OREGON GENERAL 1200-Z PERMIT GUIDE

Learn the Nuts and Bolts of the New Permit

NARRATIVE EFFLUENT LIMITS (MANDATORY PRACTICES)

"Reduce or eliminate pollutants to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice."

All Facilities (Permit Schedule A1)

- Minimize Exposure of Pollutants to Stormwater
- Oil & Grease Control
- Waste Chemicals & Material Disposal
- Erosion, Sediment & Debris Control
- Minimize Dust Generation and Vehicle Tracking
- Housekeeping
- Spill Prevention & Response Procedures
- Preventative Maintenance
- Employee Education
- Non-Stormwater Discharges (authorized and illicit)
- Treatment Controls (if applicable)
- Treatment Operation and Maintenance Plan (if applicable)

Sector Specific Narrative Effluent Limits (Permit Schedule E)

Additional sector-specific Narrative Effluent Limits are listed in Permit Schedule E, based on the primary and secondary SIC(s).

INSPECTIONS

All Facilities (Permit Schedule B7) Monthly Site Inspections

Inspect monthly, during facility operations for:

- Industrial materials or wastes that may have or could come into contact with stormwater
- Leaks or spills from industrial equipment, drums, tanks, and other containers
- Evidence of pollutants, or the potential for pollutants entering the stormwater system or receiving waters
- Evaluate whether stormwater source control and/or treatment measures are properly functioning or require maintenance, improvements or additional measures
- Offside and internal tracking of industrial or waste material or sediment
- Tracking or blowing of raw, final, or waste materials

Monthly Visual Observations of Discharge

Conduct visual observations of the effluent at the sampling location(s) <u>when stormwater discharge is occurring</u> during regular business hours and safe conditions for the presence of floating solids, foam, visible oil sheen, color, odor, or other indicators of pollution in stormwater discharge at all monitoring location(s)

Inspection Reports

Document all inspections in an inspection report and include:

- Name of the inspector
- Inspection date and time
- Weather conditions and nature of the discharge (e.g., rain, snow)
- Control measures needing maintenance, repair, or replacement
- The condition of the stormwater system and need for maintenance
- Previously unidentified sources of pollutants
- Corrective actions planned/implemented
- Maintenance activities
- Stormwater discharge visual observations and whether a Tier I corrective action was or will be taken to remedy the problem

Sector-Specific Inspections (Permit Schedule E)

Additional sector-specific inspection requirements are listed in Permit Schedule E, based on the primary and secondary SIC(s).

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BENCHMARK EXCEEDANCE RESPONSE (PERMIT SCHEDULE A10-11)

Tier I Corrective Action

If monitoring results exceed benchmark, within 30 days of results receipt:

- Investigate the cause/source and review SWPCP
- Prepare Tier I Report
 - Results of investigation
 - Corrective action (i.e., <u>additional</u> <u>pollution-control measures</u>)
 - Implementation schedule
- Tier I Reports prepared in response to an impairment pollutant reference concentration exceedance must be submitted within 60 days of results receipt
- Tier I Reports prepared in response to a benchmark exceedance must be filed on-site

 Implement corrective action(s) before the next storm event, if possible or no later than 30 days after receiving the monitoring results

Tier II Corrective Action

If geometric mean of 2nd year of monitoring results exceeds any statewide benchmark(s) or if 50% or more of the samples collected during the first 2 years are outside of the permitted range for pH:

- Submit by December 31 of the 3rd year of permit coverage a Tier II Report
 - Propose additional treatment measures, <u>designed and stamped by</u> professional engineer

 Implement <u>additional treatment</u> <u>measures</u> by June 30 of the 4th year of permit coverage, unless DEQ/Agent approves a later date in writing

If monitoring results exceed benchmark following implementation of Tier II treatment measures, within 30 days of receipt, summarize additional corrective actions in a Tier I Report.

