Muswellbrook Shire Council IWCM - Scenario 1

Water Supply Service

ITEM	ILOS %	Growth %	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH ($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0			Water Security - Muswellbrook and Denman water supply																																							
	83%	13%	Raw water (25 ML/d) transfer from Glenbawn dam to Muswellbrook WTP (gravity/pumping)			26,661	$26,661	$18,732	$14,902	$11,307	$0	$0	$0	$0	$0	$0	$0	$0	$0	$26,661																							
2.0			Muswellbrook Water quality - during high turbidity events																																							
	100%		Stage 1 - Optimise coagulation and flocculation process including pH correction (2022)			100	$100	$96	$93	$91	$0	$100																														
	100%		Stage 2 - Blend groundwater with river water during high turbidity events (2024)			3,100	$3,150	$2,887	$2,719	$2,568			$0	$3,100	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Stage 3 - Construct a lamella clarifier (2030) and refurbish existing clarifier			6,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0																					
3.0			Muswellbrook water supply - supply reliability																																							
	90%	10%	South Muswellbrook - Construct a new 375 mm main from the South Muswellbrook pumping station to the South Muswellbrook reservoir (2034)			3,600	$3,600	$2,162	$1,494	$1,043			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,600																
		100%	Construct a 5 ML reservoir in South Muswellbrook (2035)			2,500	$2,500	$1,444	$970	$658			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,500																
			Construct a new Muswellbrook WTP to end of life to meet additional capacity (2045)	22 ML/d		40,000	$40,000	$15,605	$7,895	$4,061			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,000								
4.0			Denman water supply - water quality hardness																																							
	100%		Treat hardness - Construct a new package ion exchange system for hardness removal (2022)			500	$500	$462	$437	$413		$0	$500																													
5.0			Denman water supply - high raw water turbidity events																																							
	100%		Stage 1 - Optimise coagulation and pH control (2022)			95	$95	$91	$89	$86		$95																														
	100%		Stage 2 - Commission bore water as emergency alternate source (2024)			350	$350	$311	$286	$263		$0	$0	$350																												
	100%		Stage 3 - Construct clarifier - for raw water clarification (2030)			1,800	$1,800	$1,564	$1,372	$1,188		$0	$1,800	$0	$0	$0	$0	$0	$0	$0	$0																				
			Connect Denman water supply to Muswellbrook		30 km	20,000	$0	$0	$0	$0																															
			Construct new plant at the end of design life (2040)	2 ML/d		6,000	$6,000	$2,846	$1,599	$961	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,000	$0	$0	$0	$0							
6.0			Sandy Hollow - water quality hardness																																							
	100%		Extend the proposed Denman to Hollydeen pipeline to supply Sandy Hollow (2024) - Included in grant	150 mm	6.5 km	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Rectification at Sandy Hollow		50	$50	$44	$41	$38	$0	$0	$0	$50																													
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)			$84,806	$46,547	$51,747	$22,897																																
2.0			OPERATION AND MAINTENANCE COSTS																																							
2.1			Muswellbrook WTP																																							
			Raw water supply from Glenbawn dam		315,000		$6,615	$3,105	$1,857	$1,155	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315
			Chemical and Sludge Costs		133,000	$	$2,793	$1,311	$784	$488	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133
			O&M and Fixed Costs		480,000	$	$10,080	$4,731	$2,829	$1,761	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$434	$239	$164	$119	$0	$0	$0	$0	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16
			Maintenance of lamella clarifier (percentage of capital cost)		1.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.2			Boone WTP																																							
			Variable Costs		7,100	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Fixed Costs		115,000	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.3			Denman Water Supply																																							
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$47	$25	$17	$12	$0	$0	$0	$0	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2
			Maintenance of clarifier (percentage of capital cost)		1.0%		$504	$268	$204	$152	$0	$0		$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
2.3			Muswellbrook distribution system																																							
			Maintenance cost - new 375 mm pipeline to South Muswellbrook (as a percent of capital cost)		0.5%		$306	$132	$73	$42	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
			Maintenance cost - new 5 ML reservoir		0.5%		$200	$84	$45	$26	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13
2.3			Pipeline Denman to Sandy Hollow (operation)				$764	$411	$277	$196	$0	$0	$0	$0	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28	$28
2.4			Pipeline Muswellbrook to Denman (Operation)				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.7			Maintenance Cost (Denman to Sandy Hollow Pipeline)		0.5%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.8			Maintenance Cost (Muswellbrook to Denman Pipeline)		0.5%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL OPERATION & MAINTENANCE COSTS				$21,745	$10,515	$6,257	$3,958	$0	$0	$0	$54	$64	$64	$64	$64	$64	$64	$382	$382	$382	$382	$1,010	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022	$1,022
			Avoided Costs																																						
			O&M Cost at Muswellbrook WTP	$/ML	-130.21		-$5,411	-$2,329	-$1,307	-$935	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$250	-$250	-$251	-$252	-$253	-$254	-$254	-$255	-$256	-$257	-$258	-$258	-$259	-$260	-$261	-$262	-$263	-$263	-$264	-$265	-$266	
			Operation Cost at Sandy Hollow WTP	$/ML	-2733.00		-$1,927	-$1,027	-$668	-$486	$0	$0	$0	$0	-$66	-$66	-$66	-$66	-$66	-$66	-$66	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	
			O&M Cost at Denman WTP	$/ML	-444.00		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Denman WTP Capital works				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTALAVOIDED COSTS				-$7,558	-$3,356	-$2,196	-$1,421	$0	$0	$0	$0	-$66	-$66	-$66	-$66	-$66	-$66	-$316	-$321	-$322	-$325	-$324	-$325	-$326	-$326	-$327	-$328	-$329	-$332	-$333	-$334	-$335	-$336	-$336	-$337	-$338	-$339	-$340	
			TOTAL PRESENT VALUE				$113,687	$53,106	$55,789	$25,513																																
			Average annual demand for Sandy Hollow						$37,964			23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
			Average annual demand for Denman								249	250	251	251	252	253	254	255	255	256	257	258	259	259	260	261	262	263	263	264	265	266	267	267	268	269	270	271	271	272	273
			Average water demand for Muswellbrook								1855	1829	1835	1841	1848	1886	1892	1898	1905	1911	1917	1923	1929	1936	1942	1948	1954	1960	1967	1973	1979	1985	1991	1998	2004	2010	2016	2022	2029	2035	2041
												6																													
												1																													

Sewerage Service

ITEM	ILOS	Growth	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH ($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0	100%	0%	Muswellbrook sewerage scheme - Effluent management																																						
			Reuse option 4 - Muswellbrook Golf Club + Racecourse + Industrial Area			1,045	$1,045	$967	$914	$854	$0	$0	$1,045	$0																												
			Reuse option 4 - Parks and sporting fields + STP + River Discharge			2,857	$3,491	$2,373	$1,800	$1,379	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,857	$0	$0	$0	$0	$634																
			Connect Racecourse and Sheppard Avenue Properties to Muswellbrook STP (2035)			2,309	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0												
2.0	100%	0%	Denman sewerage scheme - Performance issues																																						
			Sludge management - desludge sludge lagoons and construct drying beds (2023)			1,050	$1,050	$992	$887	$828	$0	$0	$525	$525																												
			Grit removal - upgrade inlet works (2023)			650	$650	$578	$531	$468	$0	$0	$0	$650																												
3.0	100%	0%	Denman sewerage scheme - effluent management																																						
			Remedial work for opportunistic reuse (2030)			900	$900	$532	$490	$382	$0	$0	$0	$0	$0	$0	$0	$0	$0	$900																					
			Remedial works for opportunistic reuse including golf course, recreation area and agriculture (2030)			1,574	$1,574	$967	$649	$441	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,574																
			Third pipe supply to Urban release areas (2035) - Not in this Scenario			2,500	$0	$0	$0	$0																																
4.0	100%	0%	Denman sewerage scheme - unserviced areas																																						
			Connect Grey Gum and West Denman (2040)			800	$800	$380	$221	$131	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$800											
5.0	100%	0%	Sandy Hollow - unserviced areas																																						
			Sewering of Sandy Hollow village (2040)			3,500	$3,500	$1,661	$968	$572	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,500											
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)				$13,111	$6,510	$6,459	$5,065																																
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.5			Maintenance Costs (Civil and mechanical)																																						
			Sludge lagoons and drying beds				$142	$76	$51	$36	$0	$0	$0	$0	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5
			Inlet works		0.5%		$176	$94	$64	$45	$0	$0	$0	$0	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7
			Denman STP Effluent Reuse		1.0%		$268	$113	$61	$34	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17
			Denman STP Third pipe to Urban release areas		2.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Muswellbrook Effluent Reuse Scheme		1.0%		$994	$465	$302	$198	$0	$0	$0	$10	$10	$10	$10	$10	$10	$10	$10	$39	$39	$39	$39	$39	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45
			POEO License fee for Muswellbrook STP River discharge				$954	$341	$223	$155	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$20	$20	$20	$20	$20	$23	$23	$23	$23	$23	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30
			O&M Cost for Sandy Hollow Sewerage scheme			$130	$1,430	$341	$270	$138	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130
			TOTAL OPERATION & MAINTENANCE COSTS				$5,675	$1,650	$972	$606	$0	$0	$0	$27	$39	$39	$39	$39	$39	$39	$71	$71	$71	$71	$71	$97	$97	$97	$97	$97	$254	$254	$254	$254	$254	$254	$254	$254	$254	$254	$254	$254
			Avoided Costs																																						
							$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTALAVOIDED COSTS				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL PRESENT VALUE				$16,784	$10,160	$7,451	$5,693																																

Muswellbrook Shire Council IWCM - Scenario 2

Water Supply Service

ITEM	ILOS %	Growth %	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0			**Water Security - Muswellbrook and Denman water supply**																																						
	83%	13%	Treated water (8 ML/d) transfer from Glenbawn dam to Muswellbrook WTP (gravity/pumping)			30,971	$30,971	$21,760	$16,845	$13,135	$0	$0	$0	$0	$0	$0	$0	$0	$0	$30,971																					
2.0			**Muswellbrook Water quality - during high turbidity events**																																						
	100%		Stage 1 - Optimise coagulation and flocculation process including pH correction (2022)			100	$100	$96	$93	$91	$0	$100																													
	100%		Stage 2 - Blend groundwater with the water during high turbidity events (2024)			3,100	$3,150	$2,887	$2,719	$2,568		$0	$3,100	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Stage 3 - Construct a lamella clarifier (2030) and refurbish existing clarifier			6,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0																				
3.0			**Muswellbrook water supply - supply reliability**																																						
	90%	10%	South Muswellbrook - Construct a new 375 mm main from the South Muswellbrook pumping station to the South Muswellbrook reservoir (2034)			3,600	$3,600	$2,162	$1,494	$1,043		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,600																
		100%	Construct a 5 ML reservoir in South Muswellbrook (2035)			2,500	$2,500	$1,444	$970	$658		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,500															
			Construct a new Muswellbrook WTP to end of life to meet additional capacity (2045)	16 ML/d		35,000	$35,000	$13,654	$6,900	$3,353		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$35,000					
4.0			**Denman water supply - water quality hardness**																																						
	100%		Treat hardness - Construct a new package ion exchange system for hardness removal (2022)			500	$500	$462	$437	$413		$0	$500																												
5.0			**Denman water supply - high raw water turbidity events**																																						
	100%		Stage 1 - Optimise coagulation and pH control (2022)			95	$95	$91	$89	$86		$95																													
	100%		Stage 2 - Commission bore water as emergency alternate source (2024)			350	$0	$0	$0	$0		$0	$0	$0																											
	100%		Stage 3 - Construct clarifier - for raw water clarification (2030)			1,800	$1,800	$1,564	$1,372	$1,168		$0	$1,800	$0	$0	$0	$0	$0	$0	$0	$0																				
			Connect Denman water supply to Muswellbrook to coincide with Glenbawn supply (2030)		30 km	20,000	$20,000	$14,092	$10,879	$8,482		$0	$0	$0	$0	$0	$0	$0	$0	$0	$20,000																				
			Construct new plant at the end of design life (2040)	2 ML/d		6,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
6.0			**Sandy Hollow - water quality hardness**																																						
	100%		Extend the proposed Denman to Hollydeen pipeline to supply Sandy Hollow (2024) - Included in plant	150 mm	6.5 km	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Rechlorinate at Sandy Hollow			30	$50	$44	$41	$38		$0	$0	$0	$50																										
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)				$87,766	$58,517	$42,058	$31,555																														
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.1			Muswellbrook WTP																																						
			Raw water supply from Glenbawn dam			190,000	$3,990	$1,873	$1,120	$697	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190
			Chemical and Sludge Costs		$	133,000	$2,793	$1,311	$784	$488	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133
			O&M and Fixed Costs		$	287,000	$6,027	$2,829	$1,692	$1,053	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287
			Maintenance cost for groundwater system (percentage of capital cost)			0.5%	$434	$239	$164	$119	$0	$0	$0	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16
			Maintenance of lamella clarifier (percentage of capital cost)			1.0%	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.2			Scone WTP																																						
			Variable Costs			7,100	$149	$70	$42	$26	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7
			Fixed Costs		$	115,000	$2,413	$1,134	$678	$422	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115	$115
2.3			Denman Water Supply																																						
			Maintenance cost for groundwater system (percentage of capital cost)			0.5%	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Maintenance of clarifier (percentage of capital cost)			1.0%	$304	$277	$191	$138	$0	$0	$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
2.3			Muswellbrook distribution system																																						
			Maintenance cost - new 375 mm pipeline to South Muswellbrook (as a percent of capital cost)			0.5%	$306	$132	$73	$42	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
			Maintenance cost - new 5 ML reservoir			0.5%	$200	$84	$45	$26	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13
2.3			Pipeline Denman to Sandy Hollow (operation)				$764	$411	$277	$196	$0	$0	$0	$0	$0	$0	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26
2.4			Pipeline Muswellbrook to Denman (Operation)			135,000	$135	$1,331	$796	$495	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135
2.7			Maintenance Cost (Denman to Sandy Hollow Pipeline)			0.5%	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.8			Maintenance Cost (Muswellbrook to Denman Pipeline)			0.5%	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL OPERATION & MAINTENANCE COSTS				$20,417	$9,663	$5,861	$3,702	$0	$0	$0	$54	$62	$62	$62	$62	$62	$62	$829	$829	$829	$829	$847	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883	$883
			Avoided Costs																																						
			O&M Cost at Muswellbrook WTP	$/ML	-390.82		-$15,121	-$6,834	-$3,996	-$2,377	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$364	-$751	-$754	-$756	-$759	-$761	-$763	-$766	-$768	-$771	-$773	-$775	-$778	-$780	-$783	-$785	-$788	-$790	-$792	-$795	-$797
			Operation Cost at Sandy Hollow WTP	$/ML	-2733.00		-$1,927	-$1,027	-$668	-$466	$0	$0	$0	$0	-$66	-$66	-$66	-$66	-$66	-$66	-$66	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74
			O&M Cost at Denman WTP	$/ML	-444.00		-$2,471	-$1,135	-$668	-$427	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$114	-$114	-$115	-$115	-$116	-$116	-$116	-$117	-$117	-$117	-$118	-$118	-$118	-$119	-$119	-$119	-$120	-$120	-$121	-$121	-$121
			Denman WTP filter replacements			-300.00	-$1,900	-$711	-$433	-$277	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$300	$0	$0	$0	$0	-$300	$0	$0	$0	$0	$0	-$300	$0	$0	$0	$0	-$300	$0	$0	$0	$0	-$300
			Denman WTP - backwash and supernatant recovery system upgrade			-750.00	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Denman WTP Instrumentation upgrade			-375.00	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL AVOIDED COSTS				-$21,019	-$8,727	-$5,766	-$3,567	$0	$0	$0	$0	-$66	-$66	-$66	-$66	-$66	-$66	-$119	-$357	-$340	-$342	-$345	-$1,245	-$351	-$355	-$356	-$358	-$1,262	-$367	-$370	-$373	-$376	-$1,276	-$381	-$384	-$387	-$389	-$1,282
			TOTAL PRESENT VALUE				$158,202	$88,279	$42,154	$31,690																															
			Average annual demand for Sandy Hollow						$47,901			25	25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27
			Average annual demand for Denman								249	250	251	251	252	253	254	255	255	256	257	258	259	259	260	261	262	263	263	264	265	266	267	267	268	269	270	271	271	272	273
			Average water demand for Muswellbrook								1855	1829	1835	1841	1848	1886	1892	1898	1905	1911	1917	1923	1929	1936	1942	1948	1954	1960	1967	1973	1979	1985	1991	1998	2004	2010	2016	2022	2029	2035	2041

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Sewerage Service

ITEM	ILOS	Growth	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0	100%	0%	**Muswellbrook average scheme - Effluent management**																																						
			Renew current contract with Mount Arthur Coal Mine			1,045	$0	$0	$0	$0	$0	$0	$0	$0																												
			Reuse option 4 - Parks and sporting fields + STP + River Discharge			2,857	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0																
			Connect Racecourse and Sheppard Avenue Properties to Muswellbrook STP (2035)			2,309	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.0	100%	0%	**Denman sewerage scheme - Performance issues**																																						
			Sludge management - desludge sludge lagoons and construct drying beds (2023)			1,080	$1,080	$932	$857	$826	$0	$0	$825	$525																												
			Grit removal - upgrade inlet works (2023)			630	$630	$578	$531	$488	$0	$0	$0	$630																												
3.0	100%	0%	**Denman sewerage scheme - effluent management**																																						
			Remedial work for opportunistic reuse (2030)			900	$900	$532	$490	$382	$0	$0	$0	$0	$0	$0	$0	$0	$0	$900																					
			Remedial works for opportunistic reuse including golf course, recreation area and agriculture (2030)			1,674	$1,674	$967	$549	$441	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,674															
			Third pipe supply to Urban release areas (2033) - Not in this Scenario			2,500	$0	$0	$0	$0																															
4.0	100%	0%	**Denman sewerage scheme - unserviced areas**																																						
			Connect Grey Gum and West Denman (2040)			800	$800	$380	$221	$131	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$800										
5.0	100%	0%	**Sandy Hollow - unserviced areas**																																						
			Sewering of Sandy Hollow village (2040)			3,500	$3,300	$1,561	$968	$572	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,300										
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)				$8,574	$5,170	$3,745	$2,842																														
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.5			Maintenance Costs (Civil and mechanical)																																						
			Sludge lagoons and drying beds		0.5%		$142	$76	$51	$36	$0	$0	$0	$0	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5
			Inlet works		1.0%		$176	$94	$64	$45	$0	$0	$0	$0	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7
			Denman STP Effluent Reuse		1.0%		$256	$113	$61	$34	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17
			Denman STP Third pipe to Urban release areas		2.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Muswellbrook Effluent Reuse Scheme		1.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			POEO Licensee fee for Muswellbrook STP River discharge				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			O&M Cost for Sandy Hollow Sewerage scheme			$130	$1,430	$541	$270	$138	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130
			TOTAL OPERATION & MAINTENANCE COSTS				$2,015	$824	$446	$254	$0	$0	$0	$0	$12	$12	$12	$12	$12	$12	$12	$12	$12	$12	$12	$28	$28	$28	$28	$28	$156	$156	$156	$156	$156	$156	$156	$156	$156	$156	$156
			Avoided Costs																																						
							$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL AVOIDED COSTS				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL PRESENT VALUE				$10,589	$5,994	$4,191	$3,096																															

Muswellbrook Shire Council IWCM - Scenario 3

Water Supply Service

ITEM	ILOS %	Growth %	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0			**Water Security - Muswellbrook and Denman water supply**																																						
	85%	15%	Raw water (8 ML/d) transfer from Glenbawn dam to Muswellbrook WTP (gravity/pumping)			17,831	$17,831	$12,928	$9,699	$7,962	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17,831																						
2.0			**Muswellbrook Water quality - during high turbidity events**																																						
	100%		Stage 1 - Optimise coagulation and flocculation process including pH correction (2022)			100	$100	$96	$93	$91	$0	$100																													
	100%		Stage 2 - Blend groundwater with the water during high turbidity events (2024)			3,100	$3,150	$2,887	$2,719	$2,568		$0	$3,100	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Stage 3 - Construct a lamella clarifier (2030) and refurbish existing clarifier			6,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0																				
3.0			**Muswellbrook water supply - supply reliability**																																						
	90%	10%	South Muswellbrook - Construct a new 375 mm main from the South Muswellbrook pumping station to the South Muswellbrook reservoir (2034)			3,600	$3,600	$2,162	$1,494	$1,043		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,600																
		100%	Construct a 5 ML reservoir in South Muswellbrook (2035)			2,500	$2,500	$1,444	$970	$658		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,500															
			Construct a new Muswellbrook WTP to end of life to meet additional capacity (2045)	22 ML/d		40,000	$40,000	$15,605	$7,895	$4,061		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,000					
4.0			**Denman water supply - water quality hardness**																																						
	100%		Treat hardness - Construct a new package ion exchange system for hardness removal (2022)			500	$500	$462	$437	$413		$0	$500																												
5.0			**Denman water supply - high raw water turbidity events**																																						
	100%		Stage 1 - Optimise coagulation and pH control (2022)			95	$95	$91	$89	$86		$95																													
	100%		Stage 2 - Commission bore water as emergency alternate source (2024)			350	$350	$311	$285	$263		$0	$0	$350																											
	100%		Stage 3 - Construct an additional 5 ML reservoir to maintain supply during high turbidity events (2030)			2,500	$2,500	$2,311	$2,184	$2,066		$0	$2,500																												
			Connect Denman water supply to Muswellbrook at the end of Denman WTP design life (2040)		30 km	20,000	$20,000	$9,493	$5,530	$3,270		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$20,000									
			Construct new plant at the end of design life (2040)	2 ML/d		6,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0						
6.0			**Sandy Hollow - water quality hardness**																																						
	100%		Extend the proposed Denman to Hollydeen pipeline to supply Sandy Hollow (2024) - Included in plant	150 mm	6.5 km	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Rechlorinate at Sandy Hollow		30		$50	$44	$41	$38	$0	$0	$0	$50																												
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)				$80,676	$47,455	$31,426	$22,120																															
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.1			Muswellbrook WTP																																						
			Raw water supply from Glenbawn dam		315,000		$6,615	$3,105	$1,857	$1,155	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315	$315
			Chemical and Sludge Costs		133,000	$	$2,793	$1,311	$784	$488	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133
			O&M and Fixed Costs		480,000	$	$10,080	$4,731	$2,829	$1,761	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480	$480
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$434	$239	$164	$119	$0	$0	$0	$0	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16
			Maintenance of lamella clarifier (percentage of capital cost)		1.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.2			Scone WTP																																						
			Variable Costs		7,100	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Fixed Costs		115,000	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.3			Denman Water Supply																																						
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$47	$25	$17	$12	$0	$0	$0	$0	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2
			Maintenance of new 5 ML reservoir (percentage of capital cost)		0.5%		$350	$193	$133	$96	$0	$0	$0	$0	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13
2.3			Muswellbrook distribution system				$0																																		
			Maintenance cost - new 375 mm pipeline to South Muswellbrook (as a percent of capital cost)		0.5%		$306	$132	$73	$42	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
			Maintenance cost - new 5 ML reservoir		0.5%		$200	$84	$45	$26	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13
2.5			Pipeline Denman to Sandy Hollow (operation)				$764	$411	$277	$196	$0	$0	$0	$0	$0	$0	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26
2.4			Pipeline Muswellbrook to Denman (Operation)		135,000		$1,483	$961	$680	$514	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$135	$135	$135	$135	$135	$135	$135	$135	$135	$135
2.7			Maintenance Cost (Denman to Sandy Hollow Pipeline)		0.5%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.6			Maintenance Cost (Muswellbrook to Denman Pipeline)		0.5%		$1,100	$416	$207	$106	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$100	$100	$100	$100	$100	$100	$100	$100	$100	$100
			TOTAL OPERATION & MAINTENANCE COSTS				$24,174	$11,207	$6,666	$4,145	$0	$0	$0	$0	$26	$26	$26	$26	$26	$26	$26	$386	$386	$386	$386	$1,004	$1,017	$1,017	$1,017	$1,017	$1,017	$1,252	$1,252	$1,252	$1,252	$1,252	$1,252	$1,252	$1,252	$1,252	$1,252
			Avoided Costs																																						
			O&M Cost at Muswellbrook WTP	$/ML	-130.21		-$5,411	-$2,329	-$1,307	-$935	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$290	-$290	-$251	-$252	-$253	-$254	-$254	-$255	-$256	-$257	-$258	-$258	-$259	-$260	-$261	-$262	-$263	-$263	-$264	-$265	-$266
			Operation Cost at Sandy Hollow WTP	$/ML	-2733.00		-$1,927	-$1,027	-$693	-$486	$0	$0	$0	$0	-$68	-$68	-$68	-$68	-$68	-$68	-$68	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74
			O&M Cost at Denman WTP	$/ML	-444.00		-$1,314	-$496	-$247	-$126	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$118	-$118	-$118	-$119	-$119	-$119	-$120	-$120	-$121	-$121	-$121
			Denman WTP filter replacements		-300.00		-$900	-$342	-$172	-$89	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	-$300	$0	$0	$0	$0	-$300	$0	$0	$0	$0	-$300
			TOTAL AVOIDED COSTS				-$9,552	-$4,194	-$2,419	-$1,657	$0	$0	$0	$0	-$68	-$68	-$68	-$68	-$68	-$68	-$358	-$361	-$322	-$325	-$324	-$325	-$326	-$326	-$327	-$328	-$746	-$490	-$451	-$453	-$454	-$755	-$456	-$457	-$458	-$460	-$761
			TOTAL PRESENT VALUE				$124,402	$54,248	$35,475	$24,627																															
			Average annual demand for Sandy Hollow						$38,093			25	25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27
			Average annual demand for Denman								249	250	251	251	252	253	254	255	255	256	257	258	259	259	260	261	262	263	263	264	265	266	267	267	268	269	270	271	271	272	273
			Average water demand for Muswellbrook								1855	1829	1835	1841	1848	1886	1892	1898	1905	1911	1917	1923	1929	1936	1942	1948	1954	1960	1967	1973	1979	1985	1991	1998	2004	2010	2016	2022	2029	2035	2041
												6																												
												1																												

Sewerage Service

ITEM	ILOS	Growth	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0	100%	0%	**Muswellbrook sewerage scheme - Effluent management**																																						
			Effluent reuse at Golf Course and balance discharged to River			1,045	$0	$0	$0	$0	$0	$0	$0	$0																												
			Reuse option 4 - Parks and sporting fields + STP + River Discharge			2,857	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0																
			Connect Racecourse and Sheppard Avenue Properties to Muswellbrook STP (2035)			2,309	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0											
2.0	100%	0%	**Denman sewerage scheme - Performance issues**																																						
			Sludge management - desludge sludge lagoons and construct drying beds (2023)			1,050	$1,050	$932	$837	$828	$0	$0	$525	$525																												
			Grit removal - upgrade inlet works (2023)			650	$650	$578	$531	$468	$0	$0	$0	$650																												
3.0	100%	0%	**Denman sewerage scheme - effluent management**																																						
			Remedial work for opportunistic reuse (2030)			900	$900	$532	$490	$382	$0	$0	$0	$0	$0	$0	$0	$0	$0	$900																					
			Remedial works for opportunistic reuse including golf course, recreation area and agriculture (2030)			1,674	$1,674	$967	$549	$441	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,674															
			Third pipe supply to Urban release areas (2035) - Not in this Scenario			2,500	$0	$0	$0	$0																															
4.0	100%	0%	**Denman sewerage scheme - unserviced areas**																																						
			Connect Grey Gum and West Denman (2040)			800	$800	$380	$221	$131	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$800										
5.0	100%	0%	**Sandy Hollow - unserviced area**																																						
			Sewering of Sandy Hollow village (2040)			3,500	$3,500	$1,661	$968	$572	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,500										
			TOTAL CAPITAL COST (Including 50% contingency, 10% SID & 10% PM & CM)				$8,574	$5,170	$3,745	$2,842																															
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.5			Maintenance Costs (Civil and mechanical)																																						
			Sludge lagoons and drying beds		0.5%		$142	$76	$51	$36	$0	$0	$0	$0	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5
			Inlet works		1.0%		$176	$94	$64	$45	$0	$0	$0	$0	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7
			Denman STP Effluent Reuse		1.0%		$268	$113	$61	$34	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17
			Denman STP Third pipe to Urban release areas		2.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Muswellbrook Effluent Reuse Scheme		1.0%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			POEO License fee for Muswellbrook STP River discharge				$355	$435	$284	$196	$0	$0	$0	$20	$20	$20	$20	$20	$24	$24	$24	$24	$24	$24	$29	$29	$29	$29	$29	$34	$34	$34	$34	$34	$40	$40	$40	$40	$40	$40	$40	$40
			O&M Cost for Sandy Hollow Sewerage scheme			$130	$1,430	$341	$270	$138	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130
			TOTAL OPERATION & MAINTENANCE COSTS				$2,670	$1,238	$759	$450	$0	$0	$0	$20	$32	$32	$32	$32	$36	$36	$36	$36	$36	$36	$41	$41	$57	$57	$57	$62	$62	$182	$182	$182	$186	$186	$186	$186	$186	$186	$186
			Avoided Costs																																						
							$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL AVOIDED COSTS				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL PRESENT VALUE				$11,444	$6,429	$4,475	$3,292																															

Muswellbrook Shire Council IWCM - Scenario 4

Water Supply Service

ITEM	ILOS %	Growth %	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0			Water Security - Muswellbrook and Denman water supply																																						
	85%	15%	Purchase additional High Security license to meet allocation during worst drought on record.	ML	635	5,000	$3,175	$2,231	$1,727	$1,347	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,175																					
2.0			Muswellbrook Water quality - during high turbidity events																																						
	100%		Stage 1 - Optimise coagulation and flocculation process including pH correction (2022)			100	$100	$96	$93	$91	$0	$100																													
	100%		Stage 2 - Blend groundwater with the water during high turbidity events (2024)			3,100	$3,150	$2,887	$2,719	$2,568		$0	$3,100	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Stage 3 - Construct a lamella clarifier (2030) and refurbish existing clarifier			6,000	$6,000	$4,216	$3,264	$2,545	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,000																					
3.0			Muswellbrook water supply - supply reliability																																						
	90%	10%	South Muswellbrook - Construct a new 375 mm main from the South Muswellbrook pumping station to the South Muswellbrook reservoir (2034)			3,600	$3,600	$2,162	$1,494	$1,043		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,600																
		100%	Construct a 5 ML reservoir in South Muswellbrook (2035)			2,500	$2,500	$1,444	$970	$658		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,500															
			Construct a new Muswellbrook WTP to end of life to meet additional capacity (2045)	22 ML/d		40,000	$40,000	$15,605	$7,895	$4,061		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,000					
4.0			Denman water supply - water quality hardness																																						
	100%		Treat hardness - Construct a new package ion exchange system for hardness removal (2022)			500	$500	$462	$437	$413		$0	$500																												
5.0			Denman water supply - high raw water turbidity events																																						
	100%		Stage 1 - Optimise coagulation and pH control (2022)			95	$95	$91	$89	$86		$95																													
	100%		Stage 2 - Commission bore water as emergency alternate source (2024)			350	$350	$311	$285	$263		$0	$0	$350																											
	100%		Stage 3 - Construct clarifier - for raw water clarification (2030)			1,800	$1,800	$1,064	$1,572	$1,468		$0	$1,800																												
			Connect Denman water supply to Muswellbrook		30 km	20,000	$0	$0	$0	$0		$0	$0	$0																											
			Construct new plant at the end of design life (2040)	2 ML/d		6,000	$6,000	$2,648	$1,699	$961	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,000										
6.0			Sandy Hollow - water quality hardness																																						
	100%		Extend the proposed Denman to Hollydeen pipeline to supply Sandy Hollow (2024) - Included in plant	150 mm	6.5 km	-	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	100%		Rechlorinate at Sandy Hollow			30	$30	$44	$41	$38	$0	$0	$0	$30																												
			TOTAL CAPITAL COST (including 30% contingency, 10% SID & 10% PM & CM)				$47,520	$34,062	$22,256	$15,551																															
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.1			Muswellbrook WTP																																						
			Raw water supply from Glenbawn dam		190,000		$3,990	$1,873	$1,120	$697	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190	$190
			Chemical and Sludge Costs		133,000	$	$2,793	$1,311	$784	$488	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133	$133
			O&M and Fixed Costs		287,000	$	$6,027	$2,829	$1,692	$1,053	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287	$287
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$434	$239	$164	$119	$0	$0	$0	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16	$16
			Maintenance of lamella clarifier (percentage of capital cost)		1.0%		$1,260	$591	$334	$220	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60	$60
2.2			Boone WTP																																						
			Variable Costs		7,100	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Fixed Costs		115,000	$	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.3			Denman Water Supply																																						
			Maintenance cost for groundwater system (percentage of capital cost)		0.5%		$47	$25	$17	$12	$0	$0	$0	$0	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2	$2
			Maintenance of clarifier (percentage of capital cost)		1.0%		$486	$272	$168	$137	$0	$0		$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
2.5			Muswellbrook distribution system																																						
			Maintenance cost - new 375 mm pipeline to South Muswellbrook (as a percent of capital cost)		0.5%		$306	$132	$73	$42	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18	$18
			Maintenance cost - new 5 ML reservoir		0.5%		$200	$84	$46	$26	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13	$13
2.5			Pipeline Denman to Sandy Hollow (operation)				$764	$411	$277	$196	$0	$0	$0	$0	$0	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26	$26
2.4			Pipeline Muswellbrook to Denman (Operation)		135,000		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.7			Maintenance Cost (Denman to Sandy Hollow Pipeline)		0.5%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.6			Maintenance Cost (Muswellbrook to Denman Pipeline)		0.5%		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL OPERATION & MAINTENANCE COSTS				$16,307	$7,756	$4,702	$2,976	$0	$0	$0	$16	$64	$64	$64	$64	$64	$64	$754	$754	$754	$754	$752	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764	$764
			Avoided Costs																																						
			O&M Cost at Muswellbrook WTP	$/ML	-390.82		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			Operation Cost at Sandy Hollow WTP	$/ML	-2733.00		-$1,927	-$1,027	-$668	-$486	$0	$0	$0	$0	-$68	-$68	-$68	-$68	-$68	-$68	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74
			O&M Cost at Denman WTP	$/ML	-444.00		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTALAVOIDED COSTS				-$1,927	-$1,027	-$668	-$486	$0	$0	$0	$0	-$68	-$68	-$68	-$68	-$68	-$68	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$71	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74	-$74
			TOTAL PRESENT VALUE				$65,554	$40,790	$26,249	$18,073																															
			Average annual demand for Sandy Hollow						$26,938			25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27
			Average annual demand for Denman								249	250	251	251	252	253	254	255	255	256	257	258	259	259	260	261	262	263	263	264	265	266	267	267	268	269	270	271	271	272	273
			Average water demand for Muswellbrook								1835	1839	1835	1841	1848	1886	1892	1898	1905	1911	1917	1923	1929	1936	1942	1948	1954	1960	1967	1973	1979	1985	1991	1998	2004	2010	2016	2022	2029	2035	2041
												6																												
												1																												

Sewerage Service

ITEM	ILOS	Growth	DESCRIPTION	[SIZE]	Qty	[UNIT]	AMT $K	PRESENT WORTH($K) 4%	7%	10%	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
1.0	100%	0%	Muswellbrook sewerage scheme - Effluent management																																						
			Reuse option 4 - Muswellbrook Golf Club + Racecourse + Industrial Area			1,046	$1,046	$967	$914	$854	$0	$0	$1,046	$0																												
			Reuse option 4 - Parks and sporting fields + STP + River Discharge			2,857	$3,491	$2,373	$1,800	$1,379	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,857	$0	$0	$0	$634																	
			Connect Racecourse and Sheppard Avenue Properties to Muswellbrook STP (2035)			2,309	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
2.0	100%	0%	Denman sewerage scheme - Performance issues																																						
			Sludge management - desludge sludge lagoons and construct drying beds (2023)			1,050	$1,050	$992	$937	$828	$0	$0	$525	$525																												
			Grit removal - upgrade inlet works (2023)			650	$650	$578	$531	$468	$0	$0	$0	$650																												
3.0	100%	0%	Denman sewerage scheme - effluent management																																						
			Remedial work for opportunistic reuse (2030)			900	$900	$632	$490	$382	$0	$0	$0	$0	$0	$0	$0	$0	$0	$900																					
			Remedial works for opportunistic reuse including golf course, recreation area and agriculture (2030)			1,674	$1,674	$967	$549	$441	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,674																
			Third pipe supply to Urban release areas (2040)			2,500	$2,500	$1,187	$691	$409	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,500										
4.0	100%	0%	Denman sewerage scheme - unserviced areas																																						
			Connect Grey Gum and West Denman (2040)			800	$800	$380	$221	$131	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$800										
5.0	100%	0%	Sandy Hollow - unserviced areas																																						
			Sewering of Sandy Hollow village (2040)			3,300	$3,300	$1,561	$966	$572	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,300										
			TOTAL CAPITAL COST (including 50% contingency, 10% SID & 10% PM & CM)				$15,611	$9,697	$7,150	$5,494																															
2.0			OPERATION AND MAINTENANCE COSTS																																						
2.5			Maintenance Costs (Civil and mechanical)																																						
			Sludge lagoons and drying beds		0.5%		$142	$76	$51	$36	$0	$0	$0	$0	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5	$5
			Inlet works		1.0%		$176	$94	$64	$45	$0	$0	$0	$0	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7	$7
			Denman STP Effluent Reuse		1.0%		$268	$113	$61	$34	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17	$17
			Denman STP Third pipe to Urban release areas		2.0%		$350	$208	$104	$53	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30
			Muswellbrook Effluent Reuse Scheme		1.0%		$994	$465	$302	$198	$0	$0	$0	$10	$10	$10	$10	$10	$10	$10	$39	$39	$39	$39	$39	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45	$45
			POEO license fee for Muswellbrook STP River discharge				$954	$341	$223	$155	$0	$0	$0	$17	$17	$17	$17	$17	$17	$17	$20	$20	$20	$20	$20	$23	$23	$23	$23	$23	$23	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30	$30
			O&M Cost for Sandy Hollow Sewerage scheme			$130	$1,430	$341	$270	$138	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130	$130
			TOTAL OPERATION & MAINTENANCE COSTS				$4,223	$1,858	$1,075	$661	$0	$0	$0	$27	$39	$39	$39	$39	$39	$39	$71	$71	$71	$71	$71	$97	$97	$97	$97	$97	$97	$264	$264	$264	$264	$264	$264	$264	$264	$264	$264	$264
			Avoided Costs																																						
							$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTALAVOIDED COSTS				$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
			TOTAL PRESENT VALUE				$19,834	$11,555	$8,226	$6,155																															

SOCIAL AND ENVIRONMENTAL ASSESSMENT OF SCENARIOS

		Objective	Key performance Targets	Weighting	Scenario 1	Scenario 2	Scenario 3	Scenario 4
TBL CATEGORY	ENVIRONMENTAL	Reduce potable water consumption by 20% on 2015/2016 baseline	Percentage of effluent reused, replacing town water supply	0.2	5	3	3	5
		Ensure the sustainability of the water resources	Reduce water losses in the system between Glenbawn dam and Hunter River intakes	0.15	5	4	4	3
		Achieve a 40% renewable energy target by 2020 based on 2015/16 baseline year data	Reduce energy consumption during operation	0.2	4	3	3	2
		Protect the health and diversity of the receiving waters	Minimises pollutants being discharged to the aquatic environment	0.2	4	4	4	4
			Reduction in volume discharging	0.1	4	3	3	2
		Reduces the waste generated	Reduces sludge generated from the water treatment plant	0.15	4	3	3	3
			(1) Total weighted environmental score	1	4.35	3.35	3.35	3.3
	SOCIAL	Maintain continuous water supply to towns	Improved security of the water supply system during extreme drought	0.3	5	4	4	4
		Contribute towards local industry and employment	Makes better use of existing infrastructure	0.1	2	5	5	5
		Protect Public Health	Compliance with Australian Drinking Water Quality Guidelines B, P & V standards	0.3	5	4	4	4
		Provide good quality water	Compliance with ADWG physical requirements and meets taste thresholds.	0.15	5	4	4	4
		Minimises non-compliance to legislation	Reduced risk of non-compiance to legislation	0.1	5	4	4	3
		Contribute towards local industry and employment	Reduced employment opportunities due to location of infrastructure in UHSC	0.05	2	3	3	5
			(2) Total weighted social score	1	4.55	4.05	4.05	4.05
			(3) Environmental and Social Scores (ESS) (3) = (1) + (2)		8.90	7.40	7.40	7.35

NPV Cost of Scenarios

	Scenario 1	Scenario 2	Scenario 3	Scenario 4
Capital Cost ($M)	97.92	106.34	99.25	82.93
NPV Capital Cost ($M)	38.21	45.78	35.17	29.39
NPV Operation and Maintenance Cost ($M) - avoided costs	5.01	0.54	4.78	5.09
(4) Total NPV	43.22	46.33	39.95	34.48
Environmental and Social Scores (ESS)	8.90	7.40	7.40	7.35
ESS/$M	0.21	0.16	0.19	0.21
Ranking	1	4	3	1

% Of Target Met	Score
<25%	1
25%-49%	2


50%-74%
3
75%-99%
4
>99%
5

Attachment A

Road Name	Number/Locator	Town	Footpath ID	Defect No	Description	Width	Length	m2
Bimbadeen Dr	Near New England Highway	Muswellbrook	FMBIMBAD010L	F009187	Cracked around sewer manhole creating a severe trip hazard	1.2	3	3.6
Brook St	97	Muswellbrook	FMBROOS050R	FD4795,	Cracks and joins (possible grind?)	1.2	28	33.6
Brook St	111	Muswellbrook	FMBROOS060R		Cracked path	1.2	6	7.2
Brook St	113	Muswellbrook	FMBROOS060R		Cracked path	1.2	2	2.4
Brook St	109a	Muswellbrook	FMBROOS060R	FD5462	Cracked path	1.2	5	6
Brook St	Cnr Sowerby St	Muswellbrook	FMBROOS040R	F28923,	A/C footpath is cracked, uneven and potholled plus concrete	3.5	10	35
King St	George St (at roundabout)	Muswellbrook	FMKINGS060R	FD5349	Temporary Repairs	1.2	4	4.8
King St	Muswellbrook High School 80m	Muswellbrook	RMKINGS040R		Cracking	1.3	4	5.2
Maitland St	15	Muswellbrook	FMMASH9010R	FD7795		1.2	1	1.2
Maitland St	25	Muswellbrook	FMMASH9010R	FD3938		1.2	3	3.6
Maitland St	38	Muswellbrook	FMMASH9030L		Street tree lifting path and kerb and gutter	1.2	4	4.8
Maitland St	38	Muswellbrook	FMMASH9030L		Cracking	1.2	1	1.2
Maitland St	39	Muswellbrook	FMMASH9020R		Electrical trench sunk - premix	0.5	3	1.5
Maitland St	41	Muswellbrook	FMMASH9020R		Join being lifted by tree root	1.3	2	2.6
Maitland St	42	Muswellbrook	FMMASH9030L	FD7793	Street tree lifting path	1.2	5	6
Maitland St	Wanaruah Land Council	Muswellbrook	FMMASH9010R			1.2	1	1.2
Palace St	48	Denman	FMPALAS030R		Temporary Repairs	1.2	2	2.4
Palace St	68	Denman	FDPALAS010R	FD0467	Cracking	1.2	8	9.6
Palace St	70	Denman	FDPALAS010R	FD0466	Cracking	1.2	8	9.6
Palace St	70	Denman	FDPALAS010R	FD0466	Cracking	1.2	8	9.6
Palace St	70	Denman	FDPALAS010R	FD0466	Cracking	1.2	2	2.4
Palace St	Cnr Turtle	Denman	FDPALAS030R	FD7724	Cracks - fill with premix	2	2	4
Paxton St	23	Denman	FDPAXTS040L	FD8083	Street tree lifting path	2	2	4
Paxton St	40	Denman	FDPAXTS040R		Cracking	2	4	8
Paxton St	56	Denman	FDPAXTS020R		Cracks	1.2	4	4.8
Paxton St	58	Denman	FDPAXTS020R	FD7961	Cracks	1.2	4	4.8
Paxton St	60	Denman	FDPAXTS020R	FD8841	Trench	1.2	5	6
Paxton St	62	Denman	FDPAXTS020R	FD7958	Cracks	1.2	4	4.8
Paxton St	33a	Denman	FDPAXTS030L	FD8082	Crack	2	7	14
Paxton St	Carpark	Denman	FDPAXTS040L	FD0862	Street tree lifting path - tree has been removed	2	6	12
Paxton St	Cnr Crinoline (11 Crinoline)	Denman	FDPAXTS030L		Crack	1	1	1
Paxton St	Dapkos	Denman	FDPAXTS040R	FD0865	Cracking	1.5	2	3
Paxton St	Dapkos	Denman	FDPAXTS040R		Cracking	2	2	4
Paxton St	Dapkos	Denman	FDPAXTS040R		Cracking	2	6	12
Paxton St	Dapkos/40	Denman	FDPAXTS040R		Cracking	2	6	12
Paxton St	Denman Public School	Denman	FDPAXTS020R	FD8320	School Crossing	2	18	36
Paxton St	Denman Public School	Denman	FDPAXTS020R	FD0882	Cracks	1.2	4	4.8
Paxton St	Denman Public School	Denman	FDPAXTS020R		Cracks	1.2	4	4.8
Paxton St	Denman Public School	Denman	FDPAXTS020R		Cracks	1.2	5	6
Queen-Burgundy path	75m from Queen St	Muswellbrook	FMQUEES911P		Cracked	2	25	50
Queen-Cousins path	150m from Queen St	Muswellbrook	FMQUEES910P		Cracked	2	60	120
Queen-Cousins path	30m from Queen St	Muswellbrook	FMQUEES910P		Cracked	2	30	60
Queen-Cousins path	60m from Queen St	Muswellbrook	FMQUEES910P		Cracked	2	6	12
Queen-Cousins path	Between 162 & 164	Muswellbrook	FMQUEES910P		Cracked	2	10	20
St Heliers St	5a	Muswellbrook	FMSTHES010R	FD5079	Damaged footpath	1.2	8	9.6
Sydney St	Kins Garden Chinese Restaurant	Muswellbrook	FMSYDNS020R		Soft fall is uneven due to tree roots - replace	2	4	8

Virginia St	Arbor Park	Denman	FDVIRGS950P		Cracks	1.2	2	2.4
King St	High School Bus Stop	Muswellbrook	FMKINGS040R		Join - has been premixed	1.2	2	2.4
Gamay Cl	Path from Gamay to Hermitage	Muswellbrook	FMGAMAC910P		Replace cracked path	1.2	56	67.2
Maitland St	*Wilder to Gyarran*	*Muswellbrook*	*FMMASH9030L*		*Whole length is old concrete, replace length rather than just*	*1.2*	*110*	*132*
Market St	41 (Bel Canto)	Muswellbrook	FMMARKS020L		Raised footpath - has been filled with asphalt	1.2	3	3.6
Maitland St	Showground - opp 102	Muswellbrook	FMMASH9070R		Previously ground (replace rather than regrind join)	1	7	7
Maitland St	Showground - opp Squash Club	Muswellbrook	FMMASH9070R		Previously ground (replace rather than regrind join)	2	2	4
Bimbadeen Dr	51	Muswellbrook			Cracking	1.2	4	4.8
Brook St	105-103	Muswellbrook	FMBROOS060R		Cracked and damaged	1.2	10	12
Crinoline St	13	Denman	FDCRINOS010R		A/C replacement	1.2	0.5	0.6
Crinoline St	27	Denman	FDCRINOS010R		Trench (has been filled with a/c)	1.2	1	1.2
Crinoline St	3\5	Denman	FDCRINOS020R		Joins (tree lifting - trip site)	1.2	5	6
Day St	Cnr Henry Danger Dr	Muswellbrook			Cracking	1.2	8	9.6
Day St	Cnr Henry Danger Dr	Muswellbrook			Cracking	1.2	2	2.4
King St	George St (at roundabout)	Muswellbrook	FMKINGS060R		Around telstra pit (sunk)	1.2	1	1.2
Maitland St	Newsagency/Pizza	Muswellbrook				1.2	2	2.4
Maitland St	Cnr Lorne	Muswellbrook		FD3984	Join - premix	1.2	2	2.4
Maitland St	25	Muswellbrook				1.2	2	2.4
Ogilvie St	Bridge near Pool	Denman			Join	1.2	2	2.4
Ogilvie St	45 (Den Dist Retirement Cntr)	Denman	FDOGILS020R		Cracked	2.8	20	56
Osborn Ave	Osborn Bus Service	Muswellbrook	FMOSBOA010L		Join - has been premixed	2	2	4
Palace St	44	Denman	FDPALAS030R	FD0891	Cracks	1.2	2	2.4
Palace St	44	Denman	FDPALAS030R	FD0891	Cracks	1.2	7	8.4
Palace St	44	Denman	FDPALAS030R	FD0891	Cracks	1.2	2	2.4
Palace St	Royal Hotel Property	Denman			Cracking	1.2	4	4.8
Palace St	Royal Hotel Property	Denman			Cracking	1.2	1	1.2
Wanaruah Cct	17	Muswellbrook			Cracking	1.2	2	2.4
Wanaruah Cct	21	Muswellbrook			Cracking	1.2	2	2.4
Wanaruah Cct	Cnr Henry Danger Dr	Muswellbrook			Cracking	1.2	8	9.6
Dalwood Pl	Park near drain	Muswellbrook	FMDALWP910		Join next to stormwater grate (rear 17)	1.2	1	1.2
Maitland St	*Lorne Street to Francis Street*	*Muswellbrook*	*FMMASH9020R*		*Concrete path in poor condition, replace length rather than just*	*1.4*	*90*	*126*
Maitland St	*Sydney Street to Lorne Street*	*Muswellbrook*	*FMMASH9010R*		*Concrete path in poor condition, replace length rather than just*	*1.4*	*100*	*140*
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	5	6
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	6	7.2
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	1	1.2
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	2	2.4
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	2.5	3
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	7	8.4
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	1	1.2
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	6	7.2
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	2	2.4
Arbor Park	Arbor Park	Denman	FDVIRGS950P		Cracked	1.2	10	12
Adams St	1 Skellatar Stock Route	Muswellbrook	FMADAMS010R		Cracked path - has some temp repairs - Reinspected 1/5/14 - crack	3	2	6
Bridge St	Muscle Creek Bridge	Muswellbrook	FMBRIDS010L	FD0929	Replace uneven and cracked AC footpath	1.2	45	54
Bridge St	Muscle Creek Bridge	Muswellbrook	FMBRIDS010L	FD0929	Replace uneven and cracked AC footpath	2.6	54	140.4
Queen-Burgundy path	40 m from Burgundy	Muswellbrook	FMQUEES911P		Cracked	2	3	6
Queen-Burgundy path	60(?) m from Burgundy	Muswellbrook	FMQUEES910P		Cracking	2	3	6
Queen-Burgundy path	90(?) m from Burgundy	Muswellbrook	FMQUEES910P		Cracking	2	35	70

Virginia St	21	Denman	FDVIRGS070L			1.2	2	2.4
Virginia St	27	Denman	FDVIRGS070L			1.2	2	2.4
Virginia St	29	Denman				1.2	2	2.4
Virginia St	21-23	Denman	FDVIRGS070L			1.2	20	24
Virginia St	56 Ogilvie St	Denman	FDVIRGS040L	FD8089	Cracks - has been ground/filled	2	6	12
Lorne Street	Bowman Park	Muswellbrook			Cracks several locations	2	20	40
Dolahenty St	Cnr Victoria St	Muswellbrook	FMDOLAS010L		Cracked and A/C portion washed away (5/14)	1.4	50	70
Maitland St	Tafe	Muswellbrook			Lifted footpath - street tree	1.3	2	2.6
Maitland St	Tafe	Muswellbrook			Cracks	1.3	5	6.5
Victoria St	Carl to Dolahenty	Muswellbrook	FMVICTS010L	FD4819	AC footpath is cracked, uneven and potholled. The length of Victoria	1.4	50	70

Maitland St	opp St Andrews Place	Muswellbrook			Filled join	2	3	6
Maitland St	Opp Pirtek	Muswellbrook			Filled join	2	3	6
Maitland St	opp Warren Ward Refrigeration	Muswellbrook			Filled join	2	3	6
Bimbadeen Dr	16	Muswellbrook			Cracking / settled	1.2	2	2.4
Bimbadeen Dr	18	Muswellbrook			Cracking / settled	1.2	4	4.8
Bimbadeen Dr	22	Muswellbrook			Cracking / settled	1.2	4	4.8
Bimbadeen Dr	24	Muswellbrook			Cracking / settled	1.2	4	4.8
Bimbadeen Dr	24/26	Muswellbrook			Cracking / settled	1.2	3	3.6
Bimbadeen Dr	12	Muswellbrook			Cracking / settled	1.2	10.5	12.6
Bimbadeen Dr	10	Muswellbrook			Cracking / settled	1.2	5	6
Bimbadeen Dr	8	Muswellbrook			Cracking / settled	1.2	8	9.6
Bimbadeen Dr	4	Muswellbrook			Cracking / settled	1.2	4	4.8
Bimbadeen Dr	2	Muswellbrook			Cracking / settled	1.2	6	7.2
Almond St	2	Denman		515004	Install section of footpath previously not constructed by developer	2	7	14

Sowerby St	Old School	Muswellbrook	FMSOWES060R		Cracks/join	1.2	12.5	15
Brook St	98	Muswellbrook	FMBROOS050L		Join	1.2	2.5	3
Brook St	94	Muswellbrook	FMBROOS050L		Join	1.2	1	1.2
Bridge St	202	Muswellbrook				1.2	2.5	3
Bridge St	Beta Electrical	Muswellbrook			Filled join	1.2	3.5	4.2
Osborn Ave	Osborn Bus	Muswellbrook			Filled join	2	5	10
Osborn Ave	Muswellbrook South Primary School	Muswellbrook				2	10	20
Virginia St	31	Denman	FDVIRGS070L	FD8122	Crack	1.2	19	22.8
Virginia St	29	Denman	FDVIRGS070L		Crack and Join	1.2	2	2.4
Virginia St	49	Denman	FDVIRGS060L		Crack	1.2	2	2.4
Virginia St	53	Denman	FDVIRGS060L		Crack	1.2	17	20.4
Virginia St	17 Turtle	Denman	FDVIRGS060L		Crack - already filled	1.2	6	7.2
Virginia St	65/67	Denman	FDVIRGS060L		Street tree lifting (already filled)	1.2	5.2	6.24
Virginia St	77/75	Denman			Street tree	1.2	10.7	12.84
Virginia St	75	Denman				1.2	7.5	9
Virginia St	89	Denman	FDVIRGS050L			1.2	12.6	15.12
Lorne St	25 Maitland St	Muswellbrook			Tree removed some time ago, removed a piece of footpath	1.2	3	3.6
Belmore St	10	Muswellbrook			Cracking	1.2	4.5	5.4
Belmore St	2	Muswellbrook			Cracking	1.2	5.8	6.96
Wanaruah Cct	1	Muswellbrook				1.2	1.7	2.04
Wanaruah Cct	11	Muswellbrook				1.2	5	6
Wanaruah Cct	11	Muswellbrook				1.2	6	7.2
Wanaruah Cct	9	Muswellbrook				1.2	6.9	8.28
Wanaruah Cct	7	Muswellbrook				1.2	2.5	3

