

Table 1 Groundwater Baseline Monitoring Program				
Analytes	Analytical Method	COGA Program Required Analysis	COGCC Required Analysis	Additional Shell Required Analysis
Field Measurements				
Conductivity	SM2510B	x	x	
Temperature	Field Measurement	x	x	
Flow	Field Measurement	x	x	
pH (field)	Field Measurement	x	x	
Odor	Field Observation	x	x	
Water Color	Field Observation	x	x	
Effervescence	Field Observation			x
Volatile Organic Contaminants				
Benzene	EPA Method 8021 or 8260	x	x	
Toluene	EPA Method 8021 or 8260	x	x	
Ethylbenzene	EPA Method 8021 or 8260	x	x	
Xylenes (o- and m- + p- varieties)	EPA Method 8021 or 8260	x	x	
TPH-GRO	EPA Method 8015			x
TPH-DRO	EPA Method 8015			x
Dissolved Gases				
Ethane	EPA Method RSK-175	x	x	
Methane*	EPA Method RSK-175	x	x	
Propane	EPA Method RSK-175	x	x	
Lower Explosive Limit (LEL)	Field Measurement			x
Metals				
Arsenic	M200.8 ICP-MS			x
Barium	M200.7 ICP			x
Boron	M200.7 ICP	x	x	
Cadmium	M200.8 ICP-MS			x
Calcium	M200.7 ICP	x	x	
Chromium (Total)	M200.7 ICP			x
Copper	M200.7 ICP			x
Iron	M200.7 ICP	x	x	
Lead	M200.8 ICP-MS			x
Magnesium	M200.7 ICP	x	x	
Manganese	M200.7 ICP	x	x	
Mercury	M245.1 CVAA			x
Potassium	M200.7 ICP	x	x	
Selenium	M200.8 ICP-MS	x	x	
Silver	M200.7 ICP			x
Sodium	M200.7 ICP	x	x	
Strontium	M200.7 ICP	x	x	
General Chemistry				
Alkalinity (total as CaCO ₃)	SM 2320B	x	x	
Bromine/Bromide	EPA 200.7or 200.8/SW846 6010C or SW846 6020	x	x	
Carbonate /Bicarbonate	M300.0 - Ion Chromatography			x
Cation-Anion Balance	M300.0 - Ion Chromatography			x
Chlorine / Chloride	SM2340B - Calculation	x	x	
Fluorine/Fluoride	SM2320B - Titration			x
Hardness	M353.2 - H ₂ SO ₄ preserved			x
Methylene Blue Active Substances	ASTM D2330-88(1995)e1			x
Nitrate and Nitrite as total N	SM2540C	x	x	
Phosphorus	USGS - I1738-78	x	x	
SAR (Sodium Absorption Ratio)	Calculation	x	x	
Silica	M200.7 ICP			x
Sulfate (SO ₄)	Calculation	x	x	
Total Dissolved Solids	SM2540C	x	x	