

Municipal Industrial Inspectors Workshop

TPDES Industrial Storm Water Inspections
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Multi Sector General Permit a.k.a Industrial General Permit



Applicability

If a facility *discharges* storm water
associated* with an industrial activity ...

And the facility is one of the regulated
industrial sectors (based on Standard
Industrial Classification Code)...

Then authorization is required.

Storm Water Discharge Associated with Industrial Activity

- The discharge from any conveyance that is used for collecting and conveying storm water and that is directly related to manufacturing, processing or raw/intermediate materials storage areas at an industrial facility.



No Discharge?

Not eligible for the permit.

- Contain all storm water within property boundaries even during extreme rain events
 - › Burden of proof on operator
- Recycle, recirculate or use in a process
- Collect, pump and haul for disposal or reuse
- Underground Injection Well
- *Access/Facility Roads



Back to Applicability

If a facility discharges storm water associated with an industrial activity ...

And the facility is categorized by one of the regulated industrial Sectors (SIC Code)...



What is this... *Sector* stuff?

- Industrial activities have been subdivided into 30 sectors (A-AD)
- Industrial activity fits under one **or more** of the Standard Industrial Classification (SIC) Codes referenced in the MSGP



Primary SIC Code

- Determination may be based on activities:
 - Generating the most revenue and or
 - Receiving the most resources (money and or employees)
- If primary SIC code is regulated and a secondary SIC code is too, then the facility must perform monitoring and meet requirements for both sectors (co-located industrial activities).
- If only the secondary SIC code appears to be regulated, the facility is not eligible for permit coverage.

Regulated Sectors

Includes but not limited to:

- › Manufacturing - paper, electronics, chemical, food, textiles, rubber, machinery, metals, leather, etc.
- › Metal Fabrication
- › Rock, Gravel and Sand Quarries
- › Scrap and Recycling - metals, paper, plastic, oil, etc.
- › Auto Salvage Yards
- › Printing and Publishing
- › Treatment Works (Waste Water Treatment Plants)
- › Landfills
- › Power Plants
- › Oil and Gas Extraction (limited, RRC)

Back to Applicability....again...

If a facility discharges storm water associated with an industrial activity ...

And the facility is one of the regulated industrial sectors...

Then authorization is required



Every regulated facility that discharges must be authorized.

Options include:

- General Permits such as MSGP
- Individual Water Quality Permit, or....
- Conditional No Exposure Certification (MSGP Part II Section C)

MSGP...What's Required?

- ◉ Develop and implement Storm Water Pollution Prevention Plan (SWP₃)
- ◉ Submit Notice of Intent (NOI) form and fee
- ◉ Adhere to requirements of permit
 - > Monitor and record discharges to comply with numeric effluent limits (once annually, DMR)
 - > Perform quarterly visual monitoring
 - > Perform quarterly inspections of controls
 - > Perform Benchmark sampling (twice annually)
 - > Annual Report
- ◉ Pay annual water quality fee (September 1)
- ◉ Terminate permit when appropriate (NOT)

SWPPP

- Comprehensive site compliance evaluation
 - › Site map with outfalls / sampling points
 - › Narrative description of activities
- Requires updates – “living document”
- Stays on site or made readily available
- Includes:
 - › Survey of non-storm water discharges
 - › Summary of sampling data
 - › Inspection reports
 - › Employee training
 - › Certification statement

