









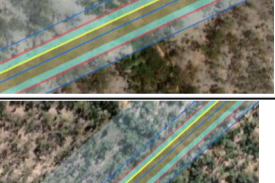


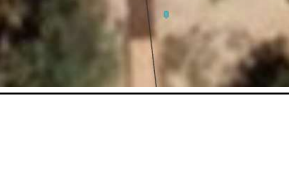


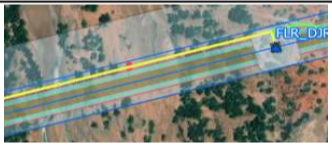


Waterway Barrier Crossing Register: Major Risk Waterways

No.	Ref	Risk	Size	Project Image	Location	Flow status	Comment	WWBW Permit
WWB_28	383	Major	Large		In between Burdekin Falls Road and Ravenswood Ayr Rd.	Ephemeral	Creek loops under alignment (2 crossings WWB-28 & WWB-29). This location can be avoided if accessing the tower from the next crossing.	May not be required
WWB_29	295	Major	Large	As Above	As Above	Ephemeral	Unavoidable	Required
WWB_34	375	Major	Large		In between Burdekin Falls Road and Ravenswood Ayr Rd.	Ephemeral	Existing Track crossing creek. Also May not be required if use of Avoca Vale Road.	May not be required
WWB_35	378	Major	Large	As Above	As Above	Ephemeral	As Above	May not be required
WWB_49	363	Major	Large		West of Burdekin Falls	Ephemeral	Creek crossing avoided. Use Silver Valley Road.	May not be required
WWB_61	377	Major	Medium		Amity Road - West of Burdekin Falls Rd	Ephemeral	Use Amity Road	May not be required
WWB_79	229	Major	Medium		Burdekin River	Perennial	Unavoidable. New crossing required. Allows access to the western bank of the Burdekin River.	Required
WWB_83	230	Major	Major		Broughton Rd	Ephemeral	Use existing bridge crossing.	May not be required
WWB_93	232	Major	Large		South of Charters Towers	Ephemeral	Use existing access via Bluff and Cameron Downs	May not be required
WWB_98	286	Major	Large		Bluff Road	Ephemeral	Use existing road	May not be required
WWB_102	231	Major	Large		Between Hughenden and Pentland	Ephemeral	Could be avoided by using access via local Track and Cameron Downs	May not be required
WWB_113	347	Major	Large		South of Charters Towers	Ephemeral	Use existing crossing	May not be required
WWB_133	362	Major	Large		South West of Charters Towers	Perennial	Access required to Tower WDS_FLR_255 (Creek bend means this is impossible to avoid)	Required
WWB_142	345	Major	Major		Mid way between Charters Towers and Pentland	Perennial	Creek running North South (impossible to avoid)	Required
WWB_149	293	Major	Major		South East of Pentland Helenslee Rd	Ephemeral	Some sort of bridge structure in place	May not be required
WWB_155	289	Major	Medium		Homestead Lacelles Rd	Ephemeral	Some sort of bridge structure in place	May not be required

