



## 1200-Z Stormwater Permit Monitoring and Corrective Action Guidance Fact Sheet

### Required Monitoring

- The monitoring year is July 1<sup>st</sup> - June 30<sup>th</sup>. Sample 4 times per year: 2 samples on or before December 31<sup>st</sup>, and 2 samples on or after January 1<sup>st</sup>.
- Samples must be collected at least 14 days apart.
- Sample during the first 12 hours of a discharge event, or as soon as practicable.
- Sample at locations as described in your Stormwater Pollution Control Plan (SWPCP). All discharge points must be sampled, unless they drain an area without industrial activities (such as employee parking) or if the discharge point has been determined to be substantially similar to other monitored discharge point(s).
- Laboratory analysis and sample collection must be conducted in accordance with requirements in 40 CFR 136. pH must be analyzed with a calibrated digital meter within 15 minutes of sample collection.
- Sample results that do not meet Statewide Benchmarks, or Sector-specific Benchmarks or Impairment Concentrations require corrective actions (see page 2).
- Collect a sample of the discharge at each discharge point once per month to conduct visual observations.

### Discharge Monitoring Report (DMR) Requirements

All monitoring results from samples collected at monitoring points identified in the SWPCP must be submitted on a Discharge Monitoring Report at the frequency in the table below. Failure to submit a DMR is a violation even if monitoring did not occur.

Reporting Quarter	Sample Collection Timeframe	DMR Due Date (postmarked with original signature)
1 <sup>st</sup>	July – September	November 15 <sup>th</sup>
2 <sup>nd</sup>	October – December	February 15 <sup>th</sup>
3 <sup>rd</sup>	January – March	May 15 <sup>th</sup>
4 <sup>th</sup>	April - June	August 15 <sup>th</sup>

**Required Monitoring Parameters are SITE SPECIFIC. Review your facility's monitoring requirements letter to determine the required parameters and associated concentrations for your facility.**

### Statewide Benchmarks (all sites, Georegion based)

Parameter	Columbia River Benchmark	Willamette Valley Benchmark	Columbia Slough Benchmark	Portland Harbor Benchmark	Hold Time
pH	6.0-9.0 s.u.	5.5-9.0 s.u.	5.5-9.0 s.u.	5.5-9.0 s.u.	15 minutes
Total Suspended Solids (TSS)	100 mg/L	100 mg/L	30 mg/L	30 mg/L	7 days
Copper (Cu)	0.023 mg/L	0.015 mg/L	0.017 mg/L	0.015 mg/L	6 months if preserved
Lead (Pb)	0.21 mg/L	0.11 mg/L	0.10 mg/L	0.24 mg/L	6 months if preserved
Zinc (Zn)	0.35 mg/L	0.14 mg/L	0.24 mg/L	0.24 mg/L	6 months if preserved
E. coli	N/A	N/A	406 organisms/100 ml	N/A	8 hours
Biological Oxygen Demand (BOD)	N/A	N/A	24 mg/L	N/A	48 hours
Phosphorus (P)	N/A	N/A	0.16 mg/L	N/A	28 days

### Sector-specific Benchmarks (relevant to sites with certain SIC codes)

Many industry types have additional SIC code-based monitoring requirements and associated benchmarks. These requirements are found in Schedule E of the Permit.

### Impairment Pollutants (based on water body site discharges to AU ID)

Each facility discharges stormwater to a specific water body. If the water body is on the DEQ 303(d) list of impaired water bodies for certain pollutants, monitoring is required for the associated impairment pollutants listed for that water body. **These pollutant parameters have different corrective action requirements if exceeded and can escalate to narrative or numeric effluent limits (see the Corrective Actions for Impairment Pollutant Monitoring Concentrations section below).** Narrative and numeric effluent limits must be met within a specified timeframe and have additional associated reporting requirements. An exceedance of a numeric effluent limit is an enforceable violation. **The table below is based on the 2018/2020 303(d) List for Portland area receiving water bodies only and contains the pollutant monitoring that can escalate to a narrative or numeric effluent limit.**

Receiving Water	Parameter	Pollutant Concentration	Potential Effluent Limit Escalation Type
Columbia Slough	Total Iron	10 mg/L	Narrative Limit
Willamette River	Total Iron	10 mg/L	Narrative Limit
Johnson Creek	Total Iron	10 mg/L	Narrative Limit
Smith Lake	pH	6.5 – 8.5 s.u.	Numeric Limit
Bybee Lake	pH	6.5 – 8.5 s.u.	Numeric Limit
Columbia River	N/A	N/A	N/A
Saltzman Creek	N/A	N/A	N/A

### Corrective Actions for Statewide Benchmarks & Visual Observations

**Tier 1 Corrective Action:** Required for any exceedance of a statewide benchmark or if visual observations show evidence of stormwater pollution. Review Schedule A.11 for a complete list of requirements. In summary, you need to:

- Investigate the cause of the elevated pollutant levels, determine if the SWPCP is being followed and prepare a **Tier 1 corrective action report** within 30 days of receiving the sample results. Retain the report onsite.
- The report needs to contain corrective actions to improve stormwater quality. Include a date of implementation.
- You must implement corrective actions before the next rain event, if possible, or no later than 30 calendar days after receiving the sample results.

**Tier 2 Corrective Actions:** Required if the annual Geometric Mean Calculation is greater than the associated benchmark. The geometric mean of sample results collected during the monitoring year must be calculated **each year** and is due with the August DMR. Review Schedule A.12 for a complete list of requirements. In summary, you will need to:

- Prepare and submit a Tier 2 Report which includes treatment measures or a Tier 2 Mass Reduction Waiver (both require a stamp from an engineering professional) by December 31<sup>st</sup> (6 months after the full reporting year).
- Once approved, fully implement the Tier 2 Corrective Actions by Sept 30<sup>th</sup> (1 year and 9 months after the report submittal deadline).

### Corrective Actions for Sector-Specific Benchmarks

**Tier 1 Corrective Action:** Required for any exceedance of a sector-specific benchmark (see above).

### Corrective Actions for Impairment Pollutant Monitoring Concentrations

**Zinc, Copper, Lead & pH:** single exceedance, no response required.

**Escalation to Water Quality Based Numeric Effluent Limit:** If two consecutive results exceed the monitoring concentration or one result is greater than two times the concentration (zinc, copper & lead), the impairment monitoring concentration becomes an enforceable limit. Review Schedule A.13. In summary, you will need to:

- Notify the City within 30 days of receiving the monitoring results.
- Request a compliance schedule per Schedule C of the permit or future exceedances will be a permit violation.

**E. coli and Iron:** single exceedance, no response required.

**Escalation to Water Quality Based Narrative Effluent Limit:** If two consecutive results exceed the impairment monitoring concentration, narrative requirements must be met. Review Schedule A.13. In summary, you will need to:

- Notify the City within 30 days of receiving the monitoring results.
- Implement the narrative controls within 90 calendar days from receiving the monitoring results.