



OEC Sample ID: 1100XXX-01

GEOCHEM SUMMARY

Client: XXX Oil & Energy
 Project: XXX Plant, Santa Maria

Client Sample ID: XXX Water
 Project ID: XXX Evaluation, Santa Maria, CA

| Anions | mg/L | meq/L | Method | RL | Calculations | Results | Units | Method | RL |
|---|-------|-------|-------------|-------|---|---------|----------|-------------|------|
| Bicarbonate, HCO ₃ ⁻¹ | 1100 | 18 | SM 2320B | 61 | Alkalinity, as HCO ₃ ⁻¹ (Total) | 1100 | mg/L | SM 2320B | 100 |
| Bromide, Br ⁻¹ | 57 | 0.71 | EPA 300.0 | 2.0 | | | | | |
| Carbonate, CO ₃ ⁻¹ | ND | 0 | SM 2320B | 6 | Hardness, as CaCO ₃ (Calc.) | ND | mg/L | SM 2340B | 10 |
| Chloride, Cl ⁻¹ | 12000 | 340 | EPA 300.0 | 400 | | | | | |
| Fluoride, F ⁻¹ | ND | 0 | EPA 300.0 | 2.0 | Salinity, as NaCl | 22000 | mg/L | Calculation | 1 |
| Hydroxide, OH ⁻¹ | ND | 0 | SM 2320B | 2 | | | | | |
| Sulfate, SO ₄ ⁻² | 6.5 | 0.14 | EPA 300.0 | 2.0 | Calcium Carbonate | Results | Units | Method | RL |
| Nitrite, NO ₂ ⁻¹ | ND | 0 | EPA 300.0 | 6.6 | Stability Index (Langelier) | -0.27 | | SM 2330B | |
| Nitrate, NO ₃ ⁻¹ | ND | 0 | EPA 300.0 | 9 | Stability Index (Stiff & Davis) | -2.41 | | ASTM D4582 | |
| Cations | mg/L | meq/L | Method | RL | Physical Data | Results | Units | Method | RL |
| Barium, Ba ⁺² | ND | 0 | EPA 6010B | 0.25 | Conductivity (Measured) | 32000 | umhos/cm | 2510 B | 20 |
| Boron, B ⁺³ | 22 | 6.1 | EPA 6010B | 0.25 | Resistivity | 31 | Ohm-cm | Calculation | 2.0 |
| Calcium, Ca ⁺² | 15 | 0.75 | EPA 6010B | 1.0 | Specific Gravity (xx/60°F) | | g/cc | | |
| Iron, Fe ⁺³ | 1.5 | 0.081 | EPA 6010B | 0.12 | Ionic strength | 0.35 | mol/L | Calculation | |
| Magnesium, Mg ⁺² | 0.74 | 0.061 | EPA 6010B | 0.12 | pH | 7.2 | pH Units | 9040B | 0.10 |
| Manganese, Mn ⁺² | ND | 0 | EPA 6010B | 0.025 | Temperature | | °C | SM 2550B | |
| Potassium, K ⁺¹ | 72 | 1.8 | EPA 6010B | 0.050 | Total Diss. Solids (TDS Calc) | 20000 | mg/L | Calculation | 10 |
| Sodium, Na ⁺¹ | 7200 | 310 | EPA 6010B | 100 | Total Diss Solids @180°C | 19000 | mg/L | 2540C | 200 |
| Strontium, Sr ⁺² | ND | 0 | EPA 6010B | 0.025 | Quality Control | meq/L | Units | Acceptable | |
| Zinc, Zn ⁺² | ND | 0 | EPA 6010B | 0.50 | | SUM | | % Diff. | |
| Other | mg/L | meq/L | Method | RL | Anion-Cation Balance= | 9.9 | % | 0-5% | |
| Lithium, Li | 0.62 | 0.089 | EPA 6010B | 0.12 | | | | | |
| Silica, as SiO ₂ | 44 | 1.50 | EPA 6010B | 0.54 | | | | | |
| Sodium, Na ⁺¹ | 8500 | 370 | Calculation | 1 | | | | | |

NA* = Not Analyzed

ND = Not Detected at or above the Reporting Limit (RL)