

		Max TDS (ton/day) (at LDP)	Total Flow (ML/day)	TDS conc. (T/ML)	Actual flow taken	Actual TDS per LDP	Total Flow (T/day)	Total TDS Flow Diverted (T/day)	TDS conc. of diverted flow (T/ML)	TDS Collected from Coxs	TDS Collected from Wollongambe	Piping Requirement s (length km)	Total reduction of TDS - T/day (normalise d)	Total Diverged Flow (ML/day) % of max capacity 35 ML	% reduction TDS in Wollamgambe	% reduction TDS in Coxes	Normalised total pipe length	Total Pump Power Normalised	RO Treatment (normalised)	pipe length for pump calc	Inlet altitude	Outlet altidue	Altitude difference	Friction loss	Head loss	Pump power	Total Pump Power
Option 1	CL002	5.73	25	0.2292	25	5.7	25.0	5.7	0.2	0.0	5.7	33.4	0.0	0.7	1.0	0.0	0.0	0.1	1.0	33.4	1062	941	-121	1670	1549	38725	38725
Option 2	SV006	125.2	36	3.4777778	35	121.7	35.0	121.7	3.5	121.7	0.0	4.9	1.0	1.0	0.0	0.8	1.0	0.0	0.0	4.9	897	941	44	245	289	10115	10115
Option 3	CL002	5.73	25	0.2292	25	5.7	35.0	12.4	0.4	6.7	5.7	33.4	0.1	1.0	1.0	0.0	0.0	0.0	1.0	33.4	1062	941	-121	1670	1549	38725	42700
	SV001	6.7	10	0.67	10	6.7														6.95	891	941	50	347.5	397.5	3975	
Option 4	CL002	5.73	25	0.2292	25	5.7	35.0	40.5	1.2	34.8	5.7	33.7	0.3	1.0	1.0	0.2	0.0	0.0	0.7	33.4	1062	941	-121	1670	1549	38725	41615
	SV006	125.2	36	3.4777778	10	34.8														4.9	897	941	44	245	289	2890	
Option 5	SV001	6.7	10	0.67	10	6.7	35.0	93.6	2.7	93.6	0.0	7.3	0.8	1.0	0.0	0.6	0.9	1.0	0.2	6.95	891	941	50	347.5	397.5	3975	11200
	SV006	125.2	36	3.4777778	25	86.94444444														4.9	897	941	44	245	289	7225	

Total TDS in Coxs
154.66ton/day
Total TDS in Wollongambe
5.73 ton/day
Max flow capacity
35ML/day

Can change

Normalised criteria

Pumping calculations (can change length for each pipe and altitudes)

	Weighting	Criteria	Weighting	Option 1		Option 2		Option 3		Option 4		Option 5	
				Score	Weighted	Score	Weighted	Score	Weighted	Score	Weighted	Score	Weighted
Environmental	0.1	Flow Capacity	0.025	0.714	0.018	1.000	0.025	1.000	0.025	1.000	0.025	1.000	0.025
		Total TDS reduction	0.025	0.000	0.000	1.000	0.025	0.058	0.001	0.300	0.007	0.758	0.019
		TDS Reduction Wollongambe	0.025	1.000	0.025	0.000	0.000	1.000	0.025	1.000	0.025	0.000	0.000
		TDS Reduction Coxs	0.025	0.000	0.000	0.787	0.020	0.043	0.001	0.225	0.006	0.605	0.015
Economic	0.9	Piping requirement	0.225	0.010	0.002	1.000	0.225	0.010	0.002	0.000	0.000	0.918	0.207
		Pumping requirment	0.225	0.122	0.027	1.000	0.225	0.000	0.000	0.033	0.007	0.967	0.218
		RO treatment requirement	0.45	1.000	0.450	0.000	0.000	0.961	0.433	0.714	0.321	0.247	0.111
		Total	1		0.523		0.520		0.487		0.392		0.594

Can change overall weighting or change individual weighting, but has to add up to 1

Weighting		Best Option	Option 1	Option 2	Option 3	Option 4	Option 5
Environmental	Economic						
0.9	0.1	Option 2	0.439	0.677	0.521	0.605	0.591
0.8	0.2	Option 2	0.449	0.657	0.517	0.578	0.592
0.7	0.3	Option 2	0.460	0.638	0.513	0.551	0.592
0.6	0.4	Option 2	0.470	0.618	0.508	0.525	0.592
0.5	0.5	Option 2	0.481	0.598	0.504	0.498	0.593
0.4	0.6	Option 5	0.491	0.579	0.500	0.472	0.593
0.3	0.7	Option 5	0.502	0.559	0.496	0.445	0.594
0.2	0.8	Option 5	0.512	0.539	0.492	0.419	0.594
0.1	0.9	Option 5	0.523	0.520	0.487	0.392	0.594