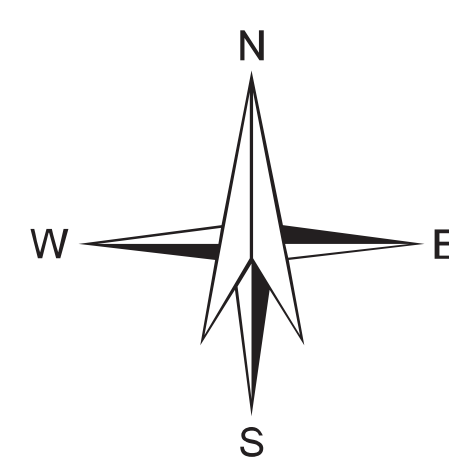


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



MAP UNIT (HYDROGEOGRAPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE	GEOLOGICAL SEQUENCE / ROCK TYPE	GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL PMT (FOOT-MONSOON AVERAGE WATER LEVEL) NO. OF WELLS OBSERVED	RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS								RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS (PROBLEMS/LIMITATIONS)
					AQUIFER MATERIAL LS - LOOSE SEGMENTS FR - FRACTURED ROCK WM - WEATHERED MATERIAL IM - IMPERVIOUS ROCK IMF - IMPERVIOUS MATERIAL	TYPE OF WELLS SUITABLE DW - DOWS WELL BW - BORED WELL RW - RABBIT WELL DW - DOWS WELL DW - DOWS WELL DW - DOWS WELL	DEPTH RANGE OF WELLS (SUGGESTED) MIN - MAX (IN METERS)	YIELD RANGE OF WELLS (EXPECTED) (IN LPM M ³ /DAY)	HOMOGENEITY IN THE UNIT & BUCKESS (RANGE OF WELLS) VERY HIGH MODERATE LOW	QUALITY OF WATER NOTABLE (P) MOD. POTENTIAL (P) (INQUIRY REQUIRED & NEW TESTS?)	GROUND WATER IRRIGATED AREA (APPROX. RANGE & PERCENTAGE)			
												PT - PERCOLATION TANK CD - CHECK DAM WB - WASHING WELL CT - CATCHMENT OF TANK ST - STORAGE TANK RF - RECHARGE DITCH ST - STORAGE TANK SCM - SOL CONSERVATION MEASURES		
CB111	Aluvium (Sand Dominant) (111)	Channel Bar (CB)	5 - 6	Excellent	LS	TW	5-10 m	400-500 LPM	Very High	P	42%	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.	
PB111	Aluvium (Sand Dominant) (111)	Point Bar (PB)	6	Very Good	LS	RW TW	5-10 m	300-400 LPM	Very High	P	7%	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.	
APY113	Aluvium (Sand Dominant) (113)	Alluvial Plain Younger (APY)	No wells observed	Very Good	LS	DW TW	10 - 12 m 20 - 30 m	125 - 150 m ³ /day 200 - 200 LPM	Very High	P	20%	Not Required	Aluvium is format of Sandy part of alluvium. Recharge structures not required as groundwater conditions prevail	
VFS55		Valley Fill Shallow (VFS)	No wells observed	Good	LS Underlain by WM+FR	TW / BW	30 - 50 m	100 - 125 LPM	Moderate	P	40%	DT Moderate	Recharge structures will increase sustainability of groundwater prospect	
BPM55	Shale with Sandstone Bands (Panchet Formation) (55)	Buried Pedicplain Medium (BPM)	No wells observed	Moderate	WM+FR	DW	15 - 20 m 40 - 50 m	10 - 15 m ³ /day 100 - 125 LPM	Moderate	P	10%	Not Required	Recharge structures not required since units are very small with no settlements	
BPS55		Buried Pedicplain Shallow (BPS)	4.65 - 8.03 DW - 4	Limited	WM+FR	DW TW / BW	15 - 20 m 40 - 60 m	5 - 10m ³ /day 50 - 100 LPM	Low	P	30%	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
PPS55		Weathered Pedicplain Shallow (PPS)	No wells observed	Limited	FR	DW TW / BW	15 - 20 m 40 - 60 m	5 - 10m ³ /day 30 - 50 LPM	Low	P	Negligible	Not Required	Recharge structures not required since units are very small with no settlements	
VFS54		Valley Fill Shallow (VFS)	No wells observed	Good	LS Underlain by WM+FR	TW / BW	30 - 50 m	50 - 75 LPM	Moderate	P	10%	DT Moderate	Groundwater prospects moderate, recharge structures will improve the sustainability of groundwater sources	
BPS54	Sandy Shale (Barren Measure) (54)	Buried Pedicplain Shallow (BPS)	6.08 DW - 1	Limited	WM+FR	DW TW / BW	5 - 10 m 40 - 60 m	< 5 m ³ /day 30 - 50 LPM	Low	P	10%	RW / DT Moderate	Recharge structures will increase scope for groundwater development	