Wanaruah Cct	5	Muswellbrook				1.2	3	3.6
Wanaruah Cct	5	Muswellbrook				1.2	4	4.8
Wanaruah Cct	19	Muswellbrook			Cracking	1.2	11	13.2
Wanaruah Cct	17	Muswellbrook				1.2	6	7.2
Wanaruah Cct	15\13	Muswellbrook				1.2	6	7.2
Henry Dangar Drive	4	Muswellbrook			Tree lifting slab	1.2	4	4.8
Henry Dangar Drive	6	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	8	9.6
Henry Dangar Drive	8 (x2)	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	3	3.6
Henry Dangar Drive	10	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	3	3.6
Henry Dangar Drive	12	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	8	9.6
Henry Dangar Drive	20 (x2)	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	4	4.8
Henry Dangar Drive	24	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	3	3.6
Henry Dangar Drive	18	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	2	2.4
Henry Dangar Drive	14	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	2	2.4
Henry Dangar Drive	22	Muswellbrook			Tree lifting slab causing trip hazard - has been premixed	1.2	7	8.4
Henry Dangar Drive	17	Muswellbrook			Cracking	1.2	5	6
Henry Dangar Drive	9	Muswellbrook				1.2	8	9.6
Henry Dangar Drive	5	Muswellbrook				1.2	4	4.8
Henry Dangar Drive	3	Muswellbrook			Street tree	1.2	6	7.2
Henry Dangar Drive	1	Muswellbrook			Street tree	1.2	5	6
Verdelho Reserve	Between Chablis and Shiraz	Muswellbrook			Collapsed / cracked path	2	39	78
Mussel St	5	Muswellbrook			Street tree	1.2	9	10.8
Mussel St	7	Muswellbrook				1.2	16	19.2
Mussel St	9	Muswellbrook			Street tree	1.2	5	6
Mussel St	9	Muswellbrook			Street tree	1.2	12	14.4
Mussel St	13	Muswellbrook				1.2	10	12
Mussel St	13\15	Muswellbrook			Street tree	1.2	5	6
Mussel St	17	Muswellbrook			Street tree	1.2	7	8.4
Skellatar Stock Route	1	Muswellbrook	FMSTOCR020L	FD3454	Various locations - cracks	2	40	80
Skellatar Stock Route	31	Muswellbrook			Cracking	2	5	10
Skellatar Stock Route	3	Muswellbrook			Sunken slab	2	3	6
Skellatar Stock Route	29	Muswellbrook				2	9	18
Skellatar Stock Route	Near St James Entrance Driveway	Muswellbrook			Cracking	2	10	20
Palace St	40	Denman	FDPALAS030R	FD0894	Cracks - has been ground	1.2	8	9.6
Palace St	Parish Hall	Denman			Cracking	1.2	20	24
Palace St	41	Denman				1.2	6	7.2
Palace St	41	Denman			Cracking	2	6	12
Palace St	Bowling Club	Denman	FDPALAS030R	FD8902	Cracks	1.2	5	6
Crinoline St	5	Denman			Street tree	1.2	2	2.4
Turtle St	12	Denman	FDTURTS010L	FD0154	Crack	1.2	6	7.2
Turtle St	26	Denman	FDTURTS010L		Street tree	1.2	8	9.6
Paxton St	31	Denman	FDPAXTS030L		Tree lifting slab	2	6	12
Paxton St	Cnr Crinoline (11 Crinoline)	Denman	FDPAXTS030L		Crack - has been filled with premix (2 locations)	2	5	10
Paxton St	Cnr Crinoline (22 Crinoline)	Denman				2	2	4
Denman Wetland	next to 57 Virginia	Denman	FDDENWL910P-01		Path subsiding	2	15	30
Brook St	115	Muswellbrook	FMBROOS060L		Trees have been removed - footpath needs replacing.	1.4	20	28
Brook St	80	Muswellbrook			Cracks, joins	1.2	42	50.4

Clendinning St	School Gate (near bins)	Muswellbrook			Join	1.2	10	12
Palace St	41\43	Denman			Possibly Heritage footpath -	2	30	60
Turtle St	22 Paxton St	Denman			Near driveway	1.2	16	19.2
Virginia St	56 Ogilvie	Denman			Street tree with cracking	2	16	32
Paxton St	54	Denman	FDPAXTS020R		Street tree	1.2	2	2.4
Paxton St	42b	Denman	FDPAXTS020R		Tree lifting slab	2	7	14
Arbor Park	Shelter to new path	Denman			Cracking	1.2	35	42
Maitland St	4 Maitland Street - Lorne Street	Muswellbrook			Craked, uneven, fixed with coldmixed	1.2	150	180
Bell Street	10	Muswellbrook			join, street tree	2.5	5	12.5
Bell Street	12	Muswellbrook			join, street tree	2.5	5	12.5
Bell Street	Near pedestrian gate Olympic	Muswellbrook	FMBELLS030L	FD4587	Cracks	1	10	10
Bell Street	4\12	Muswellbrook			various locations - join, street tree	2.5	30	75
Bell Street	Muscle Creek Bridge	Muswellbrook			Post was knocked down some time ago	2	5	10
Brook St	St Albans Anglican Church	Muswellbrook	FMBROOS010L		A/C footpath undulating	5.5	50	275
Bloodwood Rd	17	Muswellbrook			Crack/ using for driveway	1.2	3	3.6
Tierney St	3	Muswellbrook			Cracked	1.2	2	2.4
Finnigan Cres	3	Muswellbrook			Trench	2	3	6
Bimbadeen Dr	1c	Muswellbrook			Service Valve reinstatement/ no continuing footpath	1.2	4	4.8
Wanaruah Cct	17	Muswellbrook				1.2	3	3.6
Wanaruah Cct	19	Muswellbrook			3 x street trees	1.2	10	12
Brook St	Between Carpark Entrance and Caltex	Muswellbrook			Pavers constantly being run over and now cracked and depressed -	5	5	25
King St	Muswellbrook High School	Muswellbrook			Cracking and weeds	4	85	340
King St	Cnr Clendinning (High School)	Muswellbrook			Replace AC surface at the extension of the footpath at corner	1.5	5	7.5
Brook St	Path (George St)	Muswellbrook			Connection from path to pram ramp cut	1.2	5	6
King St	High School path	Muswellbrook			Cracking	1.2	18	21.6
King St	High School Bus Stop	Muswellbrook			Cracking and weeds - sealed surface	3	200	600
King St	Muswellbrook High School	Muswellbrook			Cracking	3	1.2	3.6
Maitland St	Servo Cnr Sydney St	Muswellbrook			2 x areas of heavy cracking and failure	5	30	150
Hunter Park	Jersey to Dangar	Muswellbrook			Join	1.2	15	18
Brook Park	Behind 17 Dalwood Pl	Muswellbrook			Severe step next to storm water drain	1.2	20	24
King St	7	Muswellbrook			Join - has been filled	1.2	18	21.6
Bridge St	path from View Place	Muswellbrook			Cracked and lifting path	1.2	14	16.8
Casuarina Cl	12 Casuarina	Muswellbrook	FMBROOS050R		Cracked	2	10	20
Northerly Cl	6	Muswellbrook			Crack - footpath raised	1.2	15	18
Skellatar Stock Route	Various locations	Muswellbrook			Cracking various locations	1.2	60	72
Highbrook Park	Various locations	Muswellbrook			Cracked	1.2	20	24
Brentwood St	9	Muswellbrook			Join - has been filled	3	5	15
Denman Wetland	1951 (Jock Brown)	Denman			Cracking	2	6	12
Denman Wetland	1963 (Richard Le brocq)	Denman			Cracking	2	6	12
Denman Wetland	1971 (Gillian Garland)	Denman			Cracking	2	10	20
Skellatar Stock Route	Rocky Road	Muswellbrook			AC footpath cracks are widening. The AC is lifting at the join of the	2	5	10
Hunter Park	Dangar to Wollombi cross path	Muswellbrook			Various locations joins	2	20	40
Lorne St	Bowman Park path	Muswellbrook			Pram Ramp	2	12	24
McGregor St	3	Muswellbrook				1.2	5	6
McGregor St	1	Muswellbrook				1.2	5	6
Belmore St	6	Muswellbrook	FMBELMS020R		Cracking	1.2	4	4.8
Belmore St	8	Muswellbrook			Cracking	1.2	6	7.2
Sydney St	Matildas - subject to roadhouse	Muswellbrook	FMSYDNS010L	FD8853	A/C footpath is cracked, uneven and potholled (water main?)	5.5	15	82.5
Black St	2	Muswellbrook			Cracking	1.2	3	3.6
Bloodwood Rd	17	Muswellbrook				1.2	6	7.2

Bridge St	Beta	Muswellbrook				1.2	6	7.2
Brook St	99	Muswellbrook			Crack	1.2	2	2.4
Brook St	98	Muswellbrook			Trench	1.2	2	2.4
Brook St	87	Muswellbrook				1.2	20	24
Brook St	82	Muswellbrook			Crack	1.2	4	4.8
Casuarina Cl	Path to Mbk Fair	Muswellbrook			Cracked	2	8	16
Crinoline St	3	Denman	FDCRINOS020R		2 X 10m sites	1.2	20	24
Day St	Opp 5	Muswellbrook			Cracking	1.2	3	3.6
Ogilvie St	NRMA	Denman			Extensively cracked path	2	15	30
Ogilvie St	Corner Virginia (56 Ogilvie)	Denman				2	2	4
Fitzgerald Park	Various locations	Muswellbrook			Cracked edges	10	2	20
Hill St	Marketplace	Muswellbrook	FMHILLS090R	FD1467		1.2	3	3.6
Hill St	*Bridge to Sowerby St*	*Muswellbrook*	*FMHILLS090R*		*Various locations - cracks and delamination*	*1.2*	*180*	*216*
Hill St	124	Muswellbrook	FMHILLS070L		Street tree	1.2	5	6
Hunter Park	Jersey to Dangar	Muswellbrook			Joins	1.2	3	3.6
Ogilvie St	Indoor Sports Centre	Denman			Slab needs replacement - shrub has lifted	3	5	15
Ogilvie St	Indoor Sports Centre	Denman			Crack	1.2	7	8.4
Ogilvie St	Dapkos	Denman	FMOGILS020R		Cracking	2.5	3	7.5
Wanaruah Cct	23	Muswellbrook				1.2	3	3.6
Maitland St	between Weemala and Bimbadeen	Muswellbrook			2 x filled trenches	2	10	20
Maitland St	Lorne Street - Remington	Muswellbrook			Some cracks and trenches - match new path	1.2	75	90
Maitland St	Opp Reece/Supercheap	Muswellbrook			Grinded edges (Street tree)	2	10	20
Maitland St	Opp Reece	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Opp Reece	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Opp Reece	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Opp Pirtek	Muswellbrook			New Slab edged grinded (Street tree)	2	3	6
Maitland St	Opp Pirtek	Muswellbrook			New Slab edged grinded (Street tree)	2	6	12
Maitland St	Opp Pirtek	Muswellbrook			Grinded edges (Street tree)	2	7	14
Maitland St	Opp Caltex	Muswellbrook			Grinded edges (Street tree)	2	10	20
Maitland St	Opp Caltex	Muswellbrook			Grinded edges (Street tree)	2	3	6
Maitland St	Opp Caltex	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Opp Caltex	Muswellbrook			Grinded edges (Street tree)	2	3	6
Maitland St	Opp St Andrews	Muswellbrook			New Slab edged grinded (Street tree)	2	5	10
Maitland St	Opp St Andrews	Muswellbrook			Grinded edges (Street tree)	2	10	20
Maitland St	Opp 78	Muswellbrook			Grinded edges (Street tree)	2	7	14
Maitland St	Opp 76	Muswellbrook			Grinded edges (Street tree)	2	7	14
Maitland St	Crossfit	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Crossfit	Muswellbrook			Grinded edges (Street tree)	2	6	12
Maitland St	Crossfit	Muswellbrook			Grinded edges (Street tree)	2	3	6
Maitland St	Crossfit	Muswellbrook			Grinded edges (Street tree)	2	16	32
Maitland St	Crossfit	Muswellbrook			Grinded edges (Street tree)	2	8	16
Mill St	Length	Muswellbrook	FMMILLS010R		Footpath is cracked and in poor condition, replacement for the length	1.2	80	96
Mill St	Cnr Sydney St	Muswellbrook			Cracking various locations	1.2	36	43.2
Ogilvie St	Cnr Virginia St	Denman	FDOGILS020L		Sinking temp repairs done	2	2	4
Ogilvie St	Dapkos	Denman	FDOGILS020R		Trench	2.8	0.5	1.4
Ogilvie St	Dapkos	Denman	FDOGILS020R		Trench	2.8	0.5	1.4
Ogilvie St	Shell Garage	Denman	FDOGILS040L	F009016	Small Pit	0.5	1	0.5
Palace St	36	Denman			street tree	1.2	3	3.6
Paxton St	Cnr Ogilvie (Fernandes)	Denman			Joins and cracks	2	12	24
Paxton St	48	Denman	FDPAXTS020R		Trench	2	2	4

Paxton St	40	Denman	FDPAXTS040L			2	5	10
Paxton St	42	Denman	FDPAXTS020R		Around street tree	0.5	4	2
Paxton St	60	Denman	FDPAXTS020R		Crack	1.2	1	1.2
Paxton St	62	Denman			two locations	1.2	10	12
Paxton St	22	Denman	FDPAXTS050R		Trench	1.2	2	2.4
Paxton St	34 Ogilvie St (Fernandez)	Denman	FDPAXTS040L			2	6	12
Paxton St	34 Ogilvie St (Fernandez)	Denman	FDPAXTS040L			2	4	8
Paxton St	34 Ogilvie St (Fernandez)	Denman	FDPAXTS050R			2	10	20
Paxton St	Carpark	Denman	FDPAXTS040L			2	2	4
Queen St	133	Muswellbrook			Footpath rising	1.2	3	3.6
Roger St	Primary School (main gates)	Muswellbrook	FMROGES010L		Cracking	1.3	2	2.6
Roger St	Primary School (near 11)	Muswellbrook	FMROGES010L		Cracking	1.3	4	5.2
Roger St	*Koombahla to Primary School*	*Muswellbrook*	*FMROGES010L*		*Poor quality concrete at school*	*1.3*	*137*	*178.1*
Rutherford Rd	Toyota Dealership	Muswellbrook	FMRUTHR010L	FD3565	Replace uneven and cracked AC footpath	4	16	64
Sydney St	*Cnr Bridge to 29*	*Muswellbrook*	*FMSYSH9020R*		*From corner Bridge St across full length of Workers Club is*	*5*	*100*	*500*
Sydney St	1	Muswellbrook	FMSYSH9020R	FD1552	Cracking	1	4	4
Sydney St	7	Muswellbrook	FMSYSH9020R		Cracking	1.5	10	15
Sydney St	122	Muswellbrook			Cracking	1.2	7	8.4
Sydney St	Workers Club	Muswellbrook	FMSYSH9020R		Cracking	1.5	2	3
Sydney St	Workers Club	Muswellbrook	FMSYSH9020R		Cracking	1.2	4	4.8
Sydney St	Workers Club	Muswellbrook	FMSYSH9020R			1.2	10	12
Sydney St	Upper Hunter Fire Protection	Muswellbrook				1.2	3	3.6
Turtle St	12	Denman				1.2	2	2.4
Turtle St	12	Denman				1.2	4	4.8
Turtle St	20	Denman	FDTURTS010L		Cracking	1.2	3	3.6
Turtle St	18	Denman			Trench	1.2	2	2.4
Virginia St	45	Denman	FDVIRGS070L		Crack	1.2	5	6
Virginia St	43/45	Denman	FDVIRGS070L		Premix join	1.2	2	2.4
Virginia St	55	Denman	FDVIRGS060L		Crack	1.2	8	9.6
Wanaruah Cct	9	Muswellbrook			Next to Telstra pit - sunk	1.2	3	3.6
William St	Police Station	Muswellbrook	FMWILLS030L		Cracking various locations	1.2	15	18
William St	Shamrock Hotel	Muswellbrook	FMWILLS030L	FD4723	AC footpath is cracked, uneven and potholled	3	19	57
Sydney St	Muswellbrook Nissan	Muswellbrook			Includes pram ramp - various locations	2	15	30
Sydney St	122	Muswellbrook				1.2	6	7.2
Sydney St	114	Muswellbrook			Cracking	1.2	6	7.2
Sydney St	114	Muswellbrook			Trench	1.2	3	3.6
Verdelho Reserve	Various locations	Muswellbrook			Cracking - minimum of 10 locations along length	2	20	40
Anzac Pde	Path to Tindale	Muswellbrook			Cracking	1.2	2	2.4
Arbor Park	Path from Virginia St (near bridge)	Denman			Cracks and joins	1.2	6	7.2
Bell Street	Olympic Park driveway	Muswellbrook	st		join	2	5	10
Bell Street	Olympic Park driveway	Muswellbrook			join	2	5	10
Bell Street	cnr Victoria	Muswellbrook			join	2	5	10
Belmore St	4	Muswellbrook	st		Cracking	1.2	3	3.6
Belmore St	10	Muswellbrook			Cracking	1.2	6	7.2
Belmore St	12	Muswellbrook			cracking	1.2	3	3.6
Belmore St	Opp 21	Muswellbrook			Cracking	1.2	6	7.2
Belmore St	Opp 23	Muswellbrook			Cracking	1.2	2	2.4
Bimbadeen Dr	1c	Muswellbrook			cracking	1.2	3	3.6
Bimbadeen Dr	26	Muswellbrook				1.2	3	3.6
Bimbadeen Dr	32	Muswellbrook			cracking	1.2	3	3.6

Bimbadeen Dr	39	Muswellbrook			Join	1.2	3	3.6
Bimbadeen Dr	45	Muswellbrook			Street tree (temp fill needed)	1.2	5	6
Bimbadeen Dr	45	Muswellbrook			Pram ramp	1.2	5	6
Bimbadeen Dr	45	Muswellbrook			Join	1.2	3	3.6
Bimbadeen Dr	47	Muswellbrook			Street tree (temp fill needed)	1.2	6	7.2
Bimbadeen Dr	49	Muswellbrook			Join	1.2	3	3.6
Bimbadeen Dr	51	Muswellbrook			Join	1.2	3	3.6
Bimbadeen Dr	53	Muswellbrook			Join x 2	1.2	5	6
Bimbadeen Dr	59	Muswellbrook			Crack	1.2	6	7.2
Bimbadeen Dr	61	Muswellbrook			join	1.2	5	6
Bimbadeen Dr	26	Muswellbrook				1.2	5	6
Bimbadeen Dr	26	Muswellbrook			Crack	1.2	2	2.4
Black St	10	Muswellbrook			Join	1.2	2	2.4
Bloodwood Rd	31	Muswellbrook			Grinding done	1.2	2	2.4
Bloodwood Rd	29	Muswellbrook			Grinding done	1.2	5	6
Bloodwood Rd	29	Muswellbrook			Crack	1.2	5	6
Bloodwood Rd	25	Muswellbrook			Crack	1.2	3	3.6
Bloodwood Rd	11	Muswellbrook			Trench	1.2	3	3.6
Brentwood St	15	Muswellbrook				2	3	6
Brook Park	Various locatons	Muswellbrook			Joins	1.2	4	4.8
Brook St	95	Muswellbrook		FD8497	Cracks	1.2	2	2.4
Brook St	98	Muswellbrook	FMBROOS050R	FD7647	Cracked path + pram ramp	1.2	20	24
Brook St	121	Muswellbrook			Trench	1.2	3	3.6
Brook St	114	Muswellbrook			Crack	1.2	3	3.6
Brook St	108	Muswellbrook				1.2	2	2.4
Brook St	94	Muswellbrook			Crack	1.2	3	3.6
Brook St	86	Muswellbrook				1.2	3	3.6
Brook St	79/81	Muswellbrook				1.2	30	36
Brook St	95	Muswellbrook			Crack	1.2	22	26.4
Casuarina Cl	12 Casuarina	Muswellbrook			Cracked	2	15	30
Crinoline St	23\25	Denman	FDCRINOS010R			1.2	2	2.4
Crinoline St	25\27	Denman			Trench	1.2	3	3.6
Crinoline St	19\17	Denman			Trench	1.5	3	4.5
Crinoline St	13\15	Denman	FDCRINOS010R		Trench	1.2	2	2.4
Crinoline St	RSL	Denman			Trench	1.2	4	4.8
Crinoline St	7	Denman				1.2	4	4.8
Crinoline St	9	Denman				1.2	2	2.4
Crinoline St	9	Denman				1.2	2	2.4
Dangar Pl	Path to Wollombi Road	Muswellbrook			Cracking	2	2	4
Day St	opp 1/3	Muswellbrook			Cracking	1.2	6	7.2
Day St	6	Muswellbrook			Cracking	1.2	6	7.2
Denman Wetland	1953 (Gary Day)	Denman			Cracking	2	2	4
Denman Wetland	1973 (Shaun Martin)	Denman			Cracking	2	2	4
Denman Wetland	At creek crossing (Path to Virginia)	Denman			Poor Repair	2	6	12
Denman Wetland	1995 (Mitchell Collins)	Denman			Cracking	2	2	4
Denman Wetland	1998 (Josh Smith)	Denman			Cracking	2	2	4
Finnigan Cres	5	Muswellbrook			Cracking	1.2	5	6
Finnigan Cres	13	Muswellbrook			Cracking	1.2	10	12
Finnigan Cres	27	Muswellbrook			Cracking	1.2	2	2.4
Finnigan Cres	39	Muswellbrook				1.2	2	2.4

Fitzgerald Park	Various locations	Muswellbrook			Cracked edges	16	2	32
Glenbawn Place	path to Tobruk Ave	Muswellbrook			Join - has been filled with premix x 3	2	9	18
Henry Dangar Dr	Roundabout (Bimbadeen/Day)	Muswellbrook			Cracking	1.2	6	7.2
Henry Dangar Dr	21	Muswellbrook				1.2	0.5	0.6
Hunter Park	Side no 5 Jersey	Muswellbrook			Join - premix	1.2	2	2.4
Hunter Park	Jersey to Dangar	Muswellbrook			Joins various locations	1.2	5	6
Hunter Park	Jersey to Wollombi	Muswellbrook			Various locations	1.2	15	18
Ironbark Road	1 Plashett (house boundary)	Muswellbrook			Has been filled with premix	2	5	10
Ironbark Road	64 (w of driveway)	Muswellbrook			Chip - not yet filled with premix	2	3	6
Ironbark Road	64 (e of driveway)	Muswellbrook			Chip - filled with premix	2	3	6
Ironbark Road	114	Muswellbrook			2 x badly restored trenches	2	3	6
Ironbark Road	68/70	Muswellbrook			Badly restored trench - grinding has been done	2	4	8
John Howe Cct	1	Muswellbrook				1.2	3	3.6
John Howe Cct	13	Muswellbrook			Cracking	1.2	2	2.4
John Howe Cct	30 (vacant block)	Muswellbrook			Cracking	1.2	4	4.8
John Howe Cct	2	Muswellbrook			Join x 2	1.2	4	4.8
John Howe Cct	5	Muswellbrook				1.2	2	2.4
John Howe Cct	11	Muswellbrook				1.2	2	2.4
John Howe Cct	17	Muswellbrook			Join	1.2	5	6
John Howe Cct	30	Muswellbrook			Join	1.2	2	2.4
John Howe Cct	34	Muswellbrook			Cracks	1.2	5	6
John Howe Cct	36	Muswellbrook			Cracks	1.2	2	2.4
John Howe Cct	61 Bimbadeen	Muswellbrook			Street tree	1.2	3	3.6
John Howe Cct	28	Muswellbrook			Street tree	1.2	2	2.4
King St	3	Muswellbrook			Cracking	1.2	2	2.4
King St	Muswellbrook High School	Muswellbrook			Cracking - various locations	1.2	11	13.2
Kinji Reserve	Calgaroo entrance	Muswellbrook			Join	2	10	20
Kinji Reserve	Rear 33 Calgaroo	Muswellbrook			Join	2	5	10
Loftberg Court	2	Muswellbrook				1.2	2	2.4
Lou Fisher Pl	4	Muswellbrook			2 x trenches (Have been ground) and 1 join	1.2	5	6
Maitland St	75	Muswellbrook			Cracking	1.2	1.2	1.44
Maitland St	75	Muswellbrook	FMMASH9050R		Cracking	1.2	1.2	1.44
Maitland St	75	Muswellbrook	FMMASH9050R		Cracking	1.2	1.2	1.44
Maitland St	Cnr Francis Street	Muswellbrook	FMMASH9050R		Poorly restored slab	1.3	3	3.9
Maitland St	*Thompson St to TAFE*	*Muswellbrook*			*Cracked and worn*	*1.2*	*130*	*156*
McGregor St	17	Muswellbrook	FMMARKS020L			1.2	3	3.6
McGregor St	15	Muswellbrook				1.2	2	2.4
McGregor St	11	Muswellbrook				1.2	5	6
McGregor St	5	Muswellbrook				1.2	3	3.6
Ogilvie St	43	Denman		F009084	Asphalt around Telstra Pit	1	2	2
Ogilvie St	Dapkos	Denman	FDOGILS020R	F009027	Cracks	3	15	45
Ogilvie St	IGA Carpark	Denman	FDOGILS020R	F28984	Cracking	1.2	9	10.8
Osborn Ave	38	Muswellbrook			Cracking	2	2	4
Osborn Ave	38	Muswellbrook	FMOSBOA010L		Cracking	2	6	12
Osborn Ave	38	Muswellbrook			Cracking	2	10	20
Osborn Ave	32	Muswellbrook			Cracking	2	8	16
Osborn Ave	36	Muswellbrook	FMOSBOA010L			2	6	12
Osborn Ave	4	Muswellbrook				2	3	6
Osborn Ave	73	Muswellbrook			Trench	2	2	4
Osborn Ave	65	Muswellbrook			Crack	2	7	14

Osborn Ave	53	Muswellbrook				2	2	4
Palace St	47	Denman		FD0443	Cracks	1.2	10	12
Palace St	Bowling Club	Denman	FDPALAS020L	FD8902	Trench	1.2	2	2.4
Palace St	Denman Hotel	Denman	FDPALAS030R		Cracks	1.2	2	2.4
Palace St	Denman Hotel	Denman	FDPALAS020L		Cracks	1.2	2	2.4
Palace St	44	Denman				1.2	2	2.4
Palace St	42	Denman				1.2	6	7.2
Paterson Place	Various locations	Muswellbrook			Joins and cracks	1.2	17	20.4
Paxton St	22	Denman				1.2	2	2.4
Paxton St	24	Denman			Cracks	1.2	4	4.8
Paxton St	24	Denman			Cracks	1.2	2	2.4
Paxton St	25	Denman				2	2	4
Paxton St	30	Denman			Street tree - cracks	1.2	2	2.4
Paxton St	42	Denman			Poorly restored trench	2	0.5	1
Paxton St	42	Denman	FDPAXTS020R		Street tree	1.2	8	9.6
Paxton St	42\44	Denman	FDPAXTS020R		Trench	4	0.5	2
Paxton St	46	Denman				2	10	20
Paxton St	50	Denman			Street tree	2	2	4
Paxton St	56	Denman			Cracked	1.2	12	14.4
Paxton St	Crinoline St to Denman Public School	Denman			widened path has join/trip edge, tree issues, etc along length	2	220	440
Paxton St	Denman Public School	Denman				1.2	5	6
Paxton St	29	Denman				1.5	2	3
Paxton St	Memorial Park	Denman				2	6	12
Plashett Cl	2 Angus Peebles	Muswellbrook			Trench filled with A/C	1.2	3	3.6
Skellatar Stock Route	3	Muswellbrook				3	3	9
Skellatar Stock Route	29	Muswellbrook				2	4	8
Skellatar Stock Route	St James School entrance driveway	Muswellbrook			Hydrant surround was cut out and filled - is now cracking	3	2	6
Sowerby St	Cnr Manning	Muswellbrook			Undulating A/C footpath	4.4	20	88
Sowerby St	Cnr Manning	Muswellbrook			Crack	2	5	10
Sowerby St	Marketplace loading dock	Muswellbrook				3	5	15
Sowerby St	8	Muswellbrook			Crack	3	2	6
St Heliers St	11	Muswellbrook	FMSTHES010R		Damaged trench - possible to premix	1.2	2	2.4
Sydney St	80	Muswellbrook			Filled	1.2	4	4.8
Sydney St	82	Muswellbrook			Crack	1.5	3	4.5
Sydney St	124	Muswellbrook			Street tree	1.2	3	3.6
Sydney St	132	Muswellbrook				1.2	3	3.6
Sydney St	98	Muswellbrook				2	3	6
Sydney St	90	Muswellbrook	FMSYDNS013L			1.2	3	3.6
Turtle St	22 Paxton St	Denman			Tree	1.2	6	7.2
Turtle St	24	Denman	FDTURTS010L			1.2	2	2.4
Turtle St	26	Denman			tree	1.2	5	6
Turtle St	26	Denman			driveway	1.2	3	3.6
Verdelho Reserve	Just down from Chablis	Muswellbrook			Cracks	2	4	8
Verdelho Reserve	Cabernet to Shiraz	Muswellbrook	FMVERDR930P		Cracks	2	6	12
Verdelho Reserve	Shiraz St	Muswellbrook	FMVERDR930P		Cracks	2	5	10
Verdelho Reserve	near seats (Cabernet end)	Muswellbrook			Cracks	2	6	12
Virginia St	53	Denman			Crack	1.2	2	2.4
Virginia St	57	Denman	FDVIRGS060L			1.2	3	3.6
Virginia St	73	Denman			Crack	1.2	2	2.4
Virginia St	73	Denman	FDVIRGS060L	FD8119	Crack	1.2	2	2.4

Virginia St	75	Denman	FDVIRGS060L		Crack	1.2	0.5	0.6
Virginia St	83	Denman	FDVIRGS060L	FD8091	Trench - has been filled with premix	1.2	0.5	0.6
Virginia St	85 & 87	Denman	FDVIRGS050L		Crack	1.2	5	6
Virginia St	93	Denman	FDVIRGS050L		Crack	2	5	10
Virginia St	41	Denman				1.2	2	2.4
Virginia St	27	Denman				1.2	3	3.6
Virginia St	23	Denman				1.2	3	3.6
Wanaruah Cct	3	Muswellbrook				1.2	2	2.4
Wanaruah Cct	3	Muswellbrook				1.2	2	2.4
Wanaruah Cct	25	Muswellbrook				1.2	3	3.6
Wanaruah Cct	opp 45	Muswellbrook			cracking	1.2	5	6
Wattle St	16\18	Muswellbrook			Failed trench	1.2	2	2.4
Wattle St	16	Muswellbrook			Failed trench	1.2	2	2.4
Wattle St	14	Muswellbrook			Failed trench	1.2	2	2.4
Wattle St	8	Muswellbrook			Failed trench	1.2	2	2.4
Henry Dangar Dr	Path across Ridge	Muswellbrook			Cracking	2	2	4
Belmore St	12	Muswellbrook			Cracking	1.2	6	7.2
Black St	10	Muswellbrook			Cracking	1.2	3	3.6
Brook St	104	Muswellbrook			Cracking - various locations	1.2	9	10.8
Brook St	100	Muswellbrook			Crack	1.2	3	3.6
Brook St	94	Muswellbrook			Crack	1.2	2	2.4
Brook St	92	Muswellbrook			Crack	1.2	2	2.4
Brook St	90	Muswellbrook			Crack (at driveway)	1.2	2	2.4
Brook St	88	Muswellbrook			Crack	1.2	2	2.4
King St	1	Muswellbrook			Cracking	1.2	3	3.6
King St	3	Muswellbrook			Cracking	1.2	3	3.6
King St	Muswellbrook High School	Muswellbrook			Cracking - various locations	1.2	8	9.6
Osborn Ave	34	Muswellbrook			Cracking	2	2	4
Osborn Ave	40	Muswellbrook	FMOSBOA010L		Cracking	2	2	4
Sydney St	68	Muswellbrook			Cracking	1.2	3	3.6
Sydney St	84	Muswellbrook			Cracking	1.5	3	4.5
Sydney St	86	Muswellbrook			Cracking	1.5	3	4.5
Sydney St	92	Muswellbrook			Cracking	1.5	3	4.5
Sydney St	100	Muswellbrook			Cracking	1.5	5	7.5
Sydney St	Brookside	Muswellbrook			Cracking	1.2	6	7.2
Wanaruah Cct	opp 47	Muswellbrook			Cracking	1.2	5	6
Wanaruah Cct	opp 37	Muswellbrook			Cracking	1.2	15	18
Wanaruah Cct	opp 33	Muswellbrook			Cracking	1.2	10	12
Wanaruah Cct	opp 1/31	Muswellbrook			Cracking	1.2	15	18
Wattle St	6	Muswellbrook			Trench	1.2	2	2.4
Wattle St	10	Muswellbrook			Trench	1.2	2	2.4
Wattle St	22	Muswellbrook			Trench	1.2	2	2.4
Wattle St	3 Chivers	Muswellbrook			Trench	1.2	2	2.4
Olympic Park	Various locations	Muswellbrook			Grinding done	208	2	416

ATTACHMENT B

HEAVY PATCHING PROGRAM

Date	Street/Road Name	Town Urban	Urban/Rural	LHS/RHS/FW	Location/Chainage	Defect	With K&G?	Width	Length	Area	Priority
12/12/2019	Market St	Muswellbrook	Urban		Railway Hotel	Failed pavement	N	5	5	25	1
12/12/2019	Market St	Muswellbrook	Urban		Electrical shop	Failed pavement	N	5	5	25	1
21/07/2021	Wybong Road		Rural	LHS	31830	Pavement Failure	N	2	20	40	1
20/06/2014	Merton Street	Denman	Urban		12	Trench	N	2	14	28	1
20/06/2014	Merton Street	Denman	Urban		64 Paxton	Trench	N	2	6	12	1
12/01/2015	Merton Street	Denman	Urban		2	Pavement Failure	Y	4	4	16	1
14/03/2017	Merton Street	Denman	Urban		4 to 8	Rut along kerb and gutter	Y	2	50	100	1
14/03/2017	Merton Street	Denman	Urban		10	Trench	N	2	14	28	1
2/02/2017	Bylong Valley Way		Rural	LHS	8560	Pavement Failure	N	2	10	20	1
22/07/2016	Thomas Mitchell Drive		Rural	RHS	50	Pavement Failure	N	3	10	30	1
22/07/2016	Thomas Mitchell Drive		Rural	RHS	425	Pavement Failure	N	4	30	120	1
22/07/2016	Thomas Mitchell Drive		Rural	RHS	850	Pavement Failure	N	3	30	90	1
7/12/2017	Thomas Mitchell Drive		Rural	F/W	1515	Pavement Failure	N	10	20	200	1
5/04/2017	Turanville Ave	Muswellbrook	Urban		55 Sowerby	Pavement failure	N	2	2	4	1
23/01/2017	Turnermans Road Nth		Rural		610	Pavement Failure	N	2	30	60	1
7/03/2017	Wilkins Street	Muswellbrook	Urban		7-9	Pavement failure	N	2	5	10	1
21/01/2016	Wybong Road		Rural	RHS	23640	Pavement Failure	N	2	2	4	1
11/01/2017	Wybong Road		Rural	RHS	33160	Pavement Failure	N	2	5	10	1
11/01/2017	Wybong Road		Rural	RHS	18050	Pavement Failure in new pavement	N	2	15	30	1
20/05/2021	Wybong Road		Rural	LHS	29840	Pavement Failure	N	3	5	15	1
20/05/2021	Wybong Road		Rural	LHS	31980	Pavement Failure	N	3	2	6	1
5/04/2017	Hill St	Muswellbrook	Urban		Bridge to Railway Line	Pavement Failure	Y	10	96	960	1
5/04/2017	Anzac Pde	Muswellbrook	Urban		17	Pavement Failure	N	5	10	50	1
5/04/2017	Anzac Pde	Muswellbrook	Urban		Sydney St to 20	Pavement Failure	Y	10	260	2600	1
6/12/2017	Heron Lane		Rural	Centre	5150	Pavement failure	N	5	5	25	1
7/12/2017	Thomas Mitchell Drive		Rural	RHS	7280	Pavement failure	N	4	10	40	1
20/12/2017	Mangoola Road		Rural		7250	Pavement failure	N	2	2	4	1
4/01/2018	Castlerock Road		Rural		17580	Pavement failure	N	2	20	40	1
19/02/2018	Palace St	Denman	Urban		11\33	Pavment Failure	Y	11	220	2420	1
19/02/2018	Lofberg Ct	Muswellbrook	Urban	F/W	14	Pavement Sink	Y	3	6.5	19.5	1
19/02/2018	Turner Street	Denman	Urban		24	Pavement Failure	N	2	10	20	1
22/03/2018	Baerami Creek Road		Rural	RHS	8700	Pavement Failure	N	2	10	20	1
15/03/2018	Bylong Valley Way		Rural	RHS	9575	Pavement Failure	N	2	3	6	1
27/03/2018	Cousins St	Muswellbrook	Urban		4	Trench across road	N	2	8	16	1
27/03/2018	Humphries St	Muswellbrook	Urban		27	Dip over stormwater drain	N	2	2	4	1
27/03/2018	Malbec St	Muswellbrook	Urban		12	Pavement failure	N	2	2	4	1
19/02/2018	Rosemount Road	Denman	Urban		23	Trench	N	8	2	16	1
5/04/2018	Brecht St	Muswellbrook	Urban		45	Pavement failure	N	4	20	80	1
5/04/2018	Chardonnay St	Muswellbrook	Urban		29	Pavement failure	N	2	2	4	1
5/04/2018	Chardonnay St	Muswellbrook	Urban		25	Pavement failure	N	2	5	10	1
18/04/2018	Clifford Street	Muswellbrook	Urban		7	Trench across the road is failing		2	8	16	1
18/04/2018	Bligh Street	Muswellbrook	Urban		17	Pavement Failure	N	4	4	16	1
18/04/2018	Birralee Street	Muswellbrook	Urban		Int Brentwood Street	Pavement Failure	N	3	10	30	1
18/04/2018	Bligh Lane	Muswellbrook	Urban		6 to Carl St	Rough surface	N	3	85	255	1
18/04/2018	Lower Hill St	Muswellbrook	Urban		64	Trench	N	3	15	45	1

18/04/2018	Brentwood Street	Muswellbrook	Urban		Length of road	13 x trenches across road	N	10	26	260	1
18/04/2018	Brook Street	Muswellbrook	Urban		105-Carl St		N	3	78	234	1
18/04/2018	Campion Ln	Muswellbrook	Urban		Cycle shop	Pavement failure	N	4	10	40	1
18/04/2018	Glenbawn Place	Muswellbrook	Urban		Int Wollombi Road	Pavement Failure (Full width)	N	3	12	36	1
18/04/2018	Wilkins Street	Muswellbrook	Urban		1\3	Pavement Failure	N	2	40	80	1
9/04/2018	Brook St	Muswellbrook	Urban		St Albans	Pavement Failure	N	3	3	9	1
9/04/2018	Market St	Muswellbrook	Urban		Interchange	Cracking	N	2	10	20	1
9/04/2018	Market St	Muswellbrook	Urban		Interchange	Failed Patch/cracking pavement	N	5	10	50	1
12/12/2019	Market St	Muswellbrook	Urban		Interchange	Cracking	N	2	3	6	1
16/04/2018	Carramere Road	Muswellbrook	Urban		Hanson	Pavement Failure	N	2	2	4	1
6/06/2019	Rutherford Road	Muswellbrook	Urban		Toyota	Cracking	N	2	85	170	1
6/06/2019	Rutherford Road	Muswellbrook	Urban		Opp Toyota	Cracking	N	3	10	30	1
1/06/2019	St James Cr	Muswellbrook	Urban		Thompson to Kamilaroi	Pavement Failure	N	9	45	405	1
29/10/2019	Cabernet St	Muswellbrook	Urban		11	Trench	N	2	2	9	1
29/10/2019	Queen Street	Muswellbrook	Urban		147	Trench	N	2	12	24	1
18/11/2019	Aberdeen Street	Muswellbrook	Urban		43?	Cracking	N	5	5	25	1
18/11/2019	Chardonnay St	Muswellbrook	Urban		11	Pavement Failure	N	3	3	9	1
18/11/2019	Flanders Avenue	Muswellbrook	Urban		1a-3	Pavement Failure	N	2	30	60	1
19/11/2019	Lower William St	Muswellbrook	Urban		6	Pavement Failure	N	2	10	20	1
19/11/2019	Lower William St	Muswellbrook	Urban		8	Rut at gutter	Y	2	15	30	1
19/11/2019	Lower William St	Muswellbrook	Urban		6	Rut and shove at gutter/driveway	Y	2	10	20	1
19/11/2019	Lower William St	Muswellbrook	Urban		4	Shove at driveway		2	4	8	1
12/12/2019	Bell St	Muswellbrook	Urban		Opposite Golf Shop	Pavement failure	N	3	3	9	1
4/11/2019	Carl St	Muswellbrook	Urban		Lot 6	Pavement failure	N	4	50	200	1
12/12/2019	Carl St	Muswellbrook	Urban		Cnr Bligh Ln	Pavement failure	N	2	2	4	1
12/12/2019	Dumaresq St	Muswellbrook	Urban		4\6	Pavement Failure	Y	2	40	80	1
12/12/2019	Hill St	Muswellbrook	Urban		113	Pavement Failure	N	3	3	9	1
7/04/2017	Market Lane	Muswellbrook	Urban		Int Camption Ln	Pavement failure	N	3	10	30	1
12/12/2019	Market Lane	Muswellbrook	Urban		Senior Citizens	Pavement failure	N	3	10	30	1
12/12/2019	Market Lane	Muswellbrook	Urban		Cnr Williams	Pavement failure	N	3	10	30	1
12/12/2019	Newman St	Muswellbrook	Urban		cnr Koombahla	Pavement failure	N	2	2	4	1
12/12/2019	Parkinson Ave	Muswellbrook	Urban		1	Pavement failure	N	2	10	20	1
12/12/2019	Parkinson Ave	Muswellbrook	Urban		19-21	Pavement failure	N	2	5	10	1
12/12/2019	Parkinson Ave	Muswellbrook	Urban		23	Pavement failure	N	2	5	10	1
12/12/2019	Scott St	Muswellbrook	Urban	F/W	45	Trench	N	2	10	20	1
12/12/2019	Sowerby St	Muswellbrook	Urban		69	Pavement failure	N	2	2	4	1
12/12/2019	Sowerby St	Muswellbrook	Urban		66	Pavement Failure		2.5	20	50	1
12/12/2019	Wilkinson Ave	Muswellbrook	Urban		Guides Hut	Pavement failure	N	2	3	6	1
10/01/2020	Martindale Street	Denman	Urban		24	Pavement failure	N	2	5	10	1
16/01/2020	Bloodwood Road	Muswellbrook	Urban		80 Acacia Drive	Pavement failure	N	5	3	15	1
9/01/2020	Industrial Close	Muswellbrook	Urban		SES	Trench across road		2	11	22	1
9/01/2020	Upper William St	Muswellbrook	Urban		Int King St	Pavement failure	N	2	5	10	1
9/01/2020	Upper William St	Muswellbrook	Urban		93	Pavement failure	N	3	2	6	1
29/01/2020	Brook St	Muswellbrook	Urban		121	Pavement failure	N	2	5	10	1
21/01/2020	Gyarran Street	Muswellbrook	Urban		4	Pavement Failure	N	3	5	15	1
20/01/2020	Gyarran Street	Muswellbrook	Urban		Int Maitland Street	Trench 1/2 way across	N	4	2	8	1
20/01/2020	Gyarran Street	Muswellbrook	Urban		Int Maitland Street	Pavement Failure	N	3	5	15	1
28/01/2020	Cassidy Ave	Muswellbrook	Urban		36	Trench	N	2	8	16	1
11/02/2020	Wollombi Road	Muswellbrook	Urban		25	Pavement failure	N	3	3	9	1
11/02/2020	Fleming St	Muswellbrook	Urban		3\5	Pavement Failure	Y	3	20	60	1

16/02/2021	Hebden Rd		Rural	RHS	465	Pavement Failure	N	2	5	10	1
16/02/2021	Hebden Rd		Rural	LHS	1760	Pavement Failure	N	2	4	8	1
18/02/2021	Muscle Creek Road		Rural	F/W	8250	Pavement Failure	N	25	4	100	1
20/04/2021	Kayuga Road		Rural	RHS	1100	Pavement Failure	N	4	4	16	1
20/04/2021	Kayuga Road		Rural	RHS	6395	Pavement Failure	N	3	5	15	1
20/04/2021	Dartbrook Road		Rural	LHS	1470	Pavement Failure	N	3	3	9	
24/02/2016	Bylong Valley Way		Rural	RHS	32800	Pavement Failure	N	2	5	10	1\2
2/02/2017	Bylong Valley Way		Rural	RHS	8180	Pavement Failure	N	2	100	200	1\2
9/11/2016	Edderton Road		Rural	RHS	2650	Pavement Failure	N	2	60	120	1\2
9/11/2016	Edderton Road		Rural	RHS	2850	Pavement Failure	N	2	30	60	1\2
9/11/2016	Edderton Road		Rural	F/W	4560	Dip over culvert	N	6	3	18	1\2
16/10/2014	Martindale Road		Rural	RHS	8060	Pavement Failure	N	2.5	30	75	1\2
23/01/2017	Martindale Road		Rural		23265	Pavement Failure	N	3	4	12	1\2
23/01/2017	Martindale Road		Rural		23276	Pavement Failure	N	3	4	12	1\2
10/01/2020	Palace St	Denman	Urban		Macauley to Merino	Trench	N	2	220	440	1\2
21/03/2017	Queen Street	Muswellbrook	Urban		144-156	Pavement along k&g line damaged	Y	2	140	280	1\2
13/01/2017	Ridgelands Road		Rural	RHS	10978	Pavement Failure	N	2.5	10	25	1\2
22/07/2016	Thomas Mitchell Drive		Rural	RHS	1530	Pavement Failure	N	3	20	60	1\2
22/07/2016	Thomas Mitchell Drive		Rural	RHS	1750	Pavement Failure	N	4	100	400	1\2
7/03/2017	Aberdeen Street	Muswellbrook	Urban		26-28	Cracking	N	2	30	60	2
7/03/2017	Aberdeen Street	Muswellbrook	Urban		45	Pavement Failure	N	3	10	30	2
18/11/209	Aberdeen Street	Muswellbrook	Urban		21	Pavement Failure	N	3	2	6	2
5/04/2017	Acacia Drive	Muswellbrook	Urban		60	Pavement Failure	Y	2	5	10	2
5/04/2017	Anzac Pde	Muswellbrook	Urban		27\29	Cracking	N	2	10	20	2
25/02/2016	Baerami Creek Road		Rural	F/W	10834	Pavement Failure	N	6	5	30	2
19/10/2019	Barrington St	Muswellbrook	Urban		11	Trench	N	2	9	18	2
9/04/2018	Birralee Street	Muswellbrook	Urban		3	Pavement Failure	N	2	5	10	2
5/04/2017	Bligh Street	Muswellbrook	Urban		5	Trench	N	2	15	30	2
18/04/2018	Bligh Street	Muswellbrook	Urban		53	Pavement Failure	N	3	3	9	2
12/12/2019	Bowman St	Muswellbrook	Urban		17	Pavement failure	N	2	3	6	2
4/04/2016	Bray St	Denman	Urban		8	Shove	N	3	3	9	2
8/01/2015	Brecht St	Muswellbrook	Urban		37-39	Failed Patch	N	2	10	20	2
6/04/2017	Brook Street	Muswellbrook	Urban		89a	Pavement Failure	N	2	15	30	2
6/04/2017	Brook Street	Muswellbrook	Urban		121-Carl Street (WB lane)	Rough Surface	N	7	256	1792	2
6/04/2017	Brook Street	Muswellbrook	Urban		Carl-Sowerby	Delamination	N	6	215	1290	2
16/10/2014	Bureen Road		Rural	RHS	5950	Pavement Failure	N	2.5	6	15	2
29/10/2019	Burgundy St	Muswellbrook	Urban		8	Pavement Failure	Y	2	3	6	2
15/03/2018	Bylong Valley Way		Rural	LHS	2670	Patch failure	N	2	20	40	2
15/03/2018	Bylong Valley Way		Rural	RHS	10940	Pavement Failure	N	2	20	40	2
21/11/2013	Bylong Valley Way		Rural	RHS	35890	Pavement Failure	N	5	2	10	2
15/03/2018	Bylong Valley Way		Rural	RHS	14395	Pavement Failure	N	4	2	8	2
4/01/2018	Castlerock Road		Rural	LHS	4400	Pavement Failure	N	2	5	10	2
4/01/2018	Castlerock Road		Rural	LHS	1410	Pavement Failure	N	2	2	4	2
9/11/2016	Dalswinton Road		Rural	LHS	120	Pavement Failure	N	5	3	15	2
21/10/2013	Dalswinton Road		Rural	LHS	2090	Pavement Failure	N	10	2	20	2
21/10/2013	Dalswinton Road		Rural	RHS	2120	Pavement Failure		2.5	3	7.5	2
21/10/2013	Dalswinton Road		Rural	LHS	2121	Pavement Failure		2.5	3	7.5	2
15/01/2018	Dalswinton Road		Rural	F/W	3690	Pavement Failure	N	4	30	120	2
27/05/2016	Dumaresq St	Muswellbrook	Urban		17	Pavement Failure	N	3	2	6	2
12/12/2019	Dumaresq St	Muswellbrook	Urban		14	Trench x 2	N	4	10	40	2

9/11/2016	Edderton Road		Rural	LHS	480	Pavement Failure	N	2	40	80	2
9/11/2016	Edderton Road		Rural	LHS	2780	Pavement Failure	N	2	10	20	2
9/11/2016	Edderton Road		Rural	RHS	3080	Pavement Failure	N	2	30	60	2
9/11/2016	Edderton Road		Rural	RHS	3785	Pavement Failure	N	2	10	20	2
9/11/2016	Edderton Road		Rural	RHS	3830	Pavement Failure	N	3	3	9	2
9/11/2016	Edderton Road		Rural	RHS	13390	Pavement Failure	N	2	15	30	2
9/11/2016	Edderton Road		Rural	RHS	14160	Pavement Failure	N	2	60	120	2
25/01/2016	Ferndale Road		Rural	RHS	1915	Pavement Failure	N	2	5	10	2
25/01/2016	Ferndale Road		Rural	LHS	1920	Pavement Failure	N	2	10	20	2
14/01/2014	Ferndale Road		Rural	RHS	2790	Pavement Failure	N	10	2.5	25	2
17/01/2017	Ferndale Road		Rural	RHS	2855	Pavement Failure	N	2	5	10	2
14/01/2014	Ferndale Road		Rural	F/W	3170	Pavement Failure	N	4	20	80	2
18/11/2019	Flanders Avenue	Muswellbrook	Urban		16	Pavement Failure	N	2	10	20	2
11/04/2017	Fleming St	Muswellbrook	Urban		4	Pavement Failure	N	5	5	25	2
7/04/2017	Foley Lane	Muswellbrook	Urban		Int Carl St	Pavement Failure	N	4	4	16	2
18/11/2019	Ford St	Muswellbrook	Urban		44-66	Failed Patch	N	2	200	400	2
5/04/2016	Glen Munro Road	Muswellbrook	Urban		Erwin's (number 5)	Cracking	N	2	3	6	2
9/12/2014	Hastings Street	Muswellbrook	Urban		7	Pavement Failure	Y	3	3	9	2
2012	Humphries St	Muswellbrook	Urban		1	Pavement Failure	Y	2	8	16	2
26/05/2016	Hunter Street	Muswellbrook	Urban		Median near sw drain	Pavement Failure	Y	2	10	20	2
20/01/2015	Ironbark Rd	Muswellbrook	Urban		End road	Pavement Failure	N	3	10	30	2
8/10/2015	Jordan St	Muswellbrook	Urban		Int Lorne St	Trench	N	6.5	2	13	2
20/01/2015	Kamilaroi Street	Muswellbrook	Urban		5	Pavement Failure	N	2	3	6	2
12/04/2017	Kamilaroi Street	Muswellbrook	Urban		Cnr Cassidy	Trench along gutter	Y	2	25	50	2
12/11/2016	Kayuga Road		Rural	RHS	4080	Pavement Failure	N	3	15	45	2
20/04/2021	Kayuga Road		Rural	LHS	1680	Pavement Failure	N	2	3	6	2
2012	Lexia St	Muswellbrook	Urban		48\46	Failure near K&G	Y	40	2	80	2
18/01/2016	Logues Lane		Rural	LHS	380	Pavement Failure		2	2	4	2
23/12/2014	Lower Hill St	Muswellbrook	Urban		80	Pavement Failure	N	3	15	45	2
21/01/2016	Mangoola Road		Rural	LHS	14470	Pavement Failure	N	4	4	16	2
2012	Martindale Road		Rural	LHS	8325	Pavement Failure	N	2.5	5	12.5	2
23/01/2017	Martindale Road		Rural		16360	Pavement Failure - at floodway	N	5	5	25	2
7/04/2017	Midanga Ave	Muswellbrook	Urban		Intersection King Street	Trench	N	3	12	36	2
12/01/2015	Mill Street	Muswellbrook	Urban		Cnr Sydney St	Pavement Failure	N	2	13	26	2
4/02/2020	Mitchell Street	Muswellbrook	Urban		50	Pavement failure	N	2	5	10	2
7/04/2017	Mitchell Street	Muswellbrook	Urban		Int Francis St	Pavement Failure	N	3	5	15	2
23/08/2016	Muscle Creek Road		Rural	LHS	6610	Pavement Failure	N	3	10	30	2
7/12/2017	Muscle Creek Road		Rural	LHS	3510	Pavement Failure	N	2	20	40	2
17/04/2018	Parkinson Ave	Muswellbrook	Urban		Cnr Cook St	Trench	N	2	8	16	2
17/04/2018	Paterson Pl	Muswellbrook	Urban		4	Pavement Failure	N	2	2	4	2
30/03/2016	Queen Street	Muswellbrook	Urban		48	Pavement Failure	Y	3	10	30	2
20/03/2017	Queen Street	Muswellbrook	Urban		16\18	Pavement Failure	Y	3	20	60	2
6/02/2019	Sandy Creek Road		Rural	CENTRE	3765	Pavement Failure	N	2	20	40	2
16/10/2013	Scrumlo Road		Rural		2550	Pavement Failure	N	5	2	10	2
27/03/2018	Shiraz St	Muswellbrook	Urban		87	Trench	N	2	10	20	2
7/04/2017	Skellatar St	Muswellbrook	Urban		Blooms	Cracking	N	2	9	18	2
5/04/2016	Skellatar Stock Route	Muswellbrook	Urban		184	Failed Patch	N	2	20	40	2
5/04/2018	Sowerby St	Muswellbrook	Urban		72	Pavement failure	N	3	3	9	2
2012	St Andrews Place	Muswellbrook	Urban		3	Pavement Failure		5	5	25	2
7/04/2016	St James Cr	Muswellbrook	Urban		11	Trench/Subsidence	N	9	2	18	2

4/02/2020	Sydney Street	Muswellbrook	Urban		Brookside/Garlics	Pavement Failure	N	2	20	40	2
22/07/2016	Thomas Mitchell Drive		Rural	RHS	85	Pavement Failure	N	3	3	9	2
22/07/2016	Thomas Mitchell Drive		Rural	RHS	480	Pavement Failure	N	3	15	45	2
22/07/2016	Thomas Mitchell Drive		Rural	LHS	630	Pavement Failure	N	3	40	120	2
22/07/2016	Thomas Mitchell Drive		Rural	RHS	1910	Pavement Failure	N	3	10	30	2
7/12/2017	Thomas Mitchell Drive		Rural	F/W	2020	Pavement Failure	N	10	5	50	2
7/12/2017	Thomas Mitchell Drive		Rural	LHS	2365	Pavement failure	N	4	10	40	2
15/03/2018	Turanville Ave	Muswellbrook	Urban		12\16	Pavement Failure	Y	4	35	140	2
23/01/2017	Turnermans Road Nth		Rural	RHS	510	Pavement Failure	N	2	2	4	2
23/01/2017	Turnermans Road Nth		Rural	RHS	557	Pavement Failure	N	2	2	4	2
23/01/2017	Turnermans Road Nth		Rural		585	Pavement Failure	N	2	20	40	2
23/01/2017	Turnermans Road Nth		Rural	LHS	740	Pavement Failure	N	2	3	6	2
10/01/2020	Virginia St	Denman	Urban		41-43	Pavement failure	N	2	30	60	2
23/12/2014	Wilkins Street	Muswellbrook	Urban		3	Pavement Failure	N	2	4	8	2
25/05/2016	Wilkins Street	Muswellbrook	Urban		At Median	Pavement Failure		5	3	15	2
14/01/2015	Wollombi Road	Muswellbrook	Urban		Int Sydney Street	Shove at intersection	N	2	3	6	2
11/01/2017	Wybong Road		Rural	LHS	Int Kayuga Road	Pavement Failure	N	2	10	20	2
21/01/2016	Wybong Road		Rural	RHS	670	Pavement Failure	N	2	10	20	2
12/09/2014	Wybong Road		Rural		2945	Pavement Failure	N	2	70	140	2
2012	Wybong Road		Rural	RHS	7080	Pavement Failure	N	2.5	5	12.5	2
8/01/2014	Wybong Road		Rural	LHS	21550	Pavement Failure	N	2	5	10	2
25/01/2016	Yarrawa Road		Rural	CENTRE	6365	Pavement Failure	N	2	2	4	2
19/01/2018	Yarrawa Road		Rural	RHS	9590	Pavement Failure	N	2	10	20	2
25/01/2016	Yarrawa Road		Rural	RHS	9640	Pavement Failure	N	5	2.5	12.5	2
25/01/2016	Yarrawa Road		Rural	LHS	9660	Pavement Failure	N	20	2.5	50	2
19/01/2018	Yarrawa Road		Rural	RHS	9670	Pavement Failure	N	2	20	40	2
16/10/2014	Yarrawa Road		Rural	RHS	9970	Pavement Failure	N	2.5	25	62.5	2
19/01/2018	Yarrawa Road		Rural	LHS	10150	Pavement Failure	N	2	30	60	2
18/11/2019	Aberdeen Street		Urban		24 to 28	Pavement Failure	N	4	100	400	2\3
16/05/2013	Bylong Valley Way		Rural	LHS	24130	Pavement Failure	N	10	2.5	25	2\3
16/05/2013	Bylong Valley Way		Rural	RHS	31750	Pavement Failure	N	25	2.5	62.5	2\3
14/01/2015	Crete St	Muswellbrook	Urban		Cnr Tarakan	Pavement Failure	N	10	10	100	2\3
15/02/2016	Duggans Road		Rural	RHS	120	Pavement Failure	N	2	130	260	2\3
9/11/2016	Edderton Road		Rural	LHS	2260	Pavement Failure	N	2	70	140	2\3
9/11/2016	Edderton Road		Rural	F/W	9260	Pavement Failure	N	6	30	180	2\3
2012	Ferndale Road		Rural	F/W	3170	Pavement Failure	N	5	15	75	2\3
2012	Hyde St	Denman	Urban		21	Rut along kerb and gutter		2	10	20	2\3
12/11/2016	Kayuga Road		Rural	RHS	4200	Pavement Failure	N	2	30	60	2\3
16/10/2014	Martindale Road		Rural	LHS	1140	Pavement Failure	N	4	10	40	2\3
16/10/2014	Martindale Road		Rural	RHS	1315	Pavement Failure	N	2	3	6	2\3
26/09/2014	Ridgelands Rd		Rural	RHS	9127	Pavement Failure	N	3	3	9	2\3
17/04/2018	Turanville Ave	Muswellbrook	Urban		12	Pavement Failure	N	2	20	40	2\3
20/01/2015	Adams St	Muswellbrook	Urban		Cnr Thompson	Pavement Failure	N	3	3	9	3
19/05/2016	Adams St	Muswellbrook	Urban		Various	15 x trenches	N	30	8	240	3
5/04/2017	Adams St	Muswellbrook	Urban		2 Kamilaroi	Pavement failure	N	5	5	25	3
11/01/2016	Antienne Road		Rural	RHS	380	Pavement Failure	N	2	2	4	3
6/12/2017	Antienne Road		Rural	RHS	290	Pavement Failure	N	2	2	4	3
8/01/2019	Antienne Road		Rural	RHS	200	Pavement Failure	N	2	2	4	3
5/04/2017	Anzac Pde	Muswellbrook	Urban		43	Trench	N	2	7	14	3
12/01/2015	Babbington St	Denman	Urban		Int Hunter St	Trench	N	2	8	16	3

