (NOE)
  - Maintain condition of no exposure. Resubmit NOE every 5 yrs.
- "Yes"= Submit NPDES application

Complying with the NPDES Permit

Storm Water Pollution Prevention Plans (SWPPPs) and Best Management Practices (BMPs)

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Storm Water Pollution Prevention Plans (SWPPPs)

- Pollution Prevention Team
- Site Description
  - Narrative description of industrial activities
  - General location and Site map
- Summary of Potential Pollutant Sources
  - List of specific activities exposed to storm water
  - List of pollutants associated with each activity
  - Areas where leaks or spills could occur
  - Salt storage areas
  - Sampling data

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Storm Water Pollution Prevention Plans (SWPPPs)

- Description of Control Measures
- Schedules and Procedures
  - Good housekeeping, maintenance, spill prevention and response, employee training
  - Monitoring and inspection
    - Quarterly visual assessment
    - Benchmark monitoring
    - Effluent limitation guidelines monitoring
    - Routine facility inspections
    - Comprehensive site inspections
- Signature per Appendix B.11

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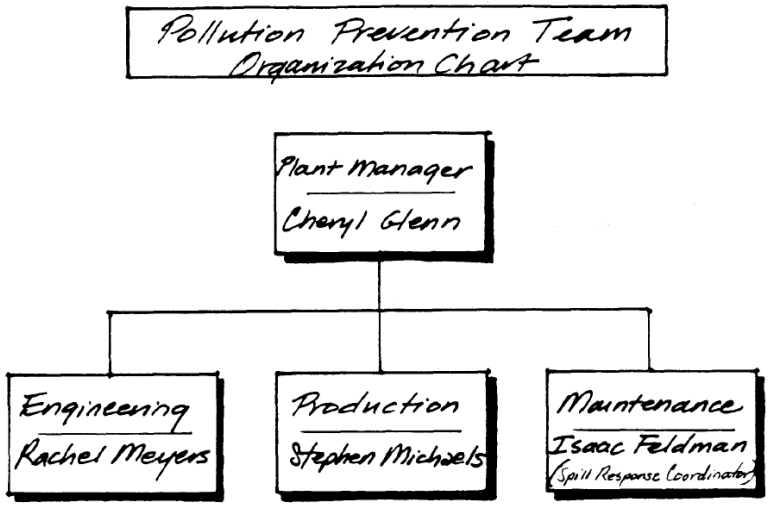
Pollution Prevention Team

- Identify the people responsible for SWPPP implementation
  - Name or title
  - Specify responsibilities
  - Provide emergency contact information
- Meet regularly
  - Minimum should be once per year
- Review effectiveness of Control Measures
  - Update and amend SWPPP as needed