WWB_166	294	Major	Large		South of Pentland	Ephemeral	Unavoidable	Required
WWB_168	290	Major	Medium		South of Pentland	Ephemeral	Unavoidable	Required
WWB_169	87	Major	Medium		Longton Rd (South of Pentland)	Ephemeral	Road appears to be in good order. No structure required.	May not be required
WWB_170	288	Major	Medium		Longton Rd (South of Pentland)	Ephemeral	Road appears to be in good order. No structure required.	May not be required
WWB_185	85	Major	Large		South of Pentland	Ephemeral	Unavoidable	Required
WWB_186	86	Major	Large		South of Pentland	Ephemeral	Unavoidable	Required
WWB_187	292	Major	Major		South of Pentland	Ephemeral	Big sandy crossing. Unavoidable	Required
WWB_192	291	Major	Large		South of Pentland	Ephemeral	Big sandy crossing. Unavoidable	Required
WWB_216	97	Major	Large		West of Hughenden	Ephemeral	Grassy creek crossing. Unavoidable	Required
WWB_217	100	Major	Large		West of Hughenden	Ephemeral	Grassy creek crossing. Unavoidable	Required
WWB_218	271	Major	Large		Mid way between Richmond and Hughenden	Perennial	Cluster of 3 towers through 4 major crossing (271, 96, 98, 99); it is possible to avoid crossing 271 & 96)	May not be required
WWB_219	96	Major	Large	As Above	Mid way between Richmond and Hughenden	Perennial	As Above	May not be required
WWB_220	98	Major	Large	As Above	Mid way between Richmond and Hughenden	Perennial	As Above	Required
WWB_221	99	Major	Large	As Above	Mid way between Richmond and Hughenden	Perennial	As Above	Required
WWB_234	92	Major	Medium		West of Richmond	Ephemeral	Cluster of 4 towers through 3 major crossing (92, 94 & 95); As the river splits, it is not possible to avoid	Required
WWB_235	94	Major	Medium	As Above	West of Richmond	Ephemeral	As Above	Required
WWB_236	95	Major	Large	As Above	West of Richmond	Ephemeral	As Above	Required
WWB_237	117	Major	Large		Mid way between Richmond and Julia Creek	Ephemeral	Cluster of towers through split creeks	Required
WWB_238	124	Major	Large	As Above	Mid way between Richmond and Julia Creek	Ephemeral	Cluster of towers through split creeks	Required
WWB_239	123	Major	Medium	As Above	Mid way between Richmond and Julia Creek	Ephemeral	Cluster of towers through split creeks	Required
WWB_240	119	Major	Large		East of Julia Creek	Perennial	Lots wet and unavoidable	Required
WWB_241	115	Major	Small		East of Julia Creek	Ephemeral	Appears very minor, but needs to be crossed to access tower site	Required
WWB_242	114	Major	Large		East of Julia Creek	Perennial	Possible to avoid by only accessing from the western side (utilising Crossing 118)	May not be required
WWB_243	120	Major	Large		MINAMERE NELIA ROAD	Perennial	Crossing already exists in some form	May not be required
WWB_244	121	Major	Large		MINAMERE NELIA ROAD	Perennial	Crossing already exists in some form	May not be required
WWB_245	122	Major	Large		MINAMERE NELIA ROAD	Perennial	Crossing already exists in some form	May not be required
WWB_246	118	Major	Medium	See 114	East of Julia Creek	Ephemeral	Unavoidable	Required
WWB_247	116	Major	Medium	See 118	East of Julia Creek	Ephemeral	Unavoidable	Required