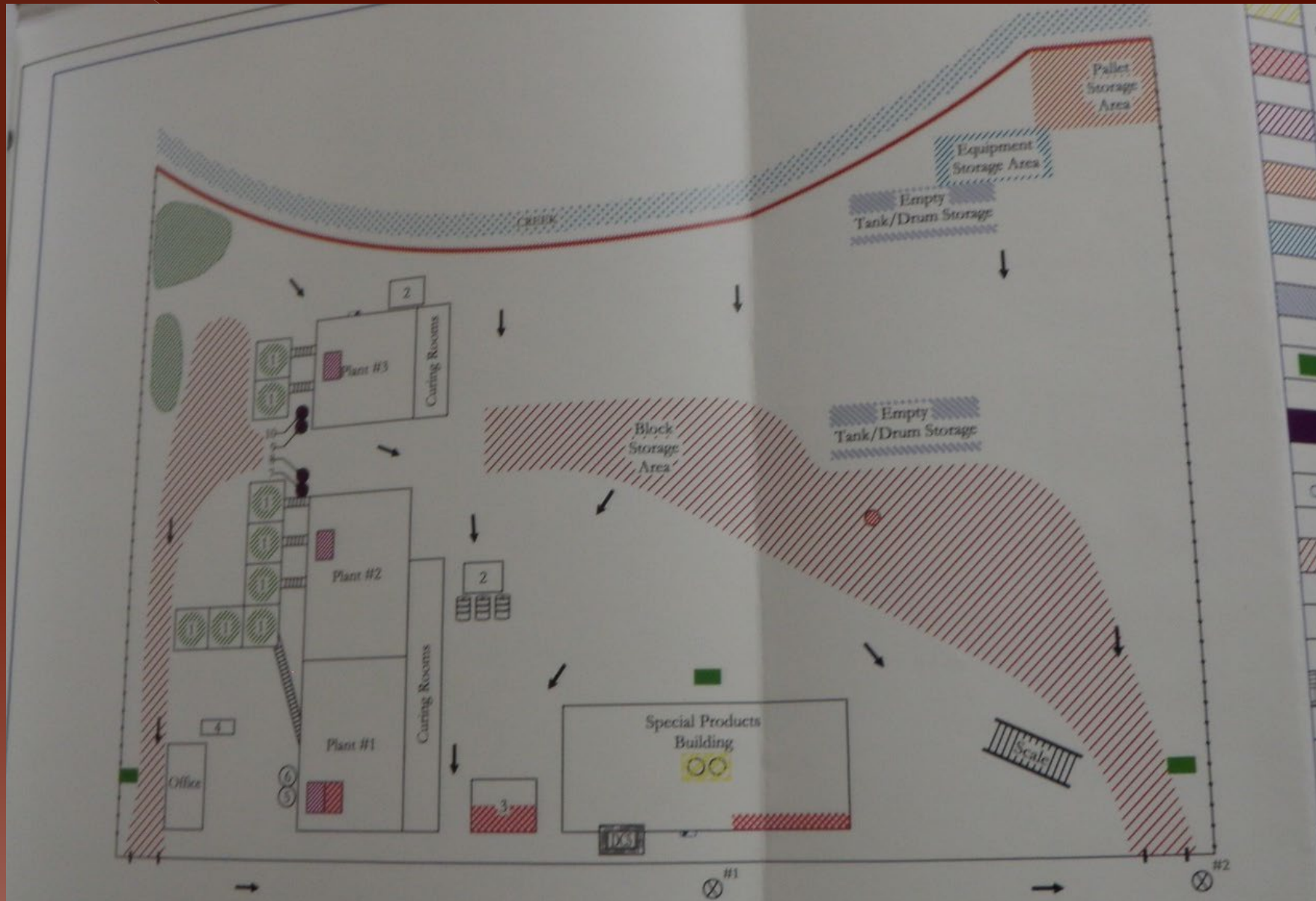


Details

- Pollution prevention team (qualified personnel)
- Physical features of site
- Process descriptions
- Schedule of activities
- Equipment storage/maintenance
- Pollutant sources
- Exposed materials inventory
- Structural controls and other BMPs
- Assessment of controls (Annual Report and Benchmark)
- Emergency response and spills



Site Map



Sampling



- Qualifying rain event
 - causes runoff from the site (after measurable rain event)
- Sample within first 30 minutes of discharge and at least 72 hours after the previous storm event
 - Some sites have detention ponds or other BMPs that delay discharge immediately following the qualifying storm event
- If unable to sample or monitor, document reason

Monitoring

- > Quarterly visuals
 - every three months
- > Benchmarks
 - semi-annually
- > Numeric effluent limits (metals)
 - annually unless waived
- > Sector specific effluent limits (not every sector)
 - annually



Waiver from Numeric Effluent Limits (Hazardous Metals)

- Certify that raw materials, byproducts or final products do not contain the specified metals
- Certify that raw materials, etc. are not exposed
- Analyze sample to demonstrate metal(s) are not present in detectable levels
- Cannot “waiver out” if metal is listed in Sector specific benchmarks

Storm Water Not associated with Industrial Activity - No Exposure

- ◉ Excluded from permitting if activities are conducted indoors and materials are protected from precipitation and runoff
- ◉ The entity is required to complete and submit a No Exposure Certification (NEC)
- ◉ **!!!!Must comply at all times!!!!**

MSGP Part II, Section C (1)



Conditional No Exposure Certification



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







Industrial refuse and trash that is stored uncovered, is considered exposed.







Drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak (“Sealed” means banded or otherwise secured and with-out operational taps or valves).



Final Products built and intended for use outdoors do not require a storm resistant shelter, **UNLESS....**

- 1) Products that would be mobilized in storm water discharges (e.g., rock salt)
- 2) Products which may, when exposed oxidize, deteriorate, leak or otherwise be a potential source of contaminants (e.g., junk cars; stockpiled train rails)
- 3) “Final” products which are, in actuality, “intermediate” products. Intermediate products are those used in the composition of yet another product (e.g. sheet metal, tubing and paint used in making tractors).

Common Violations



Failure to:

- > prevent unauthorized discharge *
- > obtain permit coverage
- > develop/implement SWP₃
- > include accurate site map
- > schedule maintenance of BMPs
- > inventory exposed materials
- > have rain gauge/rain log
- > conduct periodic inspections
- > perform sampling/monitoring

Conducting the Inspection:

- Develop/use a checklist
- Know your city codes/regulations
- Know the permit

Still need assistance...

- Contact TCEQ's Small Business and Local Government Assistance (SBLGA) Program

Updates

- 1) Online e-permitting only (waiver and paper submittal only by calling 512-239-3700, MSGP and CGP)
- 2) New permit effective August 14, 2021 (every 5 years*)
- 3) Electronic Daily Monitoring Reports (DMRs)
- 4) Current Construction Permit (TXR150000, effective March 5, 2018)
- 5) Current MS4 Permit began November 2018

Case Study: Glass Recycling Plant



Case Study: Glass Recycling Plant

- Reviewed site SWPPP (site inspections, map, monitoring records)
- Violations issued for offsite tracking, housekeeping, installation/maintenance of controls.
- Resolved by implementation of street sweeping, monitoring protocol, daily clean-ups, installation of proper site entrance



Case Study: Sand Mining and Processing



Case Study: Sand Mining and Processing

- Evaluation of SWPPP for site inspections, site map, monitoring.
- Violations issued for unauthorized discharge of process wastewater.
- Resolved by Regulated Entity enhancing/ repairing berm to prevent future discharges.



Questions



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