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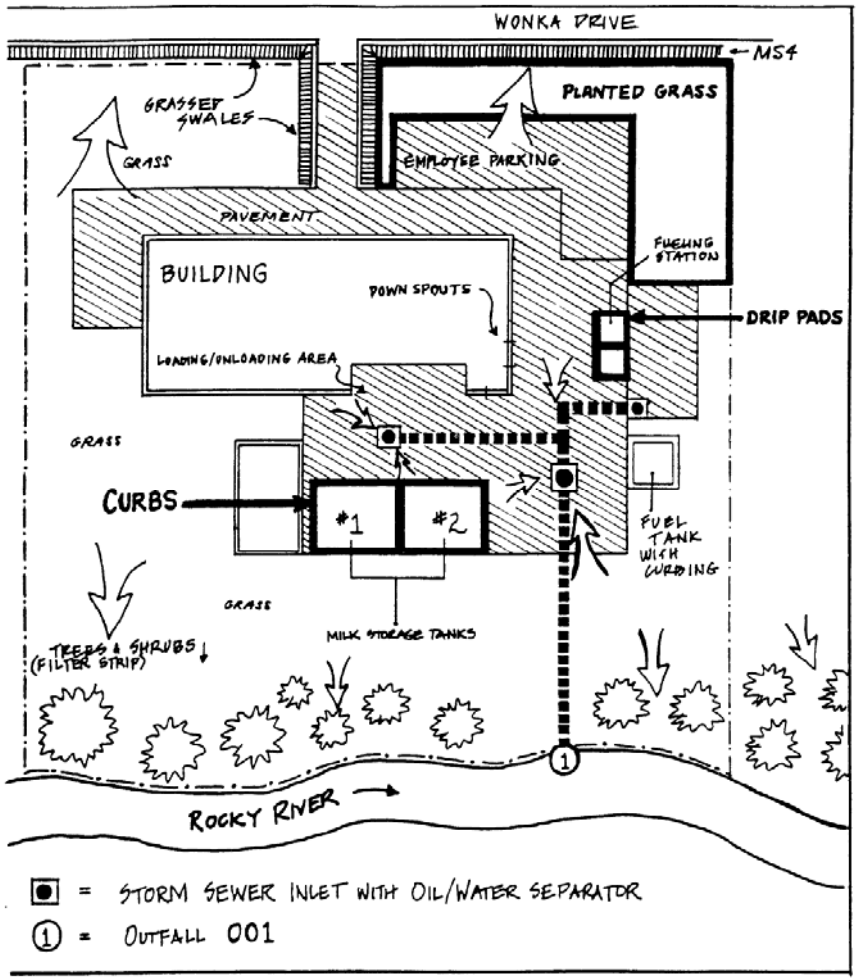
Potential Pollutant Sources

- Typical Areas of Exposure
  - Storage tanks (including fueling stations)
  - Stockpiles
  - Dumpsters
  - Loading Docks/Rail Lines
  - Dust Collectors
  - Scrap Yards/Bins
  - Areas with bare soils or where construction is occurring
  - Outdoor manufacturing areas

Site Drainage Map



- Identify
  - Location of pollutant sources and controls
  - Drainage patterns
    - Both via overland flow and storm sewers or ditches
    - Delineate watersheds
  - Points of discharge (outfalls)
  - Name of receiving stream or local MS4 operator

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Non-Storm Water Discharge Certification

- Dry weather screening of outfalls
  - Observe 48-72 hrs after a storm event
  - If flow, determine source
    - Dry weather screening
    - Smoke tests
    - Cameras
    - Lab tests
  - If not a permissible discharge
    - It must be eliminated!
  - Signed certification statement must be provided

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Permissible Discharges

- Only the following non-storm water discharge are allowed
  - Firefighting activities & fire hydrant flushings
  - Potable water & Uncontaminated ground water or footing drains
  - Uncontaminated condensate from A/C, coolers and compressors
  - Irrigation drainage
  - Landscape watering provided fertilizers, herbicides & pesticides applied per approved labeling
  - Pavement wash water and external building washdown, where no detergents are used and no spills or leaks have occurred

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Permitted Non-Storm Water Discharge Example

Exterior Washing

Not really a storm water discharge. General permit does authorize:

- Routine external building washdown w/o detergents
- Pavement washwater where spills or leaks have not occurred and w/o detergents

Control Measures

- SWPPP describes BMPs
  - Failure to implement BMPs in plan or Control Measures required by permit is "non-compliance"
- Must implement the Control Measures specified in Part 8 that apply to your sector(s)
  - Use Appendix D and SIC code(s) to determine your sector(s)
  - More than one sector can apply to your facility!
- Recommended BMPs vary from industry to industry
  - USEPA guidance for each industrial sector:

http://water.epa.gov/polwaste/npdes/stormwater/Industrial-Fact-Sheet-Series-for-Activities-Covered-by-EPAs-MSGP.cfm

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Control Measures

- Use common sense when selecting BMPs
  - Curbing, diking, tarping, relocating items indoors, good housekeeping and sediment & erosion control addresses majority of issues
  - Include SPCC or other spill control plan
  - Don’t overlook value of regular employee training