4/04/2016	Babbington St	Denman	Urban		Int Palace St	Trench	N	8	3	24	3
25/02/2016	Baerami Creek Road		Rural	F/W	480	Pavement Failure	N	8	3	24	3
7/02/2017	Baerami Creek Road		Rural	RHS	780	Pavement Failure	N	2	2	4	3
7/02/2017	Baerami Creek Road		Rural	RHS	1160	Pavement Failure	N	2	2	4	3
22/03/2018	Baerami Creek Road		Rural	F/W	1900	Pavement Failure	N	8	30	240	3
7/02/2017	Baerami Creek Road		Rural	RHS	2240	Pavement Failure	N	4	4	16	3
7/02/2017	Baerami Creek Road		Rural	F/W	4095	Pavement Failure	N	7	3	21	3
25/02/2016	Baerami Creek Road		Rural	F/W	4780	Pavement Failure - over culvert	N	8	2	16	3
7/02/2017	Baerami Creek Road		Rural	RHS	7380	Pavement failure	N	2	2	4	3
25/02/2016	Baerami Creek Road		Rural	CENTRE	8266	Pavement Failure	N	2	2	4	3
10/12/2013	Baerami Creek Road		Rural	F/W	8810	Pavement Failure	N	10	6	60	3
7/02/2017	Baerami Creek Road		Rural	LHS	8832	Pavement Failure	N	2	40	80	3
7/02/2017	Baerami Creek Road		Rural	RHS	8920	Pavement Failure	N	2	10	20	3
7/02/2017	Baerami Creek Road		Rural	RHS	8960	Pavement Failure	N	2	10	20	3
7/02/2017	Baerami Creek Road		Rural	RHS	9020	Pavement Failure	N	2	4	8	3
22/03/2018	Baerami Creek Road		Rural	RHS	9175	Pavement Failure	N	3	3	9	3
10/12/2013	Baerami Creek Road		Rural	RHS	9345	Pavement Failure	N	2	20	40	3
25/02/2016	Baerami Creek Road		Rural	RHS	9370	Pavement Failure	N	3	2	6	3
25/02/2016	Baerami Creek Road		Rural	RHS	9380	Pavement Failure	N	2	5	10	3
22/03/2018	Baerami Creek Road		Rural	LHS	9650	Pavement Failure	N	2	2	4	3
2012	Baerami Creek Road		Rural	LHS	9730	Pavement Failure	N	2.5	2.5	6.25	3
22/03/2018	Baerami Creek Road		Rural	LHS	9785	Pavement Failure	N	2	2	4	3
22/03/2018	Baerami Creek Road		Rural	LHS	9835	Pavement Failure	N	2	2	4	3
22/03/2018	Baerami Creek Road		Rural	RHS	10685	Pavement Failure	N	2	2	4	3
10/12/2013	Baerami Creek Road		Rural	LHS	10792	Pavement Failure	N	2	5	10	3
25/02/2016	Baerami Creek Road		Rural	LHS	10808	Pavement Failure	N	2	3	6	3
10/12/2013	Baerami Creek Road		Rural	LHS	11240	Pavement Failure	N	2	3	6	3
6/11/2014	Baerami Creek Road		Rural	RHS	11360	Pavement Failure	N	2	2	4	3
7/02/2017	Baerami Creek Road		Rural	LHS	11900	Pavement Failure	N	3	3	9	3
25/02/2016	Baerami Creek Road		Rural	F/W	12909	Over culvert	N	3	6	18	3
22/03/2008	Baerami Creek Road		Rural	RHS	12965	Pavement failure	N	2	2	4	3
12/01/2016	Balmoral Road		Rural	LHS	435	Pavement Failure	N	2.5	2	5	3
16/10/2013	Balmoral Road		Rural	F/W	890	Dip near culvert full width	N	6	2.5	15	3
27/05/2016	Barrington St	Muswellbrook	Urban		29	Pavement Failure	N	2	3	6	3
21/03/2017	Barrington St	Muswellbrook	Urban		23	Trench	N	2	9	18	3
5/04/2001	Beech St	Muswellbrook	Urban		Int Acacia	Trench	N	2	8	16	3
25/11/2016	Bengalla Link Road		Rural	LHS	7295	Pavement Failure	N	2	10	20	3
11/01/2018	Bengalla Link Road		Rural	LHS	7515	Wheel Ruts	N	4	315	1260	3
25/11/2016	Bengalla Link Road		Rural	RHS	7625	Pavement Failure	N	2	20	40	3
21/01/2016	Bengalla Link Road		Rural	RHS	7785	Pavement Failure	N	2	10	20	3
11/01/2018	Bengalla Link Road		Rural	RHS	9100	Pavement Failure	N	2	200	400	3
21/01/2016	Bengalla Link Road		Rural	LHS	9195	Pavement Failure	N	2	10	20	3
6/04/2016	Bimbadeen Drive	Muswellbrook	Urban		5	Pavement Failure	N	2	3	6	3
2012	Birralee Street	Muswellbrook	Urban		Various	14 x trenches across road	N	8	28	224	3
9/04/2018	Birralee Street	Muswellbrook	Urban		4	Pavement Failure	N	2	5	10	3
5/04/2017	Bligh Lane	Muswellbrook	Urban		22	Trench	N	2	8	16	3
10/12/2014	Bligh Street	Muswellbrook	Urban		7	Trench	N	4	15	60	3
18/04/2018	Bligh Street	Muswellbrook	Urban		41	Pavement Failure	N	3	10	30	3
26/05/2016	Bligh Street	Muswellbrook	Urban		9	Trench	N	2	14	28	3
5/04/2017	Bligh Street	Muswellbrook	Urban		26 Turanville	Pavement Failure	N	3	3	9	3

5/04/2017	Bligh Street	Muswellbrook	Urban		35	Trench 1/2 way	N	2	9	18	3
5/04/2018	Bligh Street	Muswellbrook	Urban		5	Patch repair	N	4	5	20	3
5/04/2018	Bligh Street	Muswellbrook	Urban		6	Pavement Failure	N	3	20	60	3
5/04/2018	Bligh Street	Muswellbrook	Urban		24	Pavement Failure	N	2	2	4	3
1/03/2017	Bloodwood Road	Muswellbrook	Urban		29	Trench	N	3	9	27	3
28/01/2015	Boronia Dr	Muswellbrook	Urban		10	Trench	N	2	8	16	3
6/01/2015	Bowman St	Muswellbrook	Urban	CENTRE	5\7	Pavement Failure	N	2	25	50	3
12/02/2018	Bowman St	Muswellbrook	Urban		26	Failed patch	N	3	10	30	3
12/01/2015	Bray St	Denman	Urban		Int Turner St	Pavement Failure	N	4	4	16	3
4/04/2016	Bray St	Denman	Urban		Int Almond St	Pavement Failure	N	3	5	15	3
4/04/2016	Bray St	Denman	Urban		34 Turner St	Pavement Failure	N	2	3	6	3
18/11/2019	Brecht St	Muswellbrook	Urban		67	Pavement Failure	N	3	3	9	3
6/01/2015	Brentwood Street	Muswellbrook	Urban		57	Pavement Failure	N	3	2	6	3
29/03/2017	Brentwood Street	Muswellbrook	Urban		47	Failed Patch	N	2	2	4	3
12/12/2019	Brentwood Street	Muswellbrook	Urban		49	Pavement Failure	N	3	2	6	3
29/03/2017	Brentwood Street	Muswellbrook	Urban		Int Nardoo	Pavement failure	N	3	3	9	3
29/03/2017	Brentwood Street	Muswellbrook	Urban		Int Queen	Trench	N	2	9	18	3
9/04/2018	Brentwood Street	Muswellbrook	Urban		37	Pavement failure	N	2	3	6	3
9/04/2018	Brentwood Street	Muswellbrook	Urban		33	Pavement failure	N	3	5	15	3
12/01/2015	Bright St	Denman	Urban		1 to 3	Trench along gutter - recently resealed	N	2	70	140	3
19/05/2016	Bronte St	Muswellbrook	Urban		6\8	Pavement Failure	N	4	4	16	3
15/01/2014	Bureen Road		Rural	RHS	6040	Pavement Failure	N	2	5	10	3
15/01/2014	Bureen Road		Rural	LHS	8530	Pavement failure	N	2	3	6	3
22/02/2016	Bureen Road		Rural	F/W	2420	Pavement Failure	N	8	5	40	3
23/01/2017	Bureen Road		Rural	LHS	3050	Pavement failure	N	2	3	6	3
22/01/2018	Bureen Road		Rural	LHS	6680	Pavement failure	N	2	10	20	3
15/03/2018	Bylong Valley Way		Rural	F/W	440	Pavement Failure - either side of railway	N	2	20	40	3
24/02/2016	Bylong Valley Way		Rural	RHS	2500	Patch failure	N	2	15	30	3
24/02/2016	Bylong Valley Way		Rural	LHS	2790	Pavement Failure	N	2	40	80	3
16/05/2013	Bylong Valley Way		Rural	LHS	2905	Pavement Failure	N	2	2	4	3
24/02/2016	Bylong Valley Way		Rural	RHS	3050	Pavement Failure	N	2	100	200	3
24/02/2016	Bylong Valley Way		Rural	CENTRE	3230	Pavement Failure	N	3	3	9	3
15/03/2018	Bylong Valley Way		Rural	CENTRE	4020	Pavement Failure	N	2	3	6	3
16/05/2013	Bylong Valley Way		Rural	RHS	4140	Pavement Failure	N	5	2.5	12.5	3
15/03/2018	Bylong Valley Way		Rural	RHS	4450	Pavement Failure	N	2	5	10	3
31/01/2014	Bylong Valley Way		Rural	LHS	4506	Pavement Failure	N	4	4	16	3
15/03/2018	Bylong Valley Way		Rural	RHS	6040	Pavement Failure	N	2	2	4	3
15/03/2018	Bylong Valley Way		Rural	CENTRE	6105	Pavement Failure	N	3	10	30	3
24/02/2016	Bylong Valley Way		Rural	F/W	6778	Trench across road	N	2	8	16	3
24/02/2016	Bylong Valley Way		Rural	LHS	6940	Pavement Failure	N	2	5	10	3
24/02/2016	Bylong Valley Way		Rural	RHS	6940	Failed pavement	N	2	80	160	3
15/03/2018	Bylong Valley Way		Rural	RHS	7055	Pavement failure	N	2	3	6	3
24/02/2016	Bylong Valley Way		Rural	LHS	7220	Pavement Failure	N	2	3	6	3
24/02/2016	Bylong Valley Way		Rural	LHS	7330	Pavement Failure	N	2	40	80	3
24/02/2016	Bylong Valley Way		Rural	LHS	7410	Failed patch	N	3	10	30	3
6/11/2014	Bylong Valley Way		Rural	LHS	7510	Pavement Failure	N	2	2	4	3
31/01/2014	Bylong Valley Way		Rural	LHS	7550	Pavement Failure	N	2	2	4	3
2/02/2017	Bylong Valley Way		Rural	LHS	7880	Pavement Failure	N	3	3	9	3
24/02/2016	Bylong Valley Way		Rural	LHS	8300	Pavement Failure	N	2	3	6	3
24/02/2016	Bylong Valley Way		Rural	RHS	8510	Pavement Failure	N	2	10	20	3

2/02/2017	Bylong Valley Way		Rural	LHS	8510	Pavement Failure	N	2	2	4	3
15/03/2018	Bylong Valley Way		Rural	RHS	8545	Pavement Failure	N	2	5	10	3
15/03/2018	Bylong Valley Way		Rural	RHS	8850	Pavement Failure	N	2	2	4	3
24/02/2016	Bylong Valley Way		Rural	RHS	10071	Pavement Failure	N	2	2	4	3
24/02/2016	Bylong Valley Way		Rural	LHS	10560	Pavement Failure	N	2	5	10	3
15/03/2018	Bylong Valley Way		Rural	RHS	10990	Pavement Failure	N	2	10	20	3
6/11/2014	Bylong Valley Way		Rural	RHS	11030	Pavement Failure	N	2	5	10	3
15/03/2018	Bylong Valley Way		Rural	LHS	11410	Pavement Failure	N	4	20	80	3
6/11/2014	Bylong Valley Way		Rural	RHS	14015	Pavement Failure	N	2	5	10	3
6/11/2014	Bylong Valley Way		Rural	RHS	14095	Pavement Failure	N	2	15	30	3
24/02/2016	Bylong Valley Way		Rural	RHS	14246	Pavement Failure	N	2	2	4	3
2/02/2017	Bylong Valley Way		Rural	RHS	14275	Pavement Failure	N	2	2	4	3
15/03/2018	Bylong Valley Way		Rural	LHS	14475	Pavement Failure	N	2	20	40	3
15/03/2018	Bylong Valley Way		Rural	LHS	14700	Pavement Failure	N	3	40	120	3
2/02/2017	Bylong Valley Way		Rural	LHS	16780	Pavement Failure	N	2	2	4	3
2/02/2017	Bylong Valley Way		Rural	F/W	18470	Pavement Failure	N	8	2	16	3
15/03/2018	Bylong Valley Way		Rural	LHS	18980	Pavement Failure	N	4	10	40	3
15/03/2018	Bylong Valley Way		Rural	RHS	19500	Pavement Failure	N	2	2	4	3
2/02/2017	Bylong Valley Way		Rural	LHS	19910	Pavement Failure	N	2	5	10	3
31/01/2014	Bylong Valley Way		Rural	LHS	21183	Pavement Failure	N	2	2	4	3
2/02/2017	Bylong Valley Way		Rural	F/W	21450	Pavement Failure	N	8	20	160	3
15/03/2018	Bylong Valley Way		Rural	LHS	22200	Pavement Failure	N	3	15	45	3
15/03/2018	Bylong Valley Way		Rural	F/W	22840	Trench	N	2	8	16	3
15/03/2018	Bylong Valley Way		Rural	LHS	23300	pavement Failure	N	2	2	4	3
15/03/2018	Bylong Valley Way		Rural	LHS	23340	pavement Failure	N	2	5	10	3
2/02/2017	Bylong Valley Way		Rural	LHS	24120	Pavement Failure	N	2	30	60	3
16/05/2013	Bylong Valley Way		Rural	LHS	30000	Pavement Failure	N	5	2.5	12.5	3
15/03/2018	Bylong Valley Way		Rural	LHS	30215	Pavement Failure	N	2	3	6	3
15/03/2018	Bylong Valley Way		Rural	RHS	31920	Pavement Failure	N	3	5	15	3
2/02/2017	Bylong Valley Way		Rural	RHS	31570	Pavement Failure	N	30	2	60	3
6/11/2014	Bylong Valley Way		Rural	RHS	31720	Pavement Failure	N	2	5	10	3
2/02/2017	Bylong Valley Way		Rural	RHS	31860	Pavement Failure	N	2	3	6	3
24/02/2016	Bylong Valley Way		Rural	CENTRE	34850	Pavement Failure	N	2	5	10	3
27/08/2015	Cabernet St	Muswellbrook	Urban		Cnr Shiraz	Rippling effect in pavement	N	2.5	20	50	3
20/03/2017	Cabernet St	Muswellbrook	Urban		26-28	Pavement failure	N	2	20	40	3
20/03/2017	Cabernet St	Muswellbrook	Urban		Cnr Reisling St	Pavement failure	Y	2	10	20	3
20/03/2017	Cabernet St	Muswellbrook	Urban		Opp 31\33	Pavement failure	Y	2	30	60	3
5/04/2016	Calgaroo Ave	Muswellbrook	Urban		34-38	Trench next to gutter	Y	2	20	40	3
5/04/2016	Calgaroo Ave	Muswellbrook	Urban		13 Grevillea	Trench next to gutter	Y	2	10	20	3
8/01/2015	Campion Ln	Muswellbrook	Urban		near Int Market Ln	Pavement Failure	N	3	2	6	3
29/03/2017	Carl Ln	Muswellbrook	Urban		4	Pavement Failure	N	2	2	4	3
18/04/2018	Carl St	Muswellbrook	Urban		66	Pavement Failure	N	2	2	4	3
12/12/2019	Carl St	Muswellbrook	Urban		Cnr Brook St	Pavement Failure	N	5	5	25	3
12/12/2019	Carl St	Muswellbrook	Urban		43	Pavement Failure	N	5	2	10	3
7/04/2016	Cassidy Ave	Muswellbrook	Urban		12	Depression	N	2	2	4	3
9/09/2014	Castlerock Road		Rural		1010	Pavement Failure	N	2	60	120	3
15/11/2016	Castlerock Road		Rural	LHS	2290	Pavement Failure	N	2	20	40	3
15/11/2016	Castlerock Road		Rural	RHS	2540	Pavement Failure	N	2	50	100	3
5/10/2012	Castlerock Road		Rural	LHS	3470	Pavement Failure	N	2	10	20	3
4/01/2018	Castlerock Road		Rural	LHS	5375	Pavement Failure	N	2	10		3

15/11/2016	Castlerock Road		Rural	LHS	5400	Pavement Failure	N	2	2	4	3
27/01/2016	Castlerock Road		Rural	RHS	8170	Pavement Failure	N	2	30	60	3
4/01/2018	Castlerock Road		Rural	LHS	8700	Pavement Failure	N	3	5	15	3
15/11/2016	Castlerock Road		Rural	LHS	9135	Pavement Failure	N	2	5	10	3
15/11/2016	Castlerock Road		Rural	LHS	9160	Pavement Failure	N	2	3	6	3
4/01/2018	Castlerock Road		Rural	RHS	9770	Pavement Failure	N	2	10	20	3
15/11/2016	Castlerock Road		Rural	RHS	9925	Pavement Failure	N	2	10	20	3
4/01/2018	Castlerock Road		Rural	LHS	10090	Pavement Failure	N	2	20		3
15/11/2016	Castlerock Road		Rural	LHS	13850	Pavement Failure	N	2	2	4	3
15/11/2016	Castlerock Road		Rural	RHS	14270	Pavement Failure	N	2	10	20	3
4/01/2018	Castlerock Road		Rural	RHS	14830	Pavement Failure	N	2	2	4	3
4/12/2013	Castlerock Road		Rural	RHS	17520	Pavement Failure	N	2	50	100	3
4/01/2018	Castlerock Road		Rural		17600	Pavement Failure	N	2	40	80	3
27/01/2016	Castlerock Road		Rural	F/W	18020	Trench	N	2	6	12	3
27/01/2016	Castlerock Road		Rural		18395	Pavement Failure	N	2	10	20	3
15/11/2016	Castlerock Road		Rural	RHS	18890	Pavement Failure	N	2	5	10	3
29/10/2019	Chablis Cl	Muswellbrook	Urban		14	Pavement Failure	N	2	20	40	3
4/07/1905	Chardonnay St	Muswellbrook	Urban		30	Pavement Failure	N	2	2	4	3
8/12/2014	Claret Avenue	Muswellbrook	Urban		Various	7 x trenches across road	N	14	8	112	3
9/04/2018	Coal Road	Muswellbrook	Urban	LHS	Ch 130	Pavement failure	N	2	3	6	3
8/01/2015	Coal Road	Muswellbrook	Urban	LHS	Ch 450	Pavement Failure	N	2	60	120	3
8/01/2015	Coal Road	Muswellbrook	Urban	CENTRE	Ch 735	Pavement Failure	N	3	10	30	3
8/01/2015	Coal Road	Muswellbrook	Urban	LHS	Ch 745	Pavement Failure	N	2	10	20	3
8/01/2015	Coal Road	Muswellbrook	Urban	RHS	Ch 1185	Pavement Failure	N	5	5	25	3
8/01/2015	Coal Road	Muswellbrook	Urban	LHS	Ch 1260	Pavement Failure	N	2	4	8	3
8/01/2015	Coal Road	Muswellbrook	Urban	RHS	Ch 1420	Pavement Failure	N	2	20	40	3
2012	Cousins St	Muswellbrook	Urban		Int Humphries (west)	Pavement Failure	N	5	4	20	3
8/12/2014	Cousins St	Muswellbrook	Urban		Various	Trench across road	N				3
21/03/2017	Cousins St	Muswellbrook	Urban		30	Trench	N	2	8	16	3
21/03/2017	Cousins St	Muswellbrook	Urban		40	Trench	N	2	8	16	3
29/10/2019	Cousins St	Muswellbrook	Urban		1	Pavement failure	N	2	2	4	3
29/10/2019	Cousins St	Muswellbrook	Urban		50	Pavement failure	N	2	2	4	3
19/02/2018	Crinoline St	Denman	Urban		12	W&W pit?	N	2	3	6	3
19/02/2018	Crinoline St	Denman	Urban		27	W&W pit?	N	3	4	12	3
2012	Dalswinton Road		Rural	LHS	3387	Pavement Failure	N	2	2	4	3
9/11/2016	Dalswinton Road		Rural	LHS	90	Pavement Failure	N	2	5	10	3
15/02/2016	Dalswinton Road		Rural	RHS	360	Pavement Failure	N	2	30	60	3
15/02/2016	Dalswinton Road		Rural	RHS	700	Pavement Failure	N	2	2	4	3
9/11/2016	Dalswinton Road		Rural	RHS	920	Pavement Failure	N	2	5	10	3
9/11/2016	Dalswinton Road		Rural	RHS	980	Pavement Failure	N	2	5	10	3
15/02/2016	Dalswinton Road		Rural	RHS	1060	Pavement Failure	N	2	20	40	3
15/02/2016	Dalswinton Road		Rural	LHS	1500	Pavement Failure	N	2	25	50	3
9/11/2016	Dalswinton Road		Rural	RHS	1980	Pavement Failure	N	2	20	40	3
15/01/2018	Dalswinton Road		Rural	RHS	870	Pavement Failure	N	3	40	120	3
15/01/2018	Dalswinton Road		Rural	LHS	900	Pavement Failure	N	2	10	20	3
15/01/2018	Dalswinton Road		Rural	RHS	1010	Pavement Failure	N	2	3	6	3
15/01/2018	Dalswinton Road		Rural	RHS	1960	Pavement Failure	N	2	30	60	3
20/05/2016	Dalwood Place	Muswellbrook	Urban		7	Trench x 2	N	2	14	28	3
18/12/2017	Dartbrook Road		Rural	F/W	78	Trench	N	4	6	24	3
8/09/2014	Dartbrook Road		Rural	F/W	300	Trench	N	2	6	12	3

19/01/2016	Dartbrook Road		Rural	F/W	476	Trench	N	2	6	12	3
12/11/2016	Dartbrook Road		Rural	F/W	750	Trench	N	2	6	12	3
12/11/2016	Dartbrook Road		Rural	F/W	880	Trench	N	2	6	12	3
12/11/2016	Dartbrook Road		Rural	F/W	1070	Trench	N	2	6	12	3
12/11/2016	Dartbrook Road		Rural	RHS	1375	pavement Failure	N	2	5	10	3
12/11/2016	Dartbrook Road		Rural	RHS	1520	Pavement Failure	N	2	10	20	3
4/10/2012	Dartbrook Road		Rural	LHS	1560	Pavement Failure	N	2	2	4	3
8/09/2014	Dartbrook Road		Rural	F/W	1580	Trench	N	6	2	12	3
2012	Donaldson St	Muswellbrook	Urban		Various	6 trenches across road	N	12	9	108	3
2012	Dorset Road		Rural	LHS	160	Pavement Failure	N	2	2	4	3
9/09/2014	Dorset Road		Rural		109	Pavement Failure	N	2	2	4	3
9/09/2014	Dorset Road		Rural		260	Pavement Failure	N	2	2	4	3
19/03/2019	Dorset Road		Rural	RHS	325	Pavement Failure	N	2	2	4	3
9/09/2014	Dorset Road		Rural		470	Pavement Failure	N	2	20	40	3
19/01/2016	Dorset Road		Rural	LHS	635	Pavement Failure	N	2	2	4	3
15/11/2016	Dorset Road		Rural	F/W	1370	Pavement Failure	N	3	6	18	3
15/11/2016	Dorset Road		Rural	F/W	2880	Pavement Failure	N	3	6	18	3
15/11/2016	Dorset Road		Rural	LHS	3575	Pavement Failure	N	2	35	70	3
15/11/2016	Dorset Road		Rural	RHS	3600	Pavement Failure	N	2	3	6	3
15/11/2016	Dorset Road		Rural	RHS	3680	Pavement Failure	N	2	30	60	3
12/02/2018	Doyle Lane	Muswellbrook	Urban		11	Pavement Failure	N	2	5	10	3
29/03/2017	Doyle Lane	Muswellbrook	Urban		1	Trench	N	2	4	8	3
12/02/2018	Doyle Lane	Muswellbrook	Urban		5	Pavement Failure	N	2	3	6	3
12/02/2018	Doyle Lane	Muswellbrook	Urban		cnr George	Pavement Failure	N	2	3	6	3
10/02/2016	Dry Creek Road		Rural		1478	Pavement Failure	N	2	4	8	3
15/02/2016	Duggans Road		Rural	RHS	Int Dalswinton	Pavement Failure	N	2	5	10	3
15/02/2016	Duggans Road		Rural	LHS	120	Pavement Failure	N	2	30	60	3
15/02/2016	Duggans Road		Rural	LHS	210	Pavement Failure	N	2	15	30	3
15/02/2016	Duggans Road		Rural	RHS	304	Pavement Failure	N	2	60	120	3
15/02/2016	Duggans Road		Rural	LHS	435	Pavement Failure	N	2	40	80	3
15/02/2016	Duggans Road		Rural	F/W	595	Pavement Failure	N	5	20	100	3
9/12/2014	Dumaresq St	Muswellbrook	Urban		2	Trench	N	2	9	18	3
5/04/2017	Dumaresq St	Muswellbrook	Urban		Int Sowerby	Trench	N	2	10	20	3
9/11/2016	Edderton Road		Rural	RHS	50	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	LHS	670	Pavement Failure	N	2	10	20	3
9/11/2016	Edderton Road		Rural	RHS	730	Pavement Failure	N	2	40	80	3
9/11/2016	Edderton Road		Rural	RHS	890	Pavement Failure	N	3	5	15	3
9/11/2016	Edderton Road		Rural	F/W	950	Pavement Failure - over culvert	N	5.6	10	56	3
9/11/2016	Edderton Road		Rural	LHS	1230	Failed Patch	N	3	15	45	3
9/11/2016	Edderton Road		Rural	RHS	1230	Pavement Failure	N	2	3	6	3
9/11/2016	Edderton Road		Rural	RHS	1380	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	LHS	1445	Pavement Failure	N	5	5	25	3
9/11/2016	Edderton Road		Rural	RHS	1470	Pavement Failure	N	5.6	10	56	3
9/11/2016	Edderton Road		Rural	LHS	1500	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	RHS	1500	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	RHS	1650	Pavement Failure	N	2	140	280	3
9/11/2016	Edderton Road		Rural	RHS	1840	Pavement Failure	N	2	25	50	3
9/11/2016	Edderton Road		Rural	RHS	2050	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	RHS	2200	Pavement Failure	N	2	250	500	3
9/11/2016	Edderton Road		Rural	LHS	2500	Pavement Failure	N	2	60	120	3

9/11/2016	Edderton Road		Rural	RHS	2740	Pavement Failure	N	2	40	80	3
9/11/2016	Edderton Road		Rural	RHS	2950	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	RHS	3040	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	RHS	3420	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	LHS	4200	Failed Patch	N	3	6	18	3
9/11/2016	Edderton Road		Rural	LHS	4490	Pavement Failure	N	2	3	6	3
9/11/2016	Edderton Road		Rural	LHS	4800	Pavement Failure	N	3	3	9	3
9/11/2016	Edderton Road		Rural	RHS	4870	Pavement Failure	N	2	40	80	3
9/11/2016	Edderton Road		Rural	F/W	5140	Failed Patch	N	6	25	150	3
9/11/2016	Edderton Road		Rural	RHS	6900	Pavement Failure	N	2	210	420	3
9/11/2016	Edderton Road		Rural	RHS	7240	Pavement Failure	N	2	60	120	3
9/11/2016	Edderton Road		Rural	Centre	7765	Dip	N	3	3	9	3
9/11/2016	Edderton Road		Rural	LHS	7840	Pavement Failure	N	2	40	80	3
9/11/2016	Edderton Road		Rural	LHS	8040	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	RHS	11810	Pavement Failure	N	2	30	60	3
9/11/2016	Edderton Road		Rural	Centre	11860	Pavement Failure	N	2	30	60	3
9/11/2016	Edderton Road		Rural	LHS	11930	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	RHS	11930	Pavement Failure	N	2	30	60	3
9/11/2016	Edderton Road		Rural	RHS	11995	Pavement Failure	N	3	20	60	3
9/11/2016	Edderton Road		Rural	RHS	12075	Pavement Failure	N	3	3	9	3
9/11/2016	Edderton Road		Rural	LHS	12100	Pavement Failure	N	2	220	440	3
9/11/2016	Edderton Road		Rural	RHS	12180	Pavement Failure	N	2	110	220	3
9/11/2016	Edderton Road		Rural	RHS	12320	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	LHS	12370	Pavement Failure	N	2	70	140	3
9/11/2016	Edderton Road		Rural	LHS	12470	Pavement Failure	N	2	40	80	3
9/11/2016	Edderton Road		Rural	RHS	12500	Pavement Failure	N	2	290	580	3
9/11/2016	Edderton Road		Rural	LHS	12920	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	RHS	12940	Pavement Failure	N	2	70	140	3
9/11/2016	Edderton Road		Rural	LHS	13065	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	RHS	13100	Pavement Failure	N	2	150	300	3
9/11/2016	Edderton Road		Rural	LHS	13200	Pavement Failure	N	2	110	220	3
9/11/2016	Edderton Road		Rural	LHS	13340	Pavement Failure	N	2	80	160	3
9/11/2016	Edderton Road		Rural	LHS	13500	Pavement Failure	N	2	20	40	3
9/11/2016	Edderton Road		Rural	LHS	13610	Pavement Failure	N	2	25	50	3
9/11/2016	Edderton Road		Rural	RHS	13800	Pavement Failure	N	2	50	100	3
9/11/2016	Edderton Road		Rural	LHS	13880	Pavement Failure	N	2	100	200	3
9/11/2016	Edderton Road		Rural	RHS	13960	Pavement Failure	N	2	40	80	3
19/01/2016	Ely St	Kayuga	Rural	F/W		Pavement Failure	N	3	3	9	3
2012	Eucalypt Ave	Muswellbrook	Urban		Carpark Entrance	Badly restored trench - width of	N	2	8	16	3
4/04/2016	Fern Close	Denman	Urban		2	Trench next to gutter	N	5	2	10	3
9/05/2013	Ferndale Road		Rural	RHS	3205	Pavement Failure	N	2	2.5	5	3
17/01/2017	Ferndale Road		Rural	LHS	1830	Pavement Failure	N	2	10	20	3
17/01/2017	Ferndale Road		Rural	RHS	1865	Pavement Failure	N	2	3	6	3
17/01/2017	Ferndale Road		Rural	RHS	1960	Pavement Failure	N	2	10	20	3
15/01/2014	Ferndale Road		Rural	F/W	2865	Pavement Failure	N	4	4	16	3
15/10/2014	Ferndale Road		Rural	LHS	2420	Pavement Failure	N	2	2	4	3
25/01/2016	Ferndale Road		Rural	F/W	2500	Pavement Failure	N	4	4	16	3
25/01/2016	Ferndale Road		Rural	LHS	3200	Pavement Failure	N	2	2	4	3
25/01/2016	Ferndale Road		Rural	RHS	3260	Pavement Failure	N	2	10	20	3
25/01/2016	Ferndale Road		Rural	RHS	3280	Pavement Failure	N	2	2	4	3

25/01/2016	Ferndale Road		Rural	RHS	3290	Pavement Failure	N	2	2	4	3
17/01/2017	Ferndale Road		Rural	RHS	3060	Pavement Failure	N	2	3	6	3
17/01/2017	Ferndale Road		Rural	LHS	3080	Pavement Failure	N	2	3	6	3
5/04/2017	Flanders Avenue	Muswellbrook	Urban		Int Dumaresq	Pavement Failure	N	3	7	21	3
5/04/2017	Flanders Avenue	Muswellbrook	Urban		14	Pavement Failure	N	3	3	9	3
5/04/2017	Flanders Avenue	Muswellbrook	Urban		15	Pavement Failure	N	3	5	15	3
18/11/2019	Flanders Avenue	Muswellbrook	Urban		18a	Pavement Failure	N	3	3	9	3
2012	Fleming St	Muswellbrook	Urban		4\6	Pavement Failure	N	2	10	20	3
20/05/2016	Fleming St	Muswellbrook	Urban		12	Pavement Failure	N	3	3	9	3
20/05/2016	Fleming St	Muswellbrook	Urban		14	Pavement Failure	N	5	10	50	3
11/04/2017	Fleming St	Muswellbrook	Urban		16	Pavement Failure	N	3	3	9	3
11/04/2017	Fleming St	Muswellbrook	Urban		8	Pavement Failure	Y	2	5	10	3
11/04/2017	Fleming St	Muswellbrook	Urban		3	Pavement Failure	N	2	2	4	3
11/02/2020	Fleming St	Muswellbrook	Urban		11\15	Pavement Failure	N	2	40	80	3
8/01/2015	Foley Street	Muswellbrook	Urban		Various	Trenches	N				3
12/02/2018	Ford St	Muswellbrook	Urban		opp 52	Failed Patch	N	2	30	60	3
2012	Ford St	Muswellbrook	Urban		72	Pavement Failure	N	2	2	4	3
23/12/2014	Ford St	Muswellbrook	Urban		72	Trench	N	2	12	24	3
6/03/2017	Ford St	Muswellbrook	Urban		Scout Hall	Pavement Failure	N	5	5	25	3
6/03/2017	Ford St	Muswellbrook	Urban		6	Trench	N	2	10	20	3
6/03/2017	Ford St	Muswellbrook	Urban		Int Wilkins	Pavement Failure	N	3	3	9	3
12/02/2018	Ford St	Muswellbrook	Urban		78	Trench	N	2	8	16	3
12/02/2018	Ford St	Muswellbrook	Urban		63	Failed patch	N	2	2	4	3
12/02/2018	Ford St	Muswellbrook	Urban		39-41	Pavement Failure	N	2	40	80	3
2012	George St	Muswellbrook	Urban		Cnr Bligh Ln	Failure near K&G	N	4	4	16	3
18/02/2016	Giants Creek Road		Rural	RHS	94	Depression	N	2	2	4	3
18/02/2016	Giants Creek Road		Rural	LHS	1230	Pavement Failure	N	2	2	4	3
17/01/2017	Giants Creek Road		Rural	LHS	1630	Pavement Failure	N	3	3	9	3
17/01/2017	Giants Creek Road		Rural	RHS	2870	Pavement Failure	N	3	3	9	3
24/01/2018	Giants Creek Road		Rural	RHS	7750	Pavement Failure	N	3	3	9	3
17/01/2017	Giants Creek Road		Rural	RHS	9770	Pavement Failure	N	2	2	4	3
17/01/2017	Giants Creek Road		Rural	F/W	12340	Pavement Failure	N	2	5	10	3
18/02/2016	Giants Creek Road		Rural	RHS	14040	Pavement Failure	N	2	2	4	3
24/01/2018	Giants Creek Road		Rural	F/W	14060	Pavement Failure	N	2	4	8	3
18/02/2016	Giants Creek Road		Rural	RHS	16125	Heavy patch needed	N	5	10	50	3
10/04/2017	Glen Munro Road	Muswellbrook	Urban	LHS	Int Thomas Mitchell Drive	Pavement Failure	N	3	3	9	3
5/04/2016	Grevillea St	Muswellbrook	Urban		12	Pavement Failure	N	2	10	20	3
12/01/2015	Grey Gum Road	Denman	Urban		Various	Trenches x 6	N	8	12	96	3
17/04/2018	Hakea Drive	Muswellbrook	Urban		18	Pavement Failure	N	2	3	6	3
5/04/2017	Hastings Street	Muswellbrook	Urban		11\13	Pavement Failure	N	9	20	180	3
9/01/2020	Haydon St	Muswellbrook	Urban		1	Dip	N	2	2	4	3
6/12/2017	Hebden Road		Rural	F/W	0-20	Pavement Failure	N	8	20	160	3
6/12/2017	Hebden Road		Rural	LHS	930	Pavement Failure	N	3	2	6	3
6/12/2017	Hebden Road		Rural	LHS	1240	Pavement Failure	N	3	2	6	3
16/02/2021	Hebden Road		Rural	LHS	1735	Pavement Failure	N	2	2	4	3
6/12/2017	Hebden Road		Rural	LHS	2760	Pavement Failure	N	3	2	6	3
6/12/2017	Hebden Road		Rural	RHS	2800	Pavement Failure	N	2	40	80	3
6/12/2017	Hebden Road		Rural	LHS	3770	Pavement Failure	N	2	5	10	3
16/02/2021	Hebden Road		Rural	RHS	4120	Pavement Failure	N	2	2	4	3
6/12/2017	Hebden Road		Rural	LHS	4960	Pavement Failure	N	2	80	160	3

16/02/2021	Hebden Road		Rural	Centre	5380	Pavement Failure	N	2	2	4	3
16/02/2018	Henry Dangar Rd	Muswellbrook	Urban		Roundabout Day St	Pavement Failure	N	3	2	6	3
2012	Hill St	Muswellbrook	Urban		115/117	Trench 1/2 way across road		2	10	20	3
12/12/2019	Hill St	Muswellbrook	Urban		115	Pavement failure	N	2	8	16	3
6/01/2015	Hill St	Muswellbrook	Urban		122	Trench (W&W)	N	2	8	16	3
6/01/2015	Hill St	Muswellbrook	Urban		123	Trench	N	2	18	36	3
18/04/2018	Hill St	Muswellbrook	Urban		Opp 173	Pavement Failure	N	2	3	6	3
18/04/2018	Hill St	Muswellbrook	Urban		124	Pavement Failure	N	2	5	10	3
4/12/2013	Horseshoe Road		Rural	F/W	3975	Pavement Failure	N	6	75	450	3
23/01/2017	Horseshoe Road		Rural	F/W	680	Over culvert	N	6	2	12	3
23/01/2017	Horseshoe Road		Rural	F/W	708	Pavement Failure	N	6	20	120	3
23/01/2017	Horseshoe Road		Rural	F/W	1090	Over culvert	N	6	10	60	3
23/01/2017	Horseshoe Road		Rural	F/W	2020	Over culvert	N	6	4	24	3
23/01/2017	Horseshoe Road		Rural	RHS	2070	Pavement failure	N	2	3	6	3
22/02/2016	Horseshoe Road		Rural	F/W	2220	Over culvert	N	6	5	30	3
23/01/2017	Horseshoe Road		Rural	F/W	2350	Pavement Failure	N	6	5	30	3
22/02/2016	Horseshoe Road		Rural	F/W	2360	Pavement Failure	N	6	5	30	3
23/01/2017	Horseshoe Road		Rural	F/W	2480	Pavement Failure	N	6	30	180	3
22/02/2016	Horseshoe Road		Rural	F/W	2485	Centre shove	N	6	20	120	3
22/02/2016	Horseshoe Road		Rural		2670	Pavement Failure	N	2	300	600	3
23/01/2017	Horseshoe Road		Rural	RHS	2740	Pavement Failure	N	2	400	800	3
22/02/2016	Horseshoe Road		Rural	F/W	3090	Pavement Failure	N	6	50	300	3
21/03/2017	Humphries St	Muswellbrook	Urban		6	Pavement Failure	N	3	3	9	3
7/02/2017	Hungerford Road		Rural	F/W	1690	Over culvert	N	4	5	20	3
9/12/2014	Hunter Street	Muswellbrook	Urban		Karoola Park	Dip over stormwater drain	N	2	23	46	3
19/02/2018	Hunter Street	Denman	Urban		32	Pavement Failure	N	3	3	9	3
23/12/2014	Hunter Terrace	Muswellbrook	Urban		3	Trench x 2	N	4	18	72	3
23/12/2014	Hunter Terrace	Muswellbrook	Urban		36	Pavement Failure	N	2	10	20	3
23/12/2014	Hunter Terrace	Muswellbrook	Urban		Int Lower Hill Street	2 x Pavement Failures	N	4	4	16	3
7/03/2017	Hunter Terrace	Muswellbrook	Urban		26 (Centre)	Pavement Failure	N	3	10	30	3
22/11/2019	Hunter Terrace	Muswellbrook	Urban		3	Trench	N	2	10	20	3
4/04/2016	Hyde St	Denman	Urban		2	Trench	N	8	2	16	3
4/04/2016	Hyde St	Denman	Urban		Int Macauley St	Pavement Failure	N	3	3	9	3
5/04/2016	Ironbark Rd	Muswellbrook	Urban		Lot 127	Trench	N	8	3	24	3
5/04/2016	Ironbark Rd	Muswellbrook	Urban		Int Calgaroo	Trench	N	8	2	16	3
10/04/2017	Ironbark Rd	Muswellbrook	Urban		1 Rutherford Road	Rippling effect in pavement	N	3	2	6	3
10/04/2017	Ironbark Rd	Muswellbrook	Urban		42	Trench	N	2	10	20	3
10/04/2017	Ironbark Rd	Muswellbrook	Urban		1-1c	Failed patch	N	2	20	40	3
8/12/2014	Isobella St	Muswellbrook	Urban		15	Pavement Failure	Y	2	80	160	3
16/02/2018	Jeans St	Muswellbrook	Urban		5	Trench	N	2	3	6	3
15/01/2015	Jordan St	Muswellbrook	Urban		Length of road	Pavement Failure	Y	2	140	280	3
20/01/2015	Kamilaroi Street	Muswellbrook	Urban		8	Pavement Failure	N	2	3	6	3
7/04/2016	Kamilaroi Street	Muswellbrook	Urban		36	Trench x 2	N	16	2	32	3
12/04/2017	Kamilaroi Street	Muswellbrook	Urban		6	Patch needed		2	3	6	3
12/04/2017	Kamilaroi Street	Muswellbrook	Urban		1	Trench	N	2	9	18	3
5/04/2016	Karri Place	Muswellbrook	Urban		3	Pavement Failure	N	3	3	9	3
20/04/2021	Kayuga Road		Rural	RHS	3650	Pavement Failure	N	2	20	40	3
18/12/2017	Kayuga Road		Rural	LHS	3790	Pavement Failure	N	2	20	40	3
12/11/2016	Kayuga Road		Rural	LHS	3970	Pavement Failure	N	2	30	60	3
12/11/2016	Kayuga Road		Rural	RHS	4050	Pavement Failure	N	2	10	20	3

12/11/2016	Kayuga Road		Rural	RHS	4130	Pavement Failure	N	2	10	20	3
6/01/2014	Kayuga Road		Rural	LHS	4190	Pavement Failure	N	2	3	6	3
12/11/2016	Kayuga Road		Rural	RHS	4250	Pavement Failure	N	2	50	100	3
12/11/2016	Kayuga Road		Rural	RHS	4440	Pavement Failure	N	2	30	60	3
12/11/2016	Kayuga Road		Rural	LHS	4710	Pavement Failure	N	2	10	20	3
18/12/2017	Kayuga Road		Rural	LHS	4810	Pavement Failure	N	2	5	10	3
18/12/2017	Kayuga Road		Rural	LHS	4830	Pavement Failure	N	2	2	4	3
24/04/2015	Kayuga Road		Rural	RHS	4840	Pavement Failure	N	2	7	14	3
19/01/2016	Kayuga Road		Rural	F/W	4920	Trench	N	2	7	14	3
12/11/2016	Kayuga Road		Rural	LHS	4960	Pavement Failure	N	3	10	30	3
18/12/2017	Kayuga Road		Rural	RHS	4990	Pavement Failure	N	2	10	20	3
12/11/2016	Kayuga Road		Rural	RHS	5010	Pavement Failure	N	2	70	140	3
12/11/2016	Kayuga Road		Rural	LHS	5040	Pavement Failure	N	2	10	20	3
12/11/2016	Kayuga Road		Rural	RHS	5050	Pavement Failure	N	2	100	200	3
12/11/2016	Kayuga Road		Rural	LHS	5090	Pavement Failure	N	2	20	40	3
12/11/2016	Kayuga Road		Rural	LHS	6150	Pavement Failure	N	2	20	40	3
12/11/2016	Kayuga Road		Rural	RHS	6300	Pavement Failure	N	3	5	15	3
4/04/2016	Kenilworth St	Denman	Urban		21	Trench	N	8	2	16	3
2012	King St	Muswellbrook	Urban		3	2x2 heavy patch		2	2	4	3
2012	King St	Muswellbrook	Urban		Int Upper William Street	Pavement Failure		2	2	4	3
6/01/2015	King St	Muswellbrook	Urban		63	Trench	N	2	11	22	3
6/01/2015	King St	Muswellbrook	Urban		65	Trench	N	2	11	22	3
6/01/2015	King St	Muswellbrook	Urban		80	Pavement Failure	N	2	2	4	3
27/05/2016	King Street	Muswellbrook	Urban		2\4	Pavement Failure	N	2	2	4	3
27/05/2016	King Street	Muswellbrook	Urban		70-72	Pavement Failure	N	2	10	20	3
14/01/2015	Kokoda St	Muswellbrook	Urban		Int Tarakan	Trench	N	2	10	20	3
27/05/2016	Koombahla St	Muswellbrook	Urban		Cnr Roger St	Trench x 2	N	2	18	36	3
20/05/2016	Lae St	Muswellbrook	Urban		Cul de sac	Pavement Failure	N	2	2	4	3
20/03/2017	Lexia St	Muswellbrook	Urban		14	Pavement Failure	N	3	3	9	3
27/03/2018	Lexia St	Muswellbrook	Urban		18	Trench	N	2	8	16	3
15/11/2016	Logues Lane		Rural	LHS	2100	Pavement Failure	N	2	2	4	3
15/01/2015	Lorne St	Muswellbrook	Urban		36	Pavement Failure	N	2	5	10	3
15/01/2015	Lorne St	Muswellbrook	Urban		42	Trench along gutter		2	10	20	3
11/04/2017	Lorne St	Muswellbrook	Urban		3	Pavement failure	N	3	2	6	3
11/04/2017	Lorne St	Muswellbrook	Urban		Cnr Forbes	Pavement failure	N	3	3	9	3
18/04/2018	Lorne St	Muswellbrook	Urban		32	Pavement failure	N	3	5	15	3
9/04/2018	Lorne St	Muswellbrook	Urban		14	Pavement failure	N	3	3	9	3
4/02/2020	Lorne St	Muswellbrook	Urban		34	Pavement failure	N	3	3	9	3
23/12/2014	Lower Brook St	Muswellbrook	Urban		17	Trench	N	2	5	10	3
6/03/2017	Lower Brook St	Muswellbrook	Urban		High School Farm	Failed patch	N	3	20	60	3
9/04/2018	Lower Brook St	Muswellbrook	Urban		Verlie Weidmann Village	Pavement Failure	N	3	10	30	3
23/12/2014	Lower Hill St	Muswellbrook	Urban		51	Trench	N	2	10	20	3
23/12/2014	Lower Hill St	Muswellbrook	Urban		79 (at corner)	Cracking	N	2	2	4	3
7/03/2017	Lower Hill St	Muswellbrook	Urban		62	Pavement Failure	N	2	3	6	3
22/11/2019	Lower Hill St	Muswellbrook	Urban		70	Pavement Failure	N	3	3	9	3
22/11/2019	Lower Hill St	Muswellbrook	Urban		54	Trench 1/2 way	N	2	7	14	3
11/04/2017	Maitland St	Muswellbrook	Urban		Repco	Cracking	N	2	5	10	3
20/03/2017	Malbec St	Muswellbrook	Urban		Int Cabernet	Trench	N	2	15	30	3
29/10/2019	Malbec St	Muswellbrook	Urban		9	Pavement Failure	N	2	2	4	3
20/12/2017	Mangoola Road		Rural	LHS	45	Pavement Failure	N	3	3	9	3

21/01/2016	Mangoola Road		Rural	RHS	1150	Pavement Failure	N	2	2	4	3
2012	Mangoola Road		Rural	LHS	1620	Pavement Failure	N	4	5	20	3
8/01/2014	Mangoola Road		Rural	LHS	1960	Pavement Failure	N	2	2	4	3
20/12/2017	Mangoola Road		Rural	F/W	2095	Pavement Failure	N	4	2	8	3
8/01/2014	Mangoola Road		Rural	F/W	2275	Trench	N	2	6	12	3
2012	Mangoola Road		Rural	RHS	2409	Pavement Failure	N	2.5	30	75	3
20/12/2017	Mangoola Road		Rural	F/W	2720	Pavement Failure	N	4	2	8	3
2012	Mangoola Road		Rural	LHS	2865	Pavement Failure	N	2.5	2.5	6.25	3
20/12/2017	Mangoola Road		Rural	F/W	2935	Pavement Failure	N	4	2	8	3
26/08/2016	Mangoola Road		Rural	LHS	4740	Pavement Failure	N	2.5	5	12.5	3
21/01/2016	Mangoola Road		Rural	F/W	8417	Trench	N	2	4	8	3
10/09/2014	Mangoola Road		Rural	LHS	10630	Pavement Failure	N	2	3	6	3
21/01/2016	Mangoola Road		Rural	LHS	12157	Pavement Failure	N	2	5	10	3
21/01/2016	Mangoola Road		Rural	RHS	12460	Pavement Failure	N	2	2	4	3
21/01/2016	Mangoola Road		Rural	RHS	12560	Pavement Failure	N	2	3	6	3
21/01/2016	Mangoola Road		Rural	LHS	12603	Pavement Failure	N	2	20	40	3
21/01/2016	Mangoola Road		Rural	RHS	12620	Pavement Failure	N	2	15	30	3
7/04/2017	Market Lane	Muswellbrook	Urban		Zacks Automotive	Trench	N	2	11	22	3
16/10/2014	Martindale Road		Rural	RHS	1080	Pavement Failure	N	2	60	120	3
16/10/2014	Martindale Road		Rural	RHS	1180	Pavement Failure	N	2	5	10	3
23/01/2017	Martindale Road		Rural	RHS	1220	Pavement Failure	N	2	10	20	3
23/01/2017	Martindale Road		Rural	LHS	2790	Pavement Failure	N	2	3	6	3
23/01/2017	Martindale Road		Rural	LHS	4080	Pavement Failure	N	2	5	10	3
18/02/2016	Martindale Road		Rural	RHS	4425	Pavement Failure	N	2	3	6	3
18/02/2016	Martindale Road		Rural	RHS	4570	Pavement Failure	N	2	15	30	3
18/02/2016	Martindale Road		Rural	RHS	4610	Pavement Failure	N	2	20	40	3
18/02/2016	Martindale Road		Rural	RHS	4790	Pavement Failure	N	2	20	40	3
23/01/2017	Martindale Road		Rural	LHS	7810	Pavement Failure	N	2	5	10	3
15/01/2014	Martindale Road		Rural	LHS	7860	Pavement Failure	N	2	3	6	3
16/10/2014	Martindale Road		Rural	LHS	8085	Pavement Failure	N	3	20	60	3
2012	Martindale Road		Rural	LHS	8187	Pavement Failure	N	2.5	5	12.5	3
18/02/2016	Martindale Road		Rural	F/W	8220	Pavement Failure	N	6	10	60	3
18/02/2016	Martindale Road		Rural	RHS	8650	Pavement Failure	N	2	5	10	3
15/01/2014	Martindale Road		Rural	F/W	8780	Trench	N	2	8	16	3
22/02/2016	Martindale Road		Rural	RHS	8910	Pavement Failure	N	2	5	10	3
23/01/2017	Martindale Road		Rural	RHS	9580	Pavement Failure - over culvert	N	2	5	10	3
16/10/2014	Martindale Road		Rural	F/W	9860	Over culvert	N	2	7	14	3
23/01/2017	Martindale Road		Rural	RHS	13455	Pavement failure	N	2	2	4	3
18/02/2016	Martindale Road		Rural	LHS	14400	Pavement Failure	N	3	3	9	3
22/01/2018	Martindale Road		Rural	LHS	16490	Pavement Failure	N	2	2	4	3
16/10/2014	Martindale Road		Rural	RHS	17330	Pavement Failure	N	2	10	20	3
23/01/2017	Martindale Road		Rural		17760	Pavement Failure	N	2	5	10	3
23/01/2017	Martindale Road		Rural	F/W	18384	Pavement Failure	N	6	10	60	3
22/01/2018	Martindale Road		Rural	F/W	19160	Pavement Failure	N	2	6	12	3
15/01/2014	Martindale Road		Rural	RHS	19640	Pavement Failure	N	2	3	6	3
15/01/2014	Martindale Road		Rural	F/W	20260	Pavement Failure	N	5	30	150	3
23/01/2017	Martindale Road		Rural	LHS	21000	Pavement Failure	N	2	5	10	3
15/01/2014	Martindale Road		Rural	RHS	21140	Pavement Failure	N	3	20	60	3
4/04/2016	Martindale Street	Denman	Urban		30	Pavement Failure	N	2	2	4	3
14/03/2017	Martindale Street	Denman	Urban		16	Failed patch	N	2	15	30	3

12/04/2017	McClintock Dr	Muswellbrook	Urban		20\22	Pavement Failure	Y	2	30	60	3
19/02/2018	Merino Street	Denman	Urban		1	Failed patch	N	2	5	10	3
19/02/2018	Merino Street	Denman	Urban		1	Trench	N	2	7	14	3
23/05/2016	Merriwa Road	Sandy Hollow	Urban		Service Station	Pavement Failure	N	2	2	4	3
23/05/2016	Merriwa Road	Sandy Hollow	Urban		Opp Hotel	Pavement Failure	Y	2	20	40	3
2012	Merton Street	Denman	Urban		9	Pavement Sink	N	2	2	4	3
2012	Merton Street	Denman	Urban		12	Pavement Sink	Y	2	2	4	3
2012	Merton Street	Denman	Urban		16	Pavement Sink	Y	2	2	4	3
7/04/2017	Midanga Ave	Muswellbrook	Urban		3	Pavement failure	N	2	3	6	3
7/04/2017	Mill Street	Muswellbrook	Urban		9	Pavement failure	N	4	12	48	3
16/10/2013	Milpera Drive		Rural		167	Trench	N	2	6	12	3
16/10/2013	Milpera Drive		Rural		515	Trench	N	2	6	12	3
16/10/2013	Milpera Drive		Rural		550	Trench	N	2	6	12	3
11/01/2016	Milpera Drive		Rural		95	Trench	N	2	6	12	3
15/01/2015	Mitchell Street	Muswellbrook	Urban		27	2 x trenches across road	N	4	10	40	3
15/01/2015	Mitchell Street	Muswellbrook	Urban		30	Pavement Failure x 2	N	2	6	12	3
23/05/2016	Mitchell Street	Muswellbrook	Urban		26	Pavement Failure	N	3	2	6	3
11/04/2017	Mitchell Street	Muswellbrook	Urban		34	Pavement failure	N	3	3	9	3
9/04/2018	Mitchell Street	Muswellbrook	Urban		81 Sydney St	Pavement failure	N	2	5	10	3
4/02/2020	Mitchell Street	Muswellbrook	Urban		5	Pavement failure	N	2	30	60	3
22/05/2013	Mt Dangar Road		Rural		3260	Pavement Failure	N	2	2	4	3
24/01/2018	Mt Dangar Road		Rural	F/W	5170	Pavement Failure	N	3	5	15	3
7/12/2017	Muscle Creek Road		Rural	RHS	3520	Pavement Failure	N	2	5	10	3
23/04/2013	Muscle Creek Road		Rural	RHS	3540	Pavement Failure	N	2	5	10	3
7/12/2017	Muscle Creek Road		Rural	F/W	3665	Trench	N	6	2	12	3
17/10/2013	Muscle Creek Road		Rural	LHS	4880	Pavement Failure	N	2	5	10	3
23/08/2016	Muscle Creek Road		Rural	RHS	6665	Pavement Failure	N	3	10	30	3
23/08/2016	Muscle Creek Road		Rural	LHS	6910	Pavement Failure	N	4	20	80	3
23/08/2016	Muscle Creek Road		Rural	RHS	7530	Heavy Patch	N	2	10	20	3
12/01/2016	Muscle Creek Road		Rural	RHS	7600	Pavement Failure	N	4	2.5	10	3
12/01/2016	Muscle Creek Road		Rural	LHS	8740	Pavement Failure	N	2	2	4	3
17/10/2013	Muscle Creek Road		Rural	RHS	9000	Pavement Failure - at floodway	N	2	2	4	3
11/04/2017	Nowland St	Muswellbrook	Urban		7	Pavement Failure	N	2	3	6	3
11/04/2017	Nowland St	Muswellbrook	Urban		Cnr Forbes	Pavement Failure	N	2	2	4	3
16/04/2018	Nowland St	Muswellbrook	Urban		2\4	Pavement Failure	N	2	20	40	3
9/04/2018	Nowland St	Muswellbrook	Urban		6-10	Pavement Failure	N	2	40	80	3
4/02/2020	Nowland St	Muswellbrook	Urban		13\15	Pavement Failure	N	2	40	80	3
4/04/2016	Ogilvie Street	Denman	Urban		Denman Hotel	Cracking/shove at driveway	N	15	2.5	37.5	3
4/04/2016	Ogilvie Street	Denman	Urban		1	Pavement Failure	N	2	2	4	3
4/04/2016	Ogilvie Street	Denman	Urban		3	Trench	N	10	2	20	3
4/04/2016	Ogilvie Street	Denman	Urban		Paxton-Virginia	6 x Trenches	N	8	12	96	3
17/04/2018	Ooranga St	Muswellbrook	Urban		8	Pavement failure	N	2	2	4	3
28/01/2020	Ooranga St	Muswellbrook	Urban		7	Trench	N	2	8	16	3
11/04/2017	Osborn Ave	Muswellbrook	Urban		Int Ruth White Ave	Trench	N	2	10	20	3
15/11/2016	Overton Road		Rural	LHS	705	Pavement failure	N	2	2	4	3
4/04/2016	Palace Street	Denman	Urban		4	Pavement Failure	N	2	2	4	3
15/03/2017	Palace Street	Denman	Urban		7-33	Trenches x 5?	N	8	10	80	3
16/10/2013	Pamger Drive		Rural	RHS	57	Pavement Failure	N	2	2	4	3
11/01/2016	Pamger Drive		Rural	LHS	1545	Pavement Failure	N	3	3	9	3
20/05/2016	Paterson Pl	Muswellbrook	Urban		Int Wollombi Road	Pavement Failure	N	3	3	9	3