Tier II Mass Reduction Waiver Request

Submit a Tier II Mass Reduction Waiver Report to DEQ/Agent by December 31 of 4th year of permit coverage, if volume reduction measures (e.g., infiltration) have/will reduce the mass load of pollutants discharged below the massequivalent of the benchmark (include data and mass-load equivalent analysis).

STORMWATER POLLUTION CONTROL PLAN (PERMIT SCHEDULE A6-A8)

Title Page

Site Name, Site Operator or Owner Name, DEQ File No., EPA Permit No., SIC Code(s), Contact Person (Name, Phone and Email), Physical/Mailing Address, Name of Person Preparing SWPCP

Site Description

Location Map & Site Features Map

 General site location and vicinity; stormwater system; drainage patterns; drainage areas; impervious surfaces; significant materials; flow-control structures; material handling areas; hazardous waste; wells, springs, wetlands and water bodies; authorized non-stormwater discharges; fueling; loading/unloading; tanks; machinery; outdoor manufacturing, storage, or maintenance; spill kits; off-site run-on; sampling location(s) with three-digit number (e.g., 001, 002)

Stormwater System

- Drainage patterns & drainage areas
- Impervious area(s)
- Stormwater collection, conveyance and/or treatment
- Receiving water(s)

Industrial Activities & Significant Materials

Activities conducted outside & materials exposed to stormwater

Potential Stormwater Pollutants

Significant on-site materials and wastes, and potential pollutant sources that could impact stormwater quality

Site Control Measures

Site-specific operational and/or structural source control measures and/or treatment measures to meet effluent benchmarks and/or limits

Spill Prevention & Response Procedures

Site-specific measures and personnel responsible for minimizing and responding to spills of hazardous and/or significant materials

Preventative Maintenance

Proactive inspection and maintenance of pollution-control measures

Employee Education Schedule

Annual and new hire orientation training program to inform staff of importance of stormwater quality and site-specific pollutioncontrol measures

Treatment Controls

- Treatment system installed in response to corrective action requirements
- Treatment system operation and maintenance plan

Sampling Location(s)

- Representative of stormwater discharged from site
- Substantially similar effluents (reduction in sampling location[s])
- Each sampling location designated with three-digit number (e.g., 001, 002)

SWPCP Reviews & Revisions

Submit to DEQ or Agent, if revisions are made due to:

- Change in site contact
- In response to corrective action or inspection
- Changes to site control measures that may significantly change the nature or concentrations of pollutants in stormwater, discharge frequency, volume or flow rate
- Change to monitoring location(s) or discharge point(s)

BENCHMARKS AND MONITORING

Sector-Specific Benchmarks & Limits (Permit Schedule E)

Industry-sector-specific benchmarks and limits based on the primary and secondary SIC(s).

- Timber Products (Sector A): COD (120 mg/L)
- Primary Metals (Sector F): Total Aluminum, (0.75 mg/L), Total Iron (1.0 mg/L)
- Scrap/Waste Recycling (Sector N): COD (120 mg/L), Total Aluminum, (0.75 mg/L), Total Iron (1.0 mg/L)

Monitoring Waiver (Permit Schedule B4)

Request a monitoring waiver if:

- The geometric mean of 4 consecutive sampling results is below benchmark or impairment pollutant reference concentration.
- If facility is inactive and unstaffed and no industrial materials or activities are exposed to stormwater.

Discharge Monitoring Report (DMR) (Permit Schedule B8)

Enter monitoring results into a DEQapproved DMR form and submit to DEQ/ Agent quarterly by:

- November 15
- February 15*
- May 15
- August 15*

*Request a monitoring variance to report "no discharge".

Report "W" for parameters with an approved monitoring waiver.

Non-detections must be reported as "ND" with the detection limit in mg/L in parentheses, e.g., ND (5.00).

