



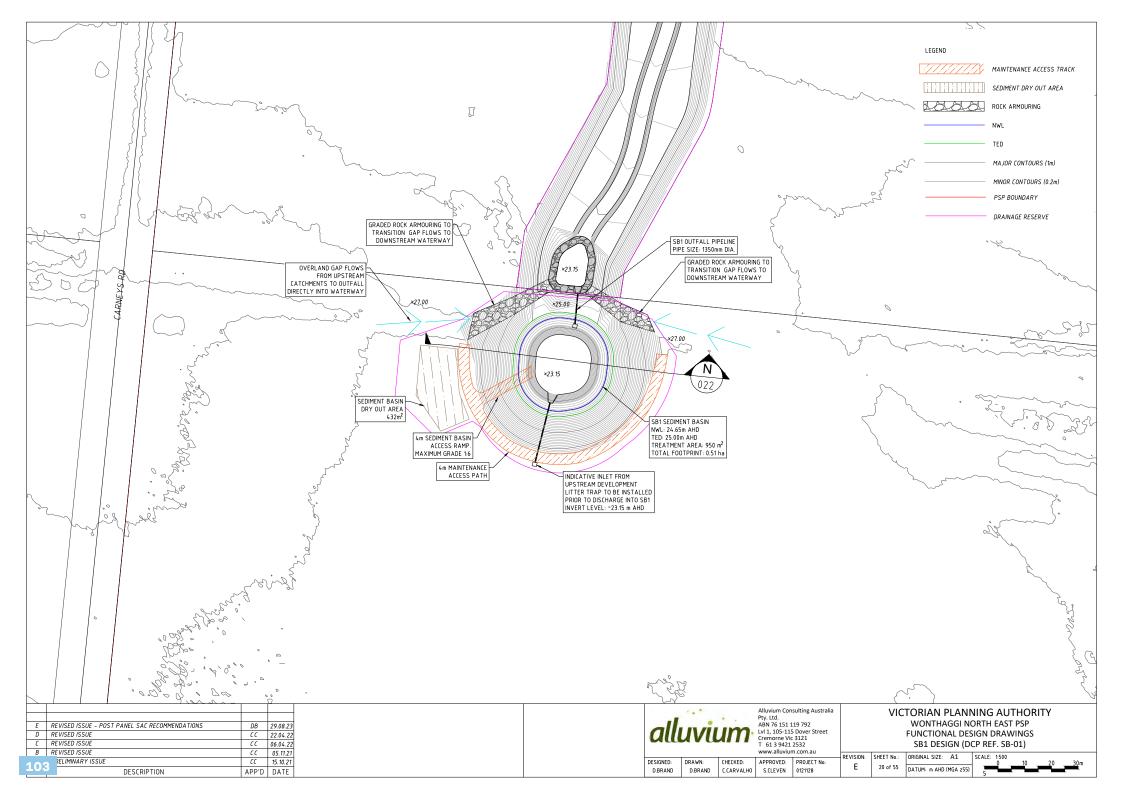
Wetland/Retarding Basin 4 (WLRB4) DCP – WL-04 (22/23 cost base)

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS					3.11.3
			14	* 00.000	\$00.000	
1.1	Site preparation	1	Item	\$20,000	\$20,000	
1.2	Diversion works	1	Item	\$40,000	\$40,000	
1.3	Geotechnical Investigation	1	Item	\$50,000	\$50,000	
1.4	Cultural Heritage Assessment	1	Item	\$50,000	\$50,000	
1.5	Flora and fauna study	1	Item	\$30,000	\$30,000	
	· · · · · · · · · · · · · · · · · · ·	1				
1.6	Safety assessment		Item	\$20,000	\$20,000	NAME OF THE PROPERTY OF THE PR
1.7	Stripping of topsoil	3,408	m3	\$1.30	\$4,430	MW reimbursement rates for south east re (stripping)
2	EARTHWORKS					MW reimbursement rates for south east re (earthworks rates)
by 2.1	Bulk excavation	31,007	m3	\$25	\$775,175	Excavation in broad greenfield land, exca material to be reused on site for filling, allowance of 95% reuse on site for filling
3	DRAINAGE					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form WL4 Wetland inlet	88	m3	\$197	\$17,336	MW reimbursement rates for south east r (rockwork rate)
3.1.2	Supply and install D50=400mm rock, 800 mm thick to form WL4 Wetland overflow spillway	136	m3	\$197	\$26,792	MW reimbursement rates for south east re (rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 grade concrete weir to form WL4 Wetland spillway weir	1	Item	\$10,000	\$10,000	
3.2.2	Supply and install reinforced N32 grade concrete, 150 mm deep to form WL4 sedimentation basin base	275	m3	\$322	\$88,550	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install600 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (WL4 wetland)	40	m	\$337	\$13,480	MW reimbursement rates for south east r (600mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake pit	3	No.	\$6,710	\$20,130	
3.3.3	Supply and install 300 mm dia RRJ 20% backfill balance pipes (WL4 wetland)	97	m	\$219	\$21,243	MW reimbursement rates for south east r (300mm RRJ 20% FCR backfill)
3.3.4	Supply and install submerged offtake pits for balance pipes	2	No.	\$6,710	\$13,420	
3.3.5	Supply and install 675 mm dia RRJ wetland outfall pipe incl excavation, 20% crushed rock back fill	22	m	\$387	\$8,514	MW reimbursement rates for south east r (675mm RRJ 20% FCR backfill)
3.3.6	Supply and install twin chamber outfall pit with penstock and concrete weir	1	No.	\$15,000	\$15,000	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access rampWL4 wetland	88	m2	\$61.90	\$5,447	MW reimbursement rates for south east r (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around WL4 wetland	433	m2	\$33.10	\$14,332	MW reimbursement rates for south east r (crushed rock access track)
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	3,238	m2	\$3.30	\$10,684	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse reimbursement rates for south east regio (Topsoiling (80% from stockpile and 20% imported))
4.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	7,433	m2	\$8.00	\$59,464	MW reimbursement rates for south east r (clay lining)
4.3	Supply and install submerged marsh planting.	271	m2	\$14.50	\$3,930	MW reimbursement rates for south east re (Aquatic revegetation)
4.4	Supply and install deep marsh planting (60cm3 tube, 2/m2).	1,668	m2	\$14.50	\$24,186	MW reimbursement rates for south east re (Aquatic revegetation)
4.5	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	3,525	m2	\$14.50	\$51,113	MW reimbursement rates for south east re (Aquatic revegetation)
4.6	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	689	m2	\$14.50	\$9,991	MW reimbursement rates for south east re (Aquatic revegetation)
4.7	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	4,978	m2	\$16.80	\$83,630	MW reimbursement rates for south east re (terrestrial revegetation)
	Supply and install sediment drying area					MW reimbursement rates for south east r





	ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
	4.9	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	5,882	m2	\$7	\$41,174	MW reimbursement rates for south east region (weed control matting)
	4.10	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	2	No.	\$20,000	\$40,000	
	5	MISCELLANEOUS					
_	5.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
Amended by	5.2	Allowance for seats	1	Item	\$35,000	\$35,000	
C172basc		SUB-TOTAL WORKS				\$1,614,824	
	6	DELIVERY					
	6.1	Council fees	3.25	%		\$52,482	
_	6.2	VicRoads fees	0	%		\$-	
	6.3	Traffic management	2	%		\$32,296	
_	6.4	Environmental management	1	Item	\$50,000	\$50,000	
	6.5	Erosion control management	0.5	%		\$8,074	
	6.6	Survey & design	5	%		\$80,741	
	6.7	Supervision & project management	4	%		\$64,593	
	6.8	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$40,371	
_	6.9	Contingency	35	%		\$565,188	
		SUB-TOTAL DELIVERY				\$893,746	
	7	TOTAL ESTIMATED COST				\$2,508,570	