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Sector Specific Control Measures

- Example: Metal Plating (SIC 3471 – Sector AA1)
  - Good Housekeeping
    - Minimize the generation and/or recover and properly managing scrap metals, fines and iron dust
    - Minimize exposure of paint and painting equipment to storm water
  - Spill Prevention
    - Maintain clean, dry and orderly conditions in metal fabricating areas
    - Control sand buildup and disbursement from sand-blasting operations
  - Additional SWPPP Requirements
    - Drainage map must show the location of a specific list of pollutant sources
  - Additional Inspection Requirements
    - There is a specific list of areas that must be inspected

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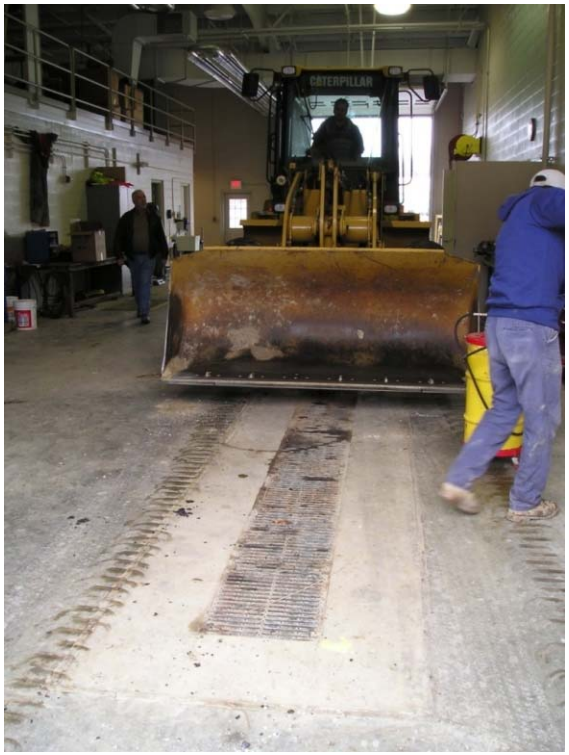
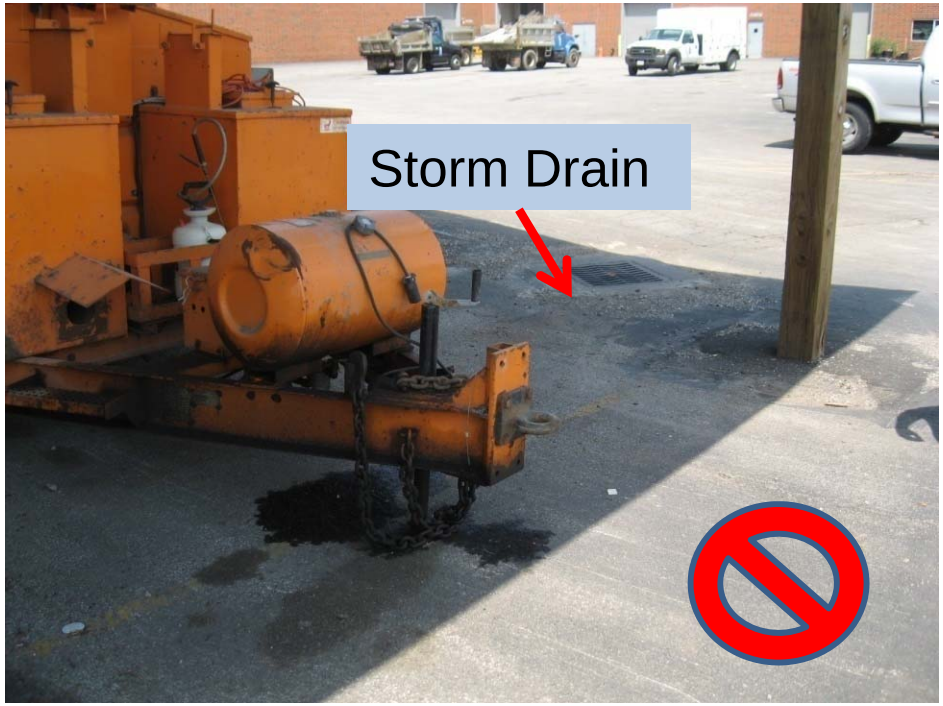
Vehicle Maintenance Area