Monitoring Variance Requests (Permit Schedule B3)

To report "no discharge", a variance request must be submitted with the February 15 and August 15 DMRs, and must include:

- A hydrologic assessment (prepared following standard engineering practices and site-specific data [e.g., infiltration rates])
- Inspection records confirming no discharge occurred during business hours (photos are recommended)
- Rainfall records from nearby or onsite rain gauge (hourly records are recommended to document rainfall occurring within business hours)

BENCHMARKS*

| Parameter | Units | Columbia River | Columbia Slough | Portland Harbor | Regional |
|-----------------------|-------------------|-------------------|--------------------|--------------------|-----------|
| Total Copper | mg/L | 0.020 | 0.020 | 0.020 | 0.020 |
| Total Lead | mg/L | 0.040 | 0.060 | 0.040 | 0.015 |
| Total Zinc | mg/L | 0.12 | 0.24 | 0.12 | 0.12 |
| рН | SU | 5.5 – 9.0 | 5.5 – 8.5 | 5.5 – 9.0 | 5.5 – 9.0 |
| TSS | mg/L | 100 | 30 | 30 | 100 |
| Total Oil & Grease | mg/L | 10 | 10 | 10 | 10 |
| E. coli | counts/ 100 ml | 406* | 406 | 406* | 406* |
| BOD5 | mg/L | N/A | 33 | N/A | N/A |
| Total Phosphorus | mg/L | N/A | 0.16 | N/A | N/A |

*Benchmark applies to active landfills and sewage treatment plants only.

Impairment Pollutant Reference Concentrations (Permit Schedule B1.B)

DEQ assigns impairment pollutants for permitties discharging to impaired waters.

MONITORING SCHEDULE (PERMIT SCHEDULES B1 & B2)

| Monitoring Parameters | Monitoring Frequency |
|---|---|
| Benchmarks & Impairment Pollutants | 4 per year 2 samples between July 1 – December 31 2 samples between January 1 – June 30 |
| Numeric Effluent Limits (if required per Schedule E) | • 2 per year |

Samples must be representative of discharge(s), collected at least 14 days apart, within regular business hours and safe conditions, and within the first 12 hours of stormwater discharge.

Recordkeeping (Permit Schedule B10)

Maintain the following records for at least 3 years.*

- SWPCP, including revisions
- Sampling results and corrective action records
- Tier I and II Reports, if any
- Discharge Monitoring Reports
- Records of monthly visual monitoring of the discharge

- Monthly inspection and visual monitoring records
- Maintenance and repair records
- Spill and leak records, if any

*Although the permit requires three years minimum, a five-year recordkeeping period is recommended. (Statute of limitations for Clean Water Act lawsuits is five years.)

COMMON SOURCES OF STORMWATER POLLUTANTS

ZINC

- Galvanized metal surfaces (e.g., roof, siding)
- Most outdoor paint
- Roof gutters and downspouts
- Motor oil
- Hydraulic fluid
- Tire wear and brake pad wear/dust
- Chain link fences
- Galvanized railings and stairs
- Galvanized steel storm pipes
- Scrap metal
- Landscaping fertilizers and pesticides
- Moss-control chemicals
- Wood preservatives
- Wood ash

COPPER

- Brake pad wear/dust
- Architectural copper fixtures
- Scrap metal
- Roofing materials
- Marine paint/coatings
- Landscaping pesticides
- Soil erosion
- Domestic water (copper piping)

IRON

- Steel equipment and materials
- Rust
- Steel tanks
- Cast iron piping, catch basins and grates
- Steel dumpsters
- Air emissions (gas/diesel combustion)
- Scrap metal

CHEMICAL OXYGEN DEMAND (COD)

- Hydraulic fluids
- Antifreeze/deicing chemicals
- Emulsified oils
- Sugars
- Residual food waste
- Wood tannins and lignins

TOTAL SUSPENDED SOLIDS

- Soil erosion
- Gravel surfaces
- Broken pavement
- Trash and debris
- Baghouse dust
- Industrial solids, e.g., glass, metal powder/particles, sand, blasting grit, slag



