

Table 1 – Required Analytical Testing

Requirement (analyte synonym)¹	Recommended Methods – Drinking Water²	Recommended Methods – All other samples
Total Dissolved Solids (Residue, Dissolved - TDS)	SM 2540 C	SM 2540 C
Total Petroleum Hydrocarbon (TPH) as crude oil (Sum of Gasoline & Deisel Range Organics) OR (Total Oil and Grease)	EPA 8015 C EPA 1644 B	EPA 8015 C EPA 1644 B
Major Cations (Ca, Mg, Na, K, Fe, Mn, Sr, B) ³	EPA 200.7 EPA 200.8	EPA 6010 D EPA 6020 B
Major Anions (Chloride, Sulfate, Bromide, Iodine, and Nitrate)	EPA 300.0	EPA 300.0
Title 22, §66261.24 (a)(2)(A) - metals ⁴	Cr (VI) – EPA 218.7 Hg – EPA 245.1 Other – EPA 200.8	Cr (VI) – EPA 218.6 Hg – EPA 7470 A Other – EPA 6020 B
Title 22, §66261.24 (a)(2)(A) - asbestos	EPA 100.1 EPA 100.2	Not applicable
Title 22, §66261.24 (a)(2)(B) – semi-volatiles	Dioxin – EPA 1613 B 2,4-D&Silvex – EPA 515.4 Others – EPA 525.3	Dioxin – EPA 8290 A 2,4-D&Silvex – EPA 8151A Others – EPA 8270 E
Title 22, §66261.24 (a)(2)(B) – volatiles	EPA 524.2	EPA 8260 D
Radionuclides (Gross Alpha & Beta)	EPA 900.0	EPA 900.0
Total Alkalinity, carbonate, bicarbonate, and Hydroxide	SM 2320 B	SM 2320 B
Electrical conductance, pH, Dissolved Oxygen and Temperature (Field Tests)	Approved field parameters ⁵	Approved field parameters
Appropriate indicator chemicals for drilling mud and fluids used for well cleanout	Operator & Site specific	Operator & Site specific

¹ The operator should verify that no additional analyses are required by Water Boards staff prior to sample collection. It is recommended that the operator work directly with Water Boards staff to develop a sampling and analysis approach prior to sampling to prevent a resampling event.

² These are typical methods. The operator should work with Water Boards and laboratory staff during preparation of a work plan to ensure the analytical methods chosen provide for detection limits that are consistent with the goals of the sampling and analysis effort.

³ Calcium, Magnesium, Sodium, Potassium, Iron, Manganese, Strontium, Boron

⁴ Table II - List of Inorganic Persistent and Bioaccumulative Toxic Substances and Their Soluble Threshold Limit Concentration and Table III - List of Organic Persistent and Bioaccumulative Toxic Substances and Their Soluble Threshold Limit Concentration (STLC) and Total Threshold Limit Concentration (TTLC) Values

⁵ Field parameter equipment shall be calibrated before use according to manufacturer instructions