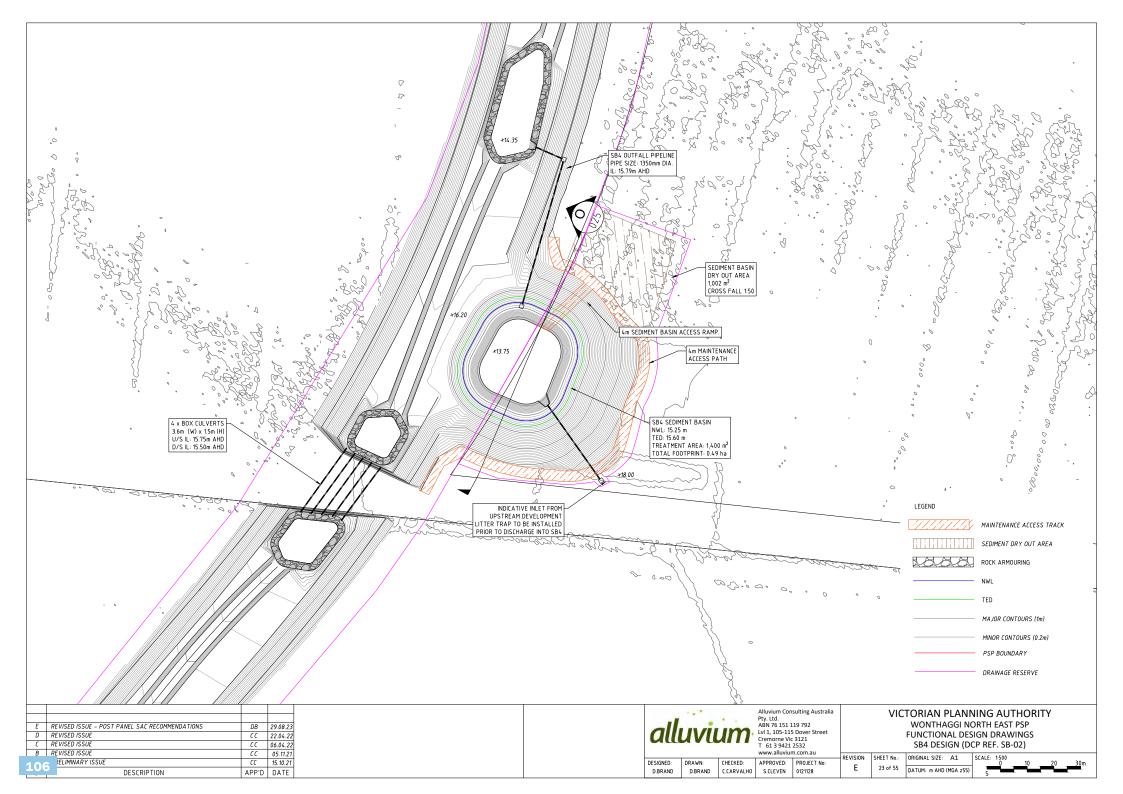
Sedimentation basin 1 (SB1) DCP - SB-01 (22/23 cost base)

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS & EARTHWORKS				7	
1.1	Site preparation	1	Item	\$20,000	\$20,000	
1.2	Diversion works	1	Item	\$40,000	\$40,000	
1.3	Geotechnical investigation	1	Item	\$50,000	\$50,000	
1.4	Cultural Heritage Assessment	1		\$50,000	\$50,000	
		1	Item		\$30,000	
1.5	Flora and fauna study	1	Item	\$30,000		
1.6	Safety assessment Stripping of topsoil		Item	\$20,000	\$20,000 \$1,361	MW reimbursement rates for south east reg
1.7	stripping of topsoli	1,047	m3	\$1.30	\$1,5 0 1	(stripping) MW reimbursement rates for south east reg
2	EARTHWORKS					(earthworks rates)
ed by asc 2.1	Bulk excavation	6,466	m3	\$25	\$ 161,650	Excavation in broad greenfield land, excavamaterial to be reused on site for filling, allowance of 95% reuse on site for filling
3	DRAINAGE					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form SB1 inlet	22	m3	\$197	\$4,334	MW reimbursement rates for south east reg (rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 grade concrete, 150 mm deep to form SB1 sedimentation basin base	58	Item	\$322	\$18,676	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install600 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (SB1)	30	m	\$337	\$10,110	MW reimbursement rates for south east reg (600mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake pit	1	No.	\$6,710	\$6,710	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp SB1	91	m2	\$61.90	\$5,633	MW reimbursement rates for south east reg (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around SB1	497	m2	\$33.10	\$16,451	MW reimbursement rates for south east reg (crushed rock access track)
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	995	m2	\$3.30	\$3,282	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse M reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	1,198	m2	\$8.00	\$9,584	MW reimbursement rates for south east reg (clay lining)
4.3	Supply and install submerged marsh planting.	93	m2	\$14.50	\$1,349	MW reimbursement rates for south east reg (Aquatic revegetation)
4.4	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	285	m2	\$14.50	\$4,133	MW reimbursement rates for south east reg (Aquatic revegetation)
4.5	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	246	m2	\$14.50	\$3,567	MW reimbursement rates for south east reg (Aquatic revegetation)
4.6	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	2,047	m2	\$16.80	\$34,390	MW reimbursement rates for south east reg (terrestrial revegetation)
4.7	Supply and install sediment drying area planting (virocell planting, 6/m2).	660	m2	\$16.80	\$11,088	MW reimbursement rates for south east reg (terrestrial revegetation)
4.8	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	531	m2	\$7	\$3,717	MW reimbursement rates for south east reg (weed control matting)
4.9	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	1	No.	\$20,000	\$20,000	
5	MISCELLANEOUS					
5.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
	Allowance for seats	1	Item	\$35,000	\$35,000	
5.2					4	
5.2 ed by basc	SUB-TOTAL WORKS				\$564,034	
ed by	SUB-TOTAL WORKS DELIVERY				\$564,034	





ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
6.2	VicRoads fees	0	%		\$-	
6.3	Traffic management	2	%		\$11,281	
6.4	Environmental management	1	Item	\$50,000	\$50,000	
6.5	Erosion control management	0.5	%		\$2,820	
6.6	Survey & design	5	%		\$28,202	
6.7	Supervision & project management	4	%		\$22,561	
6.8	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$14,101	
6.9	Contingency	35	%		\$197,412	
	SUB-TOTAL DELIVERY				\$344,708	
7	TOTAL ESTIMATED COST				\$908,741	







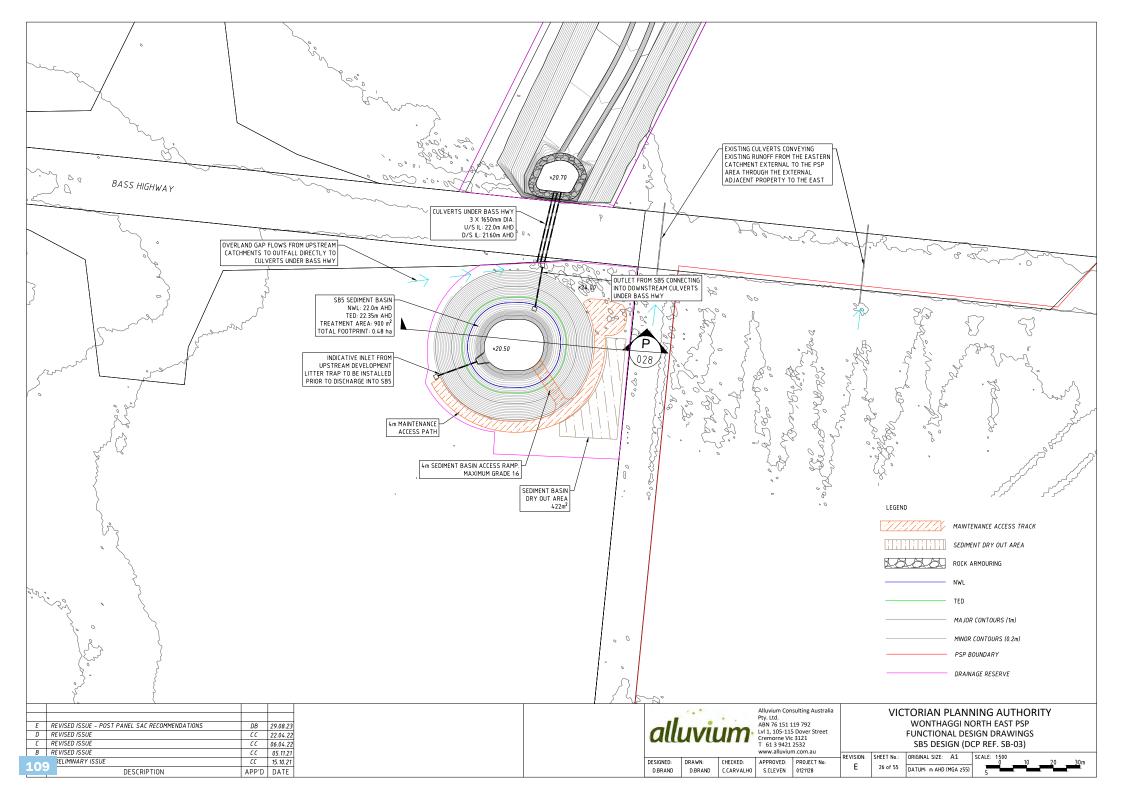
Sedimentation basin 4 (SB4) DCP - SB-02 (22/23 cost base)

