



ARROW BOWEN PIPELINE – ENVIRONMENTAL MANAGEMENT PLAN

APPENDIX H – SCHEDULE OF ASSESSED WATERCOURSE CROSSINGS

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Details of watercourse crossings are provided below and include stream order, level of protection for aquatic ecosystem and Environmental Protection (Water) Policy (EPP(Water)) areas (Ecosure 2012b). EPP(Water) areas are defined in the legend. Levels of protection are highly disturbed (HD), slightly to moderately disturbed (SMD) and high ecological value (HEV).

Environmental Protection (Water) Policy area
Suttor Creek, Bowen Basin (SC)
Isaac northern tributaries (INT)
Upper Isaac main channel (UIMC)
Lower Isaac (LI)
Isaac undeveloped areas
Fitzroy central/southern tributaries (FCST)
Raglan Creek and tributaries (RCT)
Raglan Creek and tributaries estuarine reaches (RCTE)
Fitzroy main channel (above barrage) (FMC)
Fitzroy undeveloped areas

Watercourse Assessed	Stream Order	Approximate KP	Crossing Method*	EPP Area	Level of protection	Surveys Conducted
Suttor Creek	5	12.3	Open cut	SC	SMD	Watercourse Crossing, Desktop
Eagerfield Creek	2	28.3	Open cut	SC	SMD	Watercourse Crossing, Desktop
Isaac River	5	50.4	Open cut	INT	HD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Twelve Mile Gully	3	59.8	Open cut	INT	HD	Watercourse Crossing, Desktop

Watercourse Assessed	Stream Order	Approximate KP	Crossing Method*	EPP Area	Level of protection	Surveys Conducted
Teviot Brook	4	68.0	Open cut	INT	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
North Creek	4	104.5	Open cut	INT	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
North Creek (south crossing)	4	108.6	Open cut	INT	HD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
North Creek Tributary	2	109.4	Open cut	INT	HD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Isaac River Tributary	2	164	Open cut	INT	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Isaac River	6	166.0	Open cut	IMC	SMD	Desktop. (Rev SR crossing point not surveyed)
Sandy Gully	2	196.5	Open cut	LI	SMD	Watercourse Crossing, Desktop
Isaac River	8	233.1	HDD	LI	SMD	Desktop. (Rev SR crossing point not surveyed as HDD proposed)
Clarke Creek	7	237.5	Open cut	LI	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Stockyard Creek	4	238.7	Open cut	LI	SMD	Watercourse Crossing, Desktop
Bora Creek	4	244.3	Open cut	LI	HD	Desktop. (Rev SR crossing point not surveyed)
Clive Creek	4	248.0	Open cut	LI	SMD	Watercourse Crossing, Desktop
Mackenzie River Tributary	2	260.6	Open cut	MET	SMD	Watercourse Crossing, Desktop

Watercourse Assessed	Stream Order	Approximate KP	Crossing Method*	EPP Area	Level of protection	Surveys Conducted
Pluto Creek	3	274.9	Open cut	MET	SMD	Watercourse Crossing, Desktop
Apis Creek	5	283.4	Open cut	MET	SMD	Watercourse Crossing, Desktop
Endrick Creek	4	284.6	Open cut	MET	SMD	Watercourse Crossing, Desktop
Endrick Creek Tributary (west)	3	285.6	Open cut	MET	SMD	Watercourse Crossing, Desktop
Endrick Creek Tributary (east)	3	288.3	Open cut	MET	SMD	Watercourse Crossing, Desktop
Develin Creek	4	302.3	Open cut	FWT	HEV (WL)	Watercourse Crossing, Desktop
Fitzroy River	9	318.9	HDD	FMC (ab)	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Ten Mile Creek	3	331.5	Open cut	FCST	SMD	Watercourse Crossing, Desktop
Eight Mile Creek Tributary	2	335.4	Open cut	FCST	SMD	Watercourse Crossing, Desktop
Two Mile Creek	4	348.5	Open cut	FCST	HD	Watercourse Crossing, Desktop
Louisa Creek	-	356.9	Open cut	FCST		Watercourse Crossing, Desktop
Limestone Creek	5	370.1	Open cut	FCST	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Deep Creek	3	372.2	Open cut	FCST	SMD	Watercourse Crossing, Desktop
Black Gin Creek	3	NM2.1	Open cut	FCST	SMD	Watercourse Crossing, Desktop
Lion Creek	4	NM8.8	Open cut	FCST	SMD	Watercourse Crossing, Desktop
Gavial Creek	3	NM28	Open cut	FCST	SMD	Desktop. (Rev SR crossing point not surveyed)
Bob's Creek / Casuarina Creek	4	NM39	Open cut	FCST	SMD	Desktop. (Rev SR crossing point not surveyed)
Oakey Creek	4	418.6	Open cut	FCST	SMD	
Inkerman Creek	5	428.9	HDD	RCTE	SMD	Desktop (Rev SR crossing point not

Watercourse Assessed	Stream Order	Approximate KP	Crossing Method*	EPP Area	Level of protection	Surveys Conducted
						surveyed)
Twelve Mile Creek	4	437.5	HDD	RCTE	SMD	Desktop. (Rev SR crossing point not surveyed)
Horrigan Creek	4	444.3	Open cut	RCTE	SMD	Watercourse Crossing, Desktop
Raglan Creek	6	445.4	HDD	RCTE	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Larcom Creek	3	474.9	Open cut	RCT	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop
Elphinstone Lateral						
Walker Creek	3	EL8.3	Open cut	CCT	SMD	Watercourse Crossing, Desktop
Walker Creek	3	EL11.8	Open cut	CCT	SMD (WL)	Watercourse Crossing, Desktop
Carborough Creek	4	EL28.3	Open cut	CCT	SMD (WL)	Watercourse Crossing, Desktop
Spring Creek	2	EL34.6	Open cut	CCT	SMD	Desktop (Rev SR crossing point not surveyed)
Thirty Mile Creek	2	EL36.9	Open cut	CCT	SMD	Watercourse Crossing, Desktop
Saraji Lateral						
Ripstone Creek	3	SL6.5	Open cut	INT	SMD	Watercourse Crossing, Desktop
Unnamed Wetland, near Ripstone Creek	N/ A	SL7.9	N/ A	INT	SMD	Watercourse Crossing, Desktop
Unnamed Wetland, near Ripstone Creek	N/ A	SL10.8	N/ A	INT	SMD	Watercourse Crossing, Desktop
Isaac River	6	SL19.3	Open cut	LI	SMD	Aquatic Ecology, Watercourse Crossing Inspection, Desktop

Notes: *Crossing method subject to geotechnical verification.

Source: Ecosure 2012b - watercourse crossings assessed contain one or more of the following criteria: stream order of 4 or above, remnant vegetation mapped by Queensland Herbarium, significant band of riparian vegetation visible in satellite imagery, open water visible in satellite imagery.