PPS54		Weathered Pedicplain Shallow (PPS)	No wells observed	Poor	FR	DW TW / BW	5 - 10 m 40 - 60 m	< 5 m ³ /day 20 - 30 LPM	Low	P	Nil	Not Required	Very small unit, recharge structure not required	
VFS531		Valley Fill Shallow (VFS)	No wells observed	Good	LS Underlain by WM+FR	TW / BW	20 - 25 m	75 - 100 LPM	Moderate	P	40%	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
BPM531	Sandstone & Shale with Coal (Ranigan Formation) (531)	Buried Pedicplain Moderate (BPM)	No wells observed	Moderate	WM+FR	DW TW / BW	5 - 10 m 20 - 25 m	15 - 25 m ³ /day 75 - 100 LPM	Moderate	P	30%	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
BPS531		Buried Pedicplain Shallow (BPS)	3.25 - 10.07 DW - 28	Moderate	WM+FR	DW TW / BW	5 - 10 m 20 - 30 m	10 - 15 m ³ /day 30 - 50 LPM	Low	P	Nil	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
PPS531		Weathered Pedicplain Shallow (PPS)	No wells observed	Limited	FR	DW TW / BW	5 - 10 m 20 - 30 m	5 - 10 m ³ /day 30 - 50 LPM	Low	P	Nil	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
PP531		Weathered Pedicplain (PP)	6.21 DW - 1	-	-	-	-	-	-	-	-	-	Active Open Cast Coal Mines. Groundwater development not feasible	
VFS532	Sandstone & Shale with Coal (Barakar Formation) (532)	Valley Fill Shallow (VFS)	No wells observed	Good	LS Underlain by WM+FR	TW / BW	20 - 25 m	75 - 100 LPM	Moderate	P	40%	Not Required	Aquifer conditions modified by coal mining activities. Groundwater development may not be sustainable in the long run. Areas of piped water supply	
VFS73		Valley Fill Shallow (VFS)	No wells observed	Moderate	LS Underlain by WM+FR	TW / BW	30 - 50 m	50 - 75 LPM	Moderate	P	60%	CD Moderate	Prospect inferred as no wells observed. Recharge structure will improve groundwater prospects	
BPM73	Anorthosite and Gabbroic Anorthosite (73)	Buried Pedicplain Moderate (BPM)	No wells observed	Moderate	WM+FR	DW TW / BW	5 - 10 m 40 - 50 m	5 - 10m ³ /day 50 - 75 LPM	Moderate	P	30%	RP Moderate	Weathered material and underlying fracture rock form the aquifer. Sustainability of groundwater yield can be increased with recharge structure	
BPS73		Buried Pedicplain Shallow (BPS)	2.6 - 8.69 DW - 20 HP - 1	Limited	WM+FR	DW TW / BW	5 - 10 m 40 - 60 m	< 5 m ³ /day 30 - 50 LPM	Low	P	20%	RP High	Limited groundwater resources. Priority of recharge structures is high	
PPS73		Weathered Pedicplain Shallow (PPS)	No wells observed	Poor	FR	DW TW / BW	5 - 10 m 40 - 60 m	< 5 m ³ /day 30 - 50 LPM	Low	P	Nil	RP High	Essentially run-off zone. Recharge structure may help in limited groundwater development	
VFS832		Valley Fill Shallow (VFS)	No wells observed	Moderate	LS Underlain by WM+FR	TW / BW	30 - 50 m	150 - 175 LPM	Moderate	P	Nil	CD Moderate	Prospects inferred as no wells observed. Recharge condition is moderate with moderate groundwater prospects	
BPM832		Buried Pedicplain Moderate (BPM)	No wells observed	Moderate	WM+FR	DW TW / BW	5 - 10 m 40 - 50 m	15 - 25 m ³ /day 150 - 175 LPM	Moderate	P	50%	RP Moderate	Recharge structure will improve ground water prospects	
BPS832	Granitoid Gneiss (832)	Buried Pedicplain Shallow (BPS)	4.84 - 5 DW - 2	Limited	WM+FR</									