- Performed outdoors
- Proximity to storm drain



- Performed indoors
- Floor drains connect to sanitary or plugged

Equipment Storage



- Under overhang, but leaking
- Susceptible to run-on and subsequent conveyance to storm drain
- Should drain fluids before storage or use drip pan to avoid exposure

- Use absorbents to clean up spill

Vehicle Washing

- Inside with connection to sanitary
- Outside on pad to collect wastewater

- Washing outside
- Using surfactants

Material Storage

- Indoors
- Spill Containment
- Neat and Orderly

- Outdoor
- Spills and Leaks Evident
- Messy

Salt (De-icer) Storage

- Stored in dome
- Large enough to mix and load under cover

- No side walls
- Salt bulging beyond roof

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Fuel Stations

- No stains on pavement
- Spill kit nearby
- Auto and Emergency Shut Offs

- Stains from spills
- No spill kit available

Fuel Tanks

- Dike provides containment
- Plug in drain hole

- Dike on all sides EXCEPT the one by the storm drain

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Dumpster Management

- Lids closed
- Containers in good condition

- No lid or tarp
- Dumpster has hole

Scrap Materials in Yard

- Don’t turn your service yard into a junk yard.
- Recycle or salvage what you can, dispose of what you can’t.
- Drain fluids from machinery and vehicles before storing outdoors.

Miscellaneous Sources

Recycle Center

- Keep lid/door shut
- Clean up spilled materials

Illicit Cross-Connections

- Conduct IDDE investigation
- Eliminate discovered sources

Runoff from Stockpiles

- Needs tarp or other cover
- Provide sediment control

Good or Bad?

Storage Tanks / Drums

Issues

- No dike
- Spills not cleaned up
- Look for oily rags or funnels

Solutions

- Place drum and tank within containment
- Keep spill response kit nearby
- Store rags and funnels inside
- Train employees
- Inspect area regularly

Good or Bad?

Loading Dock

Issues

- Tracking outdoors
- Trench drain

Solutions

- Sweep up – inside & out
- Close valve in drain during material transfers
- Pull trucks fully indoors to load or unload

Good or Bad?

Fueling Stations

<u>Issues</u>

- Fuel spills
- Trash and debris

<u>Solutions</u>

- Automatic shut-off valves
- Keep supply of kitty litter or other absorbent on hand
- Establish procedures that requires employees to stay at fueling point
- Curb, grade or pave area to provide containment
- Roof over area

Good or Bad?

Haul Roads / Stockpiles

Issues

- Sediment-laden runoff from unpaved haul road
- Fines in stockpiles mobilized in runoff

Solutions

- Pave or stone haul road
- Establish sediment controls
- Tarp or vegetate stockpile

Inspections & Monitoring

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Routine Facility Inspection

- Must inspect once per quarter
  - Areas where industrial materials or activities are exposed to storm water
  - Storm water control measures
- Certain sectors have more frequent inspection frequencies
- Must be performed while facility is in operation
- Document findings and maintain onsite with SWPPP

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Comprehensive Site Inspection

- Once per year
- Member of pollution prevention team must inspect:
  - Areas and control measures inspected for routine facility inspection and identify measures needing repair, replacement or maintenance
  - Areas where spills or leaks have occurred in past 3 years
  - Off-site tracking of industrial or waste materials or sediment at entrances and exits
  - Tracking or blowing of pollutants from areas of "no exposure" to exposed areas
- Document findings within Annual Report and keep on-site with SWPPP

