Alpha Analytical Laboratories Inc.
www.alpha-labs.com
WATERS, SEDIMENTS, SOLIDS

# CA Industrial General Storm Water Permit Guidelines

| Parameter | Method | Hold time | Collection Bottles | Annual NAL*** | Instantaneous NAL Exceedance | Reporting Units |
|---|---|---|---|---|---|---|
| pH* | Field | 15 Minutes | | N/A | <6 or >9 | pH Units |
| Total Suspended Solids (TSS)* | SM2540D | 7 Days | 1 Liter Poly** | 100 | 400 | mg/L |
| Oil & Grease, Total (O&G)* | EPA1664 | 28 Days | 2 x 1 Liter Glass (H2SO4)** | 15 | 25 | mg/L |
| Ammonia as N (NH3) | SM4500-NH3 C | 28 Days | 500ml Poly (H2SO4)** | 2.14 | | mg/L |
| Biological Oxygen Demand (BOD) | SM5210B | 48 Hours | 1 Liter Poly** | 30 | | mg/L |
| Chemical Oxygen Demand (COD) | SM5220C | 28 Days | 250ml Poly (H2SO4)** | 120 | | mg/L |
| Cyanide, Total (Cn) | 10-204-00-1X | 14 Days | 250ml Brown Poly (NaOH)** | 0.022 | | mg/L |
| Nitrate + Nitrite as N (N+N) | SM4500-NO3-E | 28 Days | 250ml Poly (H2SO4)** | 0.68 | | mg/L |
| Phosphorus, Total (P) | SM4500-P B+E | 28 Days | 500ml Poly (H2SO4)** | 2 | | mg/L |
| **Metals/Minerals** | | | | | | |
| Aluminum, Total (Al) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.75 | | mg/L |
| Arsenic, Total (As) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.15 | | mg/L |
| Cadmium, Total (Cd) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.005 | | mg/L |
| Copper, Total (Cu) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.033 | | mg/L |
| Iron, Total (Fe) | EPA 200.7 | 180 Days | 250ml Poly (HNO3)** | 1 | | mg/L |
| Lead, Total (Pb) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.262 | | mg/L |
| Magnesium, Total (Mg) | EPA 200.7 | 180 Days | 250ml Poly (HNO3)** | 0.064 | | mg/L |
| Mercury, Total (Hg) | EPA 245.1 | 28 Days | 250ml Poly (HNO3)** | 0.001 | | mg/L |
| Nickel, Total (Ni) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 1 | | mg/L |
| Selenium, Total (Se) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.005 | | mg/L |
| Silver, Total (Ag) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.018 | | mg/L |
| Zinc, Total (Zn) | EPA 200.8 | 180 Days | 250ml Poly (HNO3)** | 0.26 | | mg/L |

| Additional Parameters based on Standard Industrial Classification (SIC)***** | | | |
|---|---|---|---|
| **SIC Code** | **Parameter(s)** | **SIC Code** | **Parameter(s)** |
| 1021 | COD; N+N | 3061, 69 | Zn |
| 12XX****** | Al; Fe | 325X****** | Al |
| 1442, 1446 | N+N | 326X****** | Al |
| 207X****** | BOD; COD; N+N | 3297 | Al |
| 2421 | COD; Zn | 327X****** | Fe |
| 2426 | COD | 3295 | Fe |
| 2429 | COD | 331X****** | Al; Zn |
| 243X****** | COD | 332X****** | Al; Cu; Fe; Zn |
| 244X****** | COD | 335X****** | Cu; Zn |
| 2451, 52 | COD | 336X****** | Cu; Zn |
| 2491 | As; Cu | 34XX****** | Zn; Fe; Al; N+N |
| 2493 | COD | 3479 | Zn; N+N |
| 2631 | COD | 4953 | Mg; As; Pb; Hg; Se; Ag; NH3; COD; Cn |
| 281X****** | Al; Fe; N+N | 44XX****** | Al; Fe; Pb; Zn |
| 282X****** | Zn | 45XX****** | BOD; COD; NH3 |
| 284X****** | Zn; N+N | 4911 | Fe |
| 287X****** | Fe; Pb; Zn; N+N; P | 4953 | Fe |
| 3011 | Zn | 5015 | Fe; Al; Pb |
| 3021 | Zn | 5093 | Fe; Pb; Al; Zn; COD |
| 3052, 53 | Zn | | |

* Minimum parameters required by this General Permit are bordered in bold

** Many analytical parameters can be consolidated in "like" collection bottles

*** Annual numeric action level (NAL) is triggered when the average of all analytical results during a reporting year storm season are exceeded

**** Instantaneous maximum numeric action level (NAL) is triggered when two or more results during a reporting season are exceeded

***** Industries can look up their industrial activities SIC code by accessing this link **https://www.osha.gov/pls/imis/sicsearch.html**

****** X or XX defines a broad range of SIC codes within a specific industrial classification

Qualifying Storm Event (QSE): (a) Produces a discharge from at least one drainage area; and (b) is preceeded by 48 hours with no discharge from any drainage area.