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS & EARTHWORKS					
1.1	Site preparation	1	Item	\$20,000	\$20,000	
1.2	Diversion works	1	Item	\$40,000	\$40,000	
1.3	Geotechnical investigation	1	Item	\$50,000	\$50,000	
1.4	Cultural Heritage Assessment	1	Item	\$50,000	\$50,000	
1.5	Flora and fauna study	1	Item	\$30,000	\$30,000	
1.6	Safety assessment	1	Item	\$20,000	\$20,000	MW reimbursement rates for south east reg
1.7	Stripping of topsoil	977	m3	\$1.30	\$1,270	(stripping)
2	EARTHWORKS					MW reimbursement rates for south east reg (earthworks rates)
2.1	Bulk excavation	8,138	m3	\$25	\$203,450	Excavation in broad greenfield land, excavamaterial to be reused on site for filling, allowance of 95% reuse on site for filling
3	DRAINAGE					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form SB4 inlet	32	m3	\$197	\$6,304	MW reimbursement rates for south east reg (rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 grade concrete, 150 mm deep to form SB4 sedimentation basin base	106	Item	\$322	\$34,132	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install 1350 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (SB4)	120	m	\$1,005	\$120,600	MW reimbursement rates for south east reg (1350mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake pit	1	No.	\$6,710	\$6,710	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp SB4	91	m2	\$61.90	\$5,633	MW reimbursement rates for south east reg (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around SB4	729	m2	\$33.10	\$24,130	MW reimbursement rates for south east reg (crushed rock access track)
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	928	m2	\$3.30	\$3,063	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MY reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	1,742	m2	\$8.00	\$13,936	MW reimbursement rates for south east reg (clay lining)
4.3	Supply and install submerged marsh planting.	120	m2	\$14.50	\$1,740	MW reimbursement rates for south east reg (Aquatic revegetation)
4.4	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	355	m2	\$14.50	\$5,148	MW reimbursement rates for south east reg (Aquatic revegetation)
4.5	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	313	m2	\$14.50	\$4,539	MW reimbursement rates for south east reg (Aquatic revegetation)
4.6	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	2,414	m2	\$16.80	\$40,555	MW reimbursement rates for south east reg (terrestrial revegetation)
4.7	Supply and install sediment drying area planting (virocell planting, 6/m2).	974	m2	\$16.80	\$16,363	MW reimbursement rates for south east reg (terrestrial revegetation)
4.8	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	668	m2	\$7	\$4,676	MW reimbursement rates for south east reg (weed control matting)
4.9	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	1	No.	\$20,000	\$20,000	
5	MISCELLANEOUS					
	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
5.1	Allowance for seats	1	Item	\$35,000	\$35,000	
5.2	Allowance for seats	_				
		_			\$760.248	
5.2	SUB-TOTAL WORKS DELIVERY	_			\$760,248	





	ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
	6.2	VicRoads fees	0	%		\$-	
	6.3	Traffic management	2	%		\$15,205	
	6.4	Environmental management	1	Item	\$50,000	\$50,000	
	6.5	Erosion control management	0.5	%		\$3,801	
	6.6	Survey & design	5	%		\$38,012	
	6.7	Supervision & project management	4	%		\$30,410	
Inserted by C172basc	60	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$19,006	
	6.9	Contingency	35	%		\$266,087	
		SUB-TOTAL DELIVERY				\$447,230	
	7	TOTAL ESTIMATED COST				\$1,207,478	







Sedimentation basin 5 (SB5) DCP - SB-03 (22/23 cost base)

