

Live Path: E:\MMD Projects\Closed Projects\Acacia Bay WTP\02 Documents\Options Study Report\363167 Project Schedule Comparison_CAPEXspendv2.xlsx\Upgrade Costs 30ML
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Job Name: Acacia Bay Water Supply Upgrade
 Job No. 363167
 Client: Taupō District Council
 Currency: NZD Revision: 1
 Prepared by: EW Date: 28/07/2016
 Checked by: TRM Date:

Concept Costing - Lake Terrace WTP 25-30 ML/d upgrade					
Level of Accuracy: ± 40%					
Item	Description	Unit	QTY	Rate	Estimate
1.0	Preliminary & General				\$ 134,000
1.1	General (15% of works costs)	LS	1	\$ 134,000	\$ 134,000
2.0	Lake Terrace WTP - Upgrade (25 - 30 MLD)				\$ 707,444
	Civil & Structural	LS	1.00	\$ 5,000	\$ 5,000
	Raw water pump	LS	1.00	\$ 55,000	\$ 55,000
	Raw water strainer	LS	1.00	\$ 45,000	\$ 45,000
	Raw water pipework, valves & fittings	LS	1.00	\$ 20,000	\$ 20,000
	Additional membrane rack (70 modules)	LS	1.00	\$ 500,000	\$ 500,000
	Treated water pump	LS	1.00	\$ 30,000	\$ 30,000
	Treated water pump pipework and valves	LS	1.00	\$ 52,444	\$ 52,444
				\$ -	\$ -
				\$ -	\$ -
3.0	Electrical - Lake Terrace WTP				141,488.80
	Instrumentation	LS	1	\$ 141,489	141,488.80
	Installation	Inc		\$ -	\$ -
	Engineering	Inc		\$ -	\$ -
	Site Costs	Inc		\$ -	\$ -
	PLC and SCADA	Inc		\$ -	\$ -
				\$ -	\$ -
7.0	Testing and Commissioning				40,000
	Testing and Commissioning	LS	2	\$ 20,000	\$ 40,000
	Sub Total - Works Costs				\$ 1,022,932.80
	Contingency	%	40		\$ 409,173
	Professional Fees	%	15		\$ 153,440
	Other Non Works Costs	%	15		\$ 153,440
	Total Cost				\$ 1,738,986

NOTES

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Live Path: E:\MMD Projects\Closed Projects\Acacia Bay WTP\02 Documents\Options Study Report\363167 Project Schedule Comparison_CAPEXspendv2.xlsx\Option 1
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Concept Costing - Option 1 - New Acacia Bay WTP					
Level of Accuracy: ± 40%					
Item	Description	Unit	QTY	Rate	Estimate
1.0	Preliminary & General				\$ 437,000
	General (15% of works costs)	LS	1	\$ 437,000	\$ 437,000
2.0	Raw Water Rising Main				\$ 313,300
	Rising main - 280mm ND PE SDR 11 PN 12.5	m	566	\$ 550	\$ 311,300
	Connections	each	1	\$ 2,000	\$ 2,000
3.0	New Acacia Bay WTP - Package Plant				\$ 1,876,000
	Civil & Structural	m2	130	\$ 4,500	\$ 585,000
	Mechanical	LS	1	\$ 279,000	\$ 279,000
	Membrane Filtration Equipment (2500 m3/day)	LS	1	\$ 650,000	\$ 650,000
	Electrical	LS	1	\$ 268,000	\$ 268,000
	Controls and Instrumention	LS	1	\$ 46,000	\$ 46,000
	Testing & Commissioning	LS	1	\$ 48,000	\$ 48,000
					\$ -
4.0	Acacia Bay WTP - Siteworks				\$ 160,000
	Access	m ²	250	\$ 150	\$ 37,500
	Landscaping	m ²	1,000	\$ 20	\$ 20,000
	Security	m	250	\$ 50	\$ 12,500
	Waste discharge connection	m	50	\$ 300	\$ 15,000
	Feed pipe to WTP	m ²	250	\$ 150	\$ 37,500
	Potable water connection	m ²	250	\$ 150	\$ 37,500
5.0	Treated Water Pump Station				\$ 59,000
	Booster pumps (Duty/Standby)	each	2	\$ 9,500	\$ 19,000
	Booster pump pipes, valves and fittings	LS	1	\$ 40,000	\$ 40,000
					\$ -
6.0	Treated water Rising Main				\$ 313,300
	Rising main - 280mm ND PE SDR 11 PN 12.5	m	566	\$ 550	\$ 311,300
	Connections	each	1	\$ 2,000	\$ 2,000
7.0	Land acquisition costs				\$ 500,000
	650 Acacia Bay Road	LS	1	\$ 500,000	\$ 500,000
					\$ -
					\$ -
	Sub Total - Works Costs				\$ 3,658,600
	Contingency	%	40		\$ 1,463,440
	Professional Fees	%	15		\$ 548,790
	Other Non Works Costs	%	15		\$ 548,790
	Total Cost				\$ 6,219,620