4/04/2016	Paxton St	Denman	Urban		23	Pavement Failure	N	3	3	9	3
15/03/2017	Paxton St	Denman	Urban		64	Trench	N	4	12	48	3
19/02/2018	Paxton St	Denman	Urban		26	Pavement failure	N	2	2	4	3
19/02/2018	Paxton St	Denman	Urban		Cnr Crinoline	Pavement failure	Y	2	5	10	3
19/02/2018	Paxton St	Denman	Urban		School	Trench	N	2	5	10	3
19/02/2018	Paxton St	Denman	Urban		opp 49	Pavement failure	N	3	3	9	3
19/02/2018	Paxton St	Denman	Urban		68	Trench	N	2	12	24	3
10/01/2020	Paxton St	Denman	Urban		71	Pavement failure	N	3	3	9	3
10/01/2020	Paxton St	Denman	Urban		43	Pavement failure	N	2	5	10	3
10/01/2020	Paxton St	Denman	Urban		9	Pavement failure	N	2	5	10	3
2/12/2014	Queen Street	Muswellbrook	Urban		52	Pavement Failure	N	3	10	30	3
2/12/2014	Queen Street	Muswellbrook	Urban		53	Trench	N	2	8	16	3
30/03/2016	Queen Street	Muswellbrook	Urban		65	Pavement Failure	N	2	3	6	3
30/03/2016	Queen Street	Muswellbrook	Urban		Corner Cook Street	Trench	N	3	12	36	3
30/03/2016	Queen Street	Muswellbrook	Urban		18	Pavement Failure	N	3	5	15	3
20/03/2017	Queen Street	Muswellbrook	Urban		81 King St	2 x Pavement Failures	N	4	4	16	3
20/03/2017	Queen Street	Muswellbrook	Urban		Cnr King	Trench	N	2	7	14	3
20/03/2017	Queen Street	Muswellbrook	Urban		82 King	Trench	N	2	7	14	3
20/03/2017	Queen Street	Muswellbrook	Urban		Int Bowman St	Pavement failure	N	3	9	27	3
20/03/2017	Queen Street	Muswellbrook	Urban		74	Pavement failure	N	2	2	4	3
4/04/2018	Queen Street	Muswellbrook	Urban		10	Pavement failure	N	7	70	490	3
14/01/2015	Racecourse Road	Muswellbrook	Urban		11	Trench	N	2	6	12	3
11/01/2017	Reedy Creek Road		Rural	RHS	755	Pavement failure	N	2	5	10	3
11/01/2017	Reedy Creek Road		Rural	LHS	1145	Pavement failure	N	2	5	10	3
2012	Richmond Grove Road		Rural	F/W	0-20	Pavement Failure	N	8	20	160	3
15/01/2014	Richmond Grove Road		Rural	RHS	1710	Pavement Failure	N	2	2	4	3
15/01/2014	Richmond Grove Road		Rural	RHS	2047	Pavement Failure	N	2	2	4	3
15/01/2014	Richmond Grove Road		Rural	LHS	2395	Pavement Failure	N	2	2	4	3
22/10/2014	Richmond Grove Road		Rural	RHS	2780	Pavement Failure	N	2	2	4	3
25/02/2016	Richmond Grove Road		Rural	RHS	2582	Pavement Failure	N	2	2	4	3
5/04/2017	Richmond Street	Muswellbrook	Urban		Int Bligh St	Trench	N	2	9	18	3
4/01/2018	Ridgelands Road		Rural	RHS	100	Pavement failure	N	2	25	50	3
10/02/2016	Ridgelands Road		Rural	F/W	1090	Trench	N	2	7	14	3
26/09/2014	Ridgelands Road		Rural	F/W	1720	Pavement Failure	N	6	2	12	3
10/02/2016	Ridgelands Road		Rural	RHS	2600	Pavement Failure	N	2	2	4	3
26/09/2014	Ridgelands Road		Rural	LHS	3092	Pavement Failure	N	2	3	6	3
10/02/2016	Ridgelands Road		Rural	LHS	4228	Pavement Failure	N	3	3	9	3
10/02/2016	Ridgelands Road		Rural	RHS	4390	Pavement Failure	N	2	2	4	3
26/09/2014	Ridgelands Road		Rural	RHS	6413	Pavement Failure	N	4	4	16	3
2012	Ridgelands Road		Rural	LHS	7906	Pavement Failure	N	2.5	2.5	6.25	3
4/01/2018	Ridgelands Road		Rural	LHS	8010	Pavement failure	N	2	2	4	3
10/02/2016	Ridgelands Road		Rural	LHS	9000	Pavement Failure	N	3	3	9	3
10/02/2016	Ridgelands Road		Rural	RHS	9180	Pavement Failure	N	3	3	9	3
15/11/2016	Rosebrook Lane		Rural	F/W	540	Pavement Failure	N	6	30	180	3
15/11/2016	Rosebrook Lane		Rural	LHS	605	Pavement Failure	N	3	2	6	3
25/01/2016	Rosemount Road		Rural	RHS	139	Pavement Failure	N	2	3	6	3
22/01/2018	Rosemount Road		Rural	LHS	2660	Pavement Failure	N	2	3	6	3
22/01/2018	Rosemount Road		Rural	RHS	2660	Pavement Failure	N	2	3	6	3
22/01/2018	Rosemount Road		Rural	LHS	2930	Pavement Failure	N	2	2	4	3
22/01/2018	Rosemount Road		Rural	RHS	3100	Pavement Failure	N	2	3	6	3

25/01/2016	Rosemount Road		Rural	F/W	3140	Trench	N	2	8	16	3
22/01/2018	Rosemount Road		Rural	CENTRE	3290	Pavement Failure	N	4	4	16	3
22/01/2018	Rosemount Road		Rural		3300	Pavement Failure	N	2	20	40	3
22/01/2018	Rosemount Road		Rural		3340	Pavement Failure	N	2	20	40	3
22/01/2018	Rosemount Road		Rural		3900	Pavement Failure	N	2	60	120	3
22/01/2018	Rosemount Road		Rural		8075	Pavement Failure	N	2	20	40	3
22/01/2018	Rosemount Road		Rural	RHS	8260	Pavement Failure	N	2	3	6	3
22/01/2018	Rosemount Road		Rural	LHS	8345	Pavement Failure	N	2	20	40	3
22/01/2018	Rosemount Road		Rural	RHS	8345	Pavement Failure	N	2	100	200	3
22/01/2018	Rosemount Road		Rural	RHS	8600	Pavement Failure	N	2	5	10	3
22/01/2018	Rosemount Road		Rural	RHS	8650	Pavement Failure	N	2	10	20	3
22/01/2018	Rosemount Road		Rural	RHS	8850	Pavement Failure	N	2	60	120	3
2012	Rosemount Road		Rural	LHS	9579	Pavement Failure	N	2.5	10	25	3
2012	Rosemount Road		Rural	RHS	9637	Pavement Failure	N	7	15	105	3
22/01/2018	Rosemount Road		Rural	RHS	9750	Pavement Failure	N	2	20	40	3
2012	Rosemount Road		Rural	LHS	9761	Pavement Failure	N	2.5	25	62.5	3
2012	Rosemount Road		Rural	RHS	9869	Pavement Failure	N	3	15	45	3
1/10/2014	Rosemount Road		Rural	RHS	13890	Pavement Failure	N	2	10	20	3
2012	Roxburgh Road		Rural	RHS	620	Pavement Failure	N	3	3	9	3
25/01/2016	Roxburgh Road		Rural		4250	Trench	N	2.5	5	12.5	3
25/01/2016	Roxburgh Road		Rural	LHS	980	Pavement Failure	N	2	5	10	3
20/12/2017	Roxburgh Road		Rural	F/W	2570	Pavement Failure	N	4	10	40	3
25/01/2016	Roxburgh Road		Rural	LHS	6950	Pavement Failure	N	3	3	9	3
20/12/2017	Roxburgh Road		Rural	LHS	6510	Pavement Failure	N	3	3	9	3
20/12/2017	Roxburgh Road		Rural	F/W	7190	Trench	N	4	2	8	3
20/12/2017	Roxburgh Road		Rural	LHS	7630	Pavement Failure	N	3	2	6	3
14/10/2013	Ruth White Avenue	Muswellbrook	Urban		Sanray Crescent	Trench	N	8	2.5	20	3
20/01/2015	Ruth White Avenue	Muswellbrook	Urban		21	Pavement Failure	N	3	3	9	3
20/01/2015	Ruth White Avenue	Muswellbrook	Urban		Cnr Thompson	Pavement Failure	N	2	10	20	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		Int Thompson	Trench	N	15	2	30	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		5	Trench/Subsidence	N	8	2	16	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		7	Trench	N	8	2	16	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		11	2 x trenches across road	N	16	2	32	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		16	Trench	N	8	2	16	3
19/05/2016	Ruth White Avenue	Muswellbrook	Urban		29	Trench	N	8	2	16	3
11/04/2017	Ruth White Avenue	Muswellbrook	Urban		45	Pavement failure	N	3	3	9	3
18/04/2018	Ruth White Avenue	Muswellbrook	Urban		49	Pavement failure	N	2	3	6	3
28/01/2020	Rutherford Road	Muswellbrook	Urban		Indoor Sports Centre	Failed Patch	Y	3	40	120	3
12/04/2017	Rutherford Road	Muswellbrook	Urban		Entry to ISC Carpark	Pavment Failure	N	3	3	9	3
1/05/2019	Rutherford Road	Muswellbrook	Urban		cnr Ironbark	trench	N	2	7	14	3
17/11/2016	Sandy Creek Road		Rural	RHS	6280	Pavement Failure	N	2	100	200	3
17/11/2016	Sandy Creek Road		Rural	RHS	6810	Pavement Failure	N	2	50	100	3
17/11/2016	Sandy Creek Road		Rural	CENTRE	7120	Pavement Failure	N	2	10	20	3
17/11/2016	Sandy Creek Road		Rural	LHS	7510	Pavement Failure	N	3	20	60	3
17/11/2016	Sandy Creek Road		Rural	CENTRE	8820	Pavement Failure	N	2	10	20	3
17/11/2016	Sandy Creek Road		Rural	RHS	10960	Pavement Failure	N	2	5	10	3
15/01/2015	Sanray Cr	Muswellbrook	Urban		4	Pavement Failure	N	3	2	6	3
23/12/2014	Scott St	Muswellbrook	Urban		10	Trench	N	2	10	20	3
23/12/2014	Scott St	Muswellbrook	Urban		14	Pavement Failure	N	2	2	4	3
23/12/2014	Scott St	Muswellbrook	Urban		15	Trench	N	2	10	20	3

23/12/2014	Scott St	Muswellbrook	Urban		17	Trench	N	2	10	20	3
23/12/2014	Scott St	Muswellbrook	Urban		18	Pavement Failure	N	2	2	4	3
7/03/2017	Scott St	Muswellbrook	Urban		5	Pavement Failure	N	2	2	4	3
12/02/2018	Scott St	Muswellbrook	Urban		51	Pavement Failure	N	2	2	4	3
7/03/2017	Scott St	Muswellbrook	Urban	F/W	43	Trench	N	2	10	20	3
7/03/2017	Scott St	Muswellbrook	Urban	F/W	29	Trench	N	2	10	20	3
7/03/2017	Scott St	Muswellbrook	Urban		25	Pavement Failure	N	2	2	4	3
7/03/2017	Scott St	Muswellbrook	Urban	F/W	16	trench	N	2	10	20	3
11/01/2016	Scrumlo Road		Rural	LHS	2050	Pavement Failure	N	2	2	4	3
11/01/2016	Scrumlo Road		Rural	LHS	2250	Pavement Failure	N	2	2	4	3
7/04/2016	Shaw Cr	Muswellbrook	Urban		15\17	Subsidence at new kerb	N	2	20	40	3
7/04/2016	Shaw Cr	Muswellbrook	Urban		1 (int Thompson)	Trench (W&W)	N	2	8	16	3
27/03/2018	Shiraz St	Muswellbrook	Urban		10\12	Pavement failure	N	3	5	15	3
20/03/2017	Shiraz St	Muswellbrook	Urban		83	Trench	N	2	10	20	3
20/03/2017	Shiraz St	Muswellbrook	Urban		81	Trench	N	2	10	20	3
20/03/2017	Shiraz St	Muswellbrook	Urban		44	Trench	N	2	11	22	3
20/03/2017	Shiraz St	Muswellbrook	Urban		19	Pavement failure	N	2	2	4	3
29/10/2019	Shiraz St	Muswellbrook	Urban		29\31	Pavement failure	N	2	10	20	3
12/02/2018	Silky Oak Cl	Muswellbrook	Urban		10	Pavement failure	N	2	20	40	3
12/01/2015	Skellatar St	Muswellbrook	Urban		Blooms	Cracking	N	3	20	60	3
7/04/2017	Skellatar St	Muswellbrook	Urban		1	Pavement failure	N	3	5	15	3
10/04/2017	Skellatar Stock Route	Muswellbrook	Urban		15	Pavement failure	N	3	3	9	3
4/02/2020	Skellatar Stock Route	Muswellbrook	Urban		Opp St James Primary School	Pavement failure in school bus stop	N	2	3	6	3
5/04/2017	Sowerby Ave	Muswellbrook	Urban		6	Pavement failure	N	2	10	20	3
5/04/2018	Sowerby Ave	Muswellbrook	Urban		18	Pavement failure	N	3	3	9	3
5/04/2018	Sowerby St	Muswellbrook	Urban		Int St Heliers SB	Pavement failure	N	4	4	16	3
5/04/2018	Sowerby St	Muswellbrook	Urban		Int St Heliers SB	Pavement failure	N	4	4	16	3
5/04/2018	Sowerby St	Muswellbrook	Urban		Int St Heliers NB	Pavement failure	N	2	5	10	3
5/04/2018	Sowerby St	Muswellbrook	Urban		54	Trench	N	2	9	18	3
14/01/2016	St Heliers Road		Rural		780	Pavement Failure	N	7	20	140	3
17/11/2016	St Heliers Road		Rural	LHS	680	Pavement failure	N	3	3	9	3
18/04/2018	St James Cr	Muswellbrook	Urban		2	Pavement Failure	N	2	2	4	3
19/01/2016	Stair St	Kayuga	Rural			Pavement Failure	N	3	3	9	3
7/04/2017	Sydney Street	Muswellbrook	Urban		Sydney St Tyre Centre	Pavement Failure	Y	2	20	40	3
7/04/2017	Sydney Street	Muswellbrook	Urban		Upper Hunter Fire Protection	Pavement Failure	N	2	10	20	3
8/12/2014	Sylvana St	Muswellbrook	Urban		Various	2 x trenches across road	N	2	20	40	3
20/05/2016	Tarakan Ave	Muswellbrook	Urban		5	Trench (poorly restored water trench)	N	2	7	14	3
22/07/2016	Thomas Mitchell Drive		Rural	LHS	100	Pavement Failure	N	3	30	90	3
7/12/2017	Thomas Mitchell Drive		Rural	RHS	260	Pavement failure	N	2	5	10	3
7/12/2017	Thomas Mitchell Drive		Rural	RHS	500	Pavement failure	N	2	10	20	3
22/07/2016	Thomas Mitchell Drive		Rural	LHS	740	Pavement Failure	N	3	10	30	3
7/12/2017	Thomas Mitchell Drive		Rural	RHS	810	Pavement failure	N	2	5	10	3
22/07/2016	Thomas Mitchell Drive		Rural	LHS	990	Pavement Failure	N	3	10	30	3
7/12/2017	Thomas Mitchell Drive		Rural	RHS	1150	Pavement failure	N	2	5	10	3
7/12/2017	Thomas Mitchell Drive		Rural	LHS	1540	Pavement failure	N	2	5	10	3
22/07/2016	Thomas Mitchell Drive		Rural	RHS	1590	Pavement Failure	N	3	10	30	3
22/07/2016	Thomas Mitchell Drive		Rural	LHS	1920	Pavement Failure	N	2	10	20	3
3/05/2021	Thomas Mitchell Drive		Rural	LHS	6740	Pavement Failure	N	2	2	4	3
2012	Thompson St	Muswellbrook	Urban		Various	Several trenches across road					3
11/04/2017	Thompson St	Muswellbrook	Urban		44	Trench	N	5	7	35	3
11/04/2017	Thompson St	Muswellbrook	Urban		26	Trench	N	2	9	18	3

11/04/2017	Thompson St	Muswellbrook	Urban		22	Pavement failure	N	2	5	10	3
11/04/2017	Thompson St	Muswellbrook	Urban		29	Pavement failure	Y	2	10	20	3
11/04/2017	Thompson St	Muswellbrook	Urban		10	Pavement failure	Y	2	5	10	3
16/4818	Thompson St	Muswellbrook	Urban		31 to Ruth White Ave	Failed Patch at new kerb and gutter	N	2	90	180	3
11/04/2017	Tindale St	Muswellbrook	Urban		3	Pavement Failure	N	2	5	10	3
12/04/2017	Towarri St	Muswellbrook	Urban		24	Pavement failure	N	2	10	20	3
28/01/2020	Towarri St	Muswellbrook	Urban		32	Pavement failure	N	2	10	20	3
6/04/2016	Tuart Cl	Muswellbrook	Urban		7	Pavement Failure	N	2	2	4	3
6/04/2016	Tuart Cl	Muswellbrook	Urban		Int Hakea	Trench	N	2	8	16	3
2012	Turanville Ave	Muswellbrook	Urban		22	Pavement Failure	N	2	2	4	3
17/04/2018	Turanville Ave	Muswellbrook	Urban		10	Pavement Failure	N	3	3	9	3
27/05/2016	Turanville Ave	Muswellbrook	Urban		7\11	Pavement Failure	N	2	20	40	3
5/04/2017	Turanville Ave	Muswellbrook	Urban		18	Pavement Failure	N	3	10	30	3
5/04/2017	Turanville Ave	Muswellbrook	Urban		26	Pavement Failure	N	3	5	15	3
17/04/2018	Turanville Ave	Muswellbrook	Urban		24	Pavement Failure	N	4	2	8	3
5/04/2017	Turanville Ave	Muswellbrook	Urban		Int Sowerby	Trench	N	2	8	16	3
17/04/2018	Turanville Ave	Muswellbrook	Urban		20	Pavement failure	N	2	2	4	3
17/04/2018	Turanville Ave	Muswellbrook	Urban		16	Pavement failure	N	2	2	4	3
9/01/2020	Turanville Ave	Muswellbrook	Urban		Sowerby to Bligh	Pavement Failure over watermain	Y	20	2	40	3
4/04/2016	Turner Street	Denman	Urban		Water Tank	Pavement Failure	N	3	30	90	3
4/04/2016	Turner Street	Denman	Urban		22	Pavement Failure		2	5	10	3
23/01/2017	Turnermans Road Nth		Rural	LHS	1090	Pavement Failure	N	2	5	10	3
7/04/2017	Upper William St	Muswellbrook	Urban		Int King St	Trench	N	2	17	34	3
8/01/2015	Victoria St	Muswellbrook	Urban		108	Trench x 2	N	6	5	30	3
8/01/2015	Victoria St	Muswellbrook	Urban		120	Trench x 3	N	2	15	30	3
7/04/2017	Victoria St	Muswellbrook	Urban		114	Trench	N	2	5	10	3
9/01/2020	Victoria St	Muswellbrook	Urban		69	Cracking	N	3	2	6	3
2012	Virginia St	Denman	Urban		9	Heavy Patch	Y	2	2	4	3
12/01/2015	Virginia St	Denman	Urban		9	Trench x 2	N	4	10	40	3
19/02/2018	Virginia St	Denman	Urban		39	Heavy Patch	Y	2	10	20	3
12/01/2015	Virginia St	Denman	Urban		Cnr Ogilvie Street	Trench x 2	N	4	12	48	3
4/04/2016	Virginia St	Denman	Urban		Works Depot	Failed patch (Water?)	N	3	3	9	3
4/04/2016	Virginia St	Denman	Urban		15	Failed patch (Water?)	N	2	2	4	3
15/03/2017	Virginia St	Denman	Urban		Works Depot	Trench	N	2	12	24	3
15/03/2017	Virginia St	Denman	Urban		55	Pavement failure	N	3	3	9	3
19/02/2018	Virginia St	Denman	Urban		16	Pavement failure	N	3	2	6	3
19/02/2018	Virginia St	Denman	Urban		31	Pavement failure	N	3	2	6	3
19/02/2018	Virginia St	Denman	Urban		38	Trench	N	2	10	20	3
19/02/2018	Virginia St	Denman	Urban		35	Failed patch	N	2	3	6	3
19/02/2018	Virginia St	Denman	Urban		93	Pavement failure	N	2	3	6	3
5/04/2017	Waratah Cl	Muswellbrook	Urban		1	Trench	N	2	8	16	3
24/02/2016	Widden Valley Road		Rural	LHS	10	Pavement Failure	N	3	3	9	3
15/03/2018	Widden Valley Road		Rural	RHS	1990	Pavement Failure	N	2	5	10	3
21/10/2019	Widden Valley Road		Rural	LHS	5240	Pavement Failure	N	2	20	40	3
15/03/2018	Widden Valley Road		Rural	LHS	5335	Pavement Failure	N	2	10	20	3
6/11/2014	Widden Valley Road		Rural	RHS	7538	Pavement Failure	N	2	5	10	3
2012	Widden Valley Road		Rural	LHS	7662	Pavement Failure	N	2	10	20	3
7/02/2017	Widden Valley Road		Rural	F/W	7880	Pavement Failure	N	2	6	12	3
21/10/2019	Widden Valley Road		Rural	LHS	8610	Pavement Failure	N	2	2	4	3
2012	Widden Valley Road		Rural	LHS	11060	Pavement Failure	N	2	5	10	3

2012	Widden Valley Road		Rural	LHS	11094	Pavement Failure	N	2	5	10	3
2012	Widden Valley Road		Rural	RHS	11102	Pavement Failure	N	2	5	10	3
7/02/2017	Widden Valley Road		Rural	RHS	11404	Pavement Failure	N	3	25	75	3
21/03/2018	Widden Valley Road		Rural	F/W	11655	Pavement Failure	N	5	6	30	3
21/03/2018	Widden Valley Road		Rural	LHS	11845	Pavement Failure	N	2	2	4	3
21/03/2018	Widden Valley Road		Rural	LHS	13150	Pavement Failure	N	3	3	9	3
21/03/2018	Widden Valley Road		Rural	LHS	20068	Pavement Failure	N	2	5	10	3
16/05/2013	Widden Valley Road		Rural	LHS	20530	Pavement Failure	N	2	2	4	3
16/05/2013	Widden Valley Road		Rural	LHS	20630	Pavement Failure	N	2	2	4	3
16/05/2013	Widden Valley Road		Rural	LHS	20690	Pavement Failure	N	2	2	4	3
21/03/2018	Widden Valley Road		Rural	LHS	22100	Pavement Failure	N	2	2	4	3
7/04/2017	Wilder St	Muswellbrook	Urban		7	Trench	N	2	5	10	3
6/03/2017	Wilkins Street	Muswellbrook	Urban		9	Pavement failure	N	3	3	9	3
6/03/2017	Wilkins Street	Muswellbrook	Urban		1	Pavement failure	N	3	3	9	3
6/03/2017	Wilkins Street	Muswellbrook	Urban		Lot 3	Pavement failure	N	2	2	4	3
6/03/2017	Wilkins Street	Muswellbrook	Urban		Lot 3	W&W Trench	N	2	10	20	3
6/03/2017	Wilkins Street	Muswellbrook	Urban		Int Ford St	Cracking	N	5	5	25	3
27/03/2018	Wilkins Street	Muswellbrook	Urban		Hunter Valley Print	Trench	N	2	12	24	3
7/04/2017	Wilkinson Ave	Muswellbrook	Urban		Boronia Building	Pavement failure	N	2	2	4	3
2012	Wollombi Road	Muswellbrook	Urban		26	Trench 1/3 way across road	N	2	5	10	3
14/01/2015	Wollombi Road	Muswellbrook	Urban		10	Pavement failure	N	2	3	6	3
14/01/2015	Wollombi Road	Muswellbrook	Urban		Tamar Way	Pavement failure (Trench?)	N	2	3	6	3
20/05/2016	Wollombi Road	Muswellbrook	Urban		18	Trench	N	3	5	15	3
20/05/2016	Wollombi Road	Muswellbrook	Urban		32	Pavement failure	N	2	2	4	3
20/05/2016	Wollombi Road	Muswellbrook	Urban		38	Trench	N	10	2	20	3
11/02/2020	Wollombi Road	Muswellbrook	Urban		6	Pavement failure	N	2	2	4	3
18/04/2018	Wollombi Road	Muswellbrook	Urban		2 Patterson Place (123??)	Failed patch next to kerb and gutter	N	2	10	20	3
8/04/2013	Woodlands Ridge Road		Rural	RHS	1340	Pavement Failure	N	2	2	4	3
21/01/2015	Woollybutt Way	Muswellbrook	Urban		11	2 x trenches across road	N	4	8	32	3
5/04/2016	Woollybutt Way	Muswellbrook	Urban		Aldi (near Rutherford Road)	Pavement failure/Cracking	N	2	5	10	3
18/04/2018	Woollybutt Way	Muswellbrook	Urban		49	Trench (failed Ausgrid patching)	Y	2	9	18	3
16/01/2020	Woollybutt Way	Muswellbrook	Urban		61	Pavement failure	N	2	2	4	3
2012	Wybong PO Road		Rural	LHS	626	Pavement Failure	N	2	10	20	3
2012	Wybong PO Road		Rural	RHS	715	Pavement Failure	N	2	5	10	3
2012	Wybong PO Road		Rural	LHS	4017	Pavement Failure	N	2	5	10	3
14/01/2014	Wybong PO Road		Rural		4025	Pavement Failure	N	2	50	100	3
14/01/2014	Wybong PO Road		Rural	F/W	4125	Pavement Failure	N	5	5	25	3
14/01/2014	Wybong PO Road		Rural	LHS	4150	Pavement Failure	N	2	2	4	3
14/01/2014	Wybong PO Road		Rural	F/W	4180	Pavement Failure	N	5	3	15	3
20/01/2016	Wybong Road		Rural	LHS	670	Pavement Failure	N	2	3	6	3
20/01/2016	Wybong Road		Rural	LHS	1895	Pavement Failure	N	2	2	4	3
20/01/2016	Wybong Road		Rural	RHS	2540	Pavement Failure	N	2	2	4	3
21/01/2016	Wybong Road		Rural		2905	Pavement Failure	N	2	5	10	3
2012	Wybong Road		Rural	RHS	4550	Pavement Failure	N	2.5	150	375	3
2012	Wybong Road		Rural	LHS	4565	Pavement Failure	N	2.5	25	62.5	3
8/01/2014	Wybong Road		Rural	RHS	6450	Pavement Failure	N	2	3	6	3
11/01/2017	Wybong Road		Rural	RHS	6610	Pavement Failure	N	2	25	50	3
2012	Wybong Road		Rural	CENTRE	6645	Pavement Failure	N	2.5	20	50	3
2012	Wybong Road		Rural	LHS	6850	Pavement Failure	N	2	2	4	3
8/01/2014	Wybong Road		Rural	RHS	6850	Pavement Failure	N	2	10	20	3

12/09/2014	Wybong Road	Rural	LHS	20050	Pavement Failure	N	2	20	40	3
21/01/2016	Wybong Road	Rural	LHS	20330	Pavement Failure	N	5	3	15	3
12/09/2014	Wybong Road	Rural	LHS	21030	Pavement Failure	N	2	3	6	3
21/01/2016	Wybong Road	Rural	RHS	21050	Pavement Failure	N	3	3	9	3
21/01/2016	Wybong Road	Rural	RHS	21270	Pavement Failure	N	2	70	140	3
12/09/2014	Wybong Road	Rural	LHS	21500	Pavement Failure	N	2	2	4	3
20/01/2016	Wybong Road	Rural	LHS	21570	Pavement Failure	N	2	20	40	3
11/01/2017	Wybong Road	Rural	LHS	21640	Pavement Failure	N	2	5	10	3
11/10/2012	Wybong Road	Rural	CENTRE	21650	Pavement Failure	N	2.5	5	12.5	3
20/01/2016	Wybong Road	Rural	LHS	22020	Pavement Failure	N	2	5	10	3
11/01/2018	Wybong Road	Rural	RHS	22180	Pavement Failure	N	2	2	4	3
12/09/2014	Wybong Road	Rural	LHS	22409	Pavement Failure	N	2	2	4	3
12/09/2014	Wybong Road	Rural	LHS	22530	Failed patch	N	2	3	6	3
20/01/2016	Wybong Road	Rural	LHS	22725	Pavement Failure	N	2	2	4	3
8/01/2014	Wybong Road	Rural	LHS	22775	Pavement Failure	N	2	2	4	3
11/01/2018	Wybong Road	Rural	RHS	22970	Pavement Failure	N	2	2	4	3
20/01/2016	Wybong Road	Rural	RHS	23090	Pavement Failure	N	2	10	20	3
8/01/2014	Wybong Road	Rural	RHS	23160	Pavement Failure	N	2	10	20	3
21/01/2016	Wybong Road	Rural	RHS	23200	Pavement Failure	N	2	90	180	3
12/09/2014	Wybong Road	Rural	RHS	23790	Pavement Failure	N	2	5	10	3
12/09/2014	Wybong Road	Rural	LHS	24220	Pavement Failure	N	4	10	40	3
11/01/2018	Wybong Road	Rural	CENTRE	24900	Pavement Failure	N	2	2	4	3
11/01/2018	Wybong Road	Rural	CENTRE	25270	Pavement Failure	N	2	5	10	3
11/01/2017	Wybong Road	Rural	CENTRE	25400	Pavement Failure	N	3	3	9	3
11/01/2018	Wybong Road	Rural	RHS	30060	Pavement Failure	N	2	2	4	3
14/01/2014	Yarraman Road	Rural	LHS	250	Pavement Failure	N	2	2	4	3
14/01/2014	Yarraman Road	Rural	LHS	5060	Pavement Failure	N	3	5	15	3
1/10/2014	Yarraman Road	Rural	F/W	8112	Pavement Failure	N	3	5	15	3
1/10/2014	Yarraman Road	Rural	F/W	8266	Pavement Failure	N	2	5	10	3
19/01/2018	Yarrawa Deviation Road	Rural	LHS	3050	Pavement Failure	N	2	10	20	3
16/10/2014	Yarrawa Road	Rural	LHS	0	Pavement Failure	N	2	30	60	3
9/05/2013	Yarrawa Road	Rural	LHS	1305	Pavement Failure	N	3	3	9	3
8/11/2012	Yarrawa Road	Rural	LHS	1750	Pavement Failure	N	2.5	3	7.5	3
25/01/2016	Yarrawa Road	Rural	RHS	2100	Pavement Failure	N	2	20	40	3
9/05/2013	Yarrawa Road	Rural	RHS	2155	Pavement Failure	N	5	2.5	12.5	3
25/01/2016	Yarrawa Road	Rural	LHS	2185	Pavement Failure	N	2	10	20	3
17/01/2017	Yarrawa Road	Rural	RHS	2210	Pavement Failure	N	2	2	4	3
10/12/2013	Yarrawa Road	Rural	RHS	2450	Pavement Failure	N	2	15	30	3
8/11/2012	Yarrawa Road	Rural	LHS	2556	Pavement Failure	N	2.5	3	7.5	3
17/01/2017	Yarrawa Road	Rural	LHS	3170	Pavement Failure	N	2	5	10	3
25/01/2016	Yarrawa Road	Rural	RHS	5060	Pavement Failure	N	2	20	40	3
17/01/2017	Yarrawa Road	Rural	RHS	9490	Pavement Failure	N	2	20	40	3
25/01/2016	Yarrawa Road	Rural	RHS	9520	Pavement Failure	N	2	10	20	3
25/01/2016	Yarrawa Road	Rural	LHS	9560	Pavement Failure	N	2	40	80	3
15/10/2014	Yarrawa Road	Rural	LHS	9850	Pavement Failure	N	2	5	10	3
15/10/2014	Yarrawa Road	Rural	RHS	9860	Pavement Failure	N	2	30	60	3
9/05/2013	Yarrawa Road	Rural	LHS	9970	Pavement Failure	N	5	2.5	12.5	3
15/10/2014	Yarrawa Road	Rural	RHS	10270	Pavement Failure	N	2	5	10	3
25/01/2016	Yarrawa Road	Rural	LHS	10285	Pavement Failure	N	2	10	20	3
19/01/2018	Yarrawa Road	Rural	F/W	10465	Pavement Failure	N	7	30	210	3

7/04/2016	Bell St	Muswellbrook	Urban	Cnr Victoria	Trench	N	10	2	20	4
1/12/2014	Queen Street	Muswellbrook	Urban	186	Pavement Failure	N	2	2	4	4
30/05/2016	Semilon St	Muswellbrook	Urban	Karoola Park	2 x trenches across road	N	4	10	40	4
24/05/2016	Victoria St	Muswellbrook	Urban	108	Pavement Failure	N	5	10	50	4

ATTACHMENT C

KERB & GUTTER REPLACEMENT PROGRAM

Date	LOCATION	Town	Sub Location	LENGTH	Priority	Pvmt Work	Tree Work	TYPE	LAYBACK	WIDTH INC PAV	ADDITIONAL WORK	Comment	Estimated Cost	Completed
14/03/2017	Merton St	Denman	2-16	100	1						Rehab project? - total length to be checked	CR Ward has made a request for Merton St		
12/01/2015	Merton St	Denman	2	30	1				Y		Rehab project? - total length to be checked	Across driveway. CR Ward has made a request for Merton St		
7/04/2016	McClintock Dr	Muswellbrook	6	12	1		y		Y			Kerb and gutter lifted, tree removal need	$ 7,000.00	
5/04/2018	Chardonnay St	Muswellbrook	7	20	1								$ 15,000.00	
17/04/2018	Traminer St	Muswellbrook	Opp 4	10	1									
1/03/2017	Lofberg Ct	Muswellbrook	9\13	15	1							Kerb and gutter has sunk and is retaining water, also a cracked portion, whole road need to be adjusted, worng construction levels		Need more road work
25/10/2017	Hill St	Muswellbrook	113	5	1		Y			2		st		
17/04/2018	Carl St	Muswellbrook	Opposite 49	10	1		Y							
18/04/2018	Clifford St	Muswellbrook	Cnr Bell St	2	1							Cracking		
18/04/2018	McClintock Dr	Muswellbrook	10\12	20	1									
18/04/2018	McClintock Dr	Muswellbrook	Opp 26	5	1									
18/04/2018	Mitchell St	Muswellbrook	3	10	1					2				
1/05/2019	Boronia Dr	Muswellbrook	10	15	1						Tree removed			
18/04/2018	Brecht St	Muswellbrook	45	10	1									
18/04/2018	Acacia Dr	Muswellbrook	61	10	1		Y					St		
15/01/2015	Mitchell St	Muswellbrook	1	10	1					2				
18/04/2018	Brook St	Muswellbrook	107	10	1					2				
18/04/2018	Kamilaroi St	Muswellbrook	15	25	1	Y			Y	2				
5/04/2017	Anzac Pde	Muswellbrook	Sydney	520	1	Y				10	Pavement work also needed/Rehab	Anzac Parade is on the Rehab program		
pre 2013	Palace St	Denman	From 11 to end of gutter	130	1	Y	Y	SA Kerb	Y	4	Pavement work also needed/Rehab	With pavement rehab. CR Ward has requested work on Palace St		
18/04/2018	Wilder St	Muswellbrook	16	10	1							st		
18/04/2018	Wilder St	Muswellbrook	11	10	1		Y					st - holding water		
18/04/2018	Wilder St	Muswellbrook	4	10	1		Y					st - holding water		
18/04/2018	Wilder St	Muswellbrook	6	10	1		Y					st - holding water		
18/04/2018	Ruth White Ave	Muswellbrook	45	15	1					2				
18/04/2018	Rutherford Rd	Muswellbrook	Aldi	10	1									
27/03/2018	Hunter St	Muswellbrook	Median near sw drain	10	1	Y				2		Water holding from top of median		
27/03/2018	Hunter St	Muswellbrook	South bound lane	10	1							st - At median		
27/03/2018	Hunter St	Muswellbrook	North bound lane	10	1		Y					st - At median		
9/04/2018	Brook St	Muswellbrook	115	10	1									
13/07/2018	Brook St	Muswellbrook	117	10	1									
13/06/2013	Paxton St	Denman	48 - Public School	80	1		Y				Possibly needs a stormwater pit and pipes rather than replacing the kerb and gutter	Water holding in gutter - also some problems with trees - Service request raised by DDDA 19/7/2014		
28/07/2014	Paxton St	Denman	Catholic Church	20	1						Possibly needs a stormwater pit and pipes rather than replacing the kerb and gutter	Water holding at gutter - school bus zone - service request raised by DDDA 19/7/2014, service request from Errol George 8/12/14		
9/04/2018	Maitland St	Muswellbrook	4	5	1						Missing section of sandstone			
1/05/2019	McClintock Dr	Muswellbrook	7	30	1				Y					
29/10/2019	Queen St	Muswellbrook	144-156	120	1				Y	2		with pavement		
29/10/2019	Queen St	Muswellbrook	136	2	1							Chip		
18/11/2019	Chardonnay St	Muswellbrook	11	10	1									
18/11/2019	Chardonnay St	Muswellbrook	7	5	1									
12/12/2019	Carl St	Muswellbrook	Cnr Bligh Lane (62)	5	1					2				
12/12/2019	Roger St	Muswellbrook	19	10	1				Y					
12/12/2019	Sowerby Ave	Muswellbrook	1	5	1									
10/01/2020	Palace St	Denman	16	20	1									
14/03/2017	Merriwa Road	Sandy Hollow	1615	2	1							Broken K&G completely out of the ground		
9/01/2020	Foley St	Muswellbrook	13	10	1		Y					st		
28/01/2020	Towarri St	Muswellbrook	27\29	30	1									
28/01/2020	Cassidy Avenue	Muswellbrook	Cnr Rutherford	10	1									
4/02/2020	Ruth White Ave	Muswellbrook	23	10	1									
11/02/2020	Fleming St	Muswellbrook	1	20	1									
11/02/2020	Fleming St	Muswellbrook	5	10	1									
30/06/2021	Maitland St	Muswellbrook	Warren Ward Refrigeration	6	1						some footpath works needed where vehicles have driven over the footpath and cracked the concrete	3 sections between St Andrews and Caltex - worst is next to the Caltex where vehicles are cutting over the kerb and footpath		
19/05/2016	Anzac Pde	Muswellbrook	11	10	1\2							Anzac Parade is on the Rehab program		
pre 2013	Humphries St	Muswellbrook	1	10	1\2									
29/10/2019	Lexia St	Muswellbrook	24	10	1\2				Y	2				
29/10/2019	Lexia St	Muswellbrook	48\46	50	1\2				Y	2				
18/04/2018	Maitland St	Muswellbrook	Cnr Bell St	10	1\2							Cracked and chipped		
18/04/2018	Maitland St	Muswellbrook	48	5	1\2		Y					st		
15/01/2015	Osborn Ave	Muswellbrook	102	10	1\2				Y			Cracked and damaged		
18/04/2018	Rutherford Rd	Muswellbrook	ISC path	10	1\2	Y				2		New kerb?? Turning where pedestrians start the path from carpark		
pre 2013	Lorne St	Muswellbrook	12	5	1\2				Y					
5/04/2017	Acacia Dr	Muswellbrook	42	10	2		Y		Y			ST		
30/05/2016	Almera Glen	Muswellbrook	4 to 6	14	2					2	Mountable K&G near driveway			

pre 2013	Anzac Pde	Muswellbrook	39	5	2							Anzac Parade is on the Rehab program		
19/05/2016	Anzac Pde	Muswellbrook	40	10	2							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	56	5	2							Anzac Parade is on the Rehab program		
5/04/2017	Anzac Pde	Muswellbrook	30	10	2							Anzac Parade is on the Rehab program		
5/04/2017	Birralee St	Muswellbrook	1	5	2		Y				St			
1/05/2019	Boronia Dr	Muswellbrook	3	20	2		y					Street tree x 2		
16/01/2020	Boronia Dr	Muswellbrook	7	5	2									
5/04/2018	Bligh St	Muswellbrook	cnr Richmond	5	2									
5/04/2017	Brentwood St	Muswellbrook	17	10	2									
29/10/2019	Burgundy St	Muswellbrook	18	10	2		Y							
pre 2013	Cabernet St	Muswellbrook	Cnr Hermitage Ave	24	2					2				
5/04/2017	Cedar Place	Muswellbrook	6	10	2		Y					st		
26/08/2016	Chablis Cl	Muswellbrook	14	20	2				Y					
5/04/2018	Chardonnay St	Muswellbrook	15-21	50	2									
5/04/2018	Chardonnay St	Muswellbrook	9\11	20	2									
29/10/2019	Claret Ave	Muswellbrook	22\24	10	2				Y					
21/03/2017	Claret Ave	Muswellbrook	Cnr Sylvana St	20	2					2				
7/04/2017	Clendinnig St	Muswellbrook	27/29	15	2				Y	2				
27/03/2018	Cousins St	Muswellbrook	1	20	2				Y	2	Monitor			
25/05/2017	Ogilvie Street	Denman	Denman Pool carpark	50	2							Left side of entrance		
pre 2013	Dumaresq St	Muswellbrook	23	16	2					2				
5/04/2017	Dumaresq St	Muswellbrook	4	5	2					2				
11/04/2017	Fleming St	Muswellbrook	8	5	2					2				
18/11/2019	Hastings St	Muswellbrook	5	10	2				Y	2				
9/11/2019	Hastings St	Muswellbrook	7	30	2				Y					
10/07/2015	Hill St	Muswellbrook	Marketplace carpark	5	2							ex street tree		
27/03/2018	Hunter St	Muswellbrook	10	5	2									
27/03/2018	Hunter St	Muswellbrook	at median	10	2		Y							
27/03/2018	Hunter St	Muswellbrook	at median	30	3									
22/11/2019	Hunter Tce	Muswellbrook	1	10	2									
10/01/2020	Hyde St	Denman	27	10	2									
4/04/2016	Isabel St	Denman	14	5	2		Y							
10/01/2020	Isabel St	Denman	13	5	2		Y							
21/03/2017	Isobella St	Muswellbrook	12 to 14	20	2						Stormwater pit			
29/10/2019	Isobella St	Muswellbrook	8\10	40	2									
7/04/2016	Kamilaroi St	Muswellbrook	32	10	2		Y					st		
29/10/2019	Karoola Ave	Muswellbrook	11	5	2		Y							
30/05/2016	Karoola Ave	Muswellbrook	4	10	2									
12/12/2019	Koombahla St	Muswellbrook	18	20	2									
21/03/2017	Lexia St	Muswellbrook	32\34	40	2				Y					
29/10/2019	Lexia St	Muswellbrook	16	15	2				Y					
29/10/2019	Lexia St	Muswellbrook	26	20	2				Y	2				
29/10/2019	Lexia St	Muswellbrook	28\30	40	2									
1/05/2019	McClintock Dr	Muswellbrook	2	10	2		y					st		
11/04/2017	Maitland St	Muswellbrook	Cnr Lorne (Pizza)	5	2									
28/01/2020	Maitland St	Muswellbrook	Showground	25	2		Y				Holding water	5 x street trees - various locations		
18/04/2018	Marlock Pl	Muswellbrook	4	10	2		Y							
24/05/2016	Mitchell St	Muswellbrook	50	20	2	y			y	2		Holding water		
19/02/2018	Palace St	Denman	27	20	2				Y					
10/01/2020	Palace St	Denman	12	10	2									
6/01/2015	Parkinson Ave	Muswellbrook	Cnr Cook Street	5	2							st		
30/03/2016	Queen St	Muswellbrook	Cnr Wilson (21 Wilson)	10	2		Y					st		
30/03/2016	Queen St	Muswellbrook	48	20	2					2		with pavement		
28/01/2020	Rutherford Rd	Muswellbrook	ISC entry carpark	10	2		Y					Large tree in showground		
7/04/2017	Sydney Street	Muswellbrook	Sydney St Tyre Centre	20	2	Y				2				
7/04/2017	Sydney Street	Muswellbrook	87	10	2									
29/10/2019	Sylvana St	Muswellbrook	2	10	2									
29/10/2019	Ted Clay St	Muswellbrook	8	5	2						Cracked			
17/04/2018	Towarri St	Muswellbrook	4	15	2		Y							
17/04/2018	Turanville Ave	Muswellbrook	1	20	2									
12/01/2015	Virginia St	Denman	38	10	2				Y					
19/02/2018	Virginia St	Denman	Denman Public School	10	2		Y					Cracked layback		
10/01/2020	Virginia St	Denman	41 to 43	30	2	Y				2	Rutting next to Kerb and gutter along length			
7/04/2016	Wilder St	Muswellbrook	3	5	2		Y					st - holding water		
20/01/2015	St James Cr	Muswellbrook	15	5	2\3									
12/04/2017	St James Cr	Muswellbrook	11\15	30	2\3									
28/01/2015	Acacia Dr	Muswellbrook	39	5	3		Y					ST		
28/01/2015	Acacia Dr	Muswellbrook	7\9	10	3						Tree removed	ST		
5/04/2016	Acacia Dr	Muswellbrook	23	5	3									
5/04/2016	Acacia Dr	Muswellbrook	27	5	3									
5/04/2016	Acacia Dr	Muswellbrook	37	5	3									
5/04/2017	Acacia Dr	Muswellbrook	60	10	3				Y	2				
5/04/2017	Acacia Dr	Muswellbrook	35	5	3									
5/04/2017	Acacia Dr	Muswellbrook	30	5	3		Y							
20/01/2015	Adams St	Muswellbrook	46	5	3									
20/01/2015	Adams St	Muswellbrook	20	5	3									
20/01/2015	Adams St	Muswellbrook	27	20	3									
19/05/2016	Adams St	Muswellbrook	23\25	30	3									

5/04/2017	Adams St	Muswellbrook	1 Kamilaroi	5	3		Y							
5/04/2017	Adams St	Muswellbrook	31	5	3									
5/04/2017	Adams St	Muswellbrook	21	5	3									
18/04/2018	Adams St	Muswellbrook	59	5	3		Y							
4/02/2020	Adams St	Muswellbrook	17	10	3									
12/01/2015	Almond St	Denman	23	1	3							Cracked and broken		
pre 2013	Anzac Pde	Muswellbrook	9	4	3							Anzac Parade is on the Rehab program		
19/05/2016	Anzac Pde	Muswellbrook	49	10	3									
19/05/2016	Anzac Pde	Muswellbrook	32	10	3									
17/04/2018	Beech St	Muswellbrook	Cnr Calgaroo	5	3		Y							
19/02/2018	Bimbadeen Dr	Muswellbrook	43	4	3							Chips		
9/04/2018	Birralee St	Muswellbrook	9	5	3									
pre 2013	Bligh St	Muswellbrook	45	25	3		Y							
pre 2013	Bligh St	Muswellbrook	Richmond to Dumaresq	50	3									
pre 2013	Bligh St	Muswellbrook	13	5	3		Y							
pre 2013	Bligh St	Muswellbrook	15	7	3		Y			2	Street Tree			
10/12/2014	Bligh St	Muswellbrook	23	5	3						Street Tree			
27/05/2016	Bligh St	Muswellbrook	30	10	3									
18/01/2018	Bligh St	Muswellbrook	Opposite 51	27	3					2	Monitor			
1/03/2017	Bloodwood Road	Muswellbrook	opposite 4	2	3		Y							
6/04/2016	Boronia Dr	Muswellbrook	Cnr Acacia	5	3		y							
16/01/2020	Boronia Dr	Muswellbrook	14	5	3		y							
16/01/2020	Boronia Dr	Muswellbrook	2\4	20	3									
pre 2013	Bowman St	Muswellbrook	22	6	3					2				
pre 2013	Brecht St	Muswellbrook	Possum Gully LHS	10	3									
27/05/2016	Brecht St	Muswellbrook	Possum Gully RHS	40	3									
18/11/2019	Brecht St	Muswellbrook	Nurses Home	10	3									
6/01/2015	Brentwood St	Muswellbrook	19	5	3									
8/01/2015	Brook St	Muswellbrook	Convent	10	3		Y					ST		
18/04/2018	Brook St	Muswellbrook	Petrol Plus	5	3							Cracked and damaged by vehicle movement		
18/04/2018	Brook St	Muswellbrook	Petrol Plus	5	3									
27/03/2018	Burgundy St	Muswellbrook	31	5	3									
29/10/2019	Burgundy St	Muswellbrook	8 (cnr Sylvanna)	30	3									
pre 2013	Cabernet St	Muswellbrook	7	5	3		Y			2				
20/03/2017	Cabernet St	Muswellbrook	Opp 31\33	30	3	Y				2				
20/03/2017	Cabernet St	Muswellbrook	Cnr Reisling	10	3					2				
27/03/2018	Cabernet St	Muswellbrook	Cnr Shiraz	20	3					2	Monitor			
27/03/2018	Cabernet St	Muswellbrook	11	5	3									
10/12/2014	Carl St	Muswellbrook	37	3	3									
20/01/2015	Cassidy Avenue	Muswellbrook	Cnr McClintock	10	3		Y							
12/04/2017	Cassidy Avenue	Muswellbrook	2	5	3									
12/04/2017	Cassidy Avenue	Muswellbrook	14	5	3									
12/04/2017	Cassidy Avenue	Muswellbrook	opp 26	5	3							Cracking		
17/04/2018	Cassidy Avenue	Muswellbrook	20	5	3							Cracking		
29/10/2019	Chablis Cl	Muswellbrook	11	10	3									
30/05/2016	Chardonnay St	Muswellbrook	27	10	3									
pre 2013	Claret Ave	Muswellbrook	12	4	3									
27/03/2018	Claret Ave	Muswellbrook	19	10	3									
27/03/2018	Claret Ave	Muswellbrook	21	5	3							Crack		
27/03/2018	Claret Ave	Muswellbrook	Cnr Isobella	5	3		Y							
8/12/2014	Cousins St	Muswellbrook	3	5	3									
8/12/2014	Cousins St	Muswellbrook	34	5	3		Y					st - holding water		
8/12/2014	Cousins St	Muswellbrook	46	2	3		Y							
29/10/2019	Cousins St	Muswellbrook	7	10	3									
29/10/2019	Cousins St	Muswellbrook	52	15	3				Y					
20/05/2016	Crete St	Muswellbrook	4	10	3									
4/04/2016	Crinoline St	Denman	27	10	3							Cracked and damaged at corner		
12/04/2017	Donaldson St	Muswellbrook	8	5	3									
18/04/2018	Donaldson St	Muswellbrook	4	10	3									
9/12/2014	Dumaresq St	Muswellbrook	4	5	3					2		st		
pre 2013	Flanders Ave	Muswellbrook	3	10	3	Y				2				
27/05/2016	Flanders Ave	Muswellbrook	10	20	3									
20/05/2016	Fleming St	Muswellbrook	10	10	3	Y				2				
11/04/2017	Fleming St	Muswellbrook	8	5	3	Y				2				
11/02/2020	Fleming St	Muswellbrook	112 Sydney	20	3									
11/02/2020	Fleming St	Muswellbrook	6	5	3									
7/04/2017	Foley St	Muswellbrook	17	5	3		Y					st		
16/04/2018	Foley St	Muswellbrook	35	5	3									
16/04/2018	Forbes St	Muswellbrook	15	5	3									
23/12/2014	Ford Street	Muswellbrook	68	10	3		Y					st		
23/12/2014	Ford Street	Muswellbrook	72	5	3		Y					st		
23/12/2014	Ford Street	Muswellbrook	74	5	3		Y					st		
12/02/2018	Ford Street	Muswellbrook	70	5	3		Y							
15/01/2015	Glenbawn Pl	Muswellbrook	Culdesac	10	3					2				
11/04/2017	Grevillea St	Muswellbrook	3	10	3	Y								
18/04/2018	Haydon St	Muswellbrook	10\12	40	3									
18/11/2019	Hastings St	Muswellbrook	1\3	30	3									
9/12/2014	Hastings St	Muswellbrook	2	10	3		Y					st		
27/03/2018	Hermitage Place	Muswellbrook	6	5	3		Y							

pre 2013	Hill St	Muswellbrook	Bridge to railway	93	3									
5/04/2017	Hill St	Muswellbrook	175	5	3		Y							
5/04/2017	Hill St	Muswellbrook	141	5	3		Y							
18/04/2018	Hill St	Muswellbrook	94	10	3									
9/04/2018	Hill St	Muswellbrook	123	10	3		Y							
9/04/2018	Hill St	Muswellbrook	97	5	3		Y							
29/10/2019	Humphries St	Muswellbrook	5	1	3						Damaged at pram ramp			
29/10/2019	Humphries St	Muswellbrook	26	10	3									
10/01/2020	Hyde St	Denman	29	5	3									
16/04/2018	Ironbark Rd	Muswellbrook	14	5	3		Y							
19/02/2018	Isabel St	Denman	5	5	3		Y							
8/12/2014	Isobella St	Muswellbrook	15	10	3									
8/12/2014	Isobella St	Muswellbrook	3	10	3				Y					
29/10/2019	Isobella St	Muswellbrook	20	10	3									
29/10/2019	Isobella St	Muswellbrook	2\4	40	3									
30/05/2016	Isobella St	Muswellbrook	13	10	3									
27/05/2016	Isobella St	Muswellbrook	18	10	3									
27/05/2016	Isobella St	Muswellbrook	12	10	3									
21/03/2017	Isobella St	Muswellbrook	7	5	3									
21/03/2017	Isobella St	Muswellbrook	17-19	30	3									
29/10/2019	Isobella St	Muswellbrook	6	15	3									
12/04/2017	Kamilaroi St	Muswellbrook	12	5	3					2				
12/04/2017	Kamilaroi St	Muswellbrook	18	5	3		Y					st		
12/04/2017	Kamilaroi St	Muswellbrook	Calvary	30	3									
28/01/2020	Kamilaroi St	Muswellbrook	24	1	3									
28/01/2020	Kamilaroi St	Muswellbrook	16	5	3		y							
28/01/2020	Kamilaroi St	Muswellbrook	30	5	3									
8/12/2014	Karoola Ave	Muswellbrook	13	10	3									
27/03/2018	Karoola Ave	Muswellbrook	8	5	3									
9/01/2020	Karri Pl	Muswellbrook	12	5	3									
4/04/2016	Kenilworth St	Denman	10	1	3							Cracked and broken		
4/04/2016	Kenilworth St	Denman	opp 23	5	3									
19/02/2018	Kenilworth St	Denman	21	10	3									
pre 2013	King St	Muswellbrook	36	15	3									
pre 2013	King St	Muswellbrook	44	10	3							st		
27/05/2016	King St	Muswellbrook	80	5	3		Y							
7/04/2017	King St	Muswellbrook	Opp 36	5	3									
9/04/2018	King St	Muswellbrook	77	5	3									
20/05/2016	Kokoda St	Muswellbrook	3 ?	20	3									
10/12/2014	Koombahla St	Muswellbrook	14	3	3									
20/05/2016	Lae St	Muswellbrook	3	5	3		Y							
29/10/2019	Lexia St	Muswellbrook	19	10	3						Monitor			
20/05/2016	Lorne St	Muswellbrook	42	5	3							At spring outlet		
9/04/2018	Lorne St	Muswellbrook	3	5	3		Y							
23/12/2014	Lower Hill St	Muswellbrook	opp 51	5	3									
11/04/2017	Mahogany Ave	Muswellbrook	3\5	10	3		Y							
9/01/2020	Mahogany Ave	Muswellbrook	12	5	3									
14/01/2015	Maitland St	Muswellbrook	Car Wash	5	3									
pre 2013	Maitland St	Muswellbrook	35	10	3		ex					Street tree removed		
pre 2013	Maitland St	Muswellbrook	41\43	20	3							st		
14/01/2015	Maitland St	Muswellbrook	25 (cnr Lorne)	10	3		Y	Sandstone				st		
pre 2013	Maitland St	Muswellbrook	Wanaruah	20	3		Y	Sandstone			Holding water			
11/04/2017	Maitland St	Muswellbrook	Repco	5	3									
11/04/2017	Maitland St	Muswellbrook	Remington	5	3									
11/04/2017	Maitland St	Muswellbrook	Remington	10	3									
11/04/2017	Maitland St	Muswellbrook	26	5	3									
11/04/2017	Maitland St	Muswellbrook	98	5	3									
11/04/2017	Maitland St	Muswellbrook	37	5	3		Y					st		
18/04/2018	Marlock Pl	Muswellbrook	6	5	3							Dip in kerb		
4/04/2016	Martindale Street	Denman	17	5	3									
19/02/2018	Martindale Street	Denman	2	10	3									
30/05/2016	Mataro Ave	Muswellbrook	5 to 13	80	3				Y					
12/04/2017	McClintock Dr	Muswellbrook	22	20	3					2				
7/04/2016	McClintock Dr	Muswellbrook	20	20	3									
7/04/2016	McClintock Dr	Muswellbrook	11	10	3									
12/04/2017	McClintock Dr	Muswellbrook	20\22	30	3	Y				2				
1/05/2019	McClintock Dr	Muswellbrook	23	10	3									
20/03/2017	Merriwa Road	Sandy Hollow	Opp Hotel	40	3	y				2				
18/04/2018	Midanga Ave	Muswellbrook	7	5	3									
7/04/2016	Millard Cl	Muswellbrook	2	15	3									
18/04/2018	Mitchell St	Muswellbrook	29	5	3									
18/04/2018	Mitchell St	Muswellbrook	31	10	3									
18/04/2018	Mitchell St	Muswellbrook	50	5	3									
18/04/2018	Mitchell St	Muswellbrook	52	10	3									
15/01/2015	Mitchell St	Muswellbrook	52-58	20	3	y				2				
pre 2013	Ogilvie Street	Denman	Arbor Park	5	3							st		
25/05/2017	Ogilvie Street	Denman	Denman Pool carpark	20	3							Right side of entrance		
17/04/2018	Oorange St	Muswellbrook	7 Kamilaroi	5	3		Y							