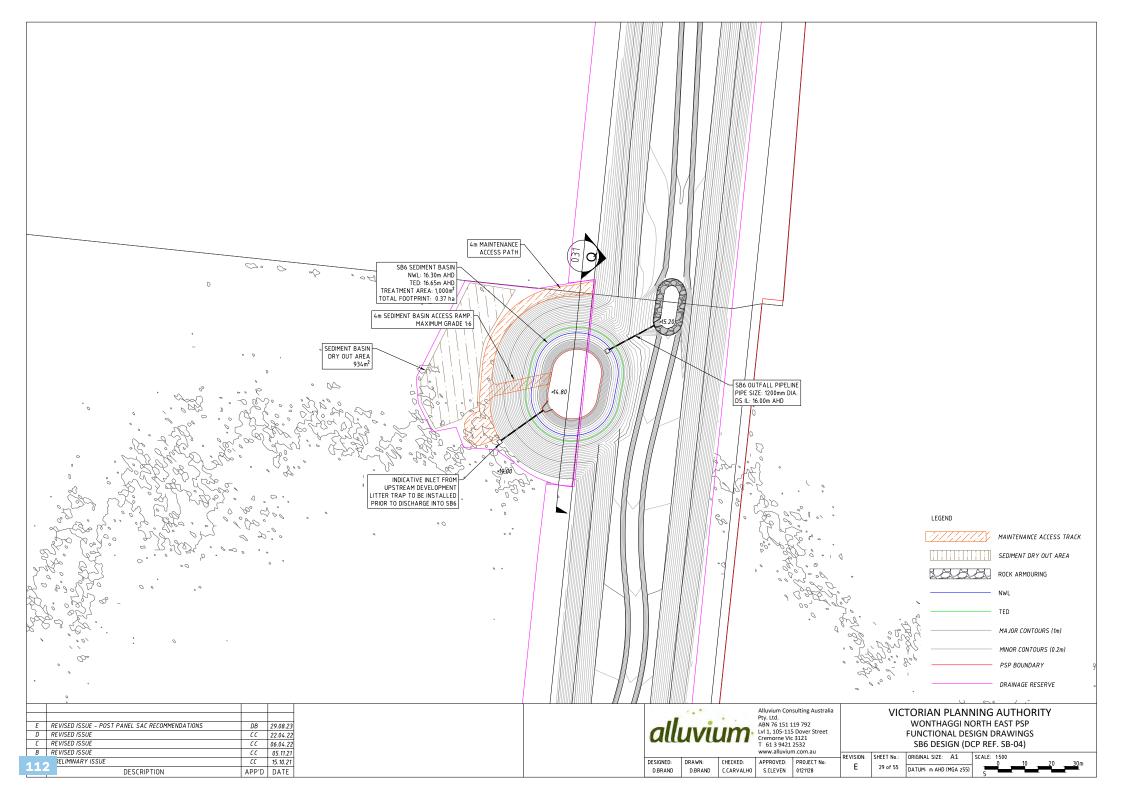
1.1 1.2 1.3 1.4 1.5 1.6 1.7	SITE WORKS & EARTHWORKS Site preparation Diversion works Geotechnical investigation Cultural Heritage Assessment Flora and fauna study Safety assessment Stripping of topsoil	1 1 1 1 1	Item Item Item	\$20,000 \$40,000	\$20,000	COMMENTS
1.1 1.2 1.3 1.4 1.5 1.6 1.7	Site preparation Diversion works Geotechnical investigation Cultural Heritage Assessment Flora and fauna study Safety assessment	1 1 1	Item			
1.2 1.3 1.4 1.5 1.6 1.7	Diversion works Geotechnical investigation Cultural Heritage Assessment Flora and fauna study Safety assessment	1 1 1	Item			
1.3 1.4 1.5 1.6 1.7	Geotechnical investigation Cultural Heritage Assessment Flora and fauna study Safety assessment	1 1			\$2000	
1.4 1.5 1.6 1.7	Cultural Heritage Assessment Flora and fauna study Safety assessment	1	16-2111	\$50,000	\$40,000 \$50,000	
1.5 1.6 1.7 2	Flora and fauna study Safety assessment		Item	\$50,000	\$50,000	
1.6 1.7 2 by	Safety assessment		Item	\$30,000	\$30,000	
1.7 2 by		1				
2			Item	\$20,000	\$20,000	MW reimbursement rates for south east reg
d by	stripping of topsoil	976	m3	\$1.30	\$1,269	(stripping)
	EARTHWORKS					MW reimbursement rates for south east reg (earthworks rates)
	Bulk excavation	5,814	m3	\$25	\$145,350	Excavation in broad greenfield land, excava material to be reused on site for filling, allowance of 95% reuse on site for filling
3	DRAINAGE					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock,	17	m3	\$197	\$3,349	MW reimbursement rates for south east reg
	800 mm thick to form SB5 inlet	1/	1113	φ13/	φο,ο49	(rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 grade concrete, 150 mm deep to form SB5 sedimentation basin base	53	m3	\$322	\$17,066	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install 1350 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (SB5)	20	m	\$1,005	\$20,100	MW reimbursement rates for south east rec (1350mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake pit	1	No.	\$6,710	\$6,710	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp SB5	91	m2	\$61.90	\$5,633	MW reimbursement rates for south east re- (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around SB5	515	m2	\$33.10	\$17,047	MW reimbursement rates for south east re- (crushed rock access track)
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	927	m2	\$3.30	\$3,060	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse M reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	1,138	m2	\$8.00	\$9,104	MW reimbursement rates for south east re- (clay lining)
4.3	Supply and install submerged marsh planting.	90	m2	\$14.50	\$1,305	MW reimbursement rates for south east re- (Aquatic revegetation)
4.4	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	274	m2	\$14.50	\$3,973	MW reimbursement rates for south east re- (Aquatic revegetation)
4.5	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	239	m2	\$14.50	\$3,466	MW reimbursement rates for south east re (Aquatic revegetation)
4.6	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	1,604	m2	\$16.80	\$26,947	MW reimbursement rates for south east re- (terrestrial revegetation)
4.7	Supply and install sediment drying area planting (virocell planting, 6/m2).	771	m2	\$16.80	\$12,953	MW reimbursement rates for south east reg (terrestrial revegetation)
4.8	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	513	m2	\$7	\$3,591	MW reimbursement rates for south east re- (weed control matting)
4.9	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	1	No.	\$20,000	\$20,000	
5	MISCELLANEOUS					
5.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
5.2	Allowance for seats	1	Item	\$35,000	\$35,000	
by	SUB-TOTAL WORKS				\$548,921	
6	DELIVERY				,	
6.1	Council fees	3.25	%		\$17,840	





Amended by C172basc

u by							
asc	ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
	6.2	VicRoads fees	0	%		\$-	
	6.3	Traffic management	2	%		\$10,978	
	6.4	Environmental management	1	Item	\$50,000	\$50,000	
	6.5	Erosion control management	0.5	%		\$2,745	
	6.6	Survey & design	5	%		\$27,446	
	6.7	Supervision & project management	4	%		\$21,957	
	6.8	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$13,723	
	6.9	Contingency	35	%		\$192,123	
		SUB-TOTAL DELIVERY				\$336,811	
	7	TOTAL ESTIMATED COST				¢005 722	







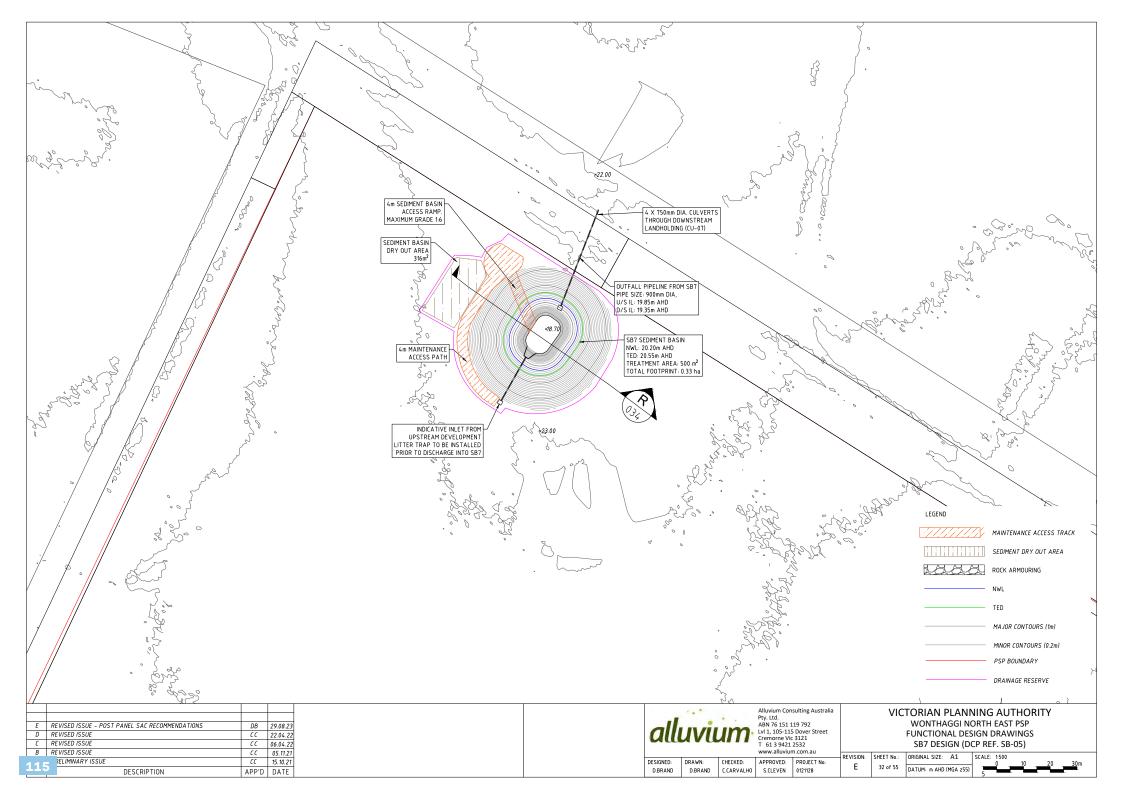
Sedimentation basin 6 (SB6) DCP - SB-04 (22/23 cost base)

	ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	L	SITE WORKS & EARTHWORKS					
1	L.1	Site preparation	1	Item	\$20,000	\$20,000	
1	L.2	Diversion works	1	Item	\$40,000	\$40,000	
1	L.3	Geotechnical investigation	1	Item	\$50,000	\$50,000	
1	L.4	Cultural Heritage Assessment	1	Item	\$50,000	\$50,000	
1	L.5	Flora and fauna study	1	Item	\$30,000	\$30,000	
1	L.6	Safety assessment	1	Item	\$20,000	\$20,000	
1	L.7	Stripping of topsoil	597	m3	\$1.30	\$776	MW reimbursement rates for south east region (stripping)
2	2	EARTHWORKS					MW reimbursement rates for south east region (earthworks rates)
ed b asc 2		Bulk excavation	2,720	m3	\$25	\$68,000	Excavation in broad greenfield land, excavar material to be reused on site for filling, allowance of 95% reuse on site for filling
3	3	DRAINAGE					
3	3.1	Rockwork					
3	3.1.1	Supply and install D50=400mm rock, 800 mm thick to form SB6 inlet	29	m3	\$197	\$5,713	MW reimbursement rates for south east regi
- 5	3.2	Concrete					(TOOKWOTK TUCE)
	3.2.1	Supply and install reinforced N32 grade concrete, 150 mm deep to form SB6 sedimentation basin base	63	m3	\$322	\$20,286	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3	3.3	Drainage					
3	3.3.1	Supply and install 1200 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fill (SB6)	9	m	\$844	\$7,596	MW reimbursement rates for south east regi (1200mm RRJ 20% FCR backfill)
3	3.3.2	Supply and install submerged offtake pit	1	No.	\$6,710	\$6,710	
3	3.4	Access path					
	3.4.1	Supply and install N32 grade concrete to form 4m wide sediment pond maintenance access ramp SB6	91	m2	\$61.90	\$5,633	MW reimbursement rates for south east regi (concrete access track)
3	3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around SB6	411	m2	\$33.10	\$13,604	MW reimbursement rates for south east reg (crushed rock access track)
4	1	LANDSCAPING					
2	4.1	Re spread 200 mm topsoil for planting areas	567	m2	\$3.30	\$1,872	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MV reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4	1.2	Placement of 300 mm compacted clay liners for sedimentation basin and wetland (clay sourced onsite)	1,257	m2	\$8.00	\$10,056	MW reimbursement rates for south east regi (clay lining)
4	4.3	Supply and install submerged marsh planting.	97	m2	\$14.50	\$1,407	MW reimbursement rates for south east regi (Aquatic revegetation)
4	1.4	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	293	m2	\$14.50	\$4,249	MW reimbursement rates for south east regi (Aquatic revegetation)
_	1.5	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	252	m2	\$14.50	\$3,654	MW reimbursement rates for south east regi (Aquatic revegetation)
4	1.6	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	1,280	m2	\$16.80	\$21,504	MW reimbursement rates for south east regi (terrestrial revegetation)
_	1.7	Supply and install sediment drying area planting (virocell planting, 6/m2).	736	m2	\$16.80	\$12,365	MW reimbursement rates for south east regi (terrestrial revegetation)
2	1.8	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specified for all Wet Ephemeral Planting	545	m2	\$7.00	\$3,815	MW reimbursement rates for south east regi (weed control matting)
	1.9	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	1	No.	\$20,000	\$20,000	
	5	MISCELLANEOUS					
	5.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
ed b	5.2 Y	Allowance for seats	1	Item	\$35,000	\$35,000	
	,	SUB-TOTAL WORKS				\$445,238	
sc							
sc	3	DELIVERY					





ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
6.2	VicRoads fees	0	%		\$-	
6.3	Traffic management	2	%		\$9,105	
6.4	Environmental management	1	Item	\$50,000	\$50,000	
6.5	Erosion control management	0.5	%		\$2,276	
6.6	Survey & design	5	%		\$22,762	
6.7	Supervision & project management	4	%		\$18,210	
6.8	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$11,381	
6.9	Contingency	35	%		\$159,333	
	SUB-TOTAL DELIVERY				\$287,862	
7	TOTAL ESTIMATED COST				\$743,101	







Sedimentation basin 7 (SB7) DCP - SB-05 (22/23 cost base)

ITE	M DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
1	SITE WORKS & EARTHWORKS					
1.1	Site preparation	1	Item	\$20,000	\$20,000	
1.2	Diversion works	1	Item	\$40,000	\$40,000	
1.3	Geotechnical investigation	1	Item	\$50,000	\$50,000	
1.4	Cultural Heritage Assessment	1	Item	\$50,000	\$50,000	
1.5	Flora and fauna study	1	Item	\$30,000	\$30,000	
1.6	Safety assessment	1	Item	\$20,000	\$20,000	MW reimbursement rates for south east reg
1.7	Stripping of topsoil	652	m3	\$1.30	\$848	(stripping) MW reimbursement rates for south east reg
2 d by	EARTHWORKS					(earthworks rates)
sc 2.1	Bulk excavation	3,178	m3	\$25	\$79,450	Excavation in broad greenfield land, excavamaterial to be reused on site for filling, allowance of 95% reuse on site for filling
3	DRAINAGE					
3.1	Rockwork					
3.1.1	Supply and install D50=400mm rock, 800 mm thick to form SB7 inlet	28	m3	\$197	\$5,516	MW reimbursement rates for south east reg (rockwork rate)
3.2	Concrete					
3.2.1	Supply and install reinforced N32 gra concrete, 150 mm deep to form SB7 sedimentation basin base	de 19	m3	\$322	\$6,118	Reinforced concrete slab 150mm thick (Rawlinsons publication)
3.3	Drainage					
3.3.1	Supply and install 900 mm dia RRJ sediment pond transfer pipe incl excavation, 20% crushed rock back fil (SB7)	110	m	\$561	\$61,710	MW reimbursement rates for south east reg (900mm RRJ 20% FCR backfill)
3.3.2	Supply and install submerged offtake	1	No.	\$6,710	\$6,710	
3.4	Access path					
3.4.1	Supply and install N32 grade concrete	e 86	m2	\$61.90	\$5,323	MW reimbursement rates for south east reg (concrete access track)
3.4.2	Supply and install D50=200mm with Class 2 FCR backfill to form 4m wide maintenance access around SB7	358	m2	\$33.10	\$11,850	MW reimbursement rates for south east reg (crushed rock access track)
4	LANDSCAPING					
4.1	Re spread 200 mm topsoil for planting areas	9 619	m2	\$3.30	\$2,044	Allowance of 95% of topsoil stripped from site, 5% assumed as unsuitable for reuse MY reimbursement rates for south east region (Topsoiling (80% from stockpile and 20% imported))
4.2	Placement of 300 mm compacted cla liners for sedimentation basin and wetland (clay sourced onsite)	y 701	m2	\$8.00	\$5,608	MW reimbursement rates for south east reg (clay lining)
4.3	Supply and install submerged marsh planting.	66	m2	\$14.50	\$957	MW reimbursement rates for south east reg (Aquatic revegetation)
4.4	Supply and install shallow marsh planting (60cm3 tube, 2/m2).	202	m2	\$14.50	\$2,929	MW reimbursement rates for south east reg (Aquatic revegetation)
4.5	Supply and install wet ephemeral planting (90cm3 tube, 6/m2).	193	m2	\$14.50	\$2,799	MW reimbursement rates for south east reg (Aquatic revegetation)
4.6	Supply and install dry ephemeral planting (90cm3 tube, 6/m2).	1,523	m2	\$16.80	\$25,586	MW reimbursement rates for south east reg (terrestrial revegetation)
4.7	Supply and install sediment drying are planting (virocell planting, 6/m2).	ea 314	m2	\$16.80	\$5,275	MW reimbursement rates for south east reg (terrestrial revegetation)
4.8	Supply and install heavy jute mat (800gsm) pre-slit at density 6/m2 to TED to 350mm below NWL as specifie for all Wet Ephemeral Planting	d 395	m2	\$7	\$2,765	MW reimbursement rates for south east reg (weed control matting)
4.9	Supply, install and maintain plant protection netting for a selected species in the aquatic zones.	1	No.	\$20,000	\$20,000	
5	MISCELLANEOUS					
5.1	Allowance for timber bollards	1	Item	\$3,000	\$3,000	
F 0	Allowance for seats	1	Item	\$35,000	\$35,000	
5.2						
by	SUB-TOTAL WORKS				\$493,488	
by 5.2	SUB-TOTAL WORKS DELIVERY				\$493,488	





Amended by C172basc

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	COMMENTS
6.2	VicRoads fees	0	%		\$-	
6.3	Traffic management	2	%		\$9,870	
6.4	Environmental management	1	Item	\$50,000	\$50,000	
6.5	Erosion control management	0.5	%		\$2,467	
6.6	Survey & design	5	%		\$24,674	
6.7	Supervision & project management	4	%		\$19,740	
6.8	Site establishment Note: Includes 24 months landscaping maintenance costs.	2.5	%		\$12,337	
6.9	Contingency	35	%		\$172,721	
	SUB-TOTAL DELIVERY				\$307,847	
7	TOTAL ESTIMATED COST				\$801,335	