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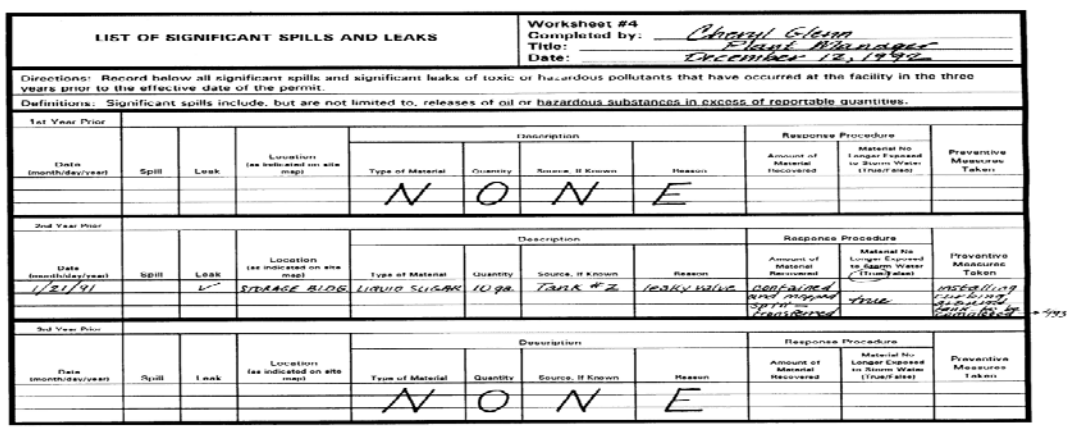
Other Required Recordkeeping

- Log of significant spills, leaks and other releases
- Employee training conducted or provided
- Maintenance records for control measures
- Must keep all records, inspection reports, monitoring data, etc. required by permit for 3 years after date that coverage under the permit expires or is terminated



LIST OF SIGNIFICANT SPILLS AND LEAKS

Worksheet #4
Completed by: Cheryl Glenn
Title: Plant Manager
Date: December 12, 1992

Directions: Record below all significant spills and significant leaks of toxic or hazardous pollutants that have occurred at the facility in the three years prior to the effective date of the permit.

Definitions: Significant spills include, but are not limited to, releases of oil or hazardous substances in excess of reportable quantities.

1st Year Prior

Date (month/day/year)	Spill	Leak	Location (as indicated on site map)	Description: Type of Material	Description: Quantity	Description: Source, If Known	Description: Reason	Response Procedure: Amount of Material Recovered	Response Procedure: Material No Longer Exposed to Storm Water (True/False)	Preventive Measures Taken
				N	O	N	E			

2nd Year Prior

Date (month/day/year)	Spill	Leak	Location (as indicated on site map)	Description: Type of Material	Description: Quantity	Description: Source, If Known	Description: Reason	Response Procedure: Amount of Material Recovered	Response Procedure: Material No Longer Exposed to Storm Water (True/False)	Preventive Measures Taken
1/21/91		✓	STORAGE BLDG	LIQUID SUGAR	10 ga.	Tank #2	leaky valve	contained and mopped spill - transferred	true	installing curbing around tank to be completed → 493

3rd Year Prior

Date (month/day/year)	Spill	Leak	Location (as indicated on site map)	Description: Type of Material	Description: Quantity	Description: Source, If Known	Description: Reason	Response Procedure: Amount of Material Recovered	Response Procedure: Material No Longer Exposed to Storm Water (True/False)	Preventive Measures Taken
				N	O	N	E			

Quarterly Visual Assessment

- Grab sample of storm water discharge
  - Collect within first 30 minutes of discharge
  - Antecedent dry period of 72 hours (3 days) required
- Once per calendar quarter
  - One snowmelt assessment
- Note color, odor clarity, floating solids, settled solids, suspended solids, foam, oil sheen and other obvious indicators of pollution
- If you have substantially identical outfalls, can sample just one but must rotate