19/05/2016	Osborn Ave	Muswellbrook	108	2	3							Chip		
4/04/2016	Palace St	Denman	19\21	20	3									
4/04/2016	Palace St	Denman	21	5	3									
4/04/2016	Palace St	Denman	23	20	3									
10/01/2020	Palace St	Denman	2\4	10	3									
30/05/2016	Parkinson Ave	Muswellbrook	7	10	3									
27/05/2016	Parkinson Ave	Muswellbrook	16\18	5	3									
12/01/2015	Paxton St	Denman	33	10	3									
pre 2013	Paxton St	Denman	Catholic Church	5	3									
pre 2013	Paxton St	Denman	Cnr Ogilvie (Fernandes)	30	3				Y	2				
14/03/2017	Paxton St	Denman	44 to 48	60	3									
4/04/2016	Paxton St	Denman	70	10	3									
4/04/2016	Paxton St	Denman	20	20	3									
4/04/2016	Paxton St	Denman	16	20	3									
19/02/2018	Paxton St	Denman	Cnr Crinoline	5	3									
10/01/2020	Paxton St	Denman	11	5	3									
5/04/2016	Peppermint St	Muswellbrook	7	5	3									
30/03/2016	Queen St	Muswellbrook	114	10	3									
30/03/2016	Queen St	Muswellbrook	108	5	3		Y							
30/03/2016	Queen St	Muswellbrook	Karoola Park	2	3									
2/12/2014	Queen St	Muswellbrook	122	10	3							dw		
30/03/2016	Queen St	Muswellbrook	126	20	3							redirecting water from pit		
30/03/2016	Queen St	Muswellbrook	124	20	3							redirecting water from pit		
20/03/2017	Queen St	Muswellbrook	89	5	3		Y							
20/03/2017	Queen St	Muswellbrook	174	10	3		x 2					two sections of kerbing damaged		
29/10/2019	Queen St	Muswellbrook	105	5	3		Y							
5/04/2017	Richmond St	Muswellbrook	7	15	3					2	Monitor			
30/05/2016	Riesling St	Muswellbrook	28	10	3	Y				2				
21/03/2017	Riesling St	Muswellbrook	6	10	3					2				
29/03/2017	Roger St	Muswellbrook	26	5	3				Y	2				
pre 2013	Roger St	Muswellbrook	10	2	3					2				
22/12/2014	Roger St	Muswellbrook	25	20	3		Y					ST		
4/04/2016	Rosemount Road	Denman	7\9	10	3					2				
5/04/2016	Rutherford Rd	Muswellbrook	3	5	3									
12/04/2017	Rutherford Rd	Muswellbrook	43	1	3							Chip		
25/05/2016	Ruth White Ave	Muswellbrook	31	5	3							Crack		
20/01/2015	Ruth White Ave	Muswellbrook	22\24	10	3									
19/05/2016	Ruth White Ave	Muswellbrook	20\22	5	3		Y				New Pit needed			
18/04/2018	Ruth White Ave	Muswellbrook	3	5	3									
27/03/2018	Sauterne Cl	Muswellbrook	5	5	3		Y							
27/03/2018	Sauterne Cl	Muswellbrook	2	10	3									
pre 2013	Scott St	Muswellbrook	55	5	3		Y					st		
23/12/2014	Scott St	Muswellbrook	19	10	3									
23/12/2014	Scott St	Muswellbrook	27	10	3									
23/12/2014	Scott St	Muswellbrook	45	5	3									
7/03/2017	Scott St	Muswellbrook	29	5	3		Y							
12/04/2017	Shaw Cr	Muswellbrook	12	10	3		Y			2				
pre 2013	Sheppard Ave	Muswellbrook	LHS near gateway to Racecourse	15	3			SA Kerb		2				
pre 2013	Sheppard Ave	Muswellbrook	1	15	3			SA Kerb		2				
pre 2013	Shiraz St	Muswellbrook	95	2	3		Y			2				
27/05/2016	Shiraz St	Muswellbrook	3	5	3		Y							
20/03/2017	Shiraz St	Muswellbrook	20	5	3				Y	2	Monitor			
27/03/2018	Shiraz St	Muswellbrook	24\26	10	3		Y							
5/04/2017	Sowerby Ave	Muswellbrook	12\14	10	3	Y	Y		Y	2		st		
pre 2013	Sowerby Ave	Muswellbrook	16	5	3	Y				2		st		
pre 2013	Sowerby St	Muswellbrook	42	5	3									
pre 2013	Sowerby St	Muswellbrook	77	25	3					2				
16/06/2014	Sowerby St	Muswellbrook	Presbytery	5	3									
18/04/2018	St James Cr	Muswellbrook	3\7	30	1				Y					
20/01/2015	St James Cr	Muswellbrook	4	10	3					2				
7/04/2016	St James Cr	Muswellbrook	20	5	3									
7/04/2016	St James Cr	Muswellbrook	6\8	10	3				Y					
12/04/2017	St James Cr	Muswellbrook	17	5	3		Y							
18/04/2018	St James Cr	Muswellbrook	9	5	3									
28/01/2020	St James Cr	Muswellbrook	34	10	3				Y					
14/01/2015	Sydney Street	Muswellbrook	99	3	3									
23/05/2016	Sydney Street	Muswellbrook	105	10	3									
7/04/2017	Sydney Street	Muswellbrook	158	5	3		Y							
7/04/2017	Sydney Street	Muswellbrook	182	5	3		Y							
27/03/2018	Sylvana St	Muswellbrook	8\10	10	3									
29/10/2019	Sylvana St	Muswellbrook	9	10	3									
29/10/2019	Sylvana St	Muswellbrook	1	10	3									
29/10/2019	Sylvana St	Muswellbrook	5	10	3									
pre 2013	Thompson St	Muswellbrook	Cnr Donaldson St	15	3									
7/04/2016	Thompson St	Muswellbrook	3	5	3									
11/04/2017	Thompson St	Muswellbrook	29	10	3									
11/04/2017	Thompson St	Muswellbrook	10	5	3									

pre 2013	Tindale St	Muswellbrook	Cnr Anzac Pde	10	3		Y			2				
16/04/2018	Tindale St	Muswellbrook	1	20	3		Y			2	Including KIP	st		
pre 2013	Tindale St	Muswellbrook	56	6	3				Y	2				
11/04/2017	Tindale St	Muswellbrook	5\7	10	3									
11/04/2017	Tindale St	Muswellbrook	7\11	10	3									
11/04/2017	Tindale St	Muswellbrook	51\53	30	3									
11/04/2017	Tindale St	Muswellbrook	60	10	3									
11/02/2020	Tindale St	Muswellbrook	37	5	3				y					
pre 2013	Tobruk Ave	Muswellbrook	30	5	3		Y					st		
20/05/2016	Tobruk Ave	Muswellbrook	43	5	3		Y					st		
20/05/2016	Tobruk Ave	Muswellbrook	51	10	3		Y							
20/05/2016	Tobruk Ave	Muswellbrook	13 Anzac Pde	5	3		Y							
11/02/2020	Tobruk Ave	Muswellbrook	7	10	3									
17/04/2018	Towarri St	Muswellbrook	20	5	3									
17/04/2018	Towarri St	Muswellbrook	Cnr Kamilaroi	10	3									
28/01/2020	Towarri St	Muswellbrook	22	10	3									
30/05/2016	Traminer St	Muswellbrook	7	20	3									
1/03/2017	Tuart Cl	Muswellbrook	13 Hakea	5	3							Water holding in kerbing		
4/04/2016	Turner St	Denman	22	5	3									
15/03/2017	Turner St	Denman	20	10	3		Y							
19/02/2018	Turtle St	Denman	15	5	3									
8/01/2015	Victoria St	Muswellbrook	ARTC	10	3		Y					Holding water		
12/01/2015	Virginia St	Denman	14	10	3									
pre 2013	Virginia St	Denman	32 to 34	10	3									
4/04/2016	Virginia St	Denman	67	5	3		Y							
4/04/2016	Virginia St	Denman	33	5	3				Y					
4/04/2016	Virginia St	Denman	24	10	3									
4/04/2016	Virginia St	Denman	22	10	3					2				
4/04/2016	Virginia St	Denman	opp 53	20	3					2				
19/02/2018	Virginia St	Denman	19	10	3		Y							
19/02/2018	Virginia St	Denman	17	1	3						chip			
19/02/2018	Virginia St	Denman	36	5	3									
19/02/2018	Virginia St	Denman	39	10	3									
19/02/2018	Virginia St	Denman	75	5	3									
19/02/2018	Virginia St	Denman	91	20	3									
7/04/2017	Wilder St	Muswellbrook	Culdesac	5	3									
18/04/2018	Wollombi Road	Muswellbrook	36	10	3									
20/05/2016	Wollombi Road	Muswellbrook	opp 56	5	3		Y							
17/04/2018	Wandoo Cl	Muswellbrook	3\5	10	3									
5/04/2016	Woollybutt Way	Muswellbrook	9	10	3		Y							
5/04/2016	Woollybutt Way	Muswellbrook	21	5	3		Y							
pre 2013	Kokoda St	Muswellbrook	6	5	3\4									
28/01/2015	Acacia Dr	Muswellbrook	57	1.5	4							Cracked and broken		
pre 2013	Bligh St	Muswellbrook	11	5	4									
pre 2013	Boronia Dr	Muswellbrook	5	5	4									
18/11/2019	Brecht St	Muswellbrook	35\37	20	4				Y					
6/01/2015	Brentwood St	Muswellbrook	58	1	4							Chip		
pre 2013	Carl St	Muswellbrook	47	5	4									
14/01/2015	Coral St	Muswellbrook	CDS	20	4							Chip		
28/01/2015	Cunningham St	Muswellbrook	13	1	4							Chip		
9/12/2014	Dumaresq St	Muswellbrook	38	1	4							Chipped		
8/01/2015	Foley St	Muswellbrook	19	1	4							Chipped		
9/12/2014	Hermitage Place	Muswellbrook	13	1	4							Chip		
8/12/2014	Isobella St	Muswellbrook	3 to 5	15	4									
8/12/2014	Isobella St	Muswellbrook	9	5	4									
9/12/2014	Lexia St	Muswellbrook	11	1	4							Chip		
30/05/2016	Lexia St	Muswellbrook	7	20	4									
29/10/2019	Lexia St	Muswellbrook	9	20	4									
9/12/2014	Malbec St	Muswellbrook	3\1	5	4									
10/12/2014	Newman St	Muswellbrook	Cnr Cook St	1	4							Gap		
pre 2013	Paxton St	Denman	Catholic Church	10	4					2	Monitor			
30/03/2016	Queen St	Muswellbrook	190-192	5	4							Cracked and broken		
30/03/2016	Queen St	Muswellbrook	98	5	4		Y							
30/03/2016	Queen St	Muswellbrook	35	5	4							Cracked and broken		
30/03/2016	Queen St	Muswellbrook	25	5	4							Cracked and broken		
30/03/2016	Queen St	Muswellbrook	21	5	4							Cracked and broken		
30/03/2016	Queen St	Muswellbrook	52	5	4									
20/03/2017	Queen St	Muswellbrook	55a	2	4							Chipped		
20/03/2017	Queen St	Muswellbrook	164	2	4							Chipped		
20/03/2017	Queen St	Muswellbrook	117	2	4							Chipped		
9/12/2014	Richmond St	Muswellbrook	10	1	4							Chipped		
9/12/2014	Riesling St	Muswellbrook	Cnr Cabernet	1	4							Chipped		
10/12/2014	Roger St	Muswellbrook	Public School	1	4							Chip		
21/01/2015	Rutherford Rd	Muswellbrook	Legacy Units	1	4							Chip		
24/10/2013	Scott St	Muswellbrook	23	5	4									
9/12/2014	Semilon St	Muswellbrook		2	4							2 x 1m chip		
20/01/2015	Shaw Cr	Muswellbrook	9	5	4					2				

7/04/2016	Shaw Cr	Muswellbrook	1	5	4		Y							
9/12/2014	Shiraz St	Muswellbrook	86	2	4							Chip		
9/12/2014	Shiraz St	Muswellbrook	40	1	4							chip		
29/10/2019	Shiraz St	Muswellbrook	34	2	4							chip		
9/12/2014	Shiraz St	Muswellbrook	32	1	4							chip		
21/03/2017	Shiraz St	Muswellbrook	13	2	4							chip		
27/03/2018	Shiraz St	Muswellbrook	50	1	4						Chip			
27/03/2018	Shiraz St	Muswellbrook	Cnr Traminer	2	4						Chip			
pre 2013	Sowerby St	Muswellbrook	64	5	4									
8/01/2015	St Andrews Pl	Muswellbrook	2	2	4							Chip		
23/05/2016	Sydney St	Muswellbrook	91-93	20	4									
pre 2013	Thompson St	Muswellbrook	31	10	4									
16/04/2018	Thompson St	Muswellbrook	53	2	4						Chip			
pre 2013	Tobruk Ave	Muswellbrook	50	5	4									
20/05/2016	Tobruk Ave	Muswellbrook	52	5	4		Y							
11/02/2020	Tobruk Ave	Muswellbrook	73	10	4									
12/01/2015	Virginia St	Denman	10	10	4									
7/03/2017	Weemala Pl	Muswellbrook	34	1	4							small chunk missing from layback		

Part of Rehab Area														
pre 2013	Palace St	Denman	From 11 to end of gutter	130	1	Y	Y	SA Kerb	Y	4	Pavement work also needed	With pavement rehab		
5/04/2017	Anzac Pde	Muswellbrook	Sydney St to No 20	260	1	Y	Y		Y	10		Anzac Parade is on the Rehab program		
5/04/2017	Anzac Pde	Muswellbrook	Sydney St to No 20	260	1	Y	Y		Y			Anzac Parade is on the Rehab program		
18/04/2018	Anzac Pde	Muswellbrook	22	10	1									
18/04/2018	Anzac Pde	Muswellbrook	54	10	1									
18/04/2018	Anzac Pde	Muswellbrook	39	10	1							Anzac Parade is on the Rehab program		
18/04/2018	Anzac Pde	Muswellbrook	40	5	1							Anzac Parade is on the Rehab program		
18/04/2018	Anzac Pde	Muswellbrook	48	5	1							Anzac Parade is on the Rehab program		
18/04/2018	Anzac Pde	Muswellbrook	56	5	1							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	11	10	3							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	9	4	3							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	30	10	4							Anzac Parade is on the Rehab program		
18/04/2018	Anzac Pde	Muswellbrook	21	5	1							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	Corner Sydney St	5	2/3							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	Corner Sydney St	5	2/3							Anzac Parade is on the Rehab program		
pre 2013	Anzac Pde	Muswellbrook	24	10	2/3							Anzac Parade is on the Rehab program		
14/03/2017	Merton St	Denman	2-16	100	1						Rehab project? - total length to be checked			
12/01/2015	Merton St	Denman	2	30	1				Y		Rehab project? - total length to be checked	Across driveway		

ATTACHMENT D

NEW PROPOSED FOOTPATH LIST

										50	30	10	10	10	10								
ROUTE	ROUTE NAME	ROUTE SECTION		APPROX.	WIDTH (m)	AREA (m)	FACILITY	PRIORITY	RESPONSIBILITY	FACILITY ACCESS	YEAR	DEGREE OF DIFFICULTY IN WALKING	TRAFFIC VOLUME	AVAILABILITY OF PARKING LANE/ SHOULDER	CONNECTIVITY	SCORE	RANK	RATE	ESTIMATE		Direct construct cost	Other expenditure	Comments
	Rutherford Rd (Northern side)	Acacia Dr	Cassidy Ave	210	2.5	525.0	NP	High	MSC	40	25	5	10	5	10	95	2	$ 180.00	$ 182,000.00	$	94,500.00	$ 16,000.00	Pram Ramp 2, service adjustment
M29	Dolahenty St	Victoria St	King St	375	2.5	937.5	NP	High	MSC	40	25	8	7	5	10	95	3	$ 180.00	$ 166,000.00	$	168,750.00	$ 7,500.00	Extra excavation
M27-C	Carl St	Market Lane	Victoria St	80	2.5	200.0	NP	Medium	MSC	40	30	5	5	2	5	87		$ 190.00	$ 51,000.00	$	38,000.00	$ 8,000.00	Pram Ramp 2
M51	Newman St	Karoola Park	Cook St	155	2.5	387.5	NP	Low	MSC	20	25	5	3	5	10	68		$ 190.00	$ 73,625.00				Active Transport 2020/2021 funding
M47-B	Roger St	Muswellbrook Primary School	Dumaresq St	180	2.5	450.0	NP	High	MSC	20	25	7	3	7	5	67		$ 190.00	$ 85,500.00				Active Transport 2020/2021 funding
M44-A2	Cook St	Sowerby St	Carl St	198	2.5	495.0	NP	Medium	MSC	20	25	7	5	5	5	67		$ 190.00	$ 94,050.00				Active Transport 2020/2021 funding
M54-A	Brecht St	Cook St	King St	670	2.5	1,675.0	NP	Medium	MSC	20	20	8	4	7	0	59		$ 190.00	$ 318,250.00				Active Transport 2020/2021 funding
M30-A	King St	Clendinning St	Brecht St		2.5	-	NP	Low	MSC	20	15	5	4	3	5	52		$ 190.00	$ -				Active Transport 2020/2021 funding
	Karoola Park (FMKAROP913P-01)*	Shiraz St	Newman St (school)	250	1.5	375.0	NP		MSC	30	30	5	6	5	6	82		$ 190.00	$ 71,250.00				
M58-A	New England Hwy / Muswellbrook Golf Course	Thompson St	Bell St	280	2.0	560.0	NP	High	MSC	40	30	5	10	2	10	97		$ 190.00	$ 136,400.00	$	106,400.00	$ 20,000.00	Pram Ramp - 2, earth works and possible guard rail
D1-B	Turtle Street	Creek Crossing	Paxton Street	112	1.5	168.0	NP	High	MSC	50	25	8	2	5	5	95		$ 190.00	$ 40,520.00	$	31,920.00	$ 3,600.00	Pram Ramp - 1, 125mm drive way - 18 m2
M16-A	Thompson St	Kamilaroi St	New England Highway	290	2.0	580.0	NP	High	MSC	40	30	8	5	7	5	95		$ 190.00	$ 137,700.00	$	110,200.00	$ 20,000.00	Pram Ramp - 5 - Should be constructed in conjunction with Showground development work
M4-D	Ironbark Rd	Adams St	Rutherford Rd	335	2.0	670.0	NP	Medium	MSC	40	25	7	9	5	5	91		$ 190.00	$ 167,300.00	$	127,300.00	$ 15,000.00	Works currently being undertaken 09/07/2021
M5-C	Ironbark Rd	Calgaroo Ave	Ironbark Ridge Estate#	200	2.0	400.0	NP	Medium	MSC	40	25	8	5	5	10	93		$ 190.00	$ 101,000.00	$	76,000.00	$ 20,000.00	Pram Ramp - 5
M15	Kamilaroi St	Cassidy Ave	Thompson St	130	2.0	260.0	NP	High	MSC	40	28	8	3	7	0	86		$ 190.00	$ 71,400.00	$	49,400.00	$ 12,000.00	Should be constructed in conjunction with Showground development work
M9-A	Bloodwood Rd	Acacia Dr	9 Bloodwood	190	1.5	285.0	NP	Medium	MSC	35	25	7	3	5	10	85		$ 190.00	$ 54,150.00	$	54,150.00		
	Brook St-Doyle St- Brentwood St	George St	Brentwood St	160	2.0	320.0	NP		MSC	30	25	5	10	10	5	85		$ 190.00	$ 79,300.00	$	60,800.00	$ 18,500.00	Pram Ramp - 4, Guard rail
	Karoola Park (FMKAROP913P-02)*	Shiraz St (int)	Newman St (flats)	395	1.5	592.5	NP		MSC	30	30	7	7	5	6	85		$ 190.00	$ 133,075.00	$	112,575.00	$ 12,500.00	
M16-B	Thompson St	Kamilaroi St	Adams St	370	1.5	555.0	NP	Medium	MSC	40	25	8	4	7	0	84		$ 190.00	$ 105,450.00				Should be constructed in conjunction with Showground development work
M33	Wilkinson Ave	Haydon St	Olympic Park	380	2.0	760.0	NP	Medium	MSC	40	20	5	4	5	10	84		$ 190.00	$ 144,400.00				
D9-A	Virginia Street	Isobel Street	Merton Street	330	1.5	495.0	NP	High	MSC	50	20	5	3	5	0	83		$ 190.00	$ 94,050.00				
M18	Nowland St	Tindale St	Skellatar St	160	1.5	240.0	NP	Medium	MSC	40	20	8	3	6	5	82		$ 190.00	$ 45,600.00				
D12-B	Palace Street	St Josephs School	Merton Street	195	2.0	390.0	NP	High	MSC	30	30	7	10	5	0	82		$ 190.00	$ 74,100.00				
M16-C	Thompson St	Adams St	Fitzgerald Ave	240	1.5	360.0	NP	Medium	MSC	40	25	7	4	5	0	81		$ 190.00	$ 68,400.00				
M8	Beech St	Calgaroo Ave	Acacia Dr	320	1.5	480.0	NP	Medium	MSC	35	25	5	3	5	8	81		$ 190.00	$ 91,200.00				
M7-A	Calgaroo Ave	Ironbark Rd	Beech St	495	1.5	742.5	NP	Medium	MSC	35	25	5	3	5	8	81		$ 190.00	$ 141,075.00				
M42	Semilion St	Shiraz St	Cook St	180	1.5	270.0	NP	Medium	MSC	30	30	5	5	5	5	80		$ 190.00	$ 51,300.00				
	Karoola Park (FMKAROP913P-03)*	Newman Street	Semilon Street	390	1.5	585.0	NP		MSC	30	25	5	6	6	6	78		$ 190.00	$ 111,150.00				
	Karoola Park (FMKAROP913P-00)*	Humphries St steps	Shiraz St (Int)	250	1.5	375.0	NP		MSC	30	20	8	5	5	6	74		$ 190.00	$ 71,250.00				
M6-B	Rutherford Rd	Cassidy Ave	Ironbark Rd	238	2.0	476.0	NP	Medium	MSC	30	20	6	7	5	5	73		$ 190.00	$ 90,440.00				
M10-B	Acacia Dr	Rutherford Rd	Bloodwood Rd	780	2.0	1,560.0	NP	Low Medium Timed with future residential development	MSC MSC Developer	30	20	5	5	7	5	72		$ 190.00	$ 296,400.00				
M22	Adams St	Ruth White Ave	Thompson St	202	2.0	404.0	NP	High	MSC	20	25	5	8	5	8	71		$ 190.00	$ 76,760.00				Resident is concerned around the number of school children that are using this road. He stated that it is a very busy road for pedestrians and cars. Children scoot on the road and is concerned that they may be hit by vehicles.
	Ruth White Ave	Osborn Ave	Adams St	75	2.0	150.0	NP	High	MSC	20	25	5	8	5	8	71		$ 190.00	$ 28,500.00				Resident is concerned around the number of school children that are using this road. He stated that it is a very busy road for pedestrians and cars. Children scoot on the road and is concerned that they may be hit by vehicles.
D7	Arbor Park	57 Virginia Street	Olgivie Street	420	1.5	630.0	NP	Medium	MSC	50	10	8	3	0	0	71		$ 190.00	$ 119,700.00				
M53	Bowman St	Victoria Park	Queen St	585	1.5	877.5	NP	Low	MSC	30	20	5	5	5	5	70		$ 190.00	$ 166,725.00				
	Bridge St	Wilkins St	Aberdeen St	600	1.5	900.0	NP		MSC	20	25	5	10	0	10	70		$ 190.00	$ 171,000.00				
M21-A	Ruth White Ave	Osborn Ave	Thompson St	590	1.5	885.0	NP	Medium	MSC	40	10	5	3	6	5	69		$ 190.00	$ 168,150.00				
M23-B	Mitchell St	Property 48	Francis St	80	1.5	120.0	NP	Medium	MSC	30	20	5	3	5	5	68		$ 190.00	$ 22,800.00				
M24	Francis St	Mitchell St	Maitland St	200	1.5	300.0	NP	Medium	MSC	30	20	5	3	5	5	68		$ 190.00	$ 57,000.00				
M20 - A	Skellatar St	Sydney St	Moash	235	1.5	352.5	NP	Low	MSC	20	25	5	3	5	10	68		$ 190.00	$ 66,975.00				
M12-A	Woollybutt Way	Kurrajong Reserve	Casuarina Cl	155	2.0	310.0	NP	Low / High	MSC / Centre Management	20	25	7	3	7	5	67		$ 190.00	$ 58,900.00				
M44-A1	Cook St	Queen St	George St	722	2.0	1,444.0	NP	Medium	MSC	20	25	7	5	5	5	67		$ 190.00	$ 274,360.00				
M22	Adams St	Skellatar Stock Route	Ruth White Ave	540	1.5	810.0	NP	Low	MSC	20	25	5	4	5	5	64		$ 190.00	$ 153,900.00				
D16	Almond Street	16 Almond St	Bray Street	140	1.5	210.0	NP	Timed with future residential development	MSC	20	25	7	1	5	5	63		$ 190.00	$ 39,900.00				
M12-B	Woollybutt Way	Casuarina Cl	Calgaroo Ave	120	1.5	180.0	NP	High	MSC	20	25	7	3	7	0	62		$ 190.00	$ 34,200.00				
D8-A	Turner Street	Ogilvie Street/Rail Crossing	Bell St	350	1.5	525.0	NP	Timed with future residential development	MSC	40	10	5	2	5	0	62		$ 190.00	$ 99,750.00				
M27-A	Carl St	Cook St	Brook St	360	1.5	540.0	NP	Medium	MSC	10	25	10	5	2	10	62		$ 190.00	$ 102,600.00				
M46-A	Sowerby St	Hastings St (Karoola Park access)	Hill St	700	1.5	1,050.0	NP	Very Low	MSC	30	20	5	5	2	0	62		$ 190.00	$ 199,500.00				
M26	Osborn Ave	Thompson St	Ruth White Ave	190	2.0	380.0	NP	High	MSC	30	10	7	3	5	5	60		$ 190.00	$ 72,200.00				
D3-C	Macauley Street	Hyde Park	Virginia Street	220	1.5	330.0	NP	Low	MSC	20	20	8	1	5	5	59		$ 190.00	$ 62,700.00				
M23-A	Mitchell St	Francis St	Sydney St	370	1.5	555.0	NP	Low	MSC	20	25	5	2	2	5	59		$ 190.00	$ 105,450.00				
M43	Lexia St	Queen St	Verdelho Reserve	715	1.5	1,072.5	NP	Low	MSC	30	10	8	3	5	0	56		$ 190.00	$ 203,775.00				
M19	Tindale St	Fitzgerald Ave	Nowland St	295	1.5	442.5	NP	Medium	MSC / School	10	25	8	3	8	0	54		$ 190.00	$ 84,075.00				
D13	Merton Street	Virginia Street	Palace Street	395	1.5	592.5	NP	Low	MSC	20	20	7	2	5	0	54		$ 190.00	$ 112,575.00				
M48	Dumaresq St	Sowerby St	Roger St	215	1.5	322.5	NP	High	MSC	20	20	5	3	5	0	53		$ 190.00	$ 61,275.00				
M30-A	King St	Brecht St	Queen St		1.5	-	NP	Low	MSC	20	15	5	4	3	5	52		$ 190.00	$ -				
M35	The Common (Queen St)	King St	Verdelho Reserve	1690	1.5	2,535.0	UP	Medium	MSC	10	25	5	1	0	10	51		$ 190.00	$ 481,650.00				
M3	Wollombi Rd	Sydney St	Patterson Pl (easement path)	1210	1.5	1,815.0	NP	Medium	MSC	10	20	6	4	5	5	50		$ 190.00	$ 344,850.00				
M17	Fitzgerald Ave	St James Primary School	Tindale St	135	1.5	202.5	NP	Medium	MSC	10	25	6	2	6	0	49		$ 190.00	$ 38,475.00				
D18	Turner Street	Bray Street	Kenilworth Street	120	2.0	240.0	NP	Timed with future residential development	MSC	10	25	7	2	5	0	49		$ 190.00	$ 45,600.00				
M13	Casuarina Cl	Woollybutt Way	Easement	90	1.5	135.0	NP	Very Low Timed with future development	MSC/Developer	10	20	5	1	7	5	48		$ 190.00	$ 25,650.00				
M40-B	Hunter St	Sowerby Ave	View Pl	90	1.5	135.0	NP	Low	MSC	10	25	5	4	3	0	47		$ 190.00	$ 25,650.00				
D5	Virginia Street	Bebbington Street	Bright Street	205	1.5	307.5	NP	Very Low	MSC	10	20	7	3	5	0	45		$ 190.00	$ 58,425.00				

M25	Anzac Pde	Sydney St	Easement path (Nowland St)	305	1.5	457.5	NP	Low	MSC	0	25	5	2	7	5	44		$ 190.00	$ 86,925.00
M21-B	Ruth White Ave	Easement	-	40	1.5	60.0	UP	Low	MSC	10	25	5	3	0	0	43		$ 190.00	$ 11,400.00
D17	Bray Street	Almond Street	Turner Street	130	1.5	195.0	NP	Timed with future residential development	MSC/Developer	10	20	7	1	5	0	43		$ 190.00	$ 37,050.00
D9-B	Virginia Street	Merton Street	Kenilworth Street	285	1.5	427.5	NP	Low	MSC	20	10	5	3	5	0	43		$ 190.00	$ 81,225.00
D3-A	Hyde Park	Macauley Street	Babbington Street	260	2.0	520.0	NP	Medium	MSC	20	10	5	1	5	0	41		$ 190.00	$ 98,800.00
D4	Babbington Street	Virginia Street	Hyde Street	290	1.5	435.0	NP	Very Low	MSC	20	10	5	1	3	0	39		$ 190.00	$ 82,650.00
M10-A	Acacia Dr (easement)	Acacia Dr	Goruk Cl	175	1.5	262.5	NP	Very Low	MSC	10	20	7	1	0	0	38		$ 190.00	$ 49,875.00
M36-A	Queen St	Cook St	Verdelho Reserve	550	1.5	825.0	SZNP	Very Low Low Timed with future residnetial development	MSC / Developer	0	20	5	4	4	5	38		$ 190.00	$ 156,750.00
M1-D	Sydney Street	Tarakan Ave	Wollombi Road	290	1.5	435.0	NP	High	MSC/RTA	10	10	5	5	3	5	38		$ 190.00	$ 82,650.00
M4-A	Skellatar Stock Rt	Sydney St	Wollombi Park	1030	2.0	2,060.0	NP	Medium	MSC	10	10	4	5	4	5	38		$ 190.00	$ 391,400.00
D15-B	Bell Street	Turner Street	Almond Street	135	1.5	202.5	NP	Timed with future residential development	MSC/Developer	10	10	6	1	5	5	37		$ 190.00	$ 38,475.00
M40-A	Hunter St	Karoola Park (west)	Sowerby Ave	235	1.5	352.5	NP	Medium	MSC	10	10	5	5	7	0	37		$ 190.00	$ 66,975.00
M14	Cassidy Ave	Calvary Driveway	Kamilaroi St	200	2.0	400.0	T	High	MSC	10	10	7	3	7	0	37		$ 190.00	$ 76,000.00
10	Sydney Street	Brook Park	Skellatar Stock Rt	25	1.5	37.5	NP	High	MSC/RTA	10	10	4	3	5	5	37		$ 190.00	$ 7,125.00
D9-B	Macauley Street	Palace Street	Hyde Park	105	1.5	157.5	NP	Low	MSC	10	10	5	1	5	5	36		$ 190.00	$ 29,925.00
D6	Rosemount Road	Virginia Street	Surveyor Generals Drive	295	1.5	442.5	NP	Timed with future residential development	MSC/Developer	10	10	7	3	5	0	35		$ 190.00	$ 84,075.00
M36-B	Queen St	Verdelho Reserve	Property 121	550	1.5	825.0	NP	Very Low Low Timed with future residnetial development		0	20	5	4	4	0	33		$ 190.00	$ 156,750.00
M36-C	Queen St	Property 145	Property 147	117	1.5	175.5	NP	Very Low Low Timed with future residnetial development		0	20	5	4	4	0	33		$ 190.00	$ 33,345.00
D10	Kenilworth Street	Virginia Street	Palace Street	400	1.5	600.0	NP	Very Low	MSC	10	10	5	2	5	0	32		$ 190.00	$ 114,000.00
NUMBER		From	To	LENGTH (m)			TYPE												
																			$ 8,595,800.00

1. Facility access assessment

10 Access to only one facility
20 2 facilities
Within access to Mbk south school and Muswellbrook High school (refer to Walk Cycle Plan 2009 survey).
30 3 facilities
40 >3 facilities
50 within 0.5km radius of CBD or south Shopping centre

* Suggested by Resident Leslie Cutriss 20/2/17
# Suggested by Resident Brett Miller 23/3/19 - to connect Ironbark Ridge Estate (M4-D & M5-C) to existing footpath

ATTACHMENT E

Town	Street	Location	Sub Location	Priority	Standard Y/N	Ramp %	Road %	Lip mm	Join?	Wings Y/N	Comment	Extra work needed	Completed
Muswellbrook	Market Street	Across Market	Art Gallery to QEII	1	N	6	4	20	Join	N	Observed electric wheel chair had difficulty over lip. Not a proper pram ramp - has been filled with coldmix as a temporary fix.		
Muswellbrook	Osborn Avenue	Corner Skellatar Stock Rt	17 Skellatar Stock Route	1	N	9	3	0		Y	Damaged pram ramp (has premix) needs to be replaced		
Muswellbrook	Hunter Park	Wollombi Rd	108 Wollombi Rd	1	N	10	5	20		Y	Cracked and damaged		
Muswellbrook	Market Street	Across Market	QEII to Art Gallery	1	N	11	5	20	Join	N	Not a proper pram ramp		
Muswellbrook	Sydney Street	Traffic Lights	Prince of Wales Hotel	1	N	10	14	0		Y			
Muswellbrook	Sydney Street	Traffic Lights	C&F Electronics	1	N	10	5	0		Y			
Muswellbrook	Sydney Street	Corner Forbes	124 Sydney Street	1	N	19	10	0		N	Not a proper pram ramp		
Muswellbrook	Sydney Street	Corner Forbes	126 Sydney Street	1	N	17	12	5		N	Not a proper pram ramp		
Muswellbrook	Sydney Street	Corner Anzac	140 Sydney Street	1	N	13	7	10		N		Pavement issues	
Muswellbrook	Sydney Street	Corner Anzac	FM Mechanical	1	N	11	10	0		Y		Pavement issues	
Muswellbrook	Sydney Street	Corner Tarakan	160 Sydney Street	1	N	11	11	0		Y			
Muswellbrook	Sydney Street	Corner Skellatar	100 Sydney Street	1	N	11	8	30		Y	Not a proper pram ramp		
Muswellbrook	Osborn Avenue	Corner Ruth White Avenue	51 Ruth White Avenue	1	N	12	9	0	Join	Y			
Muswellbrook	Osborn Avenue	Corner Ruth White Avenue	40 Ruth White Avenue	1	N	13	7	0	Join	Y			
Muswellbrook	Hunter Park	Wollombi Rd	106 Wollombi Rd	1	N	12	6	20		Y	Cracked		
Denman	Virginia Street	Corner Ogilvie St	Denman Hospital	1	N	11	8	0		Y	Doing with road work	Footpath work	
Denman	Ogilvie Street	Corner Virginia St	Denman Hospital	1	N	9	12	5-10		Y	Doing with road work	Footpath work	
Denman	Virginia Street	Corner Macauley St	37 Virginia	1	N	10	8	0		Y	Comply with standard		
Denman	Palace Street	Corner Macauley St	22 Palace St	1	N	10	5	0		Y	Footpath not continue		
Denman	Paxton Street	Corner Isobel St	RSL Club	2	N	10	6	0		Y	Filled with Coldmix	Need road work	
Denman	Paxton Street	Corner Isobel St	Memorial Park	2	N	9	4	0		Y	Filled with Coldmix	Need road work	
Denman	Paxton Street	Corner Crinoline St	11 Crinoline St	2	N	9	6	0		Y	End of path - no corresponding footpath on the other side		
Denman	Virginia Street	Corner Isobel St	95 Virginia	2	N	7	8	0	Join	Y	End of path - no corresponding pram ramp		
Denman	Crinoline St	Corner Virginia St	27 Crinoline	2	N						Path stops at property boundary there is no pram ramp or connecting path		
Denman	Ogilvie Street	Corner Palace St	Denman Hotel	2	N	8	6	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Palace Street	Corner Ogilvie St	Denman Hotel	2	N	8	5	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Palace Street	Corner Ogilvie St	NRMA	2	N	8	5	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Paxton Street	Corner Ogilvie St	Denman Dapkos	2	N	15	17	0		Y		Need road work	
Denman	Virginia Street	Corner Ogilvie St	56 Ogilvie	2	N	10	6	5	Join	Y		Need road work	
Denman	Paxton Street	Corner Ogilvie St	37 Ogilvie	2	N	14	11	0		Y	Road's angle actually 24%	Need road work	
Denman	Ogilvie Street	Corner Paxton St	37 Ogilvie	2	N	11	6	30-40		Y	Filled with Coldmix previously due to service request	Need road work	
Denman	Paxton Street	Corner Merton St	62 Paxton	2	N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Brook Street	Corner Carl	99 Brook		N	7	6	40-50		N	Not a proper pram ramp		
Muswellbrook	Brook Street	Brook St	79 Brook		N	9	4	0		Y	Path crosses Brook St near Sowerby St		
Muswellbrook	Sowerby Street	Corner Brook St	79 Brook		N	10	8	0		Y			
Muswellbrook	Brentwood Street	Brentwood St	2 King		N	9	9	10		Y	Long slope to path - no other platform		
Muswellbrook	Brentwood Street	Corner Birralee	13 Brentwood		N	8	5	5		Y			
Muswellbrook	Bell Street	Corner Clifford	Hermitage Motel		N	7	13	0		N			
Muswellbrook	Bell Street	Corner Clifford	2 Bell		N	8	11	5-10		N	Small gap at join	Weeds need to be removed	
Muswellbrook	Victoria Street	Cnr Dolahenty	Pedestrian crossing		N	8	6	0	Join	Y	No platform		
Muswellbrook	Market Street	Interchange	Centre island		N						The only way to get to the centre island is via the speed hump	Install ramps	
Muswellbrook	Sydney Street	Corner Mitchell	Brookside		N	11	6	10		Y	Pram ramp to nowhere - end of constructed path		
Muswellbrook	Sydney Street	Corner Mill	Accidental		N	3	13	20		N	Not a proper pram ramp		
Muswellbrook	Market Street	Across Market	Senior Citizens to Simpson Park		N	8	6	10	Join	Y			
Muswellbrook	Market Street	Corner Campion	King Cycle Works		N	8	2	0	Join	Y			
Muswellbrook	Haydon Street	Across Haydon	Muscle Creek		N	5	10	0		N	Path leads to the road, there is no corresponding ramp opposite	Road edge to pavers	
Muswellbrook	Maitland Street	Traffic Lights	Prince of Wales Hotel		N	7	8	0		Y			
Muswellbrook	Sydney Street	Traffic Lights	Matilda Service Station		N	11	7	0		Y			
Muswellbrook	Sydney Street	Corner Skellatar	Muswellbrook Motors		N	9	7	20		N			
Muswellbrook	Sydney Street	Corner Fleming	112 Sydney Street		N	5	10	0		N			
Muswellbrook	Sydney Street	Corner Fleming	114 Sydney Street		N	8	7	0		Y			
Muswellbrook	Sydney Street	Corner Barrett	88 Sydney Street		N	7	13	10-15		N	Not a proper pram ramp		
Muswellbrook	Haydon Street	Corner Wilkinson	Fitzgerald Park		N	6	9	0	Join	Y			
Muswellbrook	Haydon Street	Corner Wilkinson	7 Haydon Street		N	9	7	0	Join	Y			
Muswellbrook	Lonhro Place	Corner Jeune	7 Jeune Street		N	8	8	0	Join	Y			
Muswellbrook	Lonhro Place	Corner Sepoy	8 Sepoy Crescent		N	9	7	0	Join	Y			
Muswellbrook	Lonhro Place	Corner Sepoy	6 Sepoy Crescent		N	11	6	0	Join	Y			
Muswellbrook	Queen Street	Across Queen	131 Queen Street		N	8	6	0	Join	Y	Path leads to the road, there is a pram ramp but no path opposite		
Muswellbrook	Queen Street	Across Queen	139 Queen Street		N	9	9	0	Join	Y	Path leads to the road, there is a pram ramp but no path opposite		
Muswellbrook	Northview Circuit	Corner Queen	139 Queen Street		N	4	7	0	Join	Y			
Muswellbrook	Northview Circuit	Corner Queen	141 Queen Street		N	7	9	0	Join	Y			
Muswellbrook	Brook Street	Corner Bridge	ANZ		N	9	2	0		Y			
Muswellbrook	Bridge Street	Corner Bridge	ANZ		N	9	3	0		Y			
Muswellbrook	Bridge Street	Corner Brook	ANZ		N	9	3	0		Y			
Muswellbrook	Hill Street	Corner Bridge	RMS		N	3	10	30		N	Not a proper pram ramp	Cracked gutters	
Muswellbrook	Bridge Street	Corner Brook	Commonwealth Bank		N	10	4	0	Join	Y			
Muswellbrook	Brook Street	Corner Bridge	Commonwealth Bank		N	9	4	0	Join	Y			
Muswellbrook	Brook Street	Corner Sowerby	Caltex		N	8	7	0		Y			
Muswellbrook	Brook Street	Corner Sowerby	Convent		N	8	7	0		Y			
Muswellbrook	Brook Street	Corner Bridge	Westpac		N	8	4	0	Join	Y			
Muswellbrook	Bridge Street	Corner Brook	Westpac		N	9	4	0		Y			
Muswellbrook	Hill Street	Corner Sowerby	28 Sowerby		N	1	12	0		Y			
Muswellbrook	Sowerby Street	Corner Hill	28 Sowerby		N	7	11	0		Y			
Muswellbrook	Sowerby Street	Corner Brook	Marketplace		N	8	7	0		Y			
Muswellbrook	Sowerby Street	Corner Brook	Convent		N	9	9	0		Y	Pedestrian Crossing		
Muswellbrook	Semilon Street	Karoola Park	Karoola Park East		N	7	8	5	Join	Y	No platform		
Muswellbrook	Queen Street	Drainage Reserve	154/156 Queen		N	8	7	0		Y			
Muswellbrook	Burgundy Street	Drainage Reserve	19/21 Burgundy		N	9	4	40-50		Y			

Muswellbrook	Karoola Park	Netball Courts	Hastings St Carpark		N	8	7	0	Join	Y			
Muswellbrook	Verdelho Reserve	Queen-Cabernet	near 100 Queen		N	7	4	0	Cracked	Y	On fill list		
Muswellbrook	Verdelho Reserve	Queen-Cabernet	near 15 Cabernet		N	8	7	0		Y	Does not line up to path across road		
Muswellbrook	Verdelho Reserve	Cabernet-Shiraz	near 12 Cabernet		N						No pram ramp - does not connect to kerb - foot worn path lines up with other path		
Muswellbrook	Verdelho Reserve	Cabernet-Shiraz	near 79 Shiraz		N	9	7	30		Y	Connects to driveway opposite to Karoola Park - no constructed path		
Muswellbrook	Verdelho Reserve	Chardonnay-Verdelho	33/36 Chardonnay		N						No pram ramp - connects directly to mountable kerb		
Muswellbrook	Queen Street	Queen-Thiess	opposite 62 Queen		N	9	unable	0		Y	Gutter full of dirt		
Muswellbrook	Chardonnay Street	Verdelho Reserve	36/33 Chardonnay		N						No pram ramp - connects directly to mountable kerb		
Muswellbrook	Chablis Close	Verdelho Reserve	17/19 Chablis		N						No pram ramp - path has steps - does not connect to kerb - does not line up with path		
Muswellbrook	Chablis Close	Gamay Cl	14/16 Chablis		N						No pram ramp - path has steps - does not connect to kerb - does not line up with path		
Muswellbrook	Gamay Close	Chablis Cl	9/11 Gamay		N						No pram ramp - does not connect to kerb		
Muswellbrook	Humphries Steet	Karoola Park	25/27 Humphries		N						No pram ramp - path has steps - does not connect to kerb		
Muswellbrook	Humphries Steet	Karoola Park	5/7 Humphries		N						No pram ramp - path has steps - does not connect to kerb		
Muswellbrook	Sowerby Ave	Karoola Park	18/83 Sowerby Ave/St		N						No pram ramp - path stops at property boundary		
Muswellbrook	Queen Street	Common	Thiess Crescent		N						No pram ramp - connects directly to barrier kerb - 2 flat entrances to Weeraman		
Muswellbrook	Brook Street	Hunter Terrace	St Aubins		N	13	9	0	Join	N	Ramp connects to A/C path - in poor condition		
Muswellbrook	Hunter Terrace	Cnr Brook Street	St Aubins		N	10	10	0	Join	N	Ramp connects to A/C path - in poor condition		
Muswellbrook	Maitland Street	Corner Bell Street	Hermitage Motel (ped xing)		N	8	5	0		Y			
Muswellbrook	Maitland Street	Across Maitland Street	52 Maitland Street (ped xing)		N						Unconstructed driveway, no pram ramp as such, does not really line up with line marking, some barrier kerb		
Muswellbrook	Maitland Street	Corner Gyarran Street	44 Maitland		N	11	6	40	Join	Y			
Muswellbrook	Maitland Street	Corner Gyarran Street	42 Maitland		N	8	6	40	Join	N			
Muswellbrook	Maitland Street	Corner Wilder Street	36 Maitland		N	8	4	0		N	Pits in footpath restrict wings		
Muswellbrook	Maitland Street	Corner Wilder Street	Remington Hotel		N	10	7	0		Y	Does not line up to path across road		
Muswellbrook	Maitland Street	Corner Lorne Street	25 Maitland		N	10	7	0		Y			
Muswellbrook	Maitland Street	Corner Francis Street	ex NPWS office		N	10	5	0		Y			
Muswellbrook	Maitland Street	Across Maitland Street	Mbk South Primary School		N	9	6	50		Y	Pram ramp is not the width of the linemarking on the road, some barrier kerb		
Muswellbrook	Maitland Street	Tafe Driveway	Tafe Western side (ped xing)		N	8	8	0		Y			
Muswellbrook	Maitland Street	Corner Thompson Street	1 Thompson		N	11	7	30		Y			
Muswellbrook	Bridge Street	Corner St Heliers St	147 Bridge St		N	7	9	40	Join	Y	Not a proper pram ramp		
Muswellbrook	Kurrajong Reserve	Beech Street	Kurrajong Reserve East		N	7	3	0		Y			
Muswellbrook	Kurrajong Reserve	Wandoo Cl	Culdesac		N	12	6	0		Y			
Muswellbrook	Kurrajong Reserve	Peppermint Rd	Culdesac		N	9	5	0		Y			
Muswellbrook	Kurrajong Reserve	Goruk Cl	Culdesac		N	8	7	0		Y			
Muswellbrook	Kurrajong Reserve	Melaleuca Cl	Culdesac		N	11	6	0		Y			
Muswellbrook	Kurrajong Reserve	Calgaroo Ave	76/76 Calgaroo Avenue		N						No pram ramp - connects directly to barrier kerb		
Muswellbrook	Lou Fisher Pl	Across Lou Fisher	4 Lou Fisher		N	11	10	0	Join	Y	Mountable Kerb		
Muswellbrook	Lou Fisher Pl	Across Lou Fisher	opposite 4 Lou Fisher		N	9	9	10	Join	Y	Mountable Kerb		
Muswellbrook	Kurrajong Reserve	Cypress Place	9/11 Cypress Place		N						No Pram Ramp - path connects to kerb over KIP		
Muswellbrook	Kurrajong Reserve	Across Woollybutt Way	Woollybutt Way		N	8	6	0		Y			
Muswellbrook	Casuarina Close	Path to Vacant Block	7/9 Casuarina		N						No pram ramp - connects directly to mountable kerb		
Muswellbrook	Casuarina Close	Path to Ironbark	10/12 Casuarina		N						No pram ramp - connects directly to mountable kerb		
Muswellbrook	Rutherford Road	Muswellbrook Fair	Muswellbrook Fair North		N	7	8	0	Join	N	No platform. Has tactiles		
Muswellbrook	Ironbark Road	Corner Rutherford Road	22 Ironbark Road		N	8	7	0		Y	Future path		
Muswellbrook	Ironbark Road	Corner Calgaroo Ave	2 Calgaroo Ave		N	8	8	0		N			
Muswellbrook	Rutherford Road	Across Rutherford Road	Wideland Toyota		N	8	5	0		N			
Muswellbrook	Rutherford Road	Corner Acacia Drive	45 Rutherford Road		N	8	7	0		Y			
Muswellbrook	Plashett Close	Across Plashett	3 Plashett Close		N	8	7	5	Join	Y			
Muswellbrook	Plashett Close	Across Plashett	2 Angus Peebles Close		N	10	7	0	Join	Y	Weeds in join		
Muswellbrook	Kinji Reserve	Calgaroo Ave	33/35 Calgaroo		N	8	5	0		Y			
Muswellbrook	Kinji Reserve	Edinglassie Drive	Culdesac		N						No pram ramp - connects directly to mountable kerb		
Muswellbrook	Osborn Avenue	Corner Finnegan Crescent	75 Osborn		N	8	6	0	Join	Y			
Muswellbrook	Finnegan Crescent	Corner Osborn Ave	75 Osborn		N	8	6	0	Join	Y			
Muswellbrook	Finnegan Crescent	Corner Osborn Ave	1 Finnegan		N	8	6	0	Join	Y			
Muswellbrook	Osborn Avenue	Corner Finnegan Crescent	1 Finnegan		N	10	6	0	Join	Y			
Muswellbrook	Mitchell Street	Corner Skellatar Street	52/58 Mitchell St		N	10	7	0	Join	Y			
Muswellbrook	Osborn Avenue	Corner Skellatar Street	2 Osborn Avenue		N	10	5	0	Join	Y			
Muswellbrook	Edinglassie Drive	Path from Angus Peebles	5/7 Edinglassie		N						No pram ramp - path connects to kerb over KIP		
Muswellbrook	Fitzgerald Avenue				N						No pram ramp		
Muswellbrook	Skellatar Street	Bowman Park			N						No pram ramp		
Muswellbrook	Finnegan Crescent	Corner Osborn Ave	49 Osborn Ave		N	11	6	10	Join	Y			
Muswellbrook	Tierney Street	Corner Finnegan Crescent	5 Finnegan Cr		N	8	8	5	Join	Y			
Muswellbrook	Tierney Street	Corner Finnegan Crescent	3 Finnegan Cr		N	9	8	5	Join	Y			
Muswellbrook	Osborn Avenue	Across Osborn	69 Osborn Ave		N	8	6	0		Y			
Muswellbrook	Osborn Avenue	Across Osborn	67 Osborn Ave		N	10	6	0		Y			
Muswellbrook	Osborn Avenue	Corner Tierney	53 Osborn Ave		N	10	6	5	Join	Y			
Muswellbrook	Osborn Avenue	Corner Tierney	55 Osborn Ave		N	8	6	0	Join	Y			
Muswellbrook	Osborn Avenue	Across Osborn	55 Osborn Ave		N	8	6	10	Join	Y			
Muswellbrook	Skellatar Street	Corner Mitchell	52-56 Mitchell St		N	10	7	0	Join	Y			
Muswellbrook	Lorne Street	Corner Barrett	21 Barrett St		N	8	4	0		Y			
Muswellbrook	Lorne Street	Corner Fleming	16 Fleming St		N	6	9	0		Y			
Muswellbrook	Rutherford Road	Corner Maitland St	Mitsubishi		N	9	7	20		Y			
Muswellbrook	Maitland Street	Corner Rutherford Road	Mitsubishi		N	8	6	0	Join	Y			
Muswellbrook	Maitland Street	Corner Thompson Street	McDonalds		N	9	6	0		Y			
Muswellbrook	Maitland Street	Corner Rutherford Road	Toyota		N	5	9	0		Y			
Muswellbrook	Maitland Street	Corner Bimbadeen Drive	1C Bimbadeen		N	9	6	4	Join	Y			
Muswellbrook	Maitland Street	Corner Bimbadeen Drive	Newcastle side of intersection		N	9	5	5	Join	Y			
Muswellbrook	Weemala Pl	Path from Maitland St	34/35 Weemala		N						No pram ramp - path connects to kerb over KIP		
Muswellbrook	Bimbadeen Dr	Across Bimbadeen	45 Bimbadeen		N	7	8	0	Join	Y	Path leads to the road, there is no pram ramp or path opposite		
Muswellbrook	John Howe Circuit	Corner Bimbadeen Drive	1 John Howe		N	6	8	0	Join	Y			
Muswellbrook	Bloodwood Road	Corner Bimbadeen Drive	31 Bimbadeen		N	10	9	0	Join	Y	Path leads to the road, there is no pram ramp or path opposite		