Culverts (As designed and costed by Alluvium)

Culvert ID	Culvert size	No. of cells	Length (m)	Cost rate (\$/m)	Culvert cost (\$)	Base slab rate (\$/m)	Base slab cost (\$)	Link slab rate (\$/m)	Link slab cost (\$)	Headwall & endwall volume (m3)	Headwall & endwall cost rate (\$/m3)	Headwall & endwall cost (\$)	Traffic management cost (\$)	Total cost (\$)	Total cost (plus contingency) (\$)
CU-01	1500	4	30	\$1,583	\$189,960	\$-	\$-	\$-	\$-	19.84	\$3,037	\$60,254	\$11,680	\$261,894	\$353,557
CU-02	1650	3	30	\$1,840	\$165,600	\$-	\$-	\$-	\$-	25.80	\$3,037	\$78,355	\$11,680	\$255,635	\$345,107
CU-03	Costed by VPA	-	-	\$-	\$-	\$-	\$-	\$-	\$-	-	\$-	\$-	\$-	\$216,525	\$292,309
CU-04a	300×300	2	45	\$205	\$18,450	\$110	\$9,900	\$-	\$-	1.44	\$3,037	\$4,373	\$11,680	\$44,403	\$59,944
CU-04b	600×1200	1	50	\$837	\$41,850	\$250	\$12,500	\$-	\$-	2.74	\$3,037	\$8,321	\$11,680	\$74,351	\$100,374
CU-05	1650	1	45	\$1,840	\$82,800	\$-	\$-	\$-	\$-	8.60	\$3,037	\$26,118	\$11,680	\$120,598	\$162,808
CU-06	1200×600	3	45	\$837	\$112,995	\$618	\$83,430	\$618	\$27,810	8.22	\$3,037	\$24,964	\$11,680	\$260,879	\$352,187
CU-07	750	4	50	\$586	\$117,200	\$-	\$-	\$-	\$-	6.96	\$3,037	\$21,138	\$11,680	\$150,018	\$202,524
CU-08	Costed by Cardno	-	-	\$-	\$-	\$-	\$-	\$-	\$-	-	\$-	\$-	\$-	\$-	\$-
CU-09	Costed by Cardno	-	-	\$-	\$-	\$-	\$-	\$-	\$-	-	\$-	\$-	\$-	\$-	\$-
CU-10	Costed by Cardno	_	_	\$-	\$-	\$-	\$-	\$-	\$-	_	\$-	\$-	\$-	\$-	\$-
CU-11	1200×1200	3	50	\$1,063	\$106,300	\$618	\$92,700	\$618	\$30,900	9.18	\$3,037	\$27,880	\$11,680	\$269,460	\$363,771
TOTAL															\$3,112,749



CULVERTS (As designed by Engeny. Refer to table of Alluvium designs for costings)

**Note - I nput values only in the blue cells

SCHEME NAME: Wonthaggi East

SCHEME NO: 0

COUNCIL: Bass Coast Shire REGION: South East Region

FOR BOX CULVERT ONLY (USE OTHER TABLE BELOW FOR PIPE CULVERT)

CAUTION - Please be aware that VicRoads do not allow open cut in their roads - use Pipe Culverts instead of Box Culverts unless there are design constraints that necessitate the use of Box Culverts.

Location	Description	า	Qua	ntity	Unit	Unit Rate	Esti	mated Bas Cost
			Equiv. No.	Dimension				\$
deslop Road (41-42 ownstream of WL3) CU-10								
	Design ARI	100						
	Design Flow (m ³ /s)	3.03						
	Supply - Crown Units	1200 x 450	2	40	m	\$ 622	\$	49,7
	Supply - Base Slab		3	40	m	\$ 505	\$	60,6
	Supply - Link Slab		1	40	m	\$ 505	\$	20,2
	Installation (Laying)		3	40	m	\$ 1,632	\$	88,1
	Headwalls & Endwalls		6	1.31	m ³	\$ 2,676	\$	20,9
	Installation (Road, Rail factors)	Major Council Roads					\$	65,6
	Allowance for Service Alterations	No	Factor			1.00		
	Traffic management		item				\$	10,2
	Subtotal							\$315,5
			Sub	ototal (incl.	35% co	ntingency)		\$426,0
CU-05 (23-23A)								
	Design ARI	100						
	Design Flow (m ³ /s)							
	Supply - Crown Units	3600 X 1500	3	22	m	\$ 3,436	\$	226,7
	Supply - Base Slab		4	22	m	\$ 2,080	\$	183,0
	Supply - Link Slab		1	22	m	\$ 2,080	\$	45,7
	Installation (Laying)		4	22	m	\$ 7,596	\$	220,5
	Headwalls & Endwalls		8	12.06	m ³	\$ 2,676	\$	258,1
	Installation (Road, Rail factors)	Greenfields					\$	
	Allowance for Service Alterations	No	Factor			1.00		
	Traffic management		item				\$	
						Subtotal		\$934,3
	1		Sub	ototal (incl.	35% co	ntingency)	_	\$1,261,0
CU-06 (23B-23C)								
	Design ARI	100						
	Design Flow (m ³ /s)	100						
	Supply - Crown Units	3600 X 1500	3	27	m	\$ 3,436	\$	278,3
	Supply - Base Slab	2223 / 1000	4	27	m	\$ 2,080	\$	224,6
	Supply - Link Slab		1	27	m	\$ 2,080	\$	56,1
	Installation (Laying)		4	27	m	\$ 7,596	\$	270,7
	Headwalls & Endwalls		8	12.06	m ³	\$ 2,676	\$	258,1
	Installation (Road, Rail factors)	Greenfields	Ü	.2.00		- 2,070	\$	200,1
			Ft			4.00		
	Allowance for Service Alterations	NO.	Factor			1.00	- 8	
	Allowance for Service Alterations Traffic management	No	Factor item			1.00	\$	





CULVERTS

CU-07 (24)							
	Design ARI	100					
	Design Flow (m ³ /s)						
	Supply - Crown Units	3600 X 1500	3	32	m	\$ 3,436	\$ 329,856
	Supply - Base Slab		4	32	m	\$ 2,080	\$ 266,240
	Supply - Link Slab		1	32	m	\$ 2,080	\$ 66,560
	Installation (Laying)		4	32	m	\$ 7,596	\$ 320,855
	Headwalls & Endwalls		8	12.06	m ³	\$ 2,676	\$ 258,180
	Installation (Road, Rail factors)	Greenfields					\$ -
	Allowance for Service Alterations	No	Factor			1.00	\$ -
	Traffic management		item				\$ -
						Subtotal	\$1,241,692
			Sub	total (incl.	35% cor	ntingency)	\$1,676,000
Korumburra- Wonthaggi Road (23B-23C) CU-08							
	Design ARI	100					
	Design Flow (m ³ /s)						
	Supply - Crown Units	1200 X 900	3	16	m	\$ 777	\$ 37,296
	Supply - Base Slab		4	16	m	\$ 505	\$ 32,320
	Supply - Link Slab		1	16	m	\$ 505	\$ 8,080
	Installation (Laying)		4	16	m	\$ 1,787	\$ 37,741
	Headwalls & Endwalls		8	1.45	m ³	\$ 2,676	\$ 31,042
	Installation (Road, Rail factors)	VicRoads Roads - Box Culvert					\$ 427,119
	Allowance for Service Alterations	No	Factor			1.00	\$ -
	Traffic management		item				\$ 51,470
	<u> </u>	·	-			Subtotal	\$625,068
						ntingency)	

FOR PIPE CULVERT ONLY

CAUTION - Please be aware that different rates and factors apply depending on the type of crossing. Note also there are different types of road crossings - minor Council roads / major Council roads / VicRoads roads.

