North Park								
Geologic Period	Phase	Stratigraphic Unit	Hydrogeologic Unit					
	Modern	Alluvium and outwash deposits	Alluvial Aquifer					
Quaternary	Glaciation	Glacial deposits	Glacial deposits					
		Older stream and outwash terrace deposits	Local perched aquifer					
Neogene	Extension North Park Formation		North Park Aquifer					
	Transition	Rabit Ears Volcanics	Volcanics					
Paleogene		White River Formation	White River confining unit					
raleogene	Laramide	Coalmont Formation	Coalmont Aquifer					
	Interior Seaway	Pierre Shale	Pierre Confining unit					
Cretaceous		Niobrara Formation						
		Benton Group						
		Dakota Sandstone	Dakota Aquifer					
	Mesozoic Sandstones	Morrison Formation	Morrison confining unit					
Jurassic		Sundance Formation	Entrada-Sundance Aquifer					
Triassic		Chugwater Formation Chugwater Aqu						
Permian	Ancestral							
Pennsylvanian	Rocky Mountains							
Mississippian		No obrobo						
Devonian		No strata						
Silurian	Paleozoic Carbonates							
Ordovician								
Cambrian								
Precambrian	Precambrian	Crystalline rocks of igneous and metamorphic origin in mountainous region Crystalline bedrock						
Table 12a-06-01.	Table 12a-06-01. North Park stratigraphic chart.							

				North Park				
Geologic Period	Phase	Stratigraphic Unit	Unit Thickness (ft)	Physical Characteristics	Hydrogeologic Unit	Hydrologic Characteristics		
Quaternary	Modern	Alluvium and outwash deposits		Well to poorly-sorted, uncemented sands, silts and gravels along modern streams and as valley-fill	Alluvial Aquifer			
	Glaciation	Glacial deposits		Unstratified sand, gravel, and silt within, and at the mouths of, mountain valleys	Glacial deposits			
		Older stream and outwash terrace deposits		Well to poorly-sorted, uncemented sands, silts and gravels on bedrock- cored terraces above modern streams	Local perched aquifer			
Neogene	Extension	North Park Formation	0-1,800	Poorly consolidated tuffaceous sandstone, conglomerate, and siltstone with claystone and volcanic ash; volcanic flows and tuff breccia	North Park Aquifer	Breccia, sandstone, conglomerate, and ash yield water to springs, but few wells completed in these rocks		
Paleogene –	Transition	Rabit Ears Volcanics	0 - 1,500	Interbeded tuff, tuff breccia and volcanic breccia interlayered with flows of intermediate composition	Volcanics			
		White River Formation		Continental lakebed deposit	White River confining unit			
	Laramide	Coalmont Formation	h 500	Conglomerate, sandstone, siltstone, and shale with some coal; poorly to moderately consolidated; predominately shale in central part of basin	Coalmont Aquifer	Large yields of potable water can be expected from poorly consolidated coarse-grained sandstone and conglomerate; will have limited well yield where shale predominates; water quality degrades with depth of aquifer		
		Pierre Shale	3,000-4,500	Dark green and black shale	Pierre Confining unit			
Cretaceous	Interior Seaway	Niobrara Formation	400-900	Dark calcareous shale with thin bedded limestone				
		Benton Group	500-650	Shale, sandy shale, sandstone and thin limestone				
		Dakota Sandstone	150->300	Sandstone, conglomerate and interbedded shale	Dakota Aquifer			
	Mesozoic Sandstones	Morrison Formation	400-500	Shale and marlstone, thin limestone and some sandstone	Morrison confining unit			
		Sundance Formation	100-150	Sandstone with some siltstone and limestone	Entrada-Sundance Aquifer			
Triassic		Chugwater Formation	600-800	Silty shale and sandstone	Chugwater Aquifer	Sandstone may be aquifer where fractured		
Permian								
Pennsylvanian	Ancestral Rocky Mountains							
Mississippian		No strata						
Devonian	Delacari	No strata						
Silurian	Paleozoic Carbonates							
Ordovician								
Cambrian								
Precambrian	Precambrian	Crystalline rocks of igneous and metan	norphic origin in	mountainous region	Crystalline bedrock			
Table 12a-06-02. North Park stratigraphic chart, detailed. Colorado Geological Survey ON-010 Colorado Groundwater Atlas.								
Sources: Shaw (19	Sources: Shaw (1957); Tweto (1957); Voegeli (1965); Kinney and Hail (1970); Madole (1991); Robson and Graham (1996); Glover and others (1998); Apodaca and Bails (1999); Streufert and others (1999); Cole and others (2010); Raynolds and Hagadorn (2018)							