Muswellbrook	John Howe Circuit	Corner Jenkins St	36 John Howe		N	5	8	5	Join	Y			
Muswellbrook	John Howe Circuit	Corner Jenkins St	34 John Howe		N	8	6	0	Join	Y			
Muswellbrook	Day Street	Corner Henry Dangar	Opposite 1 Day		N	8	1	20	Join	Y	Not a proper pram ramp		
Muswellbrook	Day Street	Across Day St	Opposite 17 Day		N	10	1	0	Join	Y	Cracked - not a proper pram ramp		
Muswellbrook	Day Street	Corner Hunt Pl	1 Hunt Pl		N	10	4	0	Join	Y			
Muswellbrook	Day Street	Corner Hunt Pl	2 Hunt Pl		N	12	1	0	Join	Y			
Muswellbrook	Day Street	Across drain	2 Hunt Pl		N	11	2	0	Join	Y			
Muswellbrook	Day Street	Corner Belmore	19 Day		N	8	7	0	Join	Y			
Muswellbrook	Black St	Across Black Street	16 Belmore		N	11	5	5	Join	Y			
Muswellbrook	Cunningham St	Across Cunningham	2 Black		N	8	7	0	Join	Y			
Muswellbrook	Belmore St	at bend	12 Belmore		N	8	7	0	Join	Y			
Muswellbrook	Cunningham St	Across Cunningham	2 Belmore		N	9	9	0	Join	Y			
Muswellbrook	Cunningham St	Across Cunningham	5 Cunningham		N	8	7	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Across Wanaruah	31 Wanaruah		N	6	9	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Corner McGregor	18 McGregor		N	8	8	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Corner Mussell	23 Wanaruah		N	6	8	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Corner Mussell	21 Wanaruah		N	11	7	0	Join	Y			
Muswellbrook	Chivers Circuit	Corner Henry Dangar	43 Henry Dangar		N	7	5	0	Join	Y			
Muswellbrook	Wattle Street	Across Wattle	6 Wattle		N	7	8	5	Join	Y			
Muswellbrook	Wattle Street	Corner Wanaruah	2 Wattle		N	7	9	10	Join	Y			
Muswellbrook	Wattle Street	Across Wattle	5 Wattle		N	10	9	0	Join	Y			
Muswellbrook	Chivers Circuit	Across Chivers	19 Chivers		N	6	8	8	Join	Y			
Muswellbrook	Henry Danger Drive	Ridge	Public Reserve at top		N	8	6	0	Join	Y	Path leads to the road, there is no pram ramp or path opposite		
Muswellbrook	Dixon Cct	Across Dixon	20 Dixon		N						Car parked over pram ramp at time of inspection (28/10/2015)		
Muswellbrook	Loftberg Court	Across Loftberg	2 Loftberg (Opp 22 Dixon)		N	9	8	0	Join	Y			
Muswellbrook	Loftberg Court	Across Loftberg	22 Dixon		N	11	6	0	Join	Y			
Muswellbrook	Dixon Cct	Across Dixon	22 Dixon		N	10	4	0	Join	Y			
Muswellbrook	Grant Miller Street	Corner Dixon Cct	24 Grant Miller		N	8	8	5	Join	Y			
Muswellbrook	Henry Danger Drive	Across Henry Dangar	30 Henry Danger		N	8	6	0	Join	Y			
Muswellbrook	Henry Danger Drive	Cnr Dixon	40 Henry Dangar		N	7	8	0	Join	Y			
Muswellbrook	Tobruk Ave	Path to Glenbawn Pl	49/51 Tobruk		N	12	6	40	Join	N			
Muswellbrook	Glenbawn Pl	Path to Tobruk Ave	6/7 Glenbawn		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Hunter Park	Jersey Place to Wollombi	7 Jersey Pl		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Hunter Park	Jersey Place to Dangar	5 Jersey Pl		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Hunter Park	Dangar Pl to Jersey Pl	10 Dangar Pl		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Hunter Park	Dangar Pl to Wollombi	17 Dangar Pl		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Dangar Pl	Wollombi Rd	7/9 Dangar Pl		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Wollombi Rd	Dangar Pl	96/94 Wollombi Rd		N	9	7	20		Y	Pram ramp does not connect to path		
Muswellbrook	Paterson Pl	Path to Tindale St	5/6 Paterson St		N						Path stops at property boundary there is no pram ramp or connecting path		
Muswellbrook	Tindale St	Path to Paterson PL	57/Mt Providence		N	12	unable			Y	Pram ramp full of dirt from scour next to path - could not measure (5/2/16)		
Muswellbrook	Anzac Pde	Paterson-Tindale path	End of road		N						No pram ramp from connector path		
Muswellbrook	Common	North bound path	Common Rd		N	16	4	0		N	Kerb only		
Muswellbrook	Common	North bound path	53a Queen St		N	7	8	0		Y	Debris in gutter		
Muswellbrook	Common	South bound path	Common Rd		N						Path eroded, pram ramp full of debris - could not measure (5/2/16)		
Muswellbrook	Common	South bound path	opposite 59 Queen St		N						Path stops short of Queen St		
Muswellbrook	Common	South bound path	King St		N						Path stops short of Queen St		
Denman	Palace Street	Corner Ogilvie St	Visitor Information Centre		Y	3	5	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Ogilvie Street	Corner Palace St	Visitor Information Centre		Y	6	6	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Ogilvie Street	Corner Palace St	NRMA		Y	7	4	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Ogilvie Street	Corner Palace St	Royal Hotel		Y	5	6	10	Join	Y	Pram ramp is constructed of pavers		
Denman	Palace Street	Corner Ogilvie St	Royal Hotel		Y	5	6	0	Join	Y	Pram ramp is constructed of pavers		
Denman	Ogilvie Street	Corner Paxton St	Fernandes		Y	6	5	5-10	Join	Y	Pram ramp is constructed of pavers		
Denman	Ogilvie Street	Corner Paxton St	Denman Dapkos		Y	6	6	0		Y			
Denman	Virginia Street	Corner Babbington St	21 Virginia		Y	4	7	0		Y	End of path - no corresponding pram ramp		
Denman	Virginia Street	Corner Macauley St	39 Virginia		Y	7	7	0		Y			
Denman	Virginia Street	Corner Turtle St	17 Turtle		Y	7	6	0		Y			
Denman	Macauley St	Denman Wetlands	next to 10 Macauley St		Y	7	7	10	Join	Y			
Denman	Palace Street	Corner Merino	36 Palace St		Y	4	6	5	Join	Y			
Denman	Palace Street	Corner Turtle St	Parish Hall		Y	4	4	20	Join	Y			
Denman	Paxton Street	Corner Turtle St	22 Paxton St		Y	7	6	0		Y			
Denman	Arbor Park	Ogilvie Street	Corner Virginia St		Y	7	5	5	Join	Y			
Denman	Turner Street	Newton Close	51 Almond St (East)		Y	6	5	0	Join	Y			
Denman	Turner Street	Newton Close	51 Almond St (West)		Y	1	4	0	Join	Y			
Denman	Crinoline St	Corner Paxton St	RSL Club		Y	5	6	0	Join	Y			
Denman	Crinoline St	Corner Paxton St	22 Crinoline St		Y	6	6	0	Join	Y			
Denman	Paxton Street	Across Paxton St	Denman Public School		Y	6	8	40	Join	Y	Layback design		
Muswellbrook	King Street	King Street	2 King	1	Y	4	8	10		Y	No platform - 8% over peak		
Muswellbrook	Bowman Park	Lorne Street	next to 20 Lorne St		Y	6	5	0		Y	Pram ramp cracked and separating from path - needs replacement		
Muswellbrook	Brook Street	Corner Carl	98 Brook		Y	5	12	40		N	Not a proper pram ramp		
Muswellbrook	Brook Street	Corner Carl	100 Brook		Y	4	5	30		N	Not a proper pram ramp		
Muswellbrook	Brook Street	Corner Carl	97 Brook		Y	7	7	0		N			
Muswellbrook	Sowerby Street	Corner Brook St	80 Brook		Y	7	4	0		Y			
Muswellbrook	Brook Street	Brook St	80 Brook		Y	7	4	0		Y	Path crosses Brook St near Sowerby St		
Muswellbrook	George Street	George St	Culdesac		Y	7	4	20		N	Path extends from George St Culdesac to Brook St - 2 x bollards		
Muswellbrook	King Street	King Street	Near Roundabout		Y	7	7	30		Y	Not joined to path, extends across King Street towards Brentwood	Connect to path	
Muswellbrook	King Street	Upper William St	7 King		Y	7	6	0		Y			
Muswellbrook	King Street	Upper William St	Mbk High School		Y	5	9	0		Y	Ramp replaced 2016 with Dolahenty footpath		
Muswellbrook	King Street	Clendinning St	Mbk High School		Y	6	6	0		Y	Footpath joins to A/C path from school	Replace A/C with Concrete	
Muswellbrook	Brentwood Street	Corner Birralee	11 Brentwood		Y	6	9	5		Y		Road pavement needs repair	
Muswellbrook	Bell Street	Bell St	2 Bell (across Bell)		Y	6	7	5-10		N	Small gap at join		
Muswellbrook	Victoria Street	Cnr Bell St	Pedestrian crossing		Y	3	3	0		N			
Muswellbrook	Wilkinson Avenue	Olympic Park	Path near park gates		Y	6	6	5		Y	Path leads to the road, there is no corresponding ramp opposite		

Muswellbrook	Sydney Street	Corner Mill	Rodeo Ranch		Y	6	6	0	Join	Y	Pavement needs repair		
Muswellbrook	Sydney Street	Traffic Lights	Valley Hotel		Y	7	7	0		Y			
Muswellbrook	William Street	Corner Bridge	John Flood		Y	4	5	0	Join	N			
Muswellbrook	William Street	Corner Bridge	Royal Hotel		Y	5	6	0	Join	N			
Muswellbrook	Bridge Street	Traffic Lights	Millers		Y	5	2	0	Join	Y			
Muswellbrook	Bridge Street	Traffic Lights	Court House		Y	4	2	0	Join	Y			
Muswellbrook	Market Street	Corner William	Wellness Chiropractic		Y	4	6	0	Join	Y			
Muswellbrook	Market Street	Corner Campion	TLE		Y	7	2	0	Join	Y			
Muswellbrook	Market Street	Corner Carl	Muswellbrook Hotel		Y	4	5	0		Y			
Muswellbrook	Market Street	Interchange	Simpson Park		Y	4	5	0		Y	Path leads to the road, there is no corresponding ramp opposite	There are no pram ramps on the interchange	
Muswellbrook	Market Street	Across Market	Simpson Park to Senior Citzens		Y	7	1	0	Join	Y			
Muswellbrook	Sydney Street	Corner Jordan	Sydney Street Tyres		Y	4	3	10		Y			
Muswellbrook	Sydney Street	Corner Jordan	68 Sydney Street		Y	6	6	10-20		Y			
Muswellbrook	Sydney Street	Corner Barrett	90 Sydney Street		Y	5	5	20		N	Not a proper pram ramp		
Muswellbrook	Sydney Street	Corner Mitchell	78 Sydney Street		Y	7	5	0	Join	Y			
Muswellbrook	Sydney Street	Corner Mitchell	76 Sydney Street		Y	7	6	0	Join	Y			
Muswellbrook	Wilkinson Avenue	Fitzgerald Park	Opposite Pool		Y	6	4	0	Join	Y	Path to nowhere (on new footpath list?)		
Muswellbrook	Sepoy Crescent	Corner Queen	151 Queen Street		Y	5	3	0	Join	N			
Muswellbrook	Sepoy Crescent	Corner Queen	153 Queen Street		Y	7	5	0	Join	Y			
Muswellbrook	Lonhro Place	Corner Queen	163 Queen Street		Y	5	5	0	Join	Y			
Muswellbrook	Lonhro Place	Corner Queen	165 Queen Street		Y	6	6	0	Join	Y			
Muswellbrook	Lonhro Place	Across Lonhro	10 Lonhro Place		Y	7	5	0	Join	Y			
Muswellbrook	Queen Street	Across Queen	129 Queen Street		Y	6	6	5-10	Join	Y	Path leads to the road, there is a pram ramp but no path opposite	Some kerb damaged	
Muswellbrook	Queen Street	Across Queen	141 Queen Street		Y	7	7	0	Join	Y			
Muswellbrook	Northview Circuit	Across Northview	4 Northview Circuit		Y	7	6	0	Join	Y	Path leads to the road, there is a pram ramp but no path opposite		
Muswellbrook	Northview Circuit	Across Northview	6 Northview Circuit		Y	6	6	0	Join	Y			
Muswellbrook	Northview Circuit	Corner Northerly	5 Northview Circuit		Y	7	7	0	Join	Y			
Muswellbrook	Northerly Close	Across Northerly	5 Northview Circuit		Y	7	6	0	Join	Y	Path leads to the road, there is a pram ramp but no path opposite		
Muswellbrook	Bridge Street	Across Bridge	Muswellbrook Holden		Y	6	1	0	Join	Y			
Muswellbrook	Hill Street	Corner Bridge	Loxton House		Y	5	7	0		Y			
Muswellbrook	Hill Street	Corner Bridge	Shell		Y	9	7	10	Join	Y			
Muswellbrook	St Heliers St	Corner Bridge	Hungry Jacks		Y	9	7	5	Join	Y			
Muswellbrook	Hill Street	Corner Bridge	Centabrook		Y	7	7	0		Y			
Muswellbrook	Bridge Street	Across Bridge	Happy Tooth		Y	7	2	0	Join	Y			
Muswellbrook	Parkinson Street	Corner Brecht	1 Parkinson		Y	7	4	0		Y			
Muswellbrook	Queen Street	Corner Cook	62 Queen		Y	7	5	0	Join	Y			
Muswellbrook	Semilon Street	Karoola Park	Karoola Park West		Y	6	6	5	Join	Y	Not connected to a constructed path		
Muswellbrook	Carl Street	Corner Cook	68 Carl		Y	4	1	0	Join	Y	No Platform - crosses blister to no constructed path		
Muswellbrook	Carl Street	Corner Cook	23 Cook		Y	8	6	0	Cracked	Y	Cracked		
Muswellbrook	Cook Street	Across Cook	41 Cook		Y	6	5	0		Y			
Muswellbrook	Roger Street	Corner Koombahla	2 Koombahla		Y	6	5	0		N			
Muswellbrook	Verdelho Reserve	Merlot-Verdelho	10/12 Merlot		Y	6	6	0	Join	Y			
Muswellbrook	Maitland Street	Corner Lorne Street	3 Lorne		Y	7	6	60		N	Not a proper pram ramp		
Muswellbrook	Maitland Street	Corner Lorne Street	Pizza Bella		Y	5	6	0		Y			
Muswellbrook	Maitland Street	Corner Francis Street	43 Maitland		Y	6	5	0		Y			
Muswellbrook	Maitland Street	Across Maitland Street	Tafe (ped xing)		Y	7	7	0		Y			
Muswellbrook	Maitland Street	Tafe Driveway	Tafe Eastern side (ped xing)		Y	6	6	0		Y			
Muswellbrook	Bridge Street	Corner Wilkins St	208 Bridge		Y	7	5	10	Join	Y	Leads to 3 steps. Also has a paved path.		
Muswellbrook	Sowerby Street	Corner St Heliers St	11 St Heliers St		Y	7	6	0		N	No platform		
Muswellbrook	Kurrajong Reserve	Beech Street	Kurrajong Reserve West		Y	6	4	0		Y			
Muswellbrook	Kurrajong Reserve	Bowfeld Pl	Culdesac		Y	6	6	0		Y			
Muswellbrook	Kurrajong Reserve	Cypress Place	Culdesac		Y	7	4	0		Y			
Muswellbrook	Woollybutt Way	Across Woollybutt Way	Harvey Norman		Y	7	2	0		Y			
Muswellbrook	Rutherford Road	Corner Woollybutt Way	Aldi		Y	7	6	10-15		Y	Small pram ramp pointing diagonally across Rutherford Road		
Muswellbrook	Woollybutt Way	Corner Rutherford Road	Aldi		Y	7	3	0		Y			
Muswellbrook	Woollybutt Way	Corner Rutherford Road	37 Rutherford Road		Y	7	4	0		Y			
Muswellbrook	Rutherford Road	Muswellbrook Fair	Muswellbrook Fair South		Y	5	4	0		N	Has tactiles		
Muswellbrook	Ironbark Road	Corner Rutherford Road	1 Rutherford Road		Y	7	7	0		Y			
Muswellbrook	Rutherford Road	Across Rutherford Road	Wideland Mitsubishi		Y	5	3	0		N			
Muswellbrook	Rutherford Road	Corner Acacia Drive	Wideland Toyota		Y	5	6	0		Y			
Muswellbrook	Osborn Avenue	Corner Skellatar Stock Rt	77 Osborn Avenue		Y	7	6	0		Y			
Muswellbrook	Finnegan Crescent	Corner Osborn Ave	51 Osborn Ave		Y	6	7	5	Join	Y			
Muswellbrook	Osborn Avenue	Across Osborn	53 Osborn Ave		Y	7	6	15	Join	Y			
Muswellbrook	Lorne Street	Corner Jordan Street	16-18 Jordan St (Flats)		Y	6	1	0		Y			
Muswellbrook	Lorne Street	Corner Jordan Street	19 Jordan St		Y	7	5	0		Y			
Muswellbrook	Lorne Street	Corner Mitchell Street	18 Mitchell St		Y	7	5	0	Join	Y			
Muswellbrook	Lorne Street	Corner Mitchell Street	25 Mitchell St		Y	7	6	0	Join	Y			
Muswellbrook	Lorne Street	Corner Barrett	20 Barrett St		Y	7	2	4		Y			
Muswellbrook	Lorne Street	Corner Skellatar St	22 Skellatar St		Y	6	4	0		Y			
Muswellbrook	Lorne Street	Corner Skellatar St	15 Skellatar St		Y	6	7	0		Y			
Muswellbrook	Bimbadeen Dr	Across Bimbadeen	43 Bimbadeen		Y	6	6	0	Join	Y	Weeds in join		
Muswellbrook	John Howe Circuit	Corner Bimbadeen Drive	2 John Howe		Y	6	7	0	Join	Y			
Muswellbrook	Bimbadeen Dr	Corner Bloodwood	31 Bimbadeen		Y	7	4	0	Join	Y			
Muswellbrook	Bimbadeen Dr	Across Bimbadeen	24 Bimbadeen		Y	6	5	0	Join	Y	Path leads to the road, there is no pram ramp or path opposite		
Muswellbrook	Bimbadeen Dr	Across Bimbadeen	28 Bimbadeen		Y	5	4	10	Join	Y			
Muswellbrook	Bimbadeen Dr	Across Henry Dangar	Corner Henry Dangar Drive		Y	6	5	5	Join	Y			
Muswellbrook	Henry Danger Drive	Across Henry Dangar	Corner Day St (Reserve)		Y	7	5	0	Join	Y			
Muswellbrook	Day Street	Across Day St	Opposite 5 Day		Y	5	1	0	Join	Y	Weeds in join - not a proper pram ramp		
Muswellbrook	Day Street	Across Day St	Opposite 19 Day		Y	5	1	0	Join	Y			
Muswellbrook	Day Street	Across drain	2 Day St		Y	7	1	0	Join	Y			
Muswellbrook	Day Street	Corner Belmore	17 Day		Y	2	3	0	Join	Y			
Muswellbrook	Belmore St	Corner Day	17 Day		Y	5	7	5	Join	Y	Path leads to the road, there is no pram ramp or path opposite		

Muswellbrook	Black St	Corner Belmore	11 Black		Y	1	6	0	Join	Y			
Muswellbrook	Cunningham St	Corner Dixon Cct	6 Dixon		Y	5	3	0	Join	Y			
Muswellbrook	Cunningham St	Corner Dixon Cct	4 Dixon		Y	6	4	0	Join	Y			
Muswellbrook	Cunningham St	Across Cunningham	15 Cunningham		Y	5	7	0	Join	Y			
Muswellbrook	Cunningham St	Across Cunningham	5 Day St		Y	7	7	0	Join	Y	Path leads to the road, there is no pram ramp or path opposite		
Muswellbrook	Day Street	Across Day St	5 Day St		Y	2	1	0	Join	Y			
Muswellbrook	Henry Danger Drive	Across Day St	1 Day St		Y	4	4	5	Join	Y			
Muswellbrook	Henry Danger Drive	Across Henry Dangar	1 Day St		Y	6	6	0	Join	Y	Path leads to driveway (with lip)		
Muswellbrook	Henry Danger Drive	Across Henry Dangar	24 Henry Dangar		Y	7	6	0	Join	Y			
Muswellbrook	Henry Danger Drive	Across Henry Dangar	1 Wanaruah Cct		Y	7	5	0	Join	Y			
Muswellbrook	Mussell St	Across Mussell St	2 Mussell St		Y	6	5	0	Join	Y			
Muswellbrook	Mussell St	Across Mussell St	11 Henry Dangar		Y	5	0	10	Join	Y			
Muswellbrook	McGregor St	Across McGregor St	2 McGregor St		Y	6	1	0	Join	Y			
Muswellbrook	McGregor St	Across McGregor St	5 Henry Dangar Dr		Y	5	0	10	Join	Y			
Muswellbrook	Henry Danger Drive	Across Henry Dangar	Corner Wanaruah (Reserve)		Y	7	7	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Across Wanaruah	Opposite 31 Wanaruah		Y	4	3	10	Join	Y			
Muswellbrook	Wanaruah Circuit	Corner McGregor	19 McGregor		Y	6	7	0	Join	Y			
Muswellbrook	Wanaruah Circuit	Across Wanaruah	5 Wanaruah		Y	7	4	20	Join	Y			
Muswellbrook	Wanaruah Circuit	Across Wanaruah	1 Wanaruah Cct		Y	7	1	5	Join	Y			
Muswellbrook	Wattle Street	Across Wattle	24 Wattle		Y	7	7	10	Join	Y			
Muswellbrook	Chivers Circuit	Across Chivers	40 Chivers		Y	7	7	0	Join	Y			
Muswellbrook	Chivers Circuit	Across Chivers	45 Henry Dangar		Y	7	7	0	Join	Y			
Muswellbrook	Henry Danger Drive	Across Wanaruah	2 Wanaruah		Y	7	2	0	Join	Y			
Muswellbrook	Dixon Cct	Corner Henry Dangar	24 Henry Dangar		Y	6	1	0	Join	Y			
Muswellbrook	Dixon Cct	Across Dixon	23 Dixon		Y	4	3	0	Join	Y			
Muswellbrook	Grant Miller Street	Corner Dixon Cct	17 Grant Miller		Y	3	4	0	Join	Y			
Muswellbrook	Henry Danger Drive	Across Dixon	1 Dixon		Y	6	2	0	Join	Y			
Muswellbrook	Tindale St	7-11 Tindale St			Y						Path goes from driveway to driveway in front of public housing		
Muswellbrook	Bridge Street	Corner Brook	Newcastle Permanent	R						Y	Has been replaced - to be rechecked 31/5/16		
Muswellbrook	Brook Street	Corner Bridge	Newcastle Permanent	R						Y	Has been replaced - to be rechecked 31/5/16		
Sandy Hollow	SH27	1605	Crossover			5	5	0		Y	Gutter full of dirt		
Sandy Hollow	SH27	opp 1605 (bus shelter)	Crossover			10	7	0		Y	Gutter full of dirt		
Sandy Hollow	SH27	1618 (Tourist Park)	Crossover			12	7	10	Join	Y			
Sandy Hollow	SH27	opp 1618	Crossover			11	5	10	Join	Y			
Muswellbrook	Cassidy Avenue	Corner Rutherford Road	ISC		Y	8		0		Y	New with Rutherford/Cassidy path 2016		
Muswellbrook	Rutherford Road	ISC	Crossover		Y	8		0		Y	New with Rutherford/Cassidy path 2016		
Muswellbrook	Rutherford Road	Muswellbrook Fair	Crossover		Y	7		0		Y	New with Rutherford/Cassidy path 2016		
Muswellbrook	Dolahenty Street	Muswellbrook High School	opp 3		N	15		0		N	New path from existing to King St 2016		

ATTACHMENT F

Rural - Rehab	Street	From	To	Treatment Type	STR_LENGTH	STR_WIDTH	STR_WIDTH	Priority	Urban Class
RLTHOMD010	THOMAS MITCHELL DR	0.00 KM	0.73 KM	Rehab	730	8	6	Priority 1	Rural
RLTHOMD015	THOMAS MITCHELL DR	0.73 KM	1.10 KM	Rehab	360	8	6	Priority 1	Rural
RLTHOMD020	THOMAS MITCHELL DR	1.10 KM	1.32 KM	Rehab	220	10.8	6	Priority 1	Rural
RLSCRUR060	SCRUMLO RD	5.13 KM	5.40 KM	Rehab	266	6	9	Priority 1	Rural
RLMANGR090	MANGOOLA RD	8.00 KM	9.00 KM	Rehab	1000	5.8	8	Priority 1	Rural
RLMANGR100	MANGOOLA RD	9.00 KM	10.00 KM	Rehab	1000	5.8	8	Priority 1	Rural
RLMANGR110	MANGOOLA RD	10.00 KM	10.63 KM	Rehab	628	5.8	8	Priority 1	Rural
RLBELLL010	BELLS LN	0.00 KM	1.046 KM	Rehab	1046	3.5	9	Priority 3	Rural
RLDUGGR010	DUGGANS RD	0.00 KM	1.242 KM	Rehab	1242	6.6	9	Priority 3	Rural
RLFERNR040	FERNDALE RD	2.80 KM	3.85 KM	Rehab	850	5.4	9	Priority 3	Rural
RLMANGR130	MANGOOLA RD	12.00 KM	12.41 KM	Rehab	406	5.8	8	Priority 1	Rural
RLMANGR135	MANGOOLA RD	12.43 KM	13.00 KM	Rehab	568	5.8	8	Priority 1	Rural
RLMARTR040	MARTINDALE RD	3.47 KM	4.00 KM	Rehab	530	9	7	Priority 2	Rural
Urban - Rehab	**Street**	**From**	**To**	**Treatment Type**	**STR_LENGTH**	**STR_WIDTH**	**STR_WIDTH**	**Priority**	**Urban Class**
RMROGES020	ROGER ST	KOOMBAHLA ST	COOK ST	Rehab	62	11.5	7	Priority 2	Urban
RDOGILS020	OGILVIE ST	VIRGINIA ST	PAXTON ST	Rehab	221	7.5	7	In progress	Urban
RMANZAP010	ANZAC PDE	SYDNEY ST	TARAKAN AVE	Rehab	111	10.3	8	Priority 1	Urban
RMANZAP020	ANZAC PDE	TARAKAN AVE	TOBRUK AVE	Rehab	91	7.1	8	Priority 1	Urban
RMANZAP030	ANZAC PDE	TOBRUK AVE	END OF ROAD	Rehab	364	7.1	9	Priority 2	Urban
RMBROOS030	BROOK ST	BRIDGE ST	RAILWAY LINE	Rehab	102	19.3	6	Priority 1	Urban
RMFLEMS010	FLEMING ST	SYDNEY ST	LORNE ST	Rehab	212	11	9	Priority 1	Urban
RMHILLS100	HILL ST	BRIDGE ST	Railway Fence	Rehab	96	10	7	Priority 1	Urban
RMLORNS010	LORNE ST	MAITLAND ST	JORDAN ST	Rehab	136	12.6	7	Priority 1	Urban
RMLORNS020	LORNE ST	JORDAN ST	MITCHELL ST	Rehab	91	12.6	7	Priority 1	Urban
RMCARLS060	CARL ST	BROOK ST	WILLIAM ST	Deep Profile & Ove	231	8.2	6	Priority 1	Urban
RMRUTHR010	RUTHERFORD RD	NEW ENGLAND HWY	ACACIA DR	Rehab	90	7.8	6	Priority 1	Urban
RMRUTHR011	RUTHERFORD RD	ACACIA DR	NEW ENGLAND HWY	Rehab	90	7.8	6	Priority 1	Urban
RDMERTS020	MERTON ST	PAXTON ST	PALACE ST	Reseal/rehab	212	13.7	8	Priority 1	Urban
RMWILKS020	WILKINS ST	FORD ST	ABERDEEN ST	Reseal	159	11.5	7	Priority 1	Urban
RMHILLS041	HILL ST	RAILWAY	RMHILLS030	Rehab	35	3	9	Priority 2	Urban
RMHILLS080	HILL ST	BLIGH ST	SOWERBY ST	Rehab	114	10	7	Priority 2	Urban
RMTHOMS010	THOMPSON ST	DRAINAGE RESERVE	ADAMS ST	Rehab	34	9	8	Priority 2	Urban
RMHUNTT008	HUNTER TCE	HILL ST	ROAD WIDENING	Rehab	38	7.7	6	Priority 2	Urban
RMRUTHR036	RUTHERFORD RD	RBT	CASSIDY AVE	Rehab	42	10.8	6	Priority 3	Urban
RMRUTHR037	RUTHERFORD RD	CASSIDY AVE	RBT	Rehab	42	7.6	6	Priority 3	Urban
RMCAMPL010	CAMPION LN	MARKET LN	MARKET ST	Rehab	88	6	9	Priority 3	Urban
RDPALAS040	PALACE ST	MERINO ST	MACAULEY ST	Rehab	212	11.1	7	Priority 1	Urban
RMTARAA010	TARAKAN AVE	ANZAC PDE	CRETE ST	Reseal	92	7.8	9	Priority 2	Urban

ATTACHMENT G

Segment No	Street	From	To	Treatment Type	STR_LENGTH	STR_WIDTH	CL_NAASRA	Priority	Urban Class
Rural - Reseal									
RLGIACR130	GIANTS CREEK RD	11.40 KM	12.60 KM	Reseal	1200	5.6	9	Priority 1	Rural
RLROSER010	ROSEMOUNT RD	0.00 KM	1.30 KM	Reseal	1000	8	8	Priority 1	Rural
RLROSER040	ROSEMOUNT RD	3.00 KM	4.00 KM	Reseal	1000	9.2	8	Priority 1	Rural
RLROSER050	ROSEMOUNT RD	4.00 KM	4.95 KM	Reseal	1000	8.2	8	Priority 1	Rural
RLWYBOR220	WYBONG RD	19.60 KM	20.60 KM	Reseal	920	6.4	7	Priority 1	Rural
RLMTDAR010/011/012	MOUNT DANGAR RD	0.1km	1.335km	Reseal	1235	5.4	9	Priority 1	Rural
RLHORSR030	HORSESHOE RD	1.98 KM	3.20 KM	Reseal	1200	6	9	Priority 1	Rural
RLWYBOR310/320	WYBONG RD	31.00 KM	32.30 KM	Reseal	1300	7	7	Priority 2	Rural
RLBYLOW170	BYLONG VALLEY WY	17.82 KM	18.49 KM	Reseal	670	8.5	9	Priority 2	Rural
RLTHOMD050	THOMAS MITCHELL DR	4.00 KM	4.70 KM	Heavy Patch & Reseal	696	7.2	6	Priority 1	Rural
RLTHOMD030	THOMAS MITCHELL DR	2.00 KM	2.79 KM	Reseal	790	13	6	Priority 1	Rural
RLTHOMD040	THOMAS MITCHELL DR	2.79 KM	4.00 KM	Heavy Patch & Reseal	1211	7	6	Priority 1	Rural
RLTHOMD070	THOMAS MITCHELL DR	6.00 KM	7.00 KM	Reseal	1000	7.2	6	Priority 2	Rural
RLBAECR050	BAERAMI CREEK RD	4.00 KM	5.00 KM	Rework and Reseal	1000	7.4	9	Priority 1	Rural
RLMARTR080	MARTINDALE RD	6.91 KM	7.25 KM	Reseal	346	8	8	Priority 1	Rural
Urban - Reseal									
RSGOULD080	GOULBURN DR	420m S	RAILWAY LINE W	Reseal	280	5.4	9	Priority 1	Urban
RSGOULD040	GOULBURN DR	RAILWAY LINE W	RAILWAY LINE E	Reseal	859	3.6	9	Priority 1	Urban
RMCOMMR020	COMMON RD	ROAD WIDENING	INDUSTRIAL CL	Reseal	262	11	7	Priority 1	Urban
RMQUEES080	QUEEN ST	BRENTWOOD ST	KING ST	Reseal	293	7	8	Priority 1	Urban
RMQUEES010	QUEEN ST	SHIRAZ ST	MATARO AVE	Reseal	381	13	8	Priority 2	Urban
RDCRINS020	CRINOLINE ST	PAXTON ST	PALACE ST	PMB Overlay	206	11	6	Priority 1	Urban
RDBELLS010	BELL ST, DMN	TURNER ST	ALMOND ST	Reseal	144	8.1	8	Priority 1	Urban
RMBRENS040	BRENTWOOD ST	BRECHT ST	BIRRALEE ST	Corrector & Seal	293	12	7	Priority 1	Urban
RMBRENS050	BRENTWOOD ST	BIRRALEE ST	RBT	Corrector & Seal	115	12	7	Priority 1	Urban
RMBROOS041	BROOK ST	SOWERBY ST	BRIDGE ST	AC Overlay	212	8.1	6	Priority 1	Urban
RMRUTHR031	RUTHERFORD RD	RBT	WOOLLYBUTT WY	PMB Overlay	147	7.8	6	Priority 1	Urban
RDBURKC010	BURKILL CL	ALMOND ST	CULDESAC	Reseal	115	6	8	Priority 1	Urban
RMCOOKS050	COOK ST	GEORGE ST	ROGER ST	Reseal	210	6	6	Priority 1	Urban
RMCLENS020	CLENDINNING ST	CAMPBELL ST	VICTORIA ST	Reseal	171	13	7	Priority 1	Urban
RMCOUSS030	COUSINS ST	BARRINGTON ST	KAROOLA AVE	Reseal	219	9.2	7	Priority 1	Urban
RMDALWP020	DALWOOD PL	CULDESAC	CULDESAC	Reseal	192	6.7	9	Priority 2	Urban
RMFINNC020	FINNEGAN CR	TIERNEY ST	OSBORN AVE	PMB Overlay	90	7	9	Priority 1	Urban
RDPALAS030	PALACE ST	TURTLE ST	MERINO ST	Reseal	220	11.2	7	Priority 1	Urban
RDPALAS050	PALACE ST	MACAULEY ST	BABBINGTON ST	Reseal	224	8.2	8	Priority 1	Urban
RMQUEES060	QUEEN ST	BOWMAN ST	WILSON ST	Reseal	98	9	8	Priority 2	Urban
RMQUEES050	QUEEN ST	COOK ST	BOWMAN ST	Reseal	259	8.6	7	Priority 2	Urban
RMQUEES070	QUEEN ST	WILSON ST	BRENTWOOD ST	Reseal	110	7	8	Priority 2	Urban
RMSEMIS020	SEMILLON ST	SHIRAZ ST	COOK ST	Corrector & Seal	40	11	6	Priority 1	Urban
RMTHOMS050	THOMPSON ST	ST JAMES CR	SHAW CR	Corrector & Seal	63	9	6	Priority 1	Urban
RMTHOMS070	THOMPSON ST	SHAW CR	ROAD NARROWING	Corrector & Seal	125	9	6	Priority 1	Urban
RMWOLLR030	WOLLOMBI RD	WOLLOMBI RD	DANGAR PL	Reseal	265	11	7	Priority 2	Urban
RMWOLLR020	WOLLOMBI RD	DALWOOD PL	WOLLOMBI RD	Reseal	441	11	7	Priority 2	Urban
RMRUTHR031	RUTHERFORD RD	RBT	WOOLLYBUTT WY	Reseal	147	7.8	6	Priority 2	Urban
RMBLIGL010	BLIGH LN	ROAD NARROWING	CARL ST	Reseal	108	5.8	9	Priority 2	Urban
RMBLIGL020	BLIGH LN	GEORGE ST	ROAD NARROWING	Reseal	106	8	9	Priority 2	Urban
RMKINGS010	KING ST	QUEEN ST	MIDANGA AVE	Reseal	199	18.4	9	Priority 2	Urban
RMKINGS020	KING ST	MIDANGA ST	BRECHT ST	Reseal	60	18.4	9	Priority 2	Urban
RMKINGS030	KING ST	BRECHT ST	CLENDINNING ST	Reseal	220	19.2	7	Priority 2	Urban
RMSANR010	SANRAY CR	RUTH WHITE AVE	CULDESAC	Reseal	29	9	9	Priority 2	Urban
RMTHOMS030	THOMPSON ST	DONALDSON ST	RUTH WHITE AVE	Reseal	115	9	8	Priority 2	Urban

ATTACHMENT H

Date	Road name	Defects	Chainage	Length	Comments
9/04/2018	Aberdeen Street			20	Guardrail end has been hit (end closest to 12)
30/10/2012	Bureen Road	Ends	1080 LHS		Non reflective ends (also old style ends)
30/10/2012	Bureen Road	Replacement	11900-11970	70	LHS Old mesh guardrail has failed (almost all gone) - needs replacement - possibly install guideposts for short term
30/10/2012	Bureen Road	Replacement	13200-13350	300	Both sides old mesh guardrail failed - steep embankments
15/03/2018	Bylong Valley Way	End	1140 RHS		Guardrail end damaged
15/03/2018	Bylong Valley Way	Guardrail	7730 RHS		Guardrail end damaged
15/03/2018	Bylong Valley Way	Guardrail	8690 LHS		Minor guardrail damage
15/03/2018	Bylong Valley Way	Brifen	20850 RHS		Minor damage to wire rope
10/12/2012	Bylong Valley Way	Ends	23220 RHS		New reflective end needed on guardrail
10/12/2012	Bylong Valley Way	Ends	23377 LHS		New reflective end needed on guardrail
10/12/2012	Bylong Valley Way	Ends	23397 RHS		Old fish tail end
10/12/2012	Bylong Valley Way	Ends	23433 RHS		New reflective end needed on guardrail
	Bylong Valley Way	Brifen	24460 RHS		Wire rope guardail hit
	Bylong Valley Way	Brifen	24515 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Brifen	24650 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Brifen	24850 RHS		Wire rope guardrail hit] Continuous wire rope with some damage as
	Bylong Valley Way	Brifen	25015 RHS		Wire rope guardrail hit] indicated
	Bylong Valley Way	Brifen	25075 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Brifen	25100 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Brifen	25120 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Brifen	25195 RHS		Wire rope guardrail hit]
	Bylong Valley Way	Guardrail	27440 L&R		Guardrail needs reflective ends (old ends)
	Bylong Valley Way	Guardrail	30540 LHS		Guardrail needs reflective ends (old ends)
	Bylong Valley Way	Guardrail	30600 LHS		Guardrail needs reflective ends (old ends)
	Bylong Valley Way	Brifen	25195 RHS		Wire rope guardail hit
10/12/2012	Bylong Valley Way	Ends	27400		Old fish tail ends on both ends of both guardrails over culvert
10/12/2012	Bylong Valley Way	Ends	29243-29346		Right - old fish tail either end of guardrail
10/12/2012	Bylong Valley Way	Ends	29780-29930		Left - old fish tail either end of guardrail
10/12/2012	Bylong Valley Way	Ends	29780-30521		Right - old fish tail either end of guardrail
10/12/2012	Bylong Valley Way	Ends	30536-30610		Left - old fish tail either end of guardrail
6/02/2019	Dolahentys Branch Road	Guardrail	135 LHS	20	Replace guardrail
6/02/2019	Dolahentys Branch Road	Guardrail	135 RHS	20	Replace guardrail - damaged
	Hebden Road	Guardrail	Int SH9		First 10m RHS has minor damage where vehicle has hit
19/04/2012	Muscle Creek Road	Ends	7050 L&R		Replace guardrail - old ends
6/09/2012	Peberdys Road	Ends	2149-2212		Guardrail has old ends
6/09/2012	Peberdys Road	Ends	2436		Guardrail has old ends
21/01/2016	Reedy Creek road	Ends	1420 LHS		Needs reflective sticker on end
31/10/2012	Rosemount Road	Guardrail	4662 LHS	10	Guardrail has minor damage where it has been hit by vehicle unknown
6/02/2019	Sandy Creek Road	Guardrail	At rail crossing		Guardrail which had been hit has been removed - needs to be replaced
2/10/2012	Sandy Creek Road	Guardrail	5040-5477	10	Guardrail at this location has old ends - has some damage
3/03/2021	Sandy Creek Road	Ends	14460		Guardrail has old ends
20/11/2017	Thomas Mitchell Drive	Guardrail	4440 RHS	10	End has been hit and damaged plus guardrail
13/02/2018	Thomas Mitchell Drive	Wire Rope	7715 RHS		Wire Rope guardrail has been hit and damaged
13/02/2018	Thomas Mitchell Drive	Wire Rope	8140 RHS		Wire Rope guardrail has been hit and damaged
2/07/2021	Wybong Road	Guardrail	12445		Guardrail just after Sandy Creek Bridge has been hit several times
8/11/2012	Yarrawa Road	Ends	9175		Guardrail has old ends

Attachment I

Car Park Inspections

Town	Name	Location	Area	Seal Type	K&G	Pavement	Linemarking	Median	Wheel Stops	TCD	Comments
Marketplace	Hill St	2556.1	Unknown	OK	Cracking, surface defects especially near speed humps	needed	OK	1 x repair	Needs painting		
Muswellbrook	Brook Street Plaza	Brook St	883	Unknown	OK	In poor condition - part of CBD Redevelopment	Very poor	Nil	nil	Needs painting	
Muswellbrook	Campbells Corner	Brook St	1565	Unknown	Nil	In good condition	Very poor	Nil	nil	Needs painting	
Muswellbrook	From William St to IGA C/P	William St/Brook St	3866.6	AC14 mix	Nil	Minor cracking	good	Nil	nil	OK	
Muswellbrook	Karoola Park	Hastings St	2230.5	Unknown	OK	Weeds in a couple of parking spaces otherwise ok	OK	Nil	nil	nil	
Muswellbrook	Indoor Sports Centre	Rutherford Road	3891.4	14mm agg spray seal	OK	Patch failure 25 x 5	OK	OK	nil	nil	Trees removed from Median but stumps still there
Muswellbrook	Highbrook Playground	Ironbark Road	1017	Concrete	Good	Good condition	Very poor	Nil	Good	nil	Reflective strips needed on wheel stops
Muswellbrook	Highbrook lower carpark	Ironbark Road	2003	7mm agg spray seal	Nil	Minor cracking	good	nil	nil	nil	Scour next to driveway from Ironbark
Muswellbrook	Highbrook upper carpark	Ironbark Road	2123.4	Unknown	Nil	Good condition	Poor	Nil	nil	nil	Scour next to entrance driveway
Muswellbrook	Bowman Park	Skellatar St	358.5	Concrete	OK	Concrete - good	Very poor	Nil	nil	nil	
Muswellbrook	Aquatic Centre	Wilkinson Ave	2394.7	AC14 mix	OK	some cracking	Very poor	OK	nil	nil	Signage needs refreshing and realigning
Muswellbrook	Tennis Club	Wilkinson Ave			Good	New carpark	good	Nil	Good	Nil	
Muswellbrook	Olympic Park	Wilkinson Ave			Good	New carpark	good	Nil	Good	nil	
Muswellbrook	Works Depot Carpark	Carramere Rd	550	Unknown	OK	Some cracking in approach road, carpark in good condition	good	OK	nil	nil	Not inspected
Muswellbrook	Victoria Park	Hill St	1011	Unknown	Nil	Good condition	Very good	Nil	nil	nil	
Muswellbrook	Stan Thiess Centre	Hill St	985	Unknown	Nil	Good condition	Very good	Nil	Good	Nil	
Muswellbrook	Admin Centre - Employee	Maitland St	1824.8	Unknown	OK	OK Condition	Poor	Nil	nil	nil	Edge repairs needed at lead in road
Muswellbrook	Admin Centre - Eucalypt	Eucalypt Ave	495.2	Unknown	OK	Some cracking	Poor	OK	nil	nil	
Muswellbrook	Admin Centre - Public	Maitland St	2224.2	Unknown	OK	Some cracking	good	OK	nil	nil	Stormwater pit needs repairs
Muswellbrook	Admin - HACC	Maitland St	504	Unknown	OK	Good condition	Poor	Nil	nil	nil	
Muswellbrook	Transport Interchange	Market St	2080	Unknown	OK	Couple of potholes, some cracking - poor condition	needed	OK	nil	nil	Rehab list?
Muswellbrook	Railway Carpark	Market St	686	Unknown	OK	Reasonable condition	needed	Nil	nil	nil	
Muswellbrook	QEII Building	Market St	159	Gravel	Nil	Unsealed pavement	Not possible	Nil	nil	nil	
Muswellbrook	Market House	William St	850	AC10?	OK	Good condition	Poor	Nil	nil	nil	
Muswellbrook	Senior Citizens	Market Ln	489.3	AC14?	OK	Some cracking, some surface texture loss	Poor	Fair	nil	nil	
Muswellbrook	Art Gallery	William St	173.2	Concrete	Nil	Good condition	needed	Nil	nil	nil	Trim tree from exit sign
Muswellbrook	Court House to Solicitors	Brook St	2418.3	AC14 mix	OK	Cracking in the lane next to the solicitor's office	needed	Nil	nil	Needs painting	Replace pedestrian sign against court wall
Muswellbrook											
Muswellbrook	Rutherford Park	Scott St	300.3	Unknown	Nil	Pavement surface poor - W&W have repaired valves	nil	nil	nil	Needs painting	Area holds water when it rains
Muswellbrook	Brook St median to library	Brook St			OK	Some cracking	good		nil	nil	
Muswellbrook	Library	Hill St	4731	AC14 mix	Nil	Reasonable condition	needed	Good	nil	Needs painting	Burnt out bin has damaged surface
Muswellbrook	Education Institution	Hill St		AC14 mix	Good	Good condition	good	Good		nil	
Muswellbrook	Cemetery	Brecht St	565.6	14mm agg spray seal	OK	Reasonable condition	nil	OK	nil	nil	linemarking needed?
Muswellbrook	Weeraman Fields	Thiess Cr	1186.8	Unknown	OK	Some minor potholes.	needed	nil	nil	Needs painting	Speed hump signage missing, no stopping needs replacement
Muswellbrook	Golf Club (front carpark)	Bell St			Nil	Poor condition	needed	OK	nil	Nil	Rehab list?
Denman	Community Centre	Palace St	334.4	AC14 mix	OK	Some distortion to pavement surface, couple of potholes	OK	nil	nil	nil	Reseal?
Denman	Memorial Hall	Paxton St	641.4	Unknown	Nil	Potholes	Needed	nil	nil	nil	Small shed has been removed. Scope to expand the carpark? Some trees have been removed, old beds and stumps need to be removed/smoothed. HI Vis posts for remaining trees installed? Kerb and gutter needs to be removed and access for mobility issue people through to the pram ramp on opposite side plus a possible pedestrian crossing for safe access. Clean up leaf litter/debris in corner nearest golf tee off. Hold
Denman	Denman Pool	Ogilvie St	1744.3	Unknown	Minor damage	Good condition	hold line	OK	nil	Good	line needed for exit onto Turner St
Denman	Childcare Centre	Turner St	1751.5	Unknown	OK	Scours next to roadway	good	OK	Nil	needs painting	Road speed humps need painting
Denman	Denman Oval	Turner St			Nil	OK	Dots	nil	nil	Nil	
Denman	Golf Course	Turner St	820.6	Unknown	Nil	Good condition	good	nil	OK	needs painting	Road speed humps need painting
Denman	Roy Cawsey Park	SH27	1843.3	7mm agg spray seal	nil	Some distortion to pavement surface, couple of potholes	nil	nil	nil	Nil	Reseal?
Denman	Cemetery	Rosemount Rd	1147.3	Unknown	OK	Good condition	nil	OK	nil	nil	May need linemarking
	Paxton to Palace	Palact St			OK	New Carpark	good	nil	OK	Good	

PROJECT	PROJECT STAGE INVESTIGATION (I) DESIGN (D) CONSTRUCTION (C)	BUDGET FOR PROJECT	PLANNED START	PLANNED COMPLETION	PLANNED COMPLETION (EXTENDED)	ACTUAL START	ACTUAL COMPLETION	STATUS AS AT 30 JUNE 2021 - Final report for 2020-21 capital works programme
ROADS AND DRAINAGE								
Urban Road Renewal - Brook St (south) King to Carl St	F	$400,000	Aug-20	Dec-20		Aug-20	Dec-20	The project is complete.
Road Resealing Programme	C	$500,000	Aug-20	Dec-20		Aug-20	Jun-21	Resealing works have been completed in the urban sector. The programme for 2020-21 has been carried out.
Rural Road Regravelling	C	$348,291	Aug-20	Jun-21		Aug-20	Jul-21	Works have been undertaken on Wells Gully Road, Beggary Ck Road, Yarrawa Road, and Horseshoe Road.
Kerb and gutter replacement	F	$130,000	Aug-20	Dec-21		Aug-20	Nov-20	Program complete. Work completed in Mitchell St, Muswellbrook, to replace 130m K and G. Associated pavement rehabilitation works (Lorne Street to Francis Street). Works completed in Cabernet Street, Chablis Close, Casuarina Close, Lower William, Queen, McClintock Drive, Towarri Street, Cousins Street, Rutherford Road, and Carl Street.
Footpath and cycleway renewal programme	F	$150,000	Aug-20	Dec-21		Aug	Nov-20	Program complete. Works completed include Northerly Close, Brook Park, Bridge Street, Casuarina Close, Hunter Park, and King Street.
New footpath programme	C	$1,547,955	Apr-21	Jun-21		Jan-21		Works planned post construction of signalised intersection at Thompson Street. The section of footpath identified for construction links the existing path adjacent to Muswellbrook Golf Club, Bell Street, to the new traffic lights. Additional funding has been received from the Active Transport Program for footpaths to be constructed in nominated locations to access Muswellbrook High and Public School. Footpath construction has been undertaken in Cook Street, Newman Street, Roger Street, Semillon Street and King Street with works continuing in King St between William and Brook, Brecht and in Karoola Park. These works are currently in progress.
Safety devices programme	C	$135,000	Aug-20	Dec-20		Jul-20	Jun-21	Works carried out on targeted locations at Bylong Valley Way.
Mangoola Culvert Replacement	F	$500,000	Aug-20	Oct-20		Nov-20	Feb-21	The project has been completed.
TfNSW Repair Programme 1.6km Bylong Valley Way	F	$695,000	Mar-21	Jun-21		Nov-20	Dec-20	Project complete.
Sandy Creek Road Curve Improvements	C	$742,448	Oct-20	Jun-21		Oct-20	Jun-21	Safety improvement works carried out in compliance with the project specification. Council has been awarded an additional $322,928 by the NSW Government for the completion of the work,
Rosemount Rd Culvert	C	$425,000						The Rosemount Road culvert replacement project will be the subject of a discrete report to the 27 July Ordinary Council Meeting.
Denman Masterplan	F	$1,191,649	Jul-20	Jun-21		Jul-20	Feb-21	Project Complete.
Hunter Beach	I & D	$2,878,646	Jul-20	Mar-21	Mar-22			Council has endorsed a concept design for the project. No tenders were received in the first round of tendering. Separate engagement with Soil Conservation Services for embankment works and weed eradication has been carried out. Project to be separated into discrete projects that may be more attractive to a range of qualified and experienced tenderers. Tenders to be resubmitted. An extension of the funding deadline has been provided to 31 March 2022. It is intended that tenders will be reported to the 27 July 2021 Ordinary Council Meeting.
Rosebrook Bridge Replacement	D & C	$1,633,500						Investigations and design works underway. The project is fully grant funded.
Thompson St Signals	I & D	$1,473,409	Sep-20	Jun-21				Tenders received and negotiations with preferred tenderer complete. WAD received from TfNSW, with Principal Contractor, Project Verifier and Road Safety Auditor engaged. Stage 3 Road Safety Audit report received. The design was submitted to TfNSW by the Project Verifier and has been reviewed by TfNSW who have required changes to the pavement design. The drawings have been amended in accordance with TfNSW requirement. The project will commence upon granting of approval by TfNSW.
Wilkinson St Bridge	I & D	$1,104,205	Dec-20	Dec-21		Sep-20		Concept options for a design and construct Tender, endorsed at September Council meeting. Tender advertised 4 November 2020 and pre tender meeting on 24 November. Tenders received and reported to the 2 February 2021 Extra Ordinary Council Meeting. The hydraulic assessment has been undertaken to guide the final design.
Edderton Road Safety Upgrade	C	$2,564,535	Nov-20	Apr-22		Feb-21		KCE Pty Ltd are engaged to undertake the construction. Construction has commenced with clearing, culvert extensions, earthworks and subgrade preparation at the southern end of the limit of works undertaken. Subbase construction is being undertaken. Works are progressing well with the program submitted being a 14-month project, expected to be completed in April 2022.
Hebden Road 3.85 - 4.95km	F		Sep-20	Oct-20		Sep-20	Dec-20	Project complete.
Kayuga Road 3.3-5.3km rehab failures	C		Aug	Dec		Aug-20	Jan-21	Project complete.
Williams Bridge Replacement	F		Aug-20	Dec-20		Oct-20	Dec-20	Project Complete with bridge opened to traffic 17 December 2020. Works to remove the side-track have been undertaken.
Heavy Patching	C	$287,500	Jul-20	Jun-21		Jul-20	Jun-21	Works have been carried out at Hill St, Sowerby St and Brook St, Scott St, Hunter Terrace and William St.
Yarrawa Road Improvements	I & D	$5,000,000	Dec-20	Oct-21		Dec-20		Consultant has been engaged for the design works, which include a Road Safety Audit of the route. The survey, and geotech works have been undertaken to inform the design. Design works are continuing with the IFC drawings scheduled to be received by Council in June 2021. A concept design report was submitted to the 29 June 2021 Ordinary Council Meeting, and the concept design was endorsed by Council.
Rural Road Renewal	C	$553,397	Apr-21	Jun-21				Work has commenced on site at Widden Valley Road. This programme of work is fully grant funded.
WORKS, PROPERTY & BUILDING SERVICES (WP&BS)								
Denman Children Centre	D & C	$620,000	Jun-18	Mar-20		Jun-18		DA 99/2018 approved May 2019. Staff have engaged with Denman Children's Centre to progress the project. Denman Children's Centre has been provided with a draft Memorandum Of Understanding. Meeting held Tuesday, 9 March 2021. Council has received in principle agreement to the draft MOU and sent final copy for execution.
Denman Heritage Village	D & C	$250,000	Feb-19					Deed for Heritage items executed. Denman Heritage Museum Advisory Committee progressed the concept design with Council representatives to Development Application approval at the 22 December 2020 Ordinary Council meeting. The Committee is seeking grant funding to advance this project. In close consultation with the Committee a Business Plan has been prepared.
Denman Lookout Nature Trail - Reg Thornton Memorial Drive	C	$207,000	Jun-19	Aug-20	Feb-20	Jul-19		Trail complete, artwork for signs being finalised.
Muswellbrook Animal Shelter (3910.5587)	D & C	$2,500,000	May-19	Mar-20	Jun-21	Dec-19		DA approval provided at October Ordinary Council meeting. A design and construction tender was called and closed Thursday, 4 February and was reported to the 23 February 2021 Ordinary Council meeting. Letter of Award issued to contractor. Site established and stakeholder meeting held 27 April. Design has been amended and is being reviewed.