Existing Rail							
Embankment							
(Location 16-17) CU-							
01							
	Design ARI	100					
	Design Flow (m ³ /s)	9.1					
	Pipe diameter (mm)	1350					
	Installation (Laying)	RRJ-100% FCR	3	20	m	\$ 1,463	\$87,780.00
	Headwalls & Endwalls		6	2.18	m ³	\$ 2,676	\$35,002.08
	Installation (Road, Rail factors)	Major Council Roads					\$26,334.00
	Allowance for Service Alterations		Factor			1.00	\$0.00
	Traffic management		item				\$10,290.00
	Minor regrading of channel d/s of culverts					item	
			·			Subtotal	\$159,406

Subtotal (incl.35% contingency)

\$215,000



CULVERTS

Bass Coast Highway (Location 18-19) CU- 02							
	Design ARI	100					
	Design Flow (m ³ /s)	13.9					
	Pipe diameter (mm)	1500					
	Installation (Laying)	RRJ-100% FCR	4	32	m	\$ 1,779	\$227,712.00
	Headwalls & Endwalls		8	2.48	m ³	\$ 2,676	\$53,091.84
	Installation (Road, Rail factors)	VicRoads Roads - Pipe					\$842,534.40
	Allowance for Service Alterations	No	Factor			1.00	\$0.00
	Traffic management		item				\$0.00
	Minor regrading of channel d/s of culverts					item	
						Subtotal	\$1,123,338

Subtotal (incl.35% contingency) \$1,517,000

McGibbonys Rd (Location 21-22) CU-							
04							
	Design ARI	100					
	Design Flow (m ³ /s)	18.32					
	Pipe diameter (mm)	1650					
	Installation (Laying)	RRJ-100% FCR	4	48	m	\$ 2,127	\$408,384.00
	Headwalls & Endwalls		8	4.3	m ³	\$ 2,676	\$92,054.40
	Installation (Road, Rail factors)	Major Council Roads					\$122,515.20
	Allowance for Service Alterations	Yes	Factor			1.25	\$102,096.00
	Traffic management		item				\$10,290.00
	Minor regrading of channel d/s of culverts					item	
	<u> </u>	_			•	Subtotal	\$735,340

Subtotal (incl. 35% contingency) \$993,000

Bass Coast Highway (2-3) CU-03							
	Design ARI	100					
	Design Flow (m ³ /s)	13.3					
	Pipe diameter (mm)	1500					
	Installation (Laying)	RRJ-100% FCR	3	20	m	\$ 1,779	\$106,740.00
	Headwalls & Endwalls		6	2.48	m ³	\$ 2,676	\$39,818.88
	Installation (Road, Rail factors)	VicRoads Roads - Pipe					\$394,938.00
	Allowance for Service Alterations	No	Factor			1.00	\$0.00
	Traffic management		item				\$0.00
	Minor regrading of channel d/s of culverts					item	
		•	-			Subtotal	\$541.497

Subtotal (incl.35% contingency) \$731,00





CULVERTS

Heslops Road (Location 49-50 downstream of WL4)							
	Design ARI	>5yr					
	Design Flow (m ³ /s)	2.0					
	Pipe diameter (mm)	1050					
	Installation (Laying)	RRJ-100% FCR	1	65	m	\$ 955	\$62,075.00
	Headwalls & Endwalls		2	1.52	m ³	\$ 2,676	\$8,135.04
	Installation (Road, Rail factors)	Major Council Roads					\$18,622.50
	Allowance for Service Alterations	Yes	Factor			1.25	\$15,518.75
	Traffic management		item				\$10,290.00
	Minor regrading of channel d/s of culverts					item	
			Sub	total (incl.	35% cor	Subtotal ntingency)	\$114,641 \$155,000

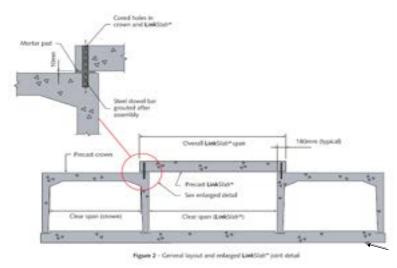
Heslops Road (Location 45-46) downstream of SB12							
	Design ARI	100					
	Design Flow (m ³ /s)	3.14					
	Pipe diameter (mm)	750					
	Installation (Laying)	RRJ-100% FCR	4	20	m	\$ 528	\$42,240.00
	Headwalls & Endwalls		8	0.87	m ³	\$ 2,676	\$18,624.96
	Installation (Road, Rail factors)	Major Council Roads					\$12,672.00
	Allowance for Service Alterations	Yes	Factor			1.25	\$10,560.00
	Traffic management		item				\$10,290.00
	Minor regrading of channel d/s of culverts					item	
•						Subtotal	\$94,387
			Sub	total (incl.	35% cor	ntingency)	\$127,000

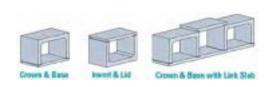
CULVERTS Total

Total Estimated Basic Cost \$6,973,268 \$9,414,000

Base Slab

NOTES: BOX CULVERT (Multiple Cells)











		Crossing B							
Item	Description	Length(m)	Width(m)	Depth(m)	Volume/Area/No Unit		Rate (\$)	1	Total Cost
Approach Work									
Concrete Work	180thick concrete on each side of bridge	2.00		0.18	0.72 sq.m	\$	329.00	\$	236.88
Formwork	Formwork to side faces	2.00		0.1	0.40 sq.m	\$	155.00	\$	62.00
Reinforcement	SL82 top and bottom				0.49 t	\$	2,500.00	\$	1,213.00
Balustrades	Low Performance, eaach side of approach	2.00			8.00 m	\$	300.00	\$	2,400.00
Pipes below approach	3xConcerete Pipes per Approach	4.800			28.8 m	\$	215.00	\$	6,192.00
Backfill Balast Material		2.000	4.800	0.250	2.40 cu.m	\$	165.00	\$	396.00
Bridge Deck									
Concrete Work	180thick concrete on each side of bridge	8.90	4.80	0.18	7.69 cu.m	\$	329.00	\$	2,529.88
Formwork	Formwork to side faces	8.90	4.80	0.1	4.27 cu.m	\$	172.00	\$	734.78
Reinforcement	SL82 top and bottom	8.90	4.80	0.1	0.24 t	\$	2,500.00	\$	606.50
Screed	60 thick screed	8.90	4.80		42.72 sq.m	\$	85.00	\$	3,631.20
Bearings	4 bearings per abutment				4.00 unit	\$	450.00	\$	1,800.00
Bridge Beam (inc member+crainage, etc)	Hollowcore 220thick	8.90	4.80		128.16 sq.m	\$	770.00	\$	106,003.20
Balustrades	Low Performance, both sides of bridge	8.90			17.80 m	\$	300.00	\$	5,340.00
Abutments									
Excavations					7.68 cu.m	\$	199.20	\$	1,529.86
Concrete work	Abutment each side of bridge	0.80	4.80	1.0	7.68 cu.m	\$	329.00	\$	2,526.72
Concrete work	Abutment wall each side of bridge	0.20	4.80	0.3	0.58 cu.m	\$	329.00	\$	189.50
Formwork	All four(4) sides of abutment and wall	3.80	4.80		72.96 sq.m	\$	155.00	\$	11,308.80
Reinforcement	N16-100 all sides				0.36 t	\$	2,500.00	\$	908.00
Piles	3-600dia x 2000L per abutment	2.00			12.00 m	\$	210.00	\$	2,520.00
Additional Items									
Hoarding		200.000			200.00 m	\$	10.00	\$	2,000.00
						то	TAL COST		152,128.32
Builders Margin 12.5%								\$	19,016.04
35% Contingency								\$	53,244.91
3.25% Council fees								\$	4,944.17
2% Traffic management								\$	3,042.57
5% Survey and design								\$	7,606.42
4% Supervision and project management								\$	6,085.13
2.5% site establishment								\$	3,803.21
						То	tal Cost	\$	249,870.77







