

3 Mineralogical description

Sample				(sample ref removed)
Composition	subarkose			73.2 % volume
Major	monocrystalline quartz, polycrystalline quartz (61.6%)			
Minor	feldspar - orthoclase, microcline (8.8%), lithic fragment – sandstone & chert (2.8%)			
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Grain Size Distribution</p> <p>Distribution</p> <p>Grain size (µm)</p> </div> <div style="text-align: center;"> <p>size (µm)</p> </div> </div>				
Grainsize	Min. – Max. (µm)	Min. – Max. (phi)	Average	
	40 – 1180	4.64 – -0.24	295 µm 1.76 phi (medium sand)	
Sphericity	low sphericity			
Sorting	poorly sorted (0.97 phi)			
Roundness	Range		Average	
	sub-rounded -rounded		sub-rounded	
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Pore Size Distribution</p> <p>Distribution</p> <p>Pore size (µm)</p> </div> <div style="text-align: center;"> <p>size (µm)</p> </div> </div>				
Porosity	intergranular porosity and rare intragranular porosity in feldspars			20.6 % volume
Clay matrix	present – probably detrital (composition not determined)			2.4% volume
Cement	Silica (%)	Carbonate (%)	Iron oxide (%)	3.8 % volume
	0.2	2.6	1.0	
Grain contacts	floating contacts (abundant), weak concave-convex contacts (present)			