PROJECT	PROJECT STAGE INVESTIGATION (I) DESIGN (D) CONSTRUCTION (C)	BUDGET FOR PROJECT	PLANNED START	PLANNED COMPLETION	PLANNED COMPLETION (EXTENDED)	ACTUAL START	ACTUAL COMPLETION	STATUS AS AT 30 JUNE 2021 - Final report for 2020-21 capital works programme
Muswellbrook Aquatic Centre (3700.5442)	**C**	**$6,825,524**	Nov-18	Oct-19	Mar-21	Nov-18		Early works including site investigation, demolition, geotechnical and preliminary construction works are complete. Construction certificates are in place for all stages. Water play concepts ordered. Plumbing commenced for Indoor Pool and Balance Tanks line. Entrance footings and piles complete. LTS and water play slabs poured. Installed slab services to the balance tanks and detailed excavation for the entry kiosk, and stripped formwork for the pools. Structural steel installation near completion.
Muswellbrook Aquatic Centre - Outdoor Pool	**D & C**	**$1,500,000**	Aug-20	Dec-20	Jan-21		Jan-21	Outdoor pool works walls, guttering and return pipe work complete. Concreting of the floor and waterproofing are complete. Shade structure and light poles are installed. Completion of tiling hindered by wet weather but work continued over Christmas period. All works complete with adjustments to operation of plant to accommodate changes in volume of water. Pool has been prepared.
Muswellbrook & Denman Indoor Sports Centre - Insulation & Amenities	**D&C**	**$299,250**						Works will commence in 2021-22 and following execution of grant funding agreements.
Regional Entertainment and Conference Centre (3690.5433)	**D**	**$15,000,000 (Est)**	Dec-18	Dec-22		Dec-18		Options on the treatment of the Possum Gully stormwater culvert are being investigated and a second concept is prepared for an improved path for drainage. Architect has reviewed overall design to be within funding envelopes and has lodged Development Application. Cost estimate for precinct works informed Precinct Capital Expenditure Review reported to the 2 February 2021. An EOI was called for contractors prepared for construction to facilitate selective tender and early contractor engagement. Tenders called Monday, 17 May and close Friday, 2 July.
Upper Hunter innovation Precinct Stage 2 (3690.6438) (Includes Innovation Hub and Weidmann Café)	**D & C**	**$6,500,000**	Jul-19	Sep-20	Jun-21	Jul-19		Construction tender called Monday, 26 October. Tender was called to be reported to November Council meeting. Request to extend tender approved. Tender closed 14 December. Addendum provided to ensure that Loxton House works is staged and is completed by 1 July 2021. Tender reported and considered at 22 December 2020 Ordinary Council meeting. Further tender responses and options prepared and reported to February Extraordinary Council meeting. Negotiations complete and construction tender awarded. Site establishment has commenced. Demolition works are complete.
Commercial Building	**D**	**$95,000**	Oct-19	Feb-20	Dec-20	Jul-19	Dec-20	Pre-DA meeting held. Heritage consultant report received. All DA documentation completed and ready to be lodged in December, subject to approval of budget in relation to the QS estimate received. Design project complete.
Victoria Park and Cemetery Improvements	**C**	**$517,613**	Dec-18	Feb-19		Jan-19	Jan-21	Field 1 outfield is complete with minor works on cricket wicket carried out. The field is being used for winter sport.
Arts Centre Conservatory	**D & C**	**$100,000**	Nov-18	Feb-20	Mar-21	Nov-18		Architect has consulted with heritage advisor to inform design development and draft concepts received. Design being progressed relies on glazing existing structure. Advice will be sought on a planning pathway following some further changes including recommendations on painting. Meeting held with architect on site Wednesday, 31 March. Further design work underway and heritage architect engaged for recommended palette.
Relocation of Council Administration Centre	**D & C**	**$1,200,000**	Mar-19	Dec-19	Oct-20	Mar-19	Oct-20	All areas are now occupied.
Community Infrastructure Depot	**D & C**	**$220,000**	May-19	Jun-21	Dec-21	Jul-19		Two submissions received for the RFQ for Principal Design Consultant and both were above allocated budget. RFQ brief was revised and reported to the December 2020 Ordinary Council meeting. Preliminary design workshop held with Works staff. Architect awarded design construction. Development Application expected in August.
Muswellbrook Indoor Sport and Youth Centre	**D**	**$30,000**	Oct-19	Dec-20		Oct-19		Upper Hunter Youth Services was awarded Stronger Country Community grant funding of $500k. Stakeholder consultation and preliminary design progressing to development application. Surveying and final documentation being prepared. DA being prepared for lodgement.
WP&BS - Olympic Park Master Plan								
Olympic Park - Grandstand & Amenities	**D**	**$900,000**	Mar-20					Design consultant engaged. Three concept designs have been developed and user groups consultation has taken place. Changes to design currently being discussed. QS has been received. Architect has amended design for stakeholder consultation. This included relocation of timekeeper and internal stairs.
Olympic Park - Intelligent Lighting	**D**	**$124,313**	Mar-20	Dec-20				Specification placed on Vendor Panel (no submissions) and subsequent RFQ received were over $150k. Tenders called and received and being assessed.
WP&BS - General Recreation Programme 2020-2021								
Highbrook Park Grandstand	**D&C**	**$30,000**					Jun-21	Works have been completed.
Volunteer Park - New Playground	**D&C**	**$40,000**					May-21	Project complete. New playground installed.
Topdressing of Sports Fields	**C**	**$45,000**	Nov-20	Dec-20		Dec-20	Dec-20	Project complete.
Indoor Sports Centre - Outdoor Table Tennis Table	**D&C**	**$15,000**					Jun-21	Table tennis has been installed at Highbrook Park.
Weeraman Fields - Field Lighting	**D&C**	**$20,000**					Jun-21	Installation work has been completed.
WASTE								
Leachate Dam	**D&C**	**$500,000**						Design and Construction Cost Estimates complete ($500,000). Biodiversity Assessment RFQ issued and required prior to Development Application.
WATER								
Asbestos Removal Old WTP	**C**	**$372,664**	Jul-20	Dec-20		Jul-20	Dec-20	Works completed.
Mains Renewal & Replacement	**D/C**	**$697,955**	Jul-20	Jun-21		Jul-20		Works are currently in progress at Sowerby Street and Hill Street.
Reticulation - Rail Underbring Rail Crossing Water Mains	**C**	**$225,325**	Jul-20	Dec-20			Dec-20	Works completed.
System Plant Asset Renewals	**I**	**$201,474**	Jul-20	Jun-21		Jul-20	Jun-21	MWTP No 1 High Lift Pump - ordered and old pump removed. Clarifier Hood - measurement work has commenced, may need laser scanning to confirm fit into concrete structure. Order placed for Citect transfer and upgrade. Recarb Panel installation complete.
Muswellbrook Fluoride Plant Upgrade	**D**	**N/A**	Jul-20	TBC				DPIE has responded with a design change to improve operability and reliability. Scope changed and being reviewed. Cost estimate to be reviewed and agreement sought from Dept Health. A report will be provided to Council once complete. The cost of carrying out the Fluoride Plant Upgrade will be fully reimbursed to Council by NSW Health.
SEWER								
Mains Renewal & Relocation	**D**	**$471,316**	Jul-20	Jun-21		Jul-20	Jun-21	Manhole replacement carried out at the intersection of Maitland Street and Rutherford Road and at other sites in the Muswellbrook urban area. During 2020-21, work focused on repair and renewal of access points.

PROJECT	PROJECT STAGE INVESTIGATION (I) DESIGN (D) CONSTRUCTION (C)	BUDGET FOR PROJECT	PLANNED START	PLANNED COMPLETION	PLANNED COMPLETION (EXTENDED)	ACTUAL START	ACTUAL COMPLETION	STATUS AS AT 30 JUNE 2021 - Final report for 2020-21 capital works programme
Transportation System Improvement	I	**$1,600,000**	Jul-20	Jun-21				SPS1 Replacement - Geotech & solid classification has been performed to allow planning for excavated material management and improve tendering accuracy based on actual ground conditions. Investigation works also include potential for existing infrastructure to be reused/repurposed.
Sewer Pump Station - Denman	I	**$107,625**	Jan-21	Jun-21				Investigation Phase - Pump sizing to be reviewed, may be able to utilise SPS1 Pumps when removed/ replaced. SCADA Improvements being scoped.
System Plant Asset Renewals	I	**$275,090**	Jul-20	Jun-21		Jul-20	Jul-21	Denman No2 Aerator. Denman Electrical Panel Upgrade. SPS5 Pump has been replaced. Electrical Panels SPS7; RWTW Minor Improvements and optimisation; SPS13 Pump replacement completed 3/12; Denman SPS Electrical Panel Upgrade.

LEVEL OF SERVICE PERFORMANCE INDICATORS - WATER SERVICES
Period: 1 April - 30 June 2021

Indicator	Description	Report Period	Year to Date	Performance Target
Availability of Supply	Reported Events Outside Standard			
Muswellbrook & Denman	Minimum Pressure kPa (when conveying 0.15 L/s/tenement)			200 kPa
	Maximum Static Pressure			850 kPa
Water Restrictions (2014 Drought Management Plan)				
Muswellbrook	Level 1 - Mandatory from 1 April 2021	1	1	Restrictions result in no more than 20% reduction in consumption, are not required for more than 10% of the time and that the average frequency of restrictions is less than 5 in every 100 years (the level of service)
Denman		1	1	
Sandy Hollow	Level 1 - Mandatory from 1 April 2021	1	1	
Peak Daily Demand (litres/assessment including commercial)				(= peak day consumption/no assessments/s)
Muswellbrook		1428.84		3000 litres/assessment
Denman		1517.34		3000 litres/assessment
Sandy Hollow		2500.00		3000 litres/assessment
Planned Interruptions to Supply	Number of Interruptions	3.0	7.0	< 1/1000 customers/year
(5 days notice to domestic, commercial	Average time to repair	3.0	4.0	Hours
& industrial customers)	Average length of Interruptions	Not Available	Not Available	< 2 hours
	Maximum length of repair	4.5	8.5	< 4 hours
Average length of interruption is not supplied as current systems do not allow accurate recording -				
Unplanned Interruptions to Supply	Number of Interruptions	8	19.0	Mbk - 50, Denman - 10, SH - 2 per year
(due to main replacement - excluding service lines)	Average time to repair	5.0	4.0	Hours
	Average length of Interruptions	Not Available	Not Available	< 4 hours
	Number of Residences affected	148	258.0	1/connection/year
Water Quality - Reticulation		*Averages*		**As per ADWG Guidelines 2011**
Muswellbrook	Turbidity	0.25	0.25	5 NTU
	pH	7.75	7.78	6.5 - 8.5
	Total Hardness	141.00	113.66	<200 mg/L
	E-Coli	100%	100%	100% Compliance
	Free Available Chlorine	1.84	1.67	0.2 - 5.0mg/l
Denman	Turbidity	0.10	0.16	5 NTU
	pH	8.23	8.15	6.5 - 8.5
	Total Hardness	300.60	219.50	<200 mg/L
	E-Coli	100%	100%	100% Compliance
	Free Available Chlorine	0.96	0.96	0.2 - 5.0mg/l
Sandy Hollow	Turbidity	0.21	0.34	5 NTU
	pH	7.89	7.92	6.5 - 8.5
	Total Hardness	513.10	440.98	<200 mg/L
	E-Coli	100%	100%	100% Compliance
	Free Available Chlorine	1.75	1.55	0.2 - 5.0mg/l
Service Requests				Leaks 80/year
Muswellbrook	Main Break	19	57	
	Fitting Repair	11	63	
	Service Repair	39	120	
	Service Replacement	3	7	
	Meter replacement	55	274	
Denman	Main Break	0	7	
	Fitting Repair	2	16	
	Service Repair	8	22	
	Service Replacement	1	4	
Meter replacements do not include those replaced during the bill read process	Meter replacement	6	38	
Sandy Hollow	Main Break	2	2	
	Fitting Repair	1	2	
	Service Repair	2	3	
	Service Replacement	0	0	
Meter replacements do not include those replaced during the bill read process	Meter replacement	0	3	
Total Service Requests		**149**	**618**	
Supply Failure Response Times (unplanned)				
Muswellbrook, Denman & Sandy Hollow	Number where response time <1 hour	0%	0%	>95%
(expressed as percentage)	Number where completion time >4 hours	0%	0%	>95%
General Complaints - GC (Management)				
Water Quality (Dirty water, taste & odour)				
Muswellbrook		21	112	< 1/1000 customers per year
Denman		3	3	
Sandy Hollow		0	1	
Pressure (not related to a main break)				
Muswellbrook		11	24	<10
Denman		0	1	<2
Sandy Hollow		0	0	<2
Other		103	460	Includes: Fire Flow and Pressure Tests Rehabilitation Works Special Meter reads
Service Provided				
Time to provide an individual connection to water	New Services	1	2	Number
supply in serviced area (90% of time)		100%	100%	Percentage installed within 5 Working Days

- This Report has been prepared using information available at the time of collation and may not include a complete data set for the report period.
- Performance Targets are those identified in the current 2005/2006 Strategic Business Plan.
- Report Period and Year to Date in some cases will be the same due to the commencement of new report year

LEVEL OF SERVICE PERFORMANCE INDICATORS - WASTEWATER SERVICES

Period: 1 April - 31 June 2021

Indicator	Description	Report Period	Year to Date	Performance Target
Availability of Service				
Muswellbrook	Average Dry Weather Flow (ADWF)	2.38	2.52	3.6 Ml per day
	Peak Wet Weather Flow (PWWF)	3.48	11.55	18.7 Ml per day
	Rainfall	107.5	903.0	mm
Denman	Average Dry Weather Flow (ADWF)	0.31	0.37	0.3 Ml per day
	Rainfall	33.00	781.50	mm
System Failures (causing overflow)				
Category 1	*Failures due to rainfall and deficient design capacity*			
Muswellbrook		1	10	2 per year
Denman		0	0	1 per year
Category 2	*Failures due to pump or other breakdown*			
Muswellbrook		0	0	1 per year
Denman		0	0	1 per year
Category 3	*Failures due to blockages*			Muswellbrook - 100/year
Muswellbrook	Roots Blocking Sewer	1	6	
	Foreign Objects in Sewer	1	5	
	Broken/Blocked Sewer Pipe	0	7	
	Blocked Junction	0	3	
	Blocked Boundary	4	18	
	TOTAL	**6**	**39**	
Denman	Roots Blocking Sewer	2	3	Denman - 20/year
	Foreign Objects in Sewer	0	0	
	Broken/Blocked Sewer Pipe	0	0	
	Blocked Junction	0	0	
	Blocked Boundary	0	0	
	TOTAL	**2**	**3**	
Response Times (unplanned - to system failures)				
Muswellbrook & Denman	Occasions where response time < 1hr (%)	0.0%	0.0%	> 95%
	Occasions where completion time < 4 hrs (%)	0.0%	0.0%	> 95%
General Complaints (Non Urgent)				
Muswellbrook	Odour complaints(Sewer Treatment Works) for period	0	0	1 per year
	Odour complaints (other) for period	0	1	1 per year
Denman	Odour complaints(Sewer Treatment Works) for period	0	0	1 per year
	Odour complaints (other) for period	0	0	1 per year
Effluent Quality		*Report Period*		
		Min	**Max**	
Muswellbrook Wastewater	BOD	<2	<2	<20 mg/l
HVEC & Golf Course	SS	<2	<2	<30 mg/l
Denman Wastewater	BOD	8	12	20 mg/l
EPA point 3	SS	23	52	30 mg/l
Muswellbrook Effluent Reuse (HVEC)	E-Coli	<10	<10	< 150/100mls (Contract)
Muswellbrook Effluent Reuse (Golf Course)	E-Coli	<10	<10	< 150/100mls
Denman Effluent Reuse (Golf Course)	E-Coli (Reuse Reservoir Outlet)	<10	<10	

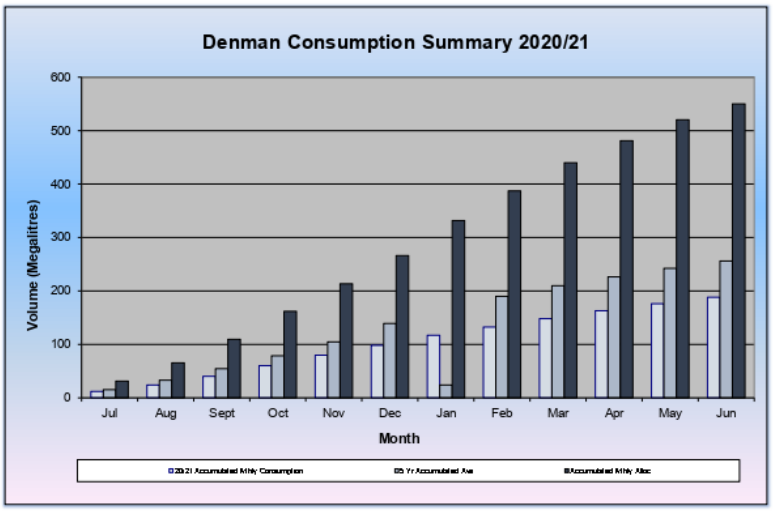
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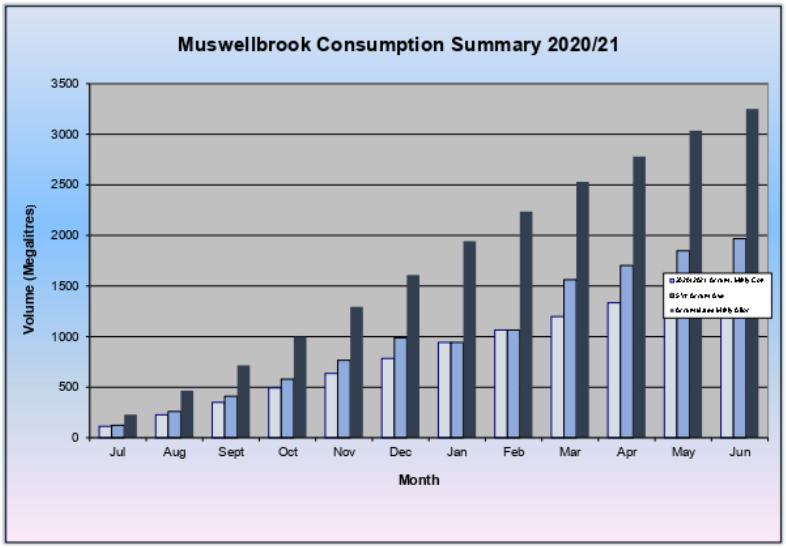
POTABLE WATER AND WASTEWATER STATISTICS

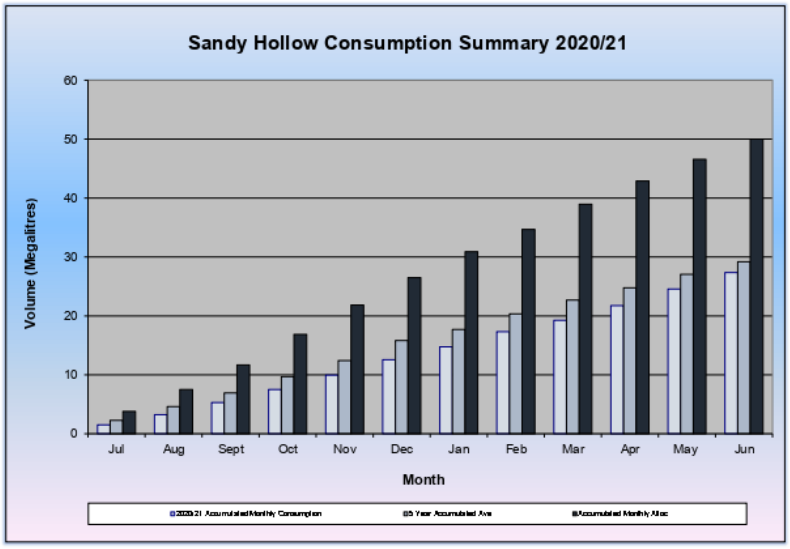
Period: 1 April - 30 June 2021

WATER (It should be noted that water consumption data is treated water provided to the distribution system and does not include water losses from extraction and treatment processes. Extraction data is a licence requirement)	Report Period	5 Year Period Average	5 Year Peak for Period	5 Year Min. for Period	Description
Muswellbrook					
Consumption for Period	396.81	405.27			ML
Annual Consumption to Period End	1595.26	1967.34			ML
Maximum Daily Consumption	7.04		8.85		ML
Minimum Daily Consumption	0.07			0.07	ML
Average Daily Consumption	4.36	4.45			ML
Rainfall for Period	106.00	79.70			mm
Yearly Rainfall to Period End	870.50	566.66			mm
Denman					
Consumption for Period	40.13	46.08			ML
Annual Consumption to Period End	188.40	256.06			ML
Maximum Daily Consumption	0.71		1.78		ML
Minimum Daily Consumption	0.27			0.03	ML
Average Daily Consumption	0.44	0.54			ML
Sandy Hollow					
Consumption for Period	8.12	8.12			ML
Annual Consumption to Period End	27.37	27.37			ML
Maximum Daily Consumption	0.16		0.25		ML
Minimum Daily Consumption	0.029			0.001	ML
Average Daily Consumption	0.09	0.07			ML
Muswellbrook					
Raw Sewage (ML)	216.63	349.18	7.00	1.12	Inflows to Wastewater Treatment Plant (ML)
Potable Water to Sewer (%)	54.59	86.16			Potable water consumption to WWTP (%)
Denman					
Raw Sewage (ML)	28.70	46.56	1.06	0.15	Inflows to Wastewater Treatment Plant
Potable Water to Sewer (%)	71.51	101.05			Potable water consumption to WWTP (%)
TREATED EFFLUENT					
Muswellbrook					
Quantity Reused (ML)	206.21	209.51			ML
Percent Effluent Reused	95.19	60.00			Total WWTP inflow for period reused (%)
Effluent discharged to the environment	0.00				ML
Denman					
Quantity Reused (ML)	7.84	26.11			ML
Percent of Effluent Reused	27.33	56.08			Total WWTP inflow for period reused (%)
Effluent discharged to the environment	0.00				ML

Please Note: the percent of effluent reused at the 5 year average for Denman has been amended to a 3 year average. Prior to the 3 year time frame usage was based on supply from the maturation pond and not the re-use reservoir which is more appropriate. The 5 year average raw sewage inflow has also been amended to 3 years for comparison accuracy.


Denman Consumption Summary 2020/21
Volume (Megalitres)
600
500
400
300
200
100
0
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Month


Muswellbrook Consumption Summary 2020/21
Volume (Megalitres)
3500
3000
2500
2000
1500
1000
500
0
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Month


Sandy Hollow Consumption Summary 2020/21
Volume (Megalitres)
60
50
40
30
20
10
0
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Month

Proposed Office layout
Shop 11/ 60 Bridge St, Muswellbrook NSW 2333
Approx. shop area 59.8 m^2

INDEX

1. COVER PAGE & SITE PLAN

2. 3D PERSPECTIVES

3. FRONT ELEVATION

4. EXISITING FLOOR & PROPOSED FLOOR LAYOUT

5. 3D FLOOR LAYOUT

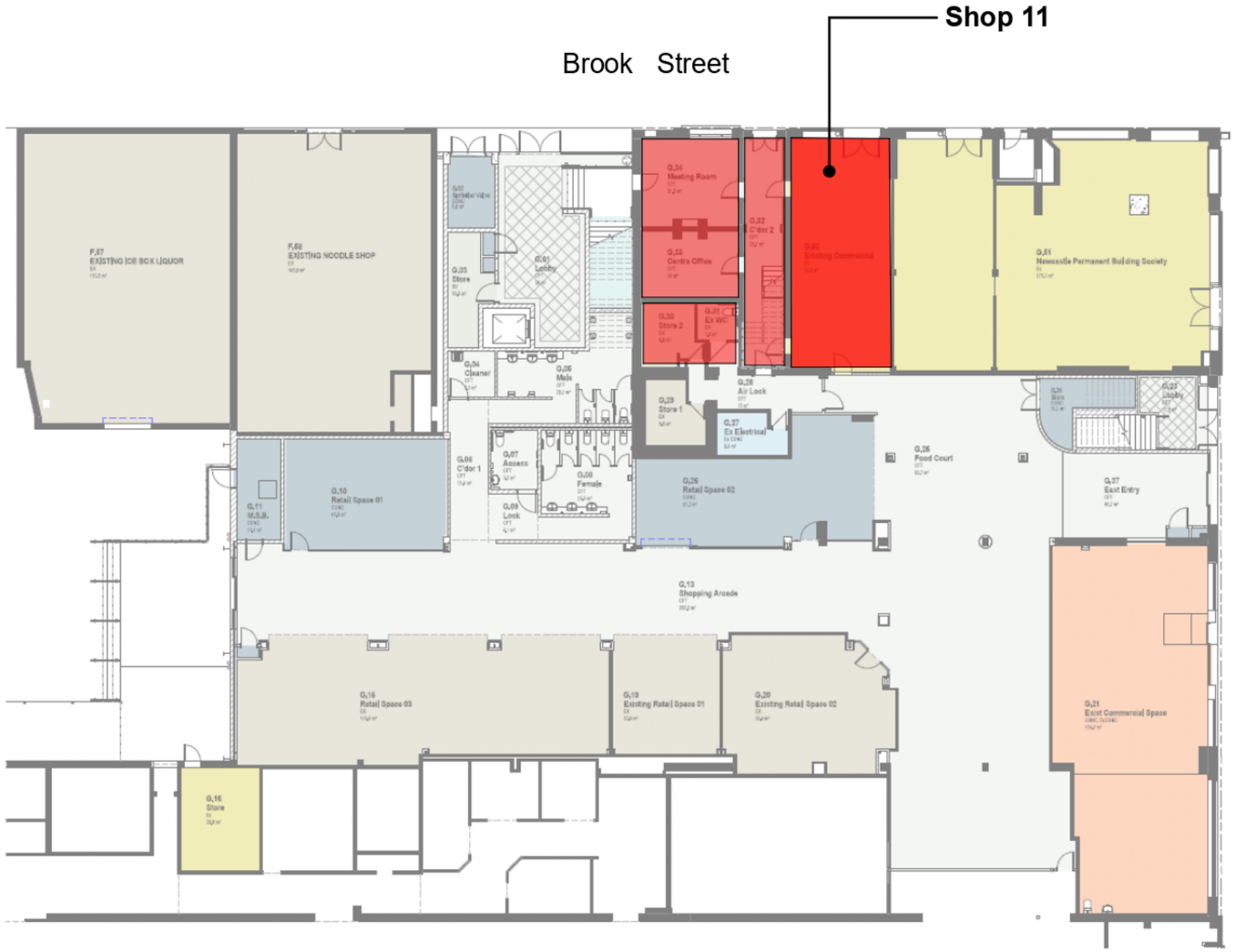
6. RCP & ELECTRICAL PLAN

7. HYDRAULIC & FLOOR FINISH

8. ALL ELEVATIONS

9 - 10. DETAILS

11. MATERIAL FINISHES



SITE PLAN
NTS

Address: G5 /101 Clapham St,
Sefton NSW 2162
E. ahecogroup@gmail.com
M. 0433613566

BDAA ACCREDITATION NO. **6297**

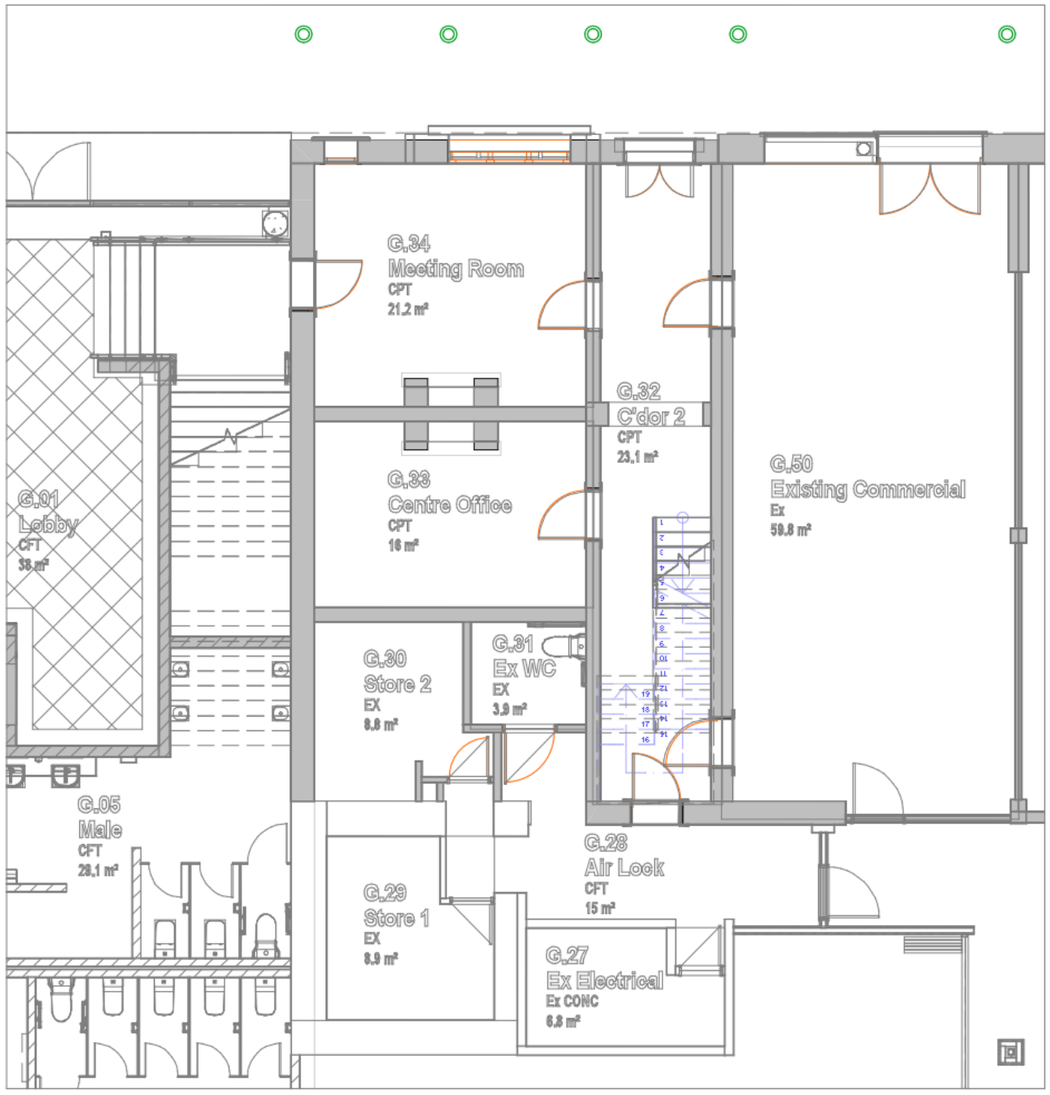


SHOP FRONT (A) VIEW
SCALE 1:50

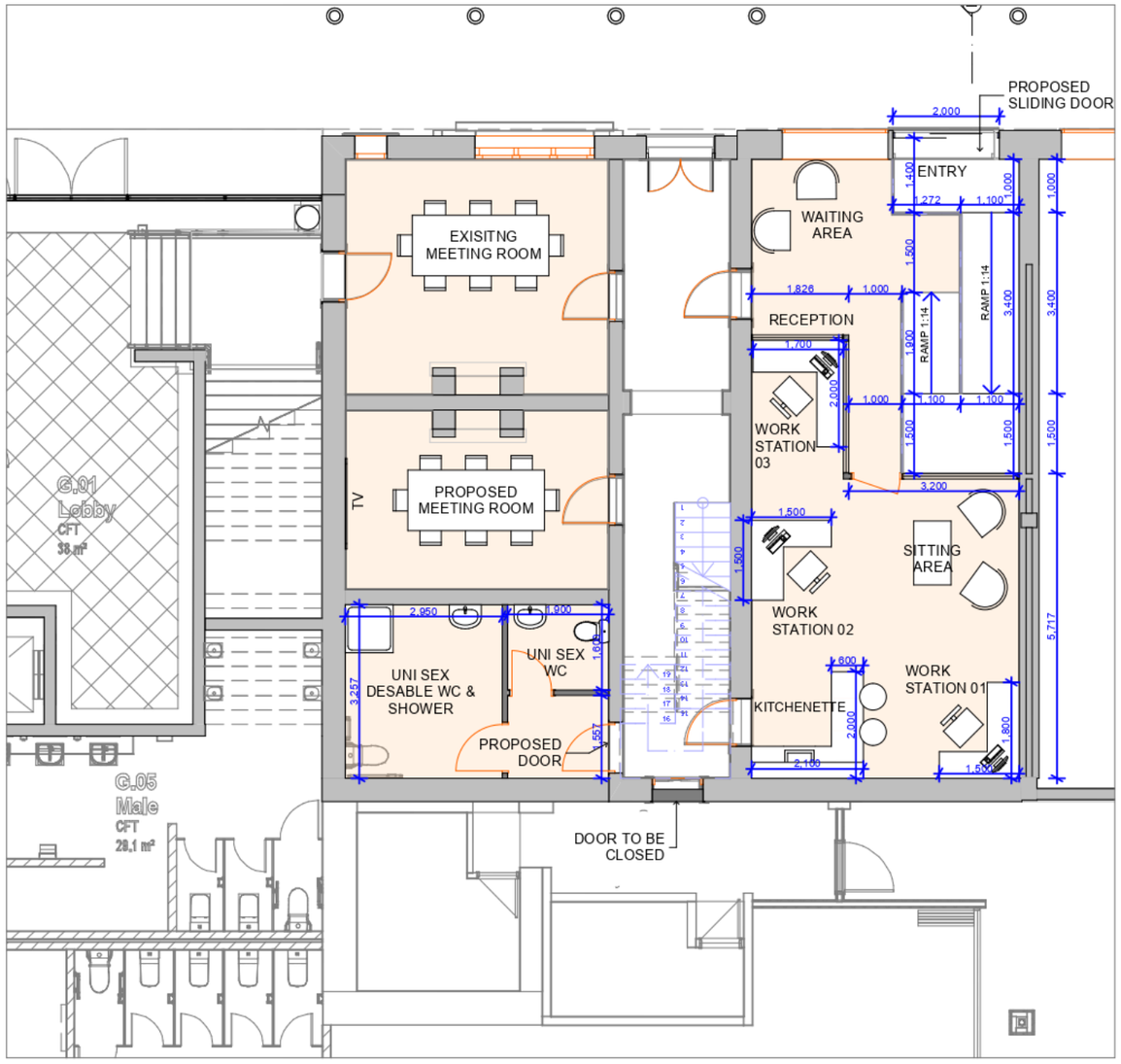
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Address: G5 /101 Clapham St,
Sefton NSW 2162
E. ahecogroup@gmail.com
M. 0433613566

ISSUE	REVISION	DATE
A	Preliminary Submission	10/11/2020

PROJECT: Shop 6a Brook St, Muswellbrook Marketplace NSW 2333
CLIENT: Muswellbrook Council
PROJECT No.: 050/20
DRAWING No: 3 OF 11
DATE: 10/11/2020
SCALE: AS SHOWN @A3
DRAWN: HM
CHECKED: AA



EXISTING FLOOR LAYOUT
1:100



PROPOSED FLOOR LAYOUT
1:100

NOTE:

ALL LEVELS AND DIMENSIONS MUST BE VERIFIED BE THE FITOUT CONTRACTORS PRIOR TO COMMENCEMENT OF ANY WORK AND ANY DISCREPANCY MUST BE NOTIFIED TO THE DESIGNER. AND ANY ASSOCIATED WORK MUST BE STOPPED UNTIL VERIFICATION RECIEVED FROM THE DESIGNER.
THE DESIGNER IS NOT RESPONSIBLE FOR ANY RELATED WORK THAT IS CARRIED OUT WHILE THERE ARE DISCREPENCIES ON PLANS.

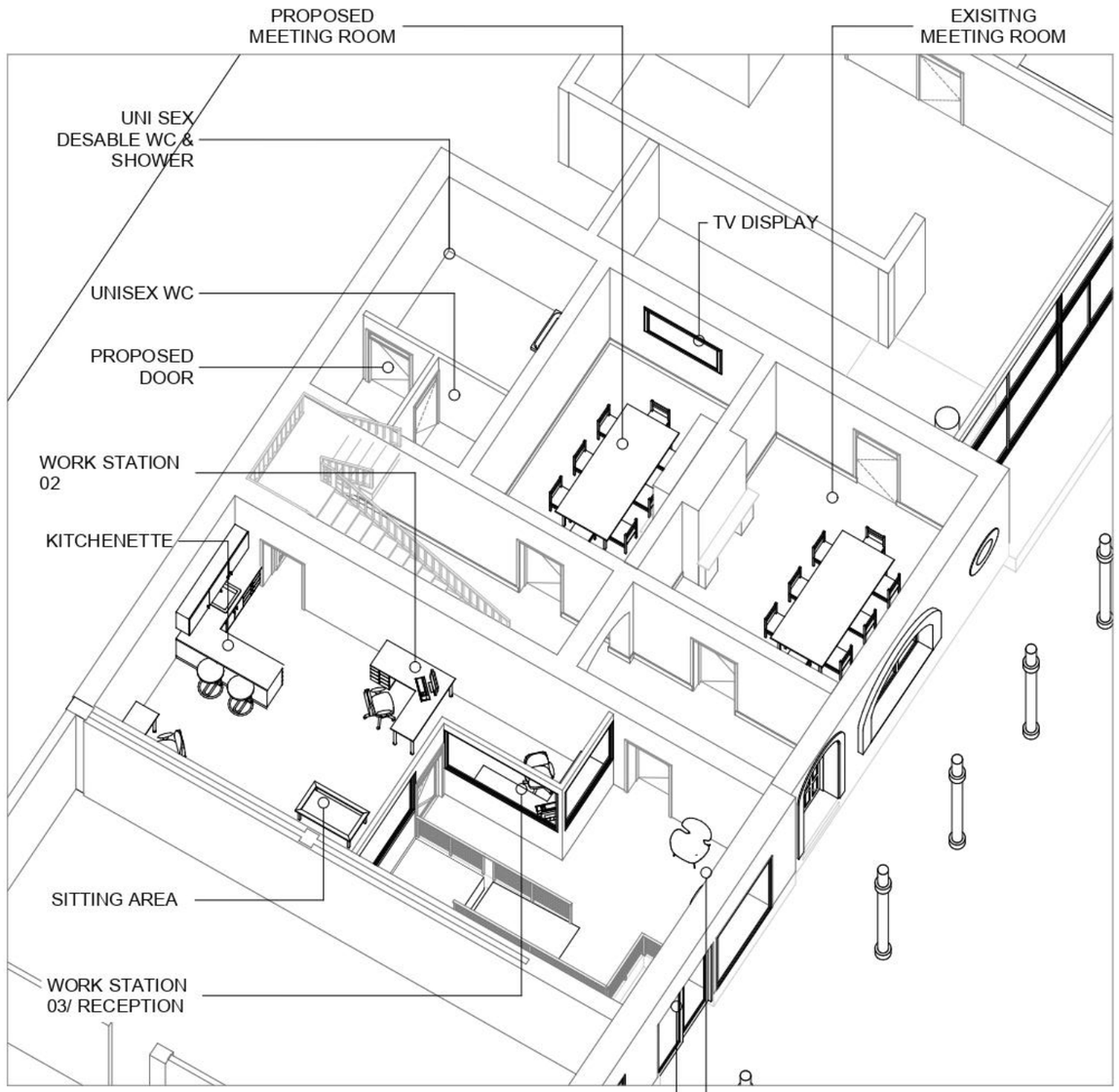
DRAWINGS TO BE READ IN CONJUCTION WITH SPECIFICATIONS, ENGINEERING DESIGN AND RELEVANT CONSULTANTS DRAWINGS.

AIR-CONDITIONING, SPRINKLERS, OUTLETS LOCATIONS LAYOUT ARE INDICATIVE ONLY, AND ARE SUBJECT TO ENGINEERS DESIGN AND CALCULATIONS TO COMPLY TO AUSTRALIAN STANDARD

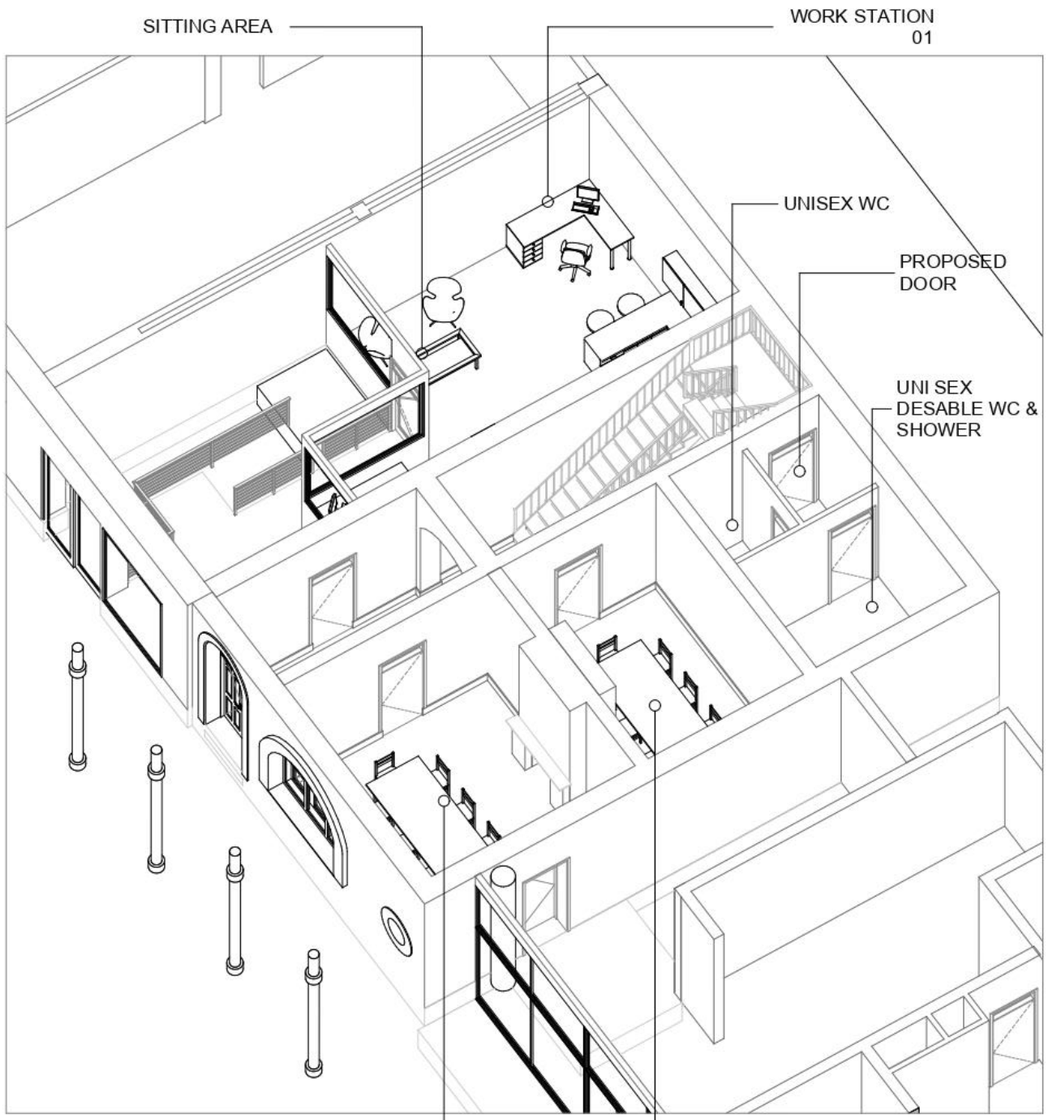
A&H eco GROUP PTY LTD
BDAA ACCREDITATION NO. 6297
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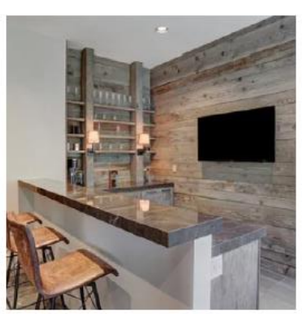
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CLIENT: Muswellbrook Council
PROJECT No.: 050/20
DRAWING No: 4 OF 11
DATE: 10/11/2020
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CHECKED: AA



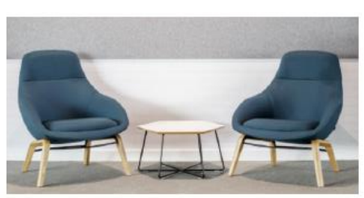
3D PERSPECTIVE LAYOUT N.T.S



3D PERSPECTIVE LAYOUT N.T.S



SAMPLE KITCHENETTE



SAMPLE SITTING AREA



SAMPLE WORKSTATION

BDAA ACCREDITATION NO. 6297
Address: G5 /101 Clapham St,
Sefton NSW 2162
E. ahecogroup@gmail.com
M. 0433613566

ISSUE	REVISION	DATE
A	Preliminary Submission	10/11/2020

PROJECT: Shop 6a Brook St, Muswellbrook Marketplace NSW 2333

CLIENT: Muswellbrook Council

PROJECT No.: 050/20

DRAWING No: 5 OF 11

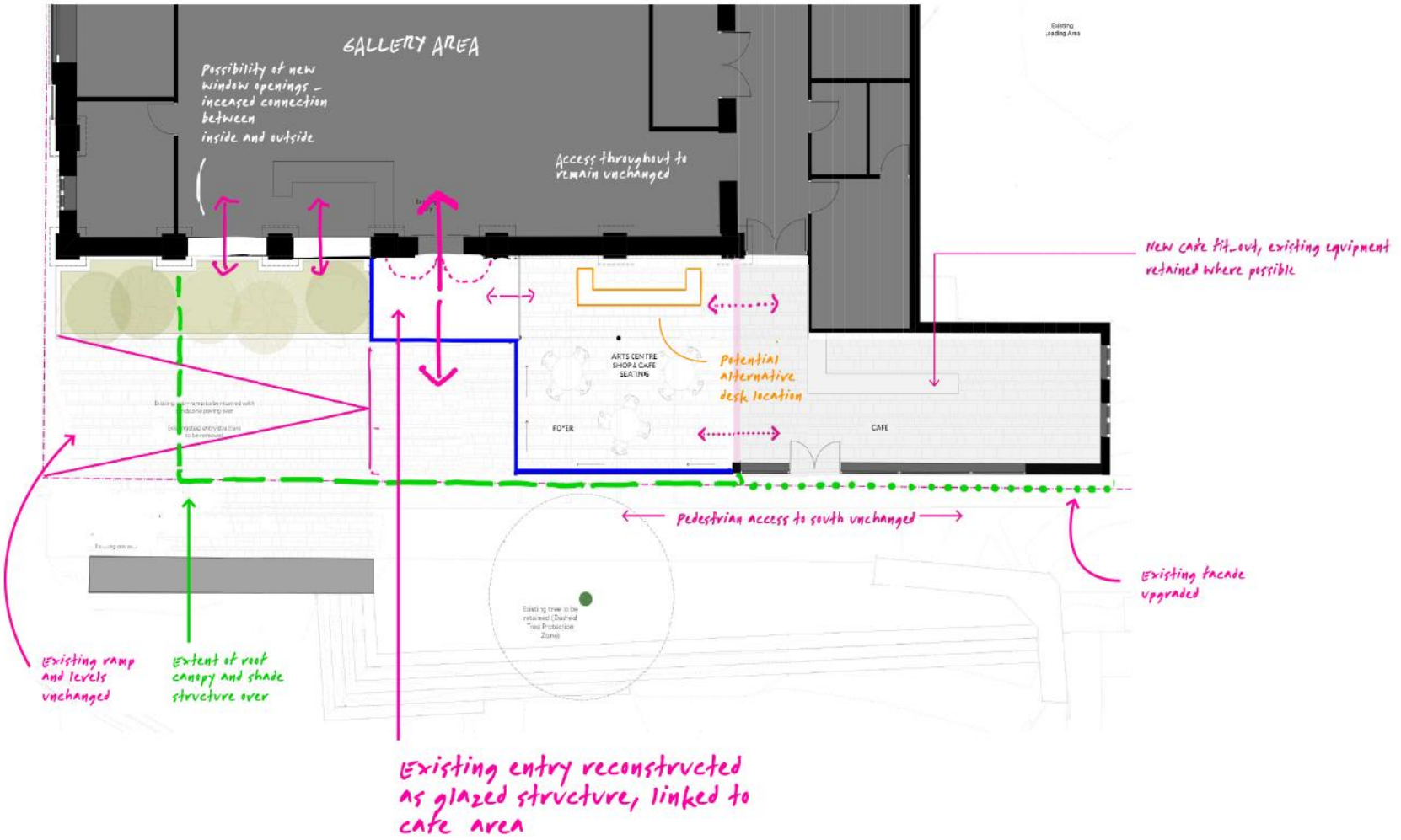
DATE: 10/11/2020

SCALE: AS SHOWN @A3

DRAWN: HM

CHECKED: AA

OPTION 12 _ PLAN CONCEPT



For best viewing click here to open this email in your browser





Ten councils working together is a significant feat, and being able to actually deliver for the communities of the Hunter region through this collaboration has been incredibly rewarding.

A message from the Hunter JO CEO – Joe James

Today's regional forum with the Hunter JO and the Cities Power Partnership is a



fantastic example of how the collaboration of our councils can lead to outcomes that positively impact the entire region.

With more forums and workshops lined up over the coming months, I am looking forward to seeing the collaborative power of our member councils, partners, and stakeholders put into action to deliver outcomes beneficial for the entire Hunter region.

We have had a very exciting month full of engagement across the region with our member councils.

Hunter JO News this month



01. Cities Power Partnership Hunter Region Forum
In June the Hunter JO became the first region in Australia to join the Cities Power Partnership, with all ten councils now members of the partnership... read more



02. Community Education Workshops
The Hunter JO is currently working with the region's councils and the Good for the Hood enterprise to run a number of community workshops... read more



03. Contaminated Land Workshop
On the 3rd of June, the Hunter Joint Organisation held a workshop on how to interpret, interrogate and understand Preliminary Site Investigation reports and... read more



04. New Staff Member - Eloise Lobsey
Eloise Lobsey joins the Waste and Resource Recovery Team at the HJO as our environmental education officer. She will be working closely with Siobhan and Tim to a range of... read more

05. Hunter Program Activity Report - June 2021
The Hunter JO has developed a bi-monthly activity report which provides information on the status of delivery of all actions. Click here to access the activity report... read more

Cities Power Partnership Hunter Region Forum



In June the Hunter JO became the first region in Australia to join the Cities Power Partnership, with all ten councils now members of the Partnership and the Hunter JO set to become the first Joint Organisation to become an official member.

In line with this exciting new partnership, the Hunter JO held a Regional Forum for staff from our member councils today, 24th June.

This forum focused on looking at the pledges of each member council, and identifying regional priorities across the region and its member councils. The aim of this is not to say that all councils have to share the same priorities for their CPP pledges and actions, but to identify where they overlap. As such, these collaboration areas can be identified and supported moving forward. The regional priorities identified by Councils include:

1. Regional Electric Vehicle Charging Strategy and provision of fast-charging infrastructure throughout key locations.
2. Ensuring Council fleet purchases meet strict greenhouse gas emissions requirements and support the uptake of electric vehicles.
3. Supporting and encouraging Community based Renewable Energy.
4. Supporting and encouraging Council based Renewable Energy.
5. Supporting and facilitating amendments to planning laws and controls to encourage community and industry to adopt renewable energy.
6. Facilitating advocacy and coordinating business cases that address tensions and reluctance around initiatives.

Presentations from this event will be published on our website, so keep an eye out for these! If you're interested in future events by the Hunter JO, then check out our events page for anything upcoming.

To read more about this partnership visit our website. You can also check out the Cities Power Partnership website for more information about what they are doing!

Community Education Workshops



The Hunter JO is currently working with the region's councils and the Good for the Hood enterprise to run a number of community environmental education workshops throughout the region.

These workshops will focus on empowering ordinary people to create change 'for good' in their neighbourhoods, including improving waste behaviours. Dates and further details on these workshops will be provided on the Hunter JO website, so keep an eye on our 'Events' page to register!

Since 2018, Good for the Hood has been empowering ordinary people to create change across neighbourhoods, community groups and workplaces. By connecting with hundreds of councils, NFPs, community organisations and corporates across the country, they know how to build the link between passion and sustainable change, ensuring that efforts have maximum impact on our planet.

This workshop is running as part of the Small Acts Big Change program. To read more about this program and keep up to date with other projects, visit the Small Acts Big Change website HERE.

Facebook Website LinkedIn

Our mailing address is:

59 Bonville Avenue | PO Box 3137
Thornton NSW 2322
P (02) 4978 4040 | **F** (02) 4966 0588

hunterjo.com.au

COLLABORATION OF HUNTER COUNCILS

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muswellbrook shire council

Enquiries
Please ask for Fiona Plesman
Direct (02) 6549 3710

3 September 2020

Joe James
CEO
Hunter Joint Organisation
PO Box 3137
THORNTON NSW 2322

Dear Joe,

RE: COUNCIL MEMBERSHIP OF THE HUNTER JOINT ORGANISATION

Please be advised that Council unanimously resolved to withdraw from membership of the Hunter Joint Organisation (HJO) at its Ordinary Council Meeting held 25 August 2020 for the reasons contained in the Mayor's correspondence of 15 August 2020. Accordingly, please receive this correspondence as the Notice required by clause 3.4(1) of the HJO Charter.

We would be pleased if the HJO did not represent or hold out – including by any omission – that Council is a participating member of it or that the HJO represents Council unless Council has expressly provided authority for it to do so.

Council's involvement with Strategic Services Australia Limited and its related entities – including prospective entities – remains unaffected and we look forward to working closely with it and the HJO to progress the interests of our sector in the Region.

Please let me know if you require anything further from Council.

Yours faithfully

Fiona Plesman
GENERAL MANAGER

Muswellbrook Shire Council ABN 86 864 180 944
Address all communications to The General Manager Mail PO Box 122 Muswellbrook NSW 2333 Phone 02 6549 3700
Email council@muswellbrook.nsw.gov.au Web www.muswellbrook.nsw.gov.au

muswellbrook shire council

Enquiries
Please ask for Aleksandar Mitreski
Direct 02 6549 3720
Our reference
Your reference

7 December 2020

Joe James
Hunter Joint Organisation of Councils

Via email: ceo@hunterjo.com.au

Dear Joe,

Hunter JO Membership – Muswellbrook Withdrawal

We refer to the above and to the report on the same subject matter included in the Business Papers for the 10 December 2020 Ordinary Meeting.

A number of matters in the report need to be clarified. Adopting the headings and numberings in the report, we advise as follows:

In the head paragraphs of the report and the first set of enumerations

3. Council does not propose to remain a financial contributor to the Hunter JO after its departure, except to the extent of programs to which it has contributed but which programs have not yet been delivered. It is our preference that, moving forward, the Hunter JO acts as an advocacy body and a kind of 'clearing house' with actual programs delivered by the operational entities – either Strategic Services Australia Limited or Hunter Councils Incorporated. Council can then engage with those programs and have some involvement in the responsibility for operational delivery.

In the table on pages 82 and 83

Advocacy	No involvement by Council (either at an elected or executive level). However, if Council is invited to 'join-in' the Hunter JO's position on a particular issue, Council would consider the invitation in a similar way to those received from LGNSW from time to time.
Regional Strategic Planning & Prioritisation	No involvement by Council (either at an elected or executive level).
Collaboration (Including in all programs)	It is our preference that, moving forward, the Hunter JO acts as an advocacy body and a kind of 'clearing house' with actual programs delivered by the operational entities – either Strategic Services Australia Limited or Hunter Councils Incorporated. Council can then

(02) 6549 3700 (02) 6549 3701 council@muswellbrook.nsw.gov.au
Campbell's Corner 60–82 Bridge Street Muswellbrook NSW 2333 PO Box 122 Muswellbrook 2333
muswellbrook.nsw.gov.au muswellbrook shire council ABN 86 864 180 944

	engage with those programs and have some involvement in the responsibility for operational delivery.
Financial implications	Council does not propose to remain a financial contributor to the Hunter JO after its departure, except to the extent of programs to which it has contributed but which programs have not yet been delivered. The existing environmental program would appear to fall into this category.

We would also be pleased if the Hunter JO would remove reference to our participation on the Hunter JO website and other media.

We thank you in anticipation of your cooperation with respect to the above.

Kind regards,

Fiona Plesman
General Manager

(02) 6549 3700 (02) 6549 3701 council@muswellbrook.nsw.gov.au
Campbell's Corner 60–82 Bridge Street Muswellbrook NSW 2333 PO Box 122 Muswellbrook 2333
muswellbrook.nsw.gov.au muswellbrook shire council ABN 86 864 180 944

MALABAR
MALABAR RESOURCES LIMITED
ABN 29 151 691 468
Level 26, 259 George Street
Sydney NSW 2000
PO Box R864
Royal Exchange NSW 1225
Ph: +61 2 8248 1272
Fax: +61 2 8248 1273
Website: www.malabarresources.com.au

09 June 2021

The General Manager

Muswellbrook Shire Council
PO Box 122
Muswellbrook NSW 2333

By email: Fiona.Plesman@muswellbrook.nsw.gov.au

Dear Ms Plesman

Planning Agreement – Maxwell Underground Coal Project

In accordance with condition A17 of the Development Consent for the Maxwell Underground Coal Project (SSD-9526) granted on 22 December 2020 (**Consent**), Maxwell Ventures (Management) Pty Ltd (**Maxwell**) offers to enter into a planning agreement with Council on the terms set out in the attached document.

Consistent with our correspondence of 21 October 2020 and subsequent discussions with Council, the attached agreement provides for the following contributions:

(a) From commencement of development (in accordance with a notice issued under condition A13(a) of the Consent) to commencement of longwall production:

  (i) a monetary contribution of $100,000 per annum plus $0.07 per tonne of Product Coal in excess of 1,500,000 tonnes per calendar year, to be used towards community, road and infrastructure initiatives; and

  (ii) a commitment by Maxwell to use its best endeavours to engage 2 apprentices from the Muswellbrook Shire in each calendar year.

(b) From commencement of longwall production:

  (i) a monetary contribution of $350,000 per annum plus $0.07 per tonne of Product Coal in excess of 5,000,000 tonnes per calendar year, to be used towards community, road and infrastructure initiatives; and

  (ii) a commitment by Maxwell to use its best endeavours to engage 4 apprentices from the Muswellbrook Shire in each calendar year.

(c) From the commencement of development, $20,000 per annum to be used for the appointment of an environmental officer (with the first payment being made within 30 days after commencement of development).

Maxwell also accepts its responsibility to:

(a) Make payments under the Thomas Mitchell Drive Contributions Study in accordance with condition B88 of the Consent,

(b) Construct a new Saddlers Creek crossing on Edderton Road in accordance with condition B89 of

the Consent, and

(c) Pay $47,300 towards Council's Mine Affected Roads Strategy in accordance with an invoice previously issued by Council.

Maxwell considers that the attached document reflects the terms agreed between the parties to date and is consistent with:

(a) the *General Terms of Applicant's VPA Offer* in Appendix 6 of the Consent (including additional contributions to those set out in that document); and

(b) other planning agreements Council has entered into for similar projects.

We look forward to working with Council to deliver the community benefits under the planning agreement in connection with approved project.

Yours faithfully,



James Johnson

General Manager Development & Operations

Malabar Resources

Voluntary Planning Agreement

Reference: MAL035-2

7 June 2021

Maxwell Ventures (Management) Pty Ltd
ACN 002 028 257

Muswellbrook Shire Council
ABN 86 864 180 944

NLS\NLS\79352815\1

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Agreement

Date

Parties

First party

Name	Maxwell Ventures (Management) Pty Ltd (**Maxwell**)
ACN	002 028 257
Contact	The General Manager
Telephone	02 6542 0200

Second party

Name	Muswellbrook Shire Council (**Council**)
ABN	86 864 180 944
Contact	The General Manager
Telephone	02 6549 3706

Background

A. Maxwell lodged Development Application SSD-9526 with the Department of Planning, Industry and Environment for State Significant Development comprising the Maxwell Underground Coal Mine Project in 2019. Development Consent was granted on 22 December 2020.