WWB_359	46	Low	Small	1	-	-	10	-	-	-	-
WWB_360	47	Low	Small	1	-	-	10	-	-	-	-
WWB_361	48	Low	Small	1	-	-	10	-	-	-	-
WWB_362	163	Low	Small	1	-	-	10	-	-	-	-
WWB_363	166	Low	Small	1	-	-	10	-	-	-	-
WWB_364	169	Low	Small	1	-	-	10	-	-	-	-
WWB_365	197	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_366	189	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_367	168	Low	Small	1	-	-	10	-	-	-	-
WWB_368	113	High	Large	-	1	-	30	-	1	120	1
WWB_369	165	Low	Small	1	-	-	10	1	-	40	-
WWB_370	173	Moderate	Medium	-	1	-	20	1	-	80	-
WWB_371	184	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_372	167	Low	Small	1	-	-	10	-	-	-	-
WWB_373	91	Major	Large	-	-	-	30	-	1	120	TBC
WWB_374	90	Major	Large	-	-	-	30	-	1	120	TBC
WWB_375	89	Major	Large	-	-	-	30	-	1	120	TBC
WWB_376	170	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_377	112	High	Large	-	1	-	20	-	1	80	1
WWB_378	111	High	Medium	-	1	-	20	-	1	80	1
WWB_379	110	High	Medium	-	1	-	20	1	1	80	1
WWB_380	162	Low	Small	1	-	-	10	-	-	-	-
WWB_381	172	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_382	147	Low	Small	1	-	-	10	-	-	-	-
WWB_383	156	Low	Small	1	-	-	10	-	-	-	-
WWB_384	178	Low	Small	1	-	-	10	-	-	-	-
WWB_385	183	Low	Small	1	-	-	10	-	-	-	-
WWB_386	182	Low	Small	1	-	-	10	-	-	-	-
WWB_387	181	Low	Medium	-	1	-	20	1	-	80	-
WWB_388	177	Low	Small	1	-	-	10	-	-	-	-
WWB_389	80	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_390	79	Moderate	Medium	-	1	-	20	1	-	80	-
WWB_391	346	High	Medium	-	1	-	20	-	1	80	1
WWB_392	78	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_393	77	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_394	76	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_395	75	Moderate	Medium	-	1	-	20	-	-	-	-
WWB_396	208	Low	Small	1	-	-	10	-	-	-	-
WWB_397	179	Low	Small	1	-	-	10	-	-	-	-
WWB_398	180	Low	Small	1	-	-	10	-	-	-	-
Total				127	235	0		19	123	13,840	93

WWB_256	266	Major	Large		South of Julia Creek	Ephemeral	Unavoidable due to branching creeks	Required
WWB_257	275	Major	Large		South of Julia Creek	Ephemeral	Unavoidable due to branching creeks	Required
WWB_267	261	Major	Medium		West of Julia Creek	Ephemeral	261, 270, 269, 257, 256, 255, 254, 268, 267, 262;	Required
WWB_268	270	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_269	269	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_270	257	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_271	256	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_272	255	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_273	254	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_274	268	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_275	267	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_276	262	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_277	272	Major	Medium		West of Julia Creek	Ephemeral	272, 263, 252, 273, 260, 274, 258, 253, 276, 277, 259; cluster of branched creeks, impossible to avoid	Required
WWB_278	263	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_279	252	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_280	273	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_281	260	Major	Large	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_282	274	Major	Large	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_283	258	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_284	253	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_285	276	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_286	277	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_287	259	Major	Medium	As Above	West of Julia Creek	Ephemeral	As Above	Required
WWB_301	101	Major	Large		OORINDI MCKINLAY ROAD	Ephemeral	Use existing culvert/bridge structure in place	May not be required
WWB_302	102	Major	Large		OORINDI MCKINLAY ROAD	Ephemeral	Use existing culvert/bridge structure in place	May not be required
WWB_303	93	Major	Large		OORINDI MCKINLAY ROAD	Ephemeral	Use existing culvert/bridge structure in place	May not be required
WWB_307	103	Major	Large	NA		Ephemeral	Crossing no longer needed.	May not be required
WWB_352	264	Major	Medium	NA	Roxmere Rd	Ephemeral	Use existing culvert/bridge structure in place	May not be required
WWB_353	265	Major	Major		South of Cloncurry	Perennial	Concurry River - Avoidable (can approach from both directions)	May not be required
WWB_373	91	Major	Large		Between Selwyn and Cloncurry	Ephemeral	Cluster of 3 crossing (91, 90 & 89); may be able to be avoided by approaching form the north and south	May not be required
WWB_374	90	Major	Large	As Above	Between Selwyn and Cloncurry	Ephemeral	Cluster of 3 crossing (91, 90 & 89); may be able to be avoided by approaching form the north and south	May not be required
WWB_375	89	Major	Large	As Above	Between Selwyn and Cloncurry	Ephemeral	Cluster of 3 crossing (91, 90 & 89); may be able to be avoided by approaching form the north and south	May not be required

May not be required	29
Required	47