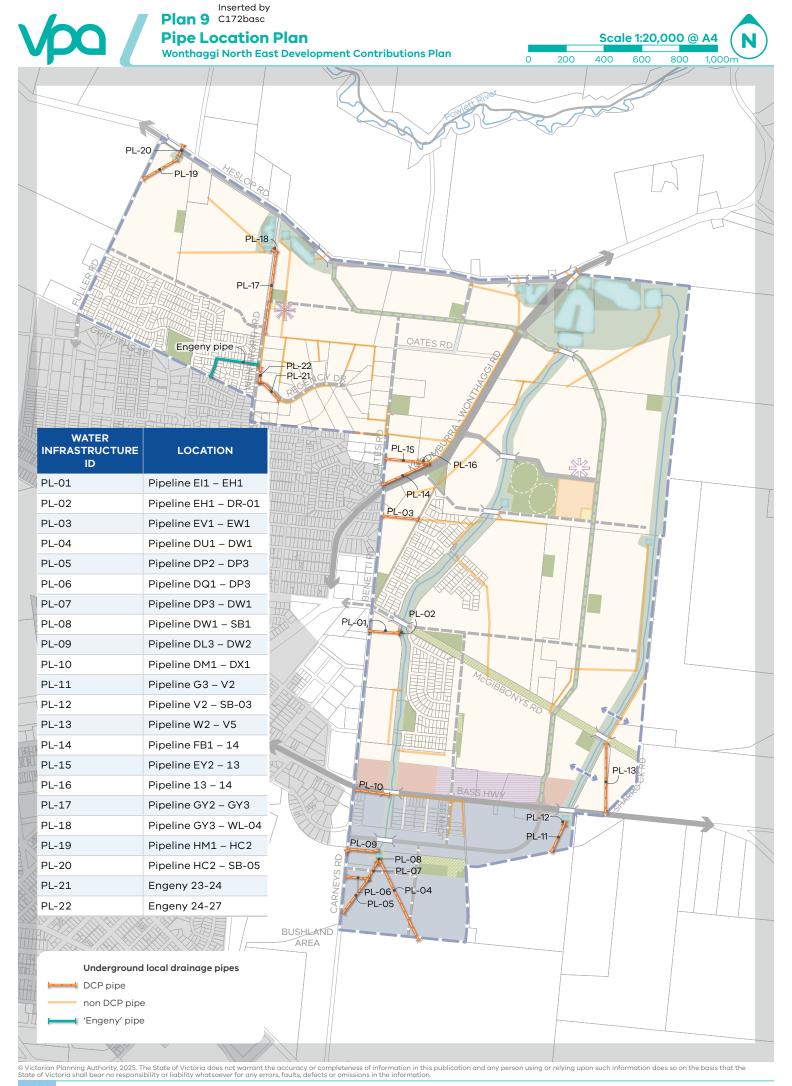
		Crossing A						
Item	Description	Length(m)	Width(m)	Depth(m)	Volume/Area/No	Unit	Rate (\$)	Total Cost
Approach Work	2000. p. 1011	3 ()	,				(. ,	
Concrete Work	180thick concrete on each side of bridge	2.00		0.18	0.72 sq	.m	\$ 329.00	\$ 236.88
Formwork	Formwork to side faces	2.00		0.1	0.40 so		\$ 155.00	\$ 62.00
Reinforcement	SL82 top and bottom				0.49 t		\$ 2,500.00	\$ 1,213.00
Balustrades	Low Performance, eaach side of approach	2.00			8.00 m		\$ 300.00	\$ 2,400.00
Pipes below approach	3xConcerete Pipes per Approach	3.590			21.54 m		\$ 215.00	\$ 4,631.10
Backfill Balast Material		2.000	3.590	0.250	1.80 cu	.m	\$ 165.00	\$ 296.18
Bridge Deck								
Concrete Work	180thick concrete on each side of bridge	3.80	3.59	0.18	2.46 cu	.m	\$ 329.00	\$ 807.88
Formwork	Formwork to side faces	3.80	3.59	0.1	1.36 cu	.m	\$ 172.00	\$ 234.64
Reinforcement	SL82 top and bottom	3.80	3.59	0.1	0.24 t		\$ 2,500.00	\$ 606.50
Screed	60 thick screed	3.80	3.59		13.64 so	.m	\$ 85.00	\$ 1,159.57
Bearings	3 bearings per abutment				6.00 ur	it	\$ 450.00	\$ 2,700.00
Bridge Beam (inc member+crainage)	Hollowcore 220thick	3.80	3.59		40.93 sq	.m	\$ 770.00	\$ 38,833.02
Balustrades	Low Performance, both sides of bridge	3.80			7.60 m		\$ 300.00	\$ 2,280.00
Abutments								
Excavations					5.74 cu	.m	\$ 199.20	, ,
Concrete work	Abutment each side of bridge	0.80	3.59	1.0	5.74 cu	.m	\$ 329.00	
Concrete work	Abutment wall each side of bridge	0.20	3.59	0.3	0.43 cu	.m	\$ 329.00	·
Formwork	All four(4) sides of abutment and wall	3.80	3.59		54.57 sq	.m	\$ 155.00	
Reinforcement	N16-100 all sides				0.36 t		\$ 2,500.00	·
Piles	2-600dia x 2000L per abutment	2.00			8.00 m		\$ 210.00	\$ 1,680.00
Additional Items								
Hoarding		200.000			200.00 m		\$ 10.00	\$ 2,000.00
						Const	truction Cost	•
Builders Margin 12.5%								\$ 8,960.32
35% Contingency								\$ 25,088.88
3.25% Council fees								\$ 2,329.68
2% Traffic management								\$ 1,433.65
5% Survey and design								\$ 3,584.13
4% Supervision and project management								\$ 2,867.30
2.5% site establishment								\$ 1,792.06
							Total Cost	\$ 117,738.54



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		Crossing C						
Item	Description	Length(m)	Width(m)	Depth(m)	Volume/Area/No Un	t	Rate (\$)	Total Cost
Approach Work								
Concrete Work	180thick concrete on each side of bridge	7.90		0.18	2.84 sq.m	\$	329.00	935.68
Formwork	Formwork to side faces	7.90		0.10	1.58 sq.m	\$	155.00	244.90
Reinforcement	SL82 top and bottom				0.49 t	\$	2,500.00	1,213.00
Balustrades	Low Performance, eaach side of approach	7.90			31.60 m	\$	300.00	9,480.00
Pipes below approach	3xConcerete Pipes per Approach	4.200			25.2 m	\$	215.00	5,418.00
Backfill Balast Material		7.900	4.70	0.85	31.56 cu.m	\$	165.00	\$ 5,207.48
Bridge Deck								
Bridge Beam (inc member+crainage, etc)	2x750 Deep SuperT	18.80	4.70		265.08 sq.m	\$	1,096.00	\$ 297,847.68
Abutments								
Excavations					74.26 cu.m	\$	199.20	\$ 14,792.59
Concrete work	Abutment each side of bridge	7.90	4.70	1.00	74.26 cu.m	\$	329.00	\$ 24,431.54
Concrete work	Abutment wall each side of bridge	0.20	4.70	0.30	0.56 cu.m	\$	329.00	\$ 185.56
Formwork	All four(4) sides of abutment and wall	4.20	4.70		78.96 sq.m	\$	155.00	\$ 12,238.80
Reinforcement	N16-100 all sides				0.36 t	\$	2,500.00	\$ 908.00
Piles	3-600dia x 2000L per abutment	7.90			47.40 m	\$	210.00	\$ 9,954.00
Additional Items								
Hoarding		400.00			400.00 m	\$	10.00	\$ 4,000.00
						т	TAL COST	\$ 386,857.23
Builders Margin 12.5%								\$ 48,357.15
35% Contingency								\$ 135,400.03
3.25% Council fees								\$ 12,572.86
2% Traffic management								\$ 7,737.14
5% Survey and design								\$ 19,342.86
4% Supervision and project management								\$ 15,474.29
2.5% site establishment								\$ 9,671.43
						То	tal Cost	\$ 635,412.99





WONTHAGGI NORTH EAST DEVELOPMENT CONTRIBUTIONS PLAN

Victorian Planning Authority March 2025