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Analytical Monitoring

Monitoring Type	When does this apply to me?
Benchmark	Use Appendix D Table to match SIC code(s)/activity to industrial sector, then check in that sector under Part 8
Effluent Limitation Guidelines	See MSGP Table 6.1 and Sector-specific requirements in Part 8
Other	Written Notice From Ohio EPA

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Analytical Monitoring

- When analytical monitoring is required, sample:
  - Within first 30 minutes of discharge
  - At least 72 hours from previous discharge
- Analytical monitoring must be reported to Ohio EPA via eDMR
  - Go to e-business Center to set up account
  - Submit data within 30 days of receipt of results from lab

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Benchmark Monitoring

- Applicable to 19 of 29 Sectors
- Monitor for both primary industrial activity and any co-located activity
- Sample each outfall, unless substantially identical
- Take 4 samples over the course of first 3 years
- At least 1 sample must represent each calendar quarter (winter, spring, summer, fall)

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Benchmark Monitoring

- Is an indicator of BMP and SWPPP performance
- Exceeding a benchmark is a red flag, **<u>not</u>** a violation
- Year 4: Compare average to Benchmark
  - Below benchmark value: Continue SWP3 implementation
  - Exceed benchmark value
    - Review BMP selection/design/implementation to determine if modifications are needed
    - Make a determination that no further pollutant reductions are practicable and achievable

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Effluent Limitations Guidelines

(MSGP Table 6.1)

Regulated Discharge	Sector	Frequency	Limits
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	1/yr	pH
Runoff from asphalt emulsion facilities	D	1/yr	pH, TSS, O&G
Runoff from material storage piles at cement manufacturing facilities	E	1/yr	pH, TSS
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	J	1/yr	pH, TSS
Runoff from coal storage piles at steam electric generating facilities	O	1/yr	pH, TSS

Effluent Limitation Monitoring

- Grab sample once per year
- Sample each applicable outfall (no substantially identical)
- Where Benchmark & Effluent Limit apply for same parameter at same outfall – may grab one sample
- If exceed limit, this is a permit violation!
  - Sample that parameter again within 30 calendar days of implementing corrective action
  - If follow-up sample exceeds:
    - Submit Exceedance Report within 30 days after receive lab results
    - Continue quarterly monitoring until in compliance

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Other Monitoring

- Ohio EPA may notify entity of additional discharge monitoring requirements
- Notice will state reasons, monitoring locations, parameters, frequency, sample type, and reporting requirements
  - Example: salvage yard was notified to monitor oil & grease

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Corrective Actions

Types of Triggering Conditions

- Permit Violations
  - Unauthorized release or discharge
  - Violation of numeric effluent limit
  - An inspection finds that control measures not properly operated and maintained

- Indication of Potential Problems
  - Significant change in facility operation changes the quantity or nature of pollutants discharged
  - Exceedance of benchmarks

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Corrective Actions

Deadlines

- Within 24 Hours
  - Describe problem identified
  - Document date problem identified
- Within 30 Days
  - Summarize corrective action taken or to be taken, or the basis for determining that no action is needed
  - Document date corrective action initiated, completed, or expect to be completed
- Modifications to control measures must be made before the next storm event if possible, or as soon as practicable following that storm event

Summaries of corrective actions taken must be included in the annual report

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Annual Report

NPDES Permit Tracking No.:

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

Annual Reporting Form

A. GENERAL INFORMATION

1. Facility Name:

2. NPDES Permit Tracking No.:

3. Facility Physical Address:

a. Street:

b. City: c. State: d. Zip Code: -

4. Lead Inspectors Name: Title:

Additional Inspectors Name(s):

5. Contact Person: Title:

Phone: - - Ext. E-mail:

6. Inspection Date: / /

B. GENERAL INSPECTION FINDINGS

1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?
☐ YES ☐ NO

Not required to be submitted unless requested

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For Further Guidance

Ohio EPA Industrial Storm Water link:

http://epa.ohio.gov/dsw/permits/GP_IndustrialStormWater.aspx

Ohio EPA Central Office Storm Water Contacts:

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