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Live Path: E:\MMD Projects\Closed Projects\Acacia Bay WTP\02 Documents\Options Study Report\363167 Project Schedule Comparison_CAPEXspendv2.xlsx\Acacia Bay Network Cost Only
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Job Name: Acacia Bay
 Job No. 363167
 Client: Taupo District Council
 Currency: NZD Revision: _____ 1
 Prepared by: EW Date: 28/07/2016
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Concept Costing - Option 2 Connection of Acacia Bay to Taupo Water Supply					
Level of Accuracy: ± 40%					
Item	Description	Unit	QTY	Rate	Estimate
1.0	Preliminary & General				\$ 351,000
1.1	General (15% of works costs)	LS	1	\$ 351,000	\$ 351,000
					\$ -
2.0	Network Upgrade				\$ 1,794,500
	Rising main - 280mm ND PE SDR 11 PN 12.5	m	2 900	\$ 550	\$ 1,595,000
	Rising main - 355mm ND PE SDR 11 PN 12.5	m	250	\$ 750	\$ 187,500
	Connections	each	6	\$ 2,000	\$ 12,000
					\$ -
3.0	Acacia Bay Booster Pump Station				\$ 332,700
	Pump station building	m ²	50	\$ 4,500	\$ 225,000
	Access road	m ²	250	\$ 150	\$ 37,500
	Genset pad	LS	1	\$ 5,000	\$ 5,000
	Security	m	70	\$ 60	\$ 4,200
	Booster pumps (Duty/Standby)	each	2	\$ 9,500	\$ 19,000
	Booster pump pipes, valves and fittings	LS	1	\$ 40,000	\$ 40,000
	Chlorine dosing system relocation	LS	1	\$ 2,000	\$ 2,000
					\$ -
4.0	Electrical - Acacia Bay Booster Pump Station				\$ 66,540
	Electrical & Control	LS	1	\$ 66,540	\$ 66,540
	Installation	Inc			\$ -
	Engineering	Inc			\$ -
	Site Costs	Inc			\$ -
	PLC and SCADA	Inc			\$ -
					\$ -
5.0	Testing and Commissioning				\$ 20,000
	Testing and Commissioning	LS	1	\$ 20,000	\$ 20,000
6.0	Land acquisition costs				\$ 125,000
	650 Acacia Bay Road	LS	.25	\$ 500,000	\$ 125,000
					\$ -
	Sub Total - Works Costs				\$ 2,689,740.00
					\$ -
	Contingency	%	40		\$ 1,075,896
					\$ -
	Professional Fees	%	15		\$ 403,461
					\$ -
	Other Non Works Costs	%	15		\$ 403,461
					\$ -
	Total Cost				\$ 4,572,558

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