Laboratory Parameters (5)	Analytical Methods	Sensitivity of Method
Dissolved CO_2 gas	Gas Chromatography	+/-2%
Dissolved Methane gas	Gas Chromatography	+/-2%
Dissolved Hydrocarbons (C1-C5)	Gas Chromatography	+/-5% (C1-C3), 10% C4-C5
Alkalinity	Titration	
δC^{13} CO_2	Gas Chromatography with dual inlet isotope ratio mass spectrometer	+/- 0.1 ‰.
δC^{13} Methane	Gas Chromatography with dual inlet isotope ratio mass spectrometer	+/- 0.1 ‰.
C^{14} CO_2	Accelerated mass spectrometry (AMS).	+/- 0.4 pMC
C^{14} Methane	Accelerated mass spectrometry (AMS).	+/- 0.4 pMC
Major elements		
Minor elements including Br, I, Sr		
Isotopic composition of selected major or minor constituents (e.g. Sr $^{87/86,}$ S		

Table 1.6.2-2 Summary of analytical and field parameters for near surface ground water samples (USDW), Chicot aquifer (Beaumont Formation)

Note 5 Parameters will be revised based on initial findings and fluid flow modeling.