B. Maxwell offered to enter into a planning agreement to make development contributions to Council in connection with the Development Application. Condition A17 of the Development Consent requires Maxwell to enter into a planning agreement with Council.

C. Council has accepted Maxwell's offer and the parties now intend to enter into a planning agreement in accordance with the terms of this agreement and in satisfaction of the obligation under condition A17 of the Development Consent.

Operative part

1 Definitions

In this agreement, unless the context indicates a contrary intention:

Act means the *Environmental Planning and Assessment Act 1979* (NSW);

Address means a party's address set out in the Notices clause of this agreement;

Approval means any certificate, licence, consent, permit, approval or other requirement of any Authority having jurisdiction in connection with the activities contemplated by this agreement;

Authority means any government, semi-governmental, statutory, administrative, fiscal or judicial body, department, commission, authority, tribunal, public or other person;

Business Day means a day on which banks are open for general banking business in Sydney, excluding Saturdays and Sundays;

Care and Maintenance Period means any period as notified by Maxwell to Council, in which Maxwell has for any reason, ceased mining coal at the Development for a continuous period of time in excess of 6 months;

Commencement Date means the date of commencement of development, as notified by Maxwell in a notice issued under condition A13(a) of the Development Consent;

Consent Authority means the consent authority for the Development as defined under the Act;

Contributions Schedule means the table in Schedule 1 setting out the Monetary Contributions;

CPI means the All Groups Consumer Price Index applicable to Sydney published by the Australian Bureau of Statistics;

Development means the Maxwell Underground Coal Mine Project as approved under the Development Consent;

Development Application means development application SSD-9526 lodged by Maxwell for the Development;

Development Consent means Development Consent SSD-9526 granted on 22 December 2020 as modified from time to time;

End of Mining Operations means the date of cessation of mining operations, as notified by Maxwell in a notice issued under condition A13(e) of the Development Consent;

GST has the same meaning as in the GST Law;

GST Law has the meaning given to that term in *A New Tax System (Goods and Services Tax) Act 1999* (Cth) and any other Act or regulation relating to the imposition of or administration of the GST;

Law means:

(a) any law applicable including legislation, ordinances, regulations, by-laws and other subordinate legislation;

(b) any Approval, including any condition or requirement under it; and

(c) any fees and charges payable in connection with the things referred to in paragraphs (a) and (b);

Longwall Production means production of coal from the Development using the longwall coal mining system in accordance with the Development Consent and the Mining Operations Plan;

Mining Operations Plan means the mining operations plan or other plan or approval required for the Development which are required under the terms of any mining lease or Approval held in connection with the Development;

Monetary Contributions means the monetary contributions payable by Maxwell to Council in accordance with clause 6.1 and the Contributions Schedule;

Product Coal means saleable coal as reported in a return lodged under section 289 of the *Mining Act 1992* (NSW), being a return prepared for the purpose of assessing the royalty to be paid under the *Mining Act 1992* (NSW); and

Security means a mortgage, charge, guarantee, bond or other similar security given for the purposes of obtaining finance.

2 Interpretation

In this agreement, unless the context indicates a contrary intention:

(a) (**documents**) a reference to this agreement or another document includes any document which varies, supplements, replaces, assigns or novates this agreement or that other document;

(b) (**references**) a reference to a party, clause, paragraph, schedule or annexure is a reference to a party, clause, paragraph, schedule or annexure to or of this agreement;

(c) (**headings**) clause headings and the table of contents are inserted for convenience only and do not affect interpretation of this agreement;

(d) (**person**) a reference to a person includes a natural person, corporation, statutory corporation, partnership, the Crown and any other organisation or legal entity and their personal representatives, successors, substitutes (including persons taking by novation) and permitted assigns;

(e) (**party**) a reference to a party to a document includes that party's personal representatives, executors, administrators, successors, substitutes (including persons taking by novation) and permitted assigns;

(f) (**requirements**) a requirement to do any thing includes a requirement to cause that thing to be done, and a requirement not to do any thing includes a requirement to prevent that thing being done;

(g) (**including**) including and includes are not words of limitation, and a list of examples is not limited to those items or to items of a similar kind;

(h) (**corresponding meanings**) a word that is derived from a defined word has a corresponding meaning;

(i) (**singular**) the singular includes the plural and vice-versa;

(j) (**gender**) words importing one gender include all other genders;

(k) (**parts**) a reference to one or more things includes each part and all parts of that thing or group of things but nothing in this clause implies that part performance of an obligation constitutes performance of that obligation;

(l) (**rules of construction**) neither this agreement nor any part of it is to be construed against a party on the basis that the party or its lawyers were responsible for its drafting;

(m) (**legislation**) a reference to any legislation or provision of legislation includes all amendments, consolidations or replacements and all regulations or instruments issued under it;

(n) (**time and date**) a reference to a time or date in connection with the performance of an obligation by a party is a reference to the time and date in Sydney, Australia, even if the obligation is to be performed elsewhere;

(o) (**joint and several**) an agreement, representation, covenant, right or obligation:

(i) in favour of two or more persons is for the benefit of them jointly and severally; and

(ii) on the part of two or more persons binds them jointly and severally;

(p) (**writing**) a reference to a notice, consent, request, approval or other communication under this agreement or an agreement between the parties means a written notice, request, consent, approval or agreement;

(q) (**replacement bodies**) a reference to a body (including an institute, association or Authority) which ceases to exist or whose powers or functions are transferred to another body is a reference to the body which replaces it or which substantially succeeds to its power or functions;

(r) (**Australian currency**) a reference to dollars or $ is to Australian currency;

(s) (**month**) a reference to a month is a reference to a calendar month; and

(t) (**year**) a reference to a year is a reference to twelve consecutive calendar months.

3 Planning Agreement under the Act

The parties agree that this agreement is a planning agreement within the meaning of section 7.4 of the Act.

4 Application of this agreement

(a) This agreement applies to:

(i) the Development, and

(ii) the land subject to the Development as specified in the Development Consent.

(b) Council acknowledges that the development contributions set out in this agreement are in recognition of and commensurate with the impact of the Development.

5 Operation of this agreement

5.1 Commencement

This agreement commences on and from the date it is executed by all parties.

5.2 Termination

(a) This agreement terminates on:

(i) if an appeal is commenced, the refusal of the Development Application by the final determination of a Court;

(ii) the declaration by a Court of competent jurisdiction that the Development Consent or other Approval granted for the Development is invalid; or

(iii) if the Development Consent or other Approval granted for the Development ceases for any reason to operate.

(b) If the Development Consent or other Approval granted for the Development is declared to be invalid pursuant to clause 5.2(a) and a new approval is granted in respect of the same development, then Council agrees to accept payment of the Development Contributions under this agreement as satisfaction of any contributions required under the new approval.

(c) If this agreement terminates pursuant to clause 5.2(a) this clause 5.2 survives termination of the Agreement.

5.3 Suspension of Obligations

The obligations under clause 6 of this agreement are suspended for the duration of any Care and Maintenance Period.

6 Contributions to be made under this agreement

6.1 Monetary Contributions

(a) Maxwell must pay the monetary contributions set out in the Contributions Schedule to the Council.

(b) The Monetary Contribution must be paid to Council at the times specified in the Contributions Schedule.

(c) The Monetary Contribution must be paid by way of bank cheque in favour of Council or by deposit by means of electronic funds transfer into an account specified by Council.

(d) The Monetary Contribution will be taken to have been made when the Council notifies the Developers in writing that the bank cheque has been received and cleared funds or electronic funds have been deposited in the Council's bank account.

(e) The parties agree and acknowledge that the Monetary Contribution will be used by the Council towards the public purposes specified in the Contributions Schedule.

6.2 Apprenticeships

(a) Maxwell will use its best endeavours to:

(i) engage two (2) apprentices in each calendar year for the period starting on the date that is 30 days after the Commencement Date and ending on the day before Longwall Production commences; and

(ii) engage four (4) apprentices in each calendar year for the period starting on the day Longwall Production commences until the End of Mining Operations.

(b) Maxwell will use its best endeavours to source all apprentices from residents within the Muswellbrook Shire.

7 Application of s7.11, s7.12 and s7.24 of the Act to the Development

(a) This agreement does not exclude the application of section 7.11 of the Act to the Development.

(b) This agreement does not exclude the application of section 7.12 of the Act to the Development.

(c) This agreement does not exclude the application of section 7.24 of the Act to the Development.

(d) The benefits under this agreement are to be taken into consideration in determining a development contribution under section 7.11 of the Act.

(e) Council acknowledges and agrees that:

(i) it will not seek any further payments from Maxwell other than in accordance with this agreement; and

(ii) it will not request the Consent Authority to impose a condition on any Development Consent for the Development requiring the payment of any contributions to Council, other than in accordance with this agreement.

8 Compliance with Laws

(a) If a Law is changed or a new Law comes into force (both referred to as **New Law**) and Maxwell is obliged by the New Law to do something or pay an additional amount for a purpose which it is already contractually obliged to do or pay under this agreement then, to the extent only that the relevant obligation is required under both the New Law and this agreement, compliance with this agreement will constitute compliance with the New Law and compliance with the New Law will constitute compliance with this agreement.

(b) If there is any doubt as to whether compliance with this agreement will constitute compliance with the New Law, Maxwell will pay such amounts required under the New Law and Council agrees that such payments will act as a credit with respect to any future payments required under this agreement so that the total Monetary Contribution payable by Maxwell under this agreement in accordance with the Contributions Schedule is not exceeded.

9 Review of this agreement

(a) This agreement may be reviewed or modified. Any review or modification of this agreement will be conducted in the circumstances and in the manner determined by the parties.

(b) No modification or review of this agreement will be of any force or effect unless it is in writing and signed by the parties to this agreement.

(c) A party is not in breach of this agreement if it does not agree to an amendment to this agreement requested by a party in, or as a consequence of, a review.

10 Dispute Resolution

10.1 Reference to Dispute

If a dispute arises between the parties in relation to this agreement, the parties must not commence any court proceedings relating to the dispute unless the parties have complied with this clause, except where a party seeks urgent interlocutory relief.

10.2 Notice of Dispute

The party wishing to commence the dispute resolution process must give written notice (**Notice of Dispute**) to the other parties of:

(a) The nature of the dispute,

(b) The alleged basis of the dispute, and

(c) The position which the party issuing the Notice of Dispute believes is correct.

10.3 Representatives of Parties to Meet

(a) The representatives of the parties must promptly (and in any event within 10 Business Days of the Notice of Dispute) meet in good faith to attempt to resolve the notified dispute.

(b) The parties may, without limitation:

(i) resolve the dispute during the course of that meeting,

(ii) agree that further material about a particular issue or consideration is needed to effectively resolve the dispute (in which event the parties will, in good faith, agree to a timetable for resolution); or

(iii) agree that the parties are unlikely to resolve the dispute and, in good faith, agree to a form of alternative dispute resolution which is appropriate for the resolution of the relevant dispute.

10.4 Further Notice if Not Settled

If the dispute is not resolved within 20 Business Days after the nominated representatives have met, either party may give to the other a written notice calling for determination of the dispute (Determination Notice) by mediation under clause 10.5.

10.5 Mediation

If a party gives a Determination Notice calling for the dispute to be mediated:

(a) The parties must agree to the terms of reference of the mediation 10 Business Days of the receipt of the Determination Notice (the terms shall include a requirement that the mediation rules of the Institute of Arbitrators and Mediators Australia (NSW Chapter) apply);

(b) The mediator will be agreed between the parties, or failing agreement within 15 Business Days of receipt of the Determination Notice, either Party may request the President of the Institute of Arbitrators and Mediators Australia (NSW Chapter) to appoint a mediator;

(c) The mediator appointed pursuant to this clause 10.5 must:

(i) have reasonable qualifications and practical experience in the area of the dispute; and

(ii) have no interest or duty which conflicts or may conflict with his or her function as a mediator he or she being required to fully disclose any such interest or duty before his or her appointment;

(d) The mediator shall be required to undertake to keep confidential all matters coming to his or her knowledge by reason of his or her appointment and performance of his or her duties;

(e) The parties must within 15 Business Days of receipt of the Determination Notice notify each other of their representatives who will be involved in the mediation;

(f) The parties agree to be bound by a mediation settlement and may only initiate judicial proceedings in respect of a dispute which is the subject of a mediation settlement for the purpose of enforcing that mediation settlement; and

(g) In relation to costs and expenses:

(i) Each party will bear its own professional and expert costs incurred in connection with the mediation; and

(ii) The costs of the mediator will be shared equally by the parties unless the mediator determines that a party has engaged in vexatious or unconscionable behaviour in which case the mediator may require the full costs of the mediation to be borne by that party.

10.6 Litigation

If the dispute is not *finally* resolved in accordance with this clause 10, then either party is at liberty to litigate the dispute.

10.7 Confidentiality

Any information or documents disclosed by a party during or for the purposes of engaging in the dispute resolution process under this clause 10:

(a) must be kept confidential; and

(b) may only be used to attempt to resolve the dispute.

10.8 No suspension of contractual obligations

Subject to any interlocutory order obtained under clause 10.1, the referral to or undertaking of a dispute resolution process under this clause 10 does not suspend the parties' obligations under this agreement.

11 Registration of this agreement

This agreement will not be registered on the title of the Land pursuant to section 7.6 of the Act.

12 Enforcement

12.1 Default

(a) In the event Maxwell has failed to pay a Monetary Contribution within 28 days of the due date of the tax invoice as required under this agreement, Council may provide a notice to Maxwell (**Default Notice**) giving particulars of the outstanding amounts and requiring the default to be remedied within a reasonable time not being less than 10 Business Days.

(b) If Maxwell disputes the Default Notice it may refer the dispute to dispute resolution under clause 10 of this agreement.

12.2 Proceedings

If:

(a) the Default Notice is not referred to dispute resolution and Maxwell fails to comply with the Default Notice, or

(b) if the Default Notice is referred to dispute resolution and Maxwell fails to make a payment required as part of the resolution of the dispute or the dispute is not resolved in accordance with clause 10,

Council may commence proceedings in accordance with a court of competent jurisdiction to recover the amount due. Council must not commence proceedings to recover amounts due under this agreement unless it first gives the notices required under this clause.

13 Assignment

13.1 Restriction on assignment

Maxwell must not transfer, assign or novate or similarly deal with (**Dealing**) its rights or obligations under this agreement unless, prior to any such dealing, Maxwell procures that the transferee, assignee or novatee executes and delivers to the Council prior to any such Dealing taking effect, an agreement in favour of the Council whereby:

(a) the transferee, assignee or novate becomes contractually bound with the Council to perform all of Maxwell's obligations (including obligations which may have arisen before the transfer, assignment or novation takes effect); and

(b) Maxwell is released from any obligations under or by virtue of this agreement which at the time of any proposed assignment or novation contemplated by this clause are required to be performed or satisfied by Maxwell at any time from or after the date on which that assignment or novation takes effect under this agreement.

13.2 Security

Clause 13.1 does not apply to a Dealing that is solely for the purpose of Maxwell obtaining finance for the Development by providing any Security in the Land, the Development or this agreement, provided that this agreement is disclosed to all relevant parties prior to the Dealing being made.

14 Approvals and consents

Except as otherwise set out in this agreement, and subject to any statutory obligations, a party may give or withhold an approval or consent to be given under this agreement in that party's absolute discretion and subject to any conditions determined by the party. A party is not obligated to give its reasons for giving or withholding consent or for giving consent subject to conditions.

15 No fetter

Nothing in this agreement shall be construed as requiring Council to do anything that would cause it be in breach of any of its obligations at law or as limiting or fettering, in any manner, the exercise of any statutory power or discretion of the Council, including,

but not limited to, any statutory power or discretion of the Council relating to the Development Consent or any other Approvals in connection with the Development.

16 Notices

Any notice given under or in connection with this agreement (**Notice**):

(a) must be in writing and signed by a person duly authorised by the sender;

(b) must be addressed as follows and delivered to the intended recipient by hand, or by email at the address below, or at the address last notified by the intended recipient to the sender after the date of this agreement:

(i)	to Maxwell Ventures (Management) Pty Ltd:	Private Mail Bag 9, Muswellbrook NSW 2333 Email: info@malabarresources.com.au Attention: The General Manager
(ii)	to Muswellbrook Shire Council:	PO Box 122 Muswellbrook NSW 2333 Email: council@muswellbrook.nsw.gov.au Attention: The General Manager

(c) is taken to be given or made:

(i) in the case of hand delivery, when delivered; and

(ii) in the case of an email when the sender receives an email acknowledgement from the recipient's information system showing the Notice has been delivered to the email address stated above or when the Notice is first opened or read by the recipient, whichever occurs first; and

(d) if under clause (c) a Notice would be taken to be given or made on a day that is not a Business Day in the place to which the Notice is sent, or later than 4.00 pm (local time), it is taken to have been given or made at the start of business on the next Business Day in that place.

17 General

17.1 Relationship between parties

(a) Nothing in this agreement:

(i) constitutes a partnership between the parties; or

(ii) except as expressly provided, makes a party an agent of another party for any purpose.

(b) A party cannot in any way or for any purpose:

(i) bind another party; or

(ii) contract in the name of another party.

(c) If a party must fulfil an obligation and that party is dependent on another party, then that other party must do each thing reasonably within its power to assist the other in the performance of that obligation.

17.2 Time for doing acts

(a) If the time for doing any act or thing required to be done or a notice period specified in this agreement expires on a day other than a Business Day, the time

for doing that act or thing or the expiration of that notice period is extended until the following Business Day.

(b) If any act or thing required to be done is done after 5.00 pm on the specified day, it is taken to have been done on the following Business Day.

17.3 Further assurances

Each party must promptly execute all documents and do all other things reasonably necessary or desirable to give effect to the arrangements recorded in this agreement.

17.4 Variation

A provision of this agreement can only be varied by a later written document executed by or on behalf of all parties and in accordance with the provisions of the Act.

17.5 Counterparts

This agreement may be executed in any number of counterparts. All counterparts taken together constitute one instrument.

17.6 Legal expenses and stamp duty

Each party must pay its own legal costs and disbursements in connection with the negotiation, preparation, execution, carrying into effect and release and discharge of this agreement.

17.7 Entire agreement

The contents of this agreement constitute the entire agreement between the parties and supersede any prior negotiations, representations, understandings or arrangements made between the parties regarding the subject matter of this agreement, whether orally or in writing.

17.8 Representations and warranties

The parties represent and warrant that they have the power and authority to enter into this agreement and comply with their obligations under the agreement and that entry into this agreement will not result in the breach of any law.

17.9 Severability

If a clause or part of a clause of this agreement can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way. If any clause or part of a clause is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this agreement, but the rest of this agreement is not affected.

17.10 Invalidity

(a) A word or provision must be read down if:

(i) this agreement is void, voidable, or unenforceable if it is not read down;

(ii) this agreement will not be void, voidable or unenforceable if it is read down; and

(iii) the provision is capable of being read down.

(b) A word or provision must be severed if:

(i) despite the operation of clause (a), the provision is void, voidable or unenforceable if it is not severed; and

(ii) this agreement will be void, voidable or unenforceable if it is not severed.

(c) The remainder of this agreement has full effect even if clause 17.10(b) applies.

17.11 Waiver

(a) A right or remedy created by this agreement cannot be waived except in writing signed by the party entitled to that right. Delay by a party in exercising a right or remedy does not constitute a waiver of that right or remedy, nor does a waiver (either wholly or in part) by a party of a right operate as a subsequent waiver of the same right or of any other right of that party.

(b) The fact that a party fails to do, or delays in doing, something the party is entitled to do under this agreement, does not amount to a waiver of any obligation of, or breach of obligation by, another party. A waiver by a party is only effective if it is in writing. A written waiver by a party is only effective in relation to the particular obligation or breach in respect of which it is given. It is not to be taken as an implied wavier of any other obligation or breach or as an implied wavier of that obligation or breach in relation to any other occasion.

17.12 GST

(a) Words and expressions which are not defined in this agreement but which have a defined meaning in GST Law have the same meaning as in the GST Law.

(b) Unless otherwise expressly stated, all prices or other sums payable or consideration to be provided under this agreement are exclusive of GST.

(c) The parties agree, in accordance with Class Ruling CR2013/13 published by the Commissioner, that contributions required to be made under this agreement are exempt from GST.

(d) If GST is imposed on any supply made under or in accordance with this agreement, the recipient of the taxable supply must pay to the supplier, an amount equal to the GST payable by the supplier on or for the taxable supply.

17.13 Governing law and jurisdiction

(a) The laws applicable in New South Wales govern this agreement.

(b) The parties submit to the non-exclusive jurisdiction of the courts of New South Wales and any courts competent to hear appeals from those courts.

Schedule 1 Contributions Schedule

Development Contribution	**Timing**	**Intended Use - Public Purpose**
[1]For the period between the date that is 30 days after the Commencement Date and the day before Longwall Production commences, the sum of: (a) $100,000.00 per annum; and (b) $0.07 per tonne of Product Coal from the Development that exceeds 1,500,000 tonnes per calendar year. Each payment is to be adjusted by the same percentage as percentage movements in the CPI between the date of this agreement and the first payment date and thereafter adjusted on each anniversary of the first payment date by a percentage equal to any percentage movement in the CPI over the then immediately preceding 12 month period.	Payments will be calculated based on Product Coal produced in each calendar year as reported by Maxwell. Maxwell will notify Council of the amount of Product Coal produced in the previous calendar year by 31 March. Payments will be made annually on or before 1 May, following receipt of an appropriate tax invoice issued by the Council at least 20 Business Days prior to the payment date.	To be used by the Council towards community, road and infrastructure initiatives at the Council's discretion

[1] Subject to clause 5.3

Development Contribution	Timing	Intended Use - Public Purpose
[2]For the period between the date of commencement of Longwall Production and the End of Mining Operations, the sum of: (a) $350,000.00 per annum; and (b) $0.07 per tonne of Product Coal from the Development that exceeds 5,000,000 tonnes per calendar year. Each amount is adjusted by the same percentage as percentage movements in the CPI between the date of this agreement and the first payment date and thereafter adjusted on each anniversary of the first payment date by a percentage equal to any percentage movement in the CPI over the then immediately preceding 12 month period.	Payments will be calculated based on Product Coal produced in each calendar year as reported by Maxwell. Maxwell will notify Council of the amount of Product Coal produced in the previous calendar year by 31 March. Payments will be made annually on or before 1 May, following receipt of an appropriate tax invoice issued by the Council at least 20 Business Days prior to the payment date.	To be used by the Council towards community, road and infrastructure initiatives at the Council's discretion.
From the date that is 30 days after the Commencement Date until the termination of this agreement, $20,000.00 per annum, indexed in accordance with increases in the CPI between the date of this agreement and the Commencement Date and thereafter adjusted on each anniversary of the Commencement Date by a proportion equal to any proportionate movement in the CPI over the immediately preceding 12 month period.	Payment will be made within 30 days after the Commencement Date and annually thereafter on receipt of a tax invoice issued by the Council at least 15 Business Days prior to the payment date.	To be used for the appointment by the Council of an Environmental Officer.

[2] Subject to clause 5.3

Executed as an agreement

Executed by **Maxwell Ventures (Management) Pty Ltd** ACN 002 028 257 in accordance with section 127 of the *Corporations Act 2001* (Cth) by:)

.....	.....
Signature of Director	Signature of Secretary
WAYNE RONALD SEABROOK	LINDI-MAY LOCHNER
.....	.....
Print name of Director	Print name of Secretary

Signed by **the General Manager** as authorised delegate for **Muswellbrook Shire Council** ABN 86 864 180 944 in accordance with a resolution of the Council dated _____[insert date], in the presence of:)

.....	.....
Signature of Witness	Signature of Authorised Representative
.....	
Print name of Witness	
.....	
.....	
Address of Witness	

Strengthening local government

Office of Local Government

Circular to Councils

Circular Details	21-17 / 8 July 2021 / A755930
Previous Circular	*21-12 "Electoral matter" and use of council resources prior to local government elections*
Who should read this	Councillors / General Managers / All council staff
Contact	Council Governance Team / 02 4428 4100 / olg@olg.nsw.gov.au
Action required	Information / Council to Implement

Council decision-making prior to the September 2021 local government elections

What's new or changing

- Councils are expected to assume a "caretaker" role during election periods to ensure that major decisions are not made which would limit the actions of an incoming council.
- Councils, general managers and other delegates of councils (other than a joint regional planning panel, a local planning panel or the Central Sydney Planning Committee) must not exercise the following functions during the caretaker period:
  - entering into any contract or undertaking involving an expenditure or receipt by the council of an amount equal to or greater than $150,000 or 1% of the council's revenue from rates in the preceding financial year (whichever is the larger)
  - determining a "controversial development application", except where a failure to make such a determination would give rise to a deemed refusal, or such a deemed refusal arose before the commencement of the caretaker period
  - appointing or reappointing the council's general manager (except for temporary appointments).
- In certain circumstances, these functions may be exercised with the approval of the Minister.

Key points

- "Controversial development application" means a development application for designated development under section 4.10 of the *Environmental Planning and Assessment Act 1979* for which at least 25 persons have made submissions during community consultation.
- The caretaker period for the September 2021 local government elections commences on Friday 6 August 2021 and ends on Saturday 4 September 2021.

Where to go for further information

- For further information, contact the OLG's Council Governance Team on 4428 4100.

Kiersten Fishburn
Coordinator General, Planning Delivery and Local Government

Office of Local Government
5 O'Keefe Avenue NOWRA NSW 2541
Locked Bag 3015 NOWRA NSW 2541
T 02 4428 4100 **F** 02 4428 4199 **TTY** 02 4428 4209
E olg@olg.nsw.gov.au **W** www.olg.nsw.gov.au **ABN** 20 770 707 468

Strengthening local government

Office of Local Government

Circular to Councils

Circular Details	21-12 / 11 June 2021 / A755939
Previous Circular	*17-12 – "Electoral matter" and use of council resources prior to local government elections*
Who should read this	Councillors / General Managers / All council staff
Contact	Council Governance Team / 02 4428 4100 / olg@olg.nsw.gov.au
Action required	Information / Council to Implement

"Electoral matter" and use of council resources prior to local government elections

What's new or changing

- Council officials must not use council resources, property (including intellectual property), and facilities for the purposes of assisting their election campaign or the election campaign of others unless the use is lawfully authorised and proper payment is made where appropriate.
- In the 40 days preceding the election, councils need to consider whether their publications could amount to an "electoral matter".

What this will mean for your council

- Council officials must use council resources lawfully, ethically, effectively and carefully keeping in mind the council's code of conduct and other policies such as the policy on the payment of expenses and the provision of facilities to mayors and councillors.
- "Electoral matter" is defined under clause 356A of the *Local Government (General) Regulation 2005*, and broadly includes any matter that is intended or likely to affect voting in an election. The name, photograph and likeness of a candidate fall within the definition of "electoral matter".
- Council publications that promote the achievements of the council may also potentially fall within the definition of "electoral matter".

Key points

- Under the *Model Code of Conduct for Local Councils in NSW*, the following **must not** be used for the purpose of assisting anyone's election campaign:
  - council resources, property or facilities (unless the resources, property or facilities are otherwise available for use or hire by the public and any publicly advertised fee is paid for use of the resources, property or facility); and
  - council letterhead, council crests and other information that could give the appearance it is official council material.
- Breaches of a council's code of conduct may result in disciplinary action.
- Councils and council officials should be mindful of the need to maintain community confidence in the integrity of the performance of the council's functions and activities in the lead-up to elections. Councils should be mindful of how the community may perceive any of their activities or actions during this time.

Office of Local Government
5 O'Keefe Avenue NOWRA NSW 2541
Locked Bag 3015 NOWRA NSW 2541
T 02 4428 4100 **F** 02 4428 4199 **TTY** 02 4428 4209
E olg@olg.nsw.gov.au **W** www.olg.nsw.gov.au **ABN** 20 770 707 468

Where to go for further information

- For further clarification on "electoral matter", refer to "Frequently Asked Questions" attached to the Circular.
- For further information, contact the Office's Council Governance Team on 4428 4100.



Luke Walton
Acting Deputy Secretary
Local Government, Planning and Policy

Office of Local Government
5 O'Keefe Avenue NOWRA NSW 2541
Locked Bag 3015 NOWRA NSW 2541
T 02 4428 4100 **F** 02 4428 4199 **TTY** 02 4428 4209
E olg@olg.nsw.gov.au **W** www.olg.nsw.gov.au **ABN** 20 770 707 468

Frequently Asked Questions

Q. What is "electoral matter"?

"Electoral matter" is defined under clause 356A of the *Local Government (General) Regulation 2005* (the Regulation) and broadly includes any matter that is intended or likely to affect voting in an election. The name, photograph and likeness of a candidate also fall within the definition of electoral matter.

The regulatory requirements that relate to "electoral matter" and "electoral material" under the Regulation apply in the 40 days preceding the election.

Q. Can council publications be "electoral matter"?

A council publication that makes no reference to the Mayor or councillors who are candidates and does not carry their images or statements will not constitute electoral matter if it is not intended or likely to affect voting at the election.

However, council publications that promote the achievements of the council may potentially have this effect and therefore may constitute "electoral matter" even if they do not carry the images or statements of the Mayor or councillors. This potentially includes end-of-term reports. More information on this is provided below.

Ultimately whether a council publication constitutes "electoral matter" is an assessment that needs to be made by each council on a case-by-case basis. If a council is in doubt, then it should defer issuing the publication until after the election.

Q. Does the Mayoral column constitute "electoral matter"?

Yes. Because the Mayoral column carries the Mayor's image and name, it will constitute electoral matter if the Mayor is a candidate. Councils should instead consider publishing the Mayoral column in the 40 days preceding the election as a generic council column.

Q. Does the end-of term report constitute "electoral matter"?

Because the end of term report identifies the achievements of the council over its preceding term it may potentially constitute "electoral matter" because of its potential to impact on voting at the election.

Q. Can the end of term report be reported to council during caretaker period?

Yes. The end-of-term report *must* be presented to the final meeting of an outgoing council. The provisions in the Regulation relating to "electoral material" do not prevent the end-of-term report being presented to the council or from being made available on a council's website as part of the business papers of the meeting.

However, because the final meeting of the outgoing council will normally fall within the 40 day "regulated period" preceding the election, councils should refrain from publishing the end-of-term report as a separate publication until after the elections on 4 September 2021. The end-of-term report should be appended to that year's annual report.

Office of Local Government
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E olg@olg.nsw.gov.au **W** www.olg.nsw.gov.au **ABN** 20 770 707 468

Q. Can mayors or councillors who are candidates attend council-arranged or community events?

Nothing in this circular should be interpreted as preventing the Mayor or councillors who are candidates from attending or presiding over council-arranged or community events in the lead up to the election.

Q. Can mayors or councillors who are candidates make "political statements" at council-arranged events?

Mayors or councillors who are candidates must not use council arranged events that they attend in an official capacity to actively campaign for re-election. However, nothing under the Model Code of Conduct would serve to preclude a councillor who is a candidate from expressing their political views or making political statements at such events.

Q. Can the mayor or councillors who are candidates make comments in the media?

This circular does not seek to prevent the Mayor or councillors who are candidates from offering media comment, provided that comment is not made in an advertisement, newspaper column, or a radio or television broadcast paid for by the council or produced by the council or with council resources and the comment is not inconsistent with the council's adopted media policy.

Office of Local Government
5 O'Keefe Avenue NOWRA NSW 2541
Locked Bag 3015 NOWRA NSW 2541
T 02 4428 4100 **F** 02 4428 4199 **TTY** 02 4428 4209
E olg@olg.nsw.gov.au **W** www.olg.nsw.gov.au **ABN** 20 770 707 468



Library Collection Management Policy

L06/21

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muswellbrook shire council

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Policy Objective

This policy focuses on the Library collection as a significant community resource which needs to be managed efficiently and provides a framework which ensures equitable access to a diverse range of resources to meet the changing needs of the community.

The collection management policy:

- Supports the identification and allocation of collection funds for current and future priorities.
- Ensures that objectivity and professional rigour inform the selection, allocation, rotation and weeding processes.
- Informs guidelines for the collection including subject profiles, depth of coverage and resource formats.
- Ensures that the operation of the library service is in accordance with the relevant Acts, regulations and codes governing public libraries in New South Wales.
- Provides an essential tool for induction, reference and ongoing staff training.

Scope

This policy provides direction for the acquisition, maintenance and retention of all materials for the collection.

Definitions

Library	Muswellbrook Shire Libraries encompassing Muswellbrook, Denman and digital library branches.
Council	Muswellbrook Shire Council
Collection	Refers to all collections owned by the Library including physical and digital resources

Policy Statement

Collection Principles

A range of resources are included in the collection to meet the diverse ages, interests, cultures, languages and literacy levels of the community served.

The following principles underpin the collection management at the Library:

- Access: the Library will provide free adequate and convenient access to all resources
- Equity: the Library will make available resources to all people regardless of gender, age, disability, ethnic origin or economic status
- Participation: the Library will actively engage with the community through feedback processes
- Cultural relevance: the Library will collect resources which support the library related needs of all sectors of the local communities
- Quality and range: the Library will provide a wide range of resources with a strong focus on quality in terms of content, presentation and format.
- Information and learning: the Library will support lifelong learning with the provision of up to date and accessible library resources in a variety of formats
- Preservation: the Library will preserve records of local and regional significance

The Library does not attempt to duplicate the services and materials offered by other library providers. Through cooperative agreements, resources of other libraries may be available to members of the Library through the Inter-Library Loan service.

Textbooks and curriculum related materials are provided only when those materials also serve the general public. Legal and medical works will only be acquired for the collection only to the extent that they are useful to the general community or make up part of the State Library LIAC collection or Drug Information collection.

Selection Mechanisms

The library collection shall be an unbiased and diverse source of information, representing as many viewpoints as possible. Materials will be selected for all ages and not excluded because of race, nationality, religion, gender, sexual orientation, or political and social views of the author. Inclusion of materials does not imply agreement with or endorsement of content. Materials will be provided in a range of formats including digital resources to meet growing community need.

General criteria for selection of library materials include but are not limited to:

- Community and stakeholder engagement
- Significance of author or subject
- Local significance or emphasis
- Literary merit
- Importance of the subject matter to the collection
- Accessibility
- Age

Exclusions

The Library does not collect the following categories of material:

- Expensive or rare items inappropriate to a public library collection
- Ephemeral material unless they have significance to the local area.
- Superseded formats
- Items prohibited by law
- Old, out of date materials unless specially acquired for the Library regional history collection.

Donations

The Library may accept donations which meet selection criteria. Acceptance of donated items does not guarantee inclusion in the collection. Items donated to the Library become the property of the Library. Donations will be assessed individually utilising the Library selection profiles.

Controversial materials

It is recognised that many materials are controversial and that a particular item may offend some members of the community. Powers of censorship are vested in Federal and State Governments and materials will not be rejected on moral, political, racial or religious grounds if it otherwise meets selection guidelines. Materials prohibited by law will not be included in the collection.

Material will be allocated to the most appropriate collection based on industry best practices and Australian classification guidelines, for example adult, young adult or junior collections.

Collection maintenance and retention

The library collection is evaluated regularly to ensure it meets the needs of our community. Evaluation of library collections will utilise a number of mechanisms including:

- Turnover statistics
- Circulation
- Online/digital usage

- Stock held
- Age of collection
- Acquisition and discard rates

Deselection of material from the circulating collection is an essential part of effective collection maintenance. Items may be deselected for several reasons outlined in the Library Weeding Procedure.

Disposal of withdrawn stock

Withdrawn stock may be:

- Gifted to approved local not-for-profit organisations;
- Resold through approved channels; or
- Recycled at the discretion of the Library in accordance with applicable standards and regulations.

Delegations

There are no delegations associated with this policy.

Legislation

The Library operates within the framework of the Library Act of NSW and its associated regulations. Relevant legislation and information informing this policy can be found at:

- ALIA Statement on Free Access to Information
- ALIA Statement on Information Literacy for All
- ALIA Statement on Online Content Regulation
- State Library of NSW Policies
- Australian Classification Board Guidelines

Current research and the collection policies of other libraries were also considered in the development of this policy.

References

There are no associated policies referenced.

Dispute Resolution

Persons raising an objection to the inclusion, or exclusion, of an item in the Library collection will be asked to provide a written explanation of their objections to the Head Librarian, citing specifics from the material in question. The Library will respond to the request in accordance with this Collection Management Policy and other applicable standards and regulations. The final decision will be made at the discretion of the Head Librarian.

Authorisation Details

Authorised by:	
Minute No:	
Date:	
Review timeframe:	January 2025
Department:	Community Services
Document Owner:	Head Librarian

Details History

Version No.	Date changed	Policy type	Modified by	Amendments made

Library Membership Policy

Policy L1-3

Authorisation Details:

Authorised by:	
Minute No:	
Date:	
Last review date:	**June 2021**
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Policy Objective

The objectives of this policy are:

- Outline the requirements for people wanting to become a member of the Muswellbrook Shire Libraries
- Outline the responsibilities and conditions of library membership

Purpose

The purpose of this policy is to outline the requirements for obtaining membership of the Muswellbrook Shire Libraries and also outline the responsibilities of library membership.

Rationale

People applying for a new library membership to borrow physical resources from the Muswellbrook Shire Libraries are required to provide adequate identification in order to do so. Library members are also required to agree to follow the library's policies and procedures.

Scope

This policy applies to all members of the public who are currently or wish to become a member of the Muswellbrook Shire Libraries. The Muswellbrook Shire Libraries services the communities who reside and work within the Muswellbrook Shire Council area.

Policy Statement

Membership

Membership to the library is free, in accordance with the requirements of the Library Act 1939.

The library offers several different categories of membership and requires formal identification for full membership to the library service, as detailed below. To be eligible for full membership, customers must live, work or attend school in NSW otherwise customers can apply for temporary membership.

Categories of Membership

Library membership is available in the following categories:

- Dependant Minor (Junior and Young Adult) – Persons under the age of 18 years may become members (including infants) provided they have permission of a parent or legal guardian. The parent or guardian should accompany the child to the library and produce current identification when signing up the Junior member. The parent or legal guardian must agree to responsibility for any return of items and payments of late/replacement fees.
- Independent Minor –Independent young adults over the age of 16 years who are living out of home may join the library by showing identification with proof of ID. Independent young adult members must agree to the responsibility for the return of items and the payment of late/replacement fees.
- Adult (Adult and Senior 65+) – Permanent residents and ratepayers of Muswellbrook Shire and of neighbouring shires may join free of charge upon application.
- Temporary Membership – Visitors and non-residents who are current members of their local public library within Australia may join as a reciprocal borrower. This type of membership is free, however a current legal identification is required.

- Institutional – Local organisations, schools and Australian library services may join the library at the approval of library management.
- Electronic Membership – residents of the Muswellbrook Shire are eligible to become digital members. Digital members are limited to accessing digital library materials only, and must show acceptable ID to become a full member.

Accepted Forms of Identification

Current Identification showing the current address must be produced prior to becoming a member. Accepted forms of documentation are listed below:

- Drivers licence
- Health care concession card
- Lease agreement
- Council rates notice
- Utility account notice
- Student card
- Bank statement with address included
- Alternate forms of ID may be accepted provided that it includes current address details and is supplied by an official third party.

Responsibilities of Membership

Applicants for general library membership receive a physical library card and the library member, or guarantor for member, assumes full responsibility for all use made of their card. By signing the membership card, the card holder agrees to comply with all library policies and procedures; to pay all fees; to be responsible for any loss or damage to materials; to provide immediate notice of any change of address and contact details; and to provide immediate notice if the card is stolen, lost or damaged.

A membership card or proof of identification is required each time a library member wishes to borrow library materials. A membership card or proof of identification is also required for members to use audio-visual equipment and public computers in line with eSmart recommendations. In the occurrence a membership card is forgotten, accepted forms of identification may be used to loan items from the library.

Suspension of Membership

Membership can be suspended due to a breach of acceptable behaviours as detailed in the *Muswellbrook Shire Libraries Overdue Procedure* and *Cyber Safety Guidelines*. Suspension of library membership is only at the discretion of the Head Librarian or higher management.

Membership Card Replacement

A replacement fee is charged for a lost or stolen membership card. No fee is charged to replace a worn out or obsolete borrower's cards. Fees for card replacement may be waived only by the Head Librarian or higher management.

Complaints

Any complaints are to be firstly directed to the Head Librarian. If the customer remains unsatisfied, they may write to the General Manager.

Legislation

New South Wales Library Act 1939

Authorisation Details

Authorised by:	Council
Minute No:	
Date:	
Review timeframe:	June 2023
Department:	Community Services
Document Owner:	Head Librarian

Details History

Version No.	Date Modified	Modified by	Amendments made
2.0	20/01/2021	L Allan	Changes to library name and scope of policy. Muswellbrook Shire Libraries no longer a member of UHLN.



Financial Reserve Management Policy

MSC20E

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1. PURPOSE

To provide the framework for the establishment and management of externally and internally restricted financial Reserves and unrestricted cash.

2. SCOPE AND APPLICATION

This policy covers both Statutory and Discretionary Financial Reserves.

This policy also covers unrestricted cash.

This policy excludes the Asset Revaluation Reserve that arises under the Australian Accounting Standards as it reflects the increments or decrements of fixed asset values as a result of an asset revaluation.

3. DEFINITIONS

Cash Backed – Money available in the form of liquid cash held in bank accounts or as investments.

Externally Restricted Financial Reserves – Reserves that are subject to external restrictions in their purpose. These Reserves are cash backed.

Internally Restricted Financial Reserves – Reserves established by Council to ensure that sufficient funds are available when required for a specific purpose. These Reserves are cash backed.

Unrestricted Cash – These are funds which are available to be used as operating capital or to cover unexpected or emergency expenses not provided for in the annual budget that is not covered by an available internal restriction.

4. STATEMENT

The establishment and management of reserves for specific purposes are a sound and prudent management strategy. All Reserves must be cash backed and included in Council's investment portfolio.

4.1 CLASSIFICATION OF FINANCIAL RESERVES

4.1.1 Externally Restricted Reserves

The purpose of each external cash restriction is contained on Schedule 2.

The following criteria apply to externally restricted Reserves:

a) The Reserve is subject to legal requirements that govern the use of the funds.

b) A Reserve will be established for any value if there is a legal requirement or a requirement under Australian Accounting standards.

c) Transfer of funds are restricted by the individual funding agreements. Council must authorise transfers by Council resolution.

d) The Reserve includes funds that have not been utilised for the purpose for which they were received, and an obligation or requirement to return funds to the contributor exist.

e) All Reserves must be fully cash backed.

4.1.2 Internally Restricted Reserves

The purpose of each internal cash restriction is contained on Schedule 1.

The following criteria apply to internally restricted Reserves:

a) The Reserve is not subject to legal requirements that govern the use of the funds.

b) The establishment of a new Reserve must be for a specific internal purpose authorised by a Council resolution and shall not be established for an amount less than $50,000.

c) Transfer of funds are restricted by the internal purpose of the Reserve. All transfers must be authorised by Council resolution.

d) The Reserve has been established for a specific internal purpose, however, if that purpose does not eventuate or Council changes its priorities the funding can be diverted to other purposes by Council resolution.

e) All Reserves must be fully cash backed.

4.1.3 Unrestricted cash

Unrestricted cash refers to monies that are not tied to a particular use. Unrestricted cash can be used for any purpose since it is not earmarked for a specific use and it is taken as an instant reservoir of the cash that can be used for the sudden monetary requirements. Unrestricted cash is extremely liquid that is why it can be use readily for any purpose when required.

An unrestricted cash amount of approximately $1,000,000 will be held at years' end subject to Council resolution.

4.2 INTEREST ON RESTRICTED CASH

Interest must be applied to external cash restrictions where required by legislation or otherwise, such as section 7.11 developer charges.

If interest is paid on internally restricted cash, the interest is paid into the General Fund.

4.3 BORROWINGS FROM RESTRICTED CASH

Council may borrow from internally restricted cash, (but not from externally restricted cash without consent from the Minister of Local Government). Any such borrowing must be authorised by resolution of Council and the full impact of the borrowing disclosed. Interest must be paid on any such borrowings.

4.4 TRANSFERS TO AND FROM RESTRICTED CASH

Funds may only be transferred into or transferred out of a cash restriction, by resolution of Council.

The authority for such transfers may be given:

a) By specific resolution in the case of a particular project the subject of a Council resolution, or

b) In the budget process, by virtue of the adoption of the Annual Budget, or

c) In the Quarterly Budget Review Statement, by virtue of the adoption of that statement by Council, or

d) By the adoption of the annual financial statements containing a schedule of restricted cash showing transfers in and out.

A transfer contained in a Quarterly Budget Review Statement must show the restricted cash item audited opening balance, the amount transferred in or out and the estimated closing balance.

4.5 REPORTING ON RESTRICTED CASH

The level of restricted cash shall be reported on in the Quarterly Budget Review Statement and annually in the Financial Statements.

Council must assess at least annually the adequacy of each internal cash restriction during the preparation of the Long Term Financial Plan and annual budget.

5. RESPONSIBILITIES /ACCOUNTABILITIES

Accountability for cash reserve management shall be the responsibility of the Executive Leadership Team.

Specific responsibilities are as follows:

Mayor & Councillors – the voting of money to or from a Reserve for use on Council works, services or operations.

General Manager & MANEX – have a responsibility to ensure that all Reserve balance changes or Reserves to be established/removed are done in consultation with the finance team and are approved by Council resolution.

Chief Financial Officer and Finance Officers – have a responsibility to ensure Reserve balances are appropriately accounted for in accordance with Council resolutions in the financial accounts and balances are reported to Council quarterly.

6. RELEVANT LEGISLATION

Local Government Act, 1993

Australian Accounting Standards

Code of Accounting Practice

7. RELATED POLICIES/DOCUMENTS

Investment (Financial Securities) Policy I20-1

Annual Financial Statements

Long Term Financial Plan

Quarterly Budget Reviews

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Schedule 1

Name and Purpose of Internal Cash Restrictions held

Name of Internal Cash Restriction	Purpose of Restriction	Calculation Basis
Employee Leave Entitlement (ELE)	To ensure that adequate funds are available to fund employee leave entitlements such as long service leave, and annual leave.	The amount of this Reserve is based on a formula calculated by reference to average brackets and total leave accruals. Age Band: % of Gross Entitlement 60+: 100% 55-60: 60% 50-55: 30% 45-50: 20% <45: 10%
Asset Replacement	To ensure adequate funds are available to replace existing assets across the Council area to their previous level of service.	The annual transfer to this Reserve is based upon projects adopted in the IP&R strategies and plans. The annual transfer may also consist of budget savings on completed works and budgeted projects not carried out.
Future Fund	This Reserve consists of funds set aside for the acquisition, development, demolition or disposal of commercial property assets and to sponsor projects and initiatives to create jobs and improve education and training outcomes in the local community.	Any surplus generated by the future fund business, after allowing for operating and capital expenses, will be added to this reserve on an annual basis. The annual transfer to this Reserve is based upon projects adopted in the IP&R strategies and plans.
Carry Over Works – General Fund	To carry over unspent funds for uncompleted capital and operational works as agreed by Council resolution.	The annual transfer to this Reserve is the remaining (allocated) unspent budget required to complete the adopted Council works in progress at financial year end.
Plant Replacement	To be able to internally fund replacement of plant and vehicles at the optimal time.	The amount of this Reserve is based on an internal hire rate which is determined by the actual purchase price plus operating expenditure (including depreciation) less proceeds of sales.

Name of Internal Cash Restriction	Purpose of Restriction	Calculation Basis
Insurance	To fund insurance excess amounts for public liability and property claims on Council assets.	The amount of this Reserve is based on three times the excess amount of the public liability and property insurance policies.
Risk Management	To fund identified risk mitigation programs (staff and/or infrastructure) which are aimed at reducing Council's liability.	The annual transfer to this Reserve is based on the value of StateWide and StateCover rebates and incentives received during the financial year.
Legal	To fund unexpected legal expenses above the annual budgeted amount.	The amount of the Reserve is based on past legal expenses trends and maintained at a minimum of $50,000.
Information Technology (IT)	To fund replacement of hardware and upgrades to the current IT system.	An annual transfer to this Reserve is the equivalent value of asset depreciation as per Note 9 of the Annual Financial Statements less the written down value of equipment sold throughout the relevant financial year or sale proceeds whichever is the higher.
Waste Management	To fund future transfer stations and landfill new cell development and remediation.	Funds transferred to and from this Reserve represent any surplus or deficit operating results on operations for the financial year.
Deposits, Retentions and Bonds	Funds that are temporarily held under Council policy arrangements.	Funds transferred to and from this Reserve represent deposits, retentions and bonds as part of Council's ongoing operations.

Schedule 2

Name and Purpose of External Cash Restrictions held

Name of External Cash Restriction	Purpose of Restriction	Calculation Basis
Developer Contributions	This Reserve contains section 7.11 and section 64 contributions received from developers in accordance with conditions applied to development applications, subject to constraints imposed by other legislation.	Funds will be allocated as part of the annual budget process, any unspent funds received within any financial periods will be constrained for future use.
Unexpended Government Grants and Contributions	This Reserve includes funds received from State or Federal Governments by way of a specific advance or grant or a contribution that is constrained or tied to a specific project or purpose, subject to contractual obligations or other legislation.	Funds will be expensed in line with funding conditions and individual funding agreements.
Water Supplies	This Reserve consists of funds set aside for future replacement of water related assets across the Council area and water capital works projects not completed in previous years.	Any surplus generated by the water business, after allowing for operating and capital expenses, will be added to this reserve on an annual basis. The annual transfer to this Reserve is based upon projects adopted in the IP&R strategies and plans.
Sewerage Services	This reserve consists of funds set aside for future replacement of sewer related assets across the Council area and sewer capital works projects not completed in previous years.	Any surplus generated by the sewer business, after allowing for operating and capital expenses, will be added to this reserve on an annual basis. The annual transfer to this Reserve is based upon projects adopted in the IP&R strategies and plans.
Domestic Waste	This reserve consists of funds set aside for future replacement of domestic waste related assets across the Council area and domestic waste capital works projects not completed in previous years.	Any surplus generated by the sewer business, after allowing for operating and capital expenses, will be added to this reserve on an annual basis. The annual transfer to this Reserve is based upon projects adopted in the IP&R strategies and plans.

Borrowing Policy

MSC13E

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1. INTRODUCTION

This policy sets out Council's loan borrowing requirements, both internal and external and the use of any overdraft facility, with consideration given to the following primary objectives:

- Ensure that all borrowings (both internal and external) are in accordance within relevant legislative provisions.
- Ensure the total amount of the loan borrowings is sustainable in terms of Council's ability to meet future repayments and budgetary obligations.
- To detail Council's planned financial management strategy for existing and future debt.
- Minimise the cost of borrowing.
- Meeting industry best practice in respect to Council's Debt Service Ratio.
- Have regard to the long term and cumulative effects of Council's decisions.
- Exercise reasonable care and diligence that a prudent person would exercise when borrowing funds.

2. POLICY STATEMENT AND SCOPE

2.1 Principles

Borrowings are not a form of revenue and do not replace the need for Council to generate sufficient operating revenue to service its operating requirements.

Council aims to finance capital works and new assets to the greatest extent possible from revenue, grants, subsidies or any specific reserves primarily established to fund capital works.

It is Council's aspiration to fund depreciation, and restrict those funds into an internal reserve, for the purpose of funding capital works.

Existing assets, that are due for renewal are to be replaced from the funding of depreciation costs, with the exception of "lumpy" assets, where borrowing may be used, and the funded depreciation used to repay the loan, both principal and interest.

Council will not enter into any financing arrangements which involve the repayment of interest only.

Council will restrict all borrowings to expenditure on identified capital projects that are considered by Council to be of the highest priority, and which are unable to be funded from revenue. Under no circumstances will Council borrow funds for recurrent expenditure.

New assets, that are income producing, may be funded from debt.

Where a capital project for a service that is funded by user charges (e.g. waste, water or sewer) is determined to be funded by way of loans, the user charge should reflect the cost of providing the service (including any loan repayments).

Other specific capital projects, not funded by user charges, will only be considered for loan funding where the project is considered by Council to be beneficial to the majority of ratepayers.

Financing of major infrastructure assets requires a strategic approach to evaluate the risk exposure to Council.

In considering the impact of borrowing on council's budget council will be guided by:

- The Long Term Financial Plan resourcing the Community Strategic Plan.

- The relevant Asset Management Plan or Integrated Water Cycle Management Plan informing the Community Strategic Plan.
- Achieving the benchmark Operating Result Ratio.
- Achieving the benchmark Asset Renewal Ratio.
- Debt service ratios.

2.2 Scope

The following provides some context for the above principle points.

When to use debt?

The use of debt is closely linked to the concept of intergenerational equity. Operating and asset renewal expenses should be paid by current residents and therefore current revenue. Expenditures that provide benefits over many years should be paid for by users that benefit from the works over its economic life. This cannot be achieved by accumulating current revenues for future expenditure but is achieved by using current revenues to fund loan repayments over the life of the asset.

Debt is also appropriate where the expenditure results in a reduction of operating costs or an increase in operating revenues that cover the cost of borrowing. There may also be emergency situations where works are required urgently to avoid significant risks or escalations in remediation costs.

How will a project be approved for funding?

Assessment of a project will incorporate the following mandatory analysis:

Council Priorities

Does the project outcome support an objective of Councils Strategic Priorities?

Community Expectations

The project outcome must align to an action adopted under the Community Strategic Plan and Council's Delivery Program.

Asset Management

Is the expenditure programmed in the appropriate Asset Management Plan adopted by Council under the integrated planning and reporting provisions of the Local Government Act?

Will the project contribute to Council maintaining its Asset Renewal Ratio at or above the industry Asset Renewal Ratio benchmark?

Financial Management

Have the operating and capital cost of a project been accurately assessed and entered into Council's Long Term Financial Plan to determine the financial impact of a project and the capacity for Council to maintain a positive Operating Result Ratio?

Risk Management

All projects shall be evaluated under the Project Risk Assessment Matrix and identified risks will be mitigated or managed as documented in the risk assessment.

When is debt affordable?

Debt is affordable where the works are self-funding either from reduced operating costs or an increase in revenues or the net result of both. Alternatively, debt is only affordable if the

relevant fund has an operating surplus sufficient to cover the loan repayments. Operating revenues should be able to cover cash operating expenses as well as non-cash accruals for leave entitlements, depreciation and remediation, before committing to loan repayments, for the fund to be financially sustainable. The fund is required to maintain a positive Operating Result Ratio to achieve industry benchmarks.

What are appropriate sources and terms of debt?

The Office of Local Government will set controls for borrowings which may change at any time and Council needs to keep aware of these through the related legislation and references below. Council will not indulge in speculative debt arrangements and will adhere to standard table loans with set monthly, quarterly or bi-annual instalments and rates fixed for at least five years. Repayment periods will not exceed the economic life of the works to ensure intergenerational equity.

2.3 External Loans

In considering the need for new loans, the following criteria will be analysed:

- Any proposed borrowing amounts must be contained in Council's Long Term Financial Plan, Delivery Program and Operational Plan.
- Current and estimated future revenues - Where possible loans should only be raised for income producing products, however this will not apply to non-income generating assets such as roads and stormwater drainage, these works will only be considered if the project can demonstrate long term savings by bring works forward.
- Strategic planning for the future of the Council covering short, medium and long term.
- Inter-generational equity considerations in terms of ratepayers who benefit from the expenditure and therefore on a user pay basis, who should pay for the costs associated with such expenditure.
- Current and future funding needs for both operating and capital expenditures.
- Potential movements in interest rates and associated debt servicing costs.
- Ensure where possible that the structure of the borrowing is appropriate for the nature of the asset being funded.
- Any other strategic imperative that is linked to revenue and expenditure capacities.

2.4 Terms of Loans

The term of the loan should not exceed the expected economic life of the asset being funded, subject to the maximum periods below.

Borrowing Amount	Term
$500,000 to $1,000,000	Maximum 5 years
$1,000,000 to $2,000,000	10 years
$2,000,000 to $5,000,000	20 years
Greater than $5,000,000	30 years

2.5 Determination of Appropriate Lending Institution

Once borrowing has been approved by Council, within its Delivery Plan and annual budget, a quotation process will be conducted whereby appropriate lending institutions (ADIs) will be invited to submit written quotations on Council's borrowing requirements.

Quotations/Tenders will be sought from ADIs with a long-term credit rating of A- or above in order to determine the appropriate lending institution for any new or renewal loan borrowings.

Written quotations/tenders must include:

- Interest rate - may be fixed or variable for the term of the loan;
- Term of the loan;
- Repayment intervals (monthly, quarterly or bi-annually);
- Repayment instalment amount (principal and interest only);
- Any applicable fees;
- Appropriate and acceptable documentation must be provided to Council by any prospective lender during the quotation/tender process; and
- The calculation for any loan break costs must be clearly set out in the loan documentation.

As Muswellbrook Shire Council has been deemed "Fit" under the NSW Government Local Government Reforms, Council is able to access the Statement Government borrowing facility. This borrowing facility is managed by NSW Treasury Corporation (TCorp). The minimum TCorp loan is $1,000,000 and Council would also need to meet TCorp's rules in relation to its investment portfolio credit rating breakdown across the financial institutions it invests with.

2.6 Borrowing Authorisation

The authority to authorise loans and/or Council funding requirements is vested with Council by virtue of the Local Government Act, 1993. No officer of Council is authorised to undertake the establishment of a new loan facility without the authorisation of Council.

Council must have resolved to borrow funds as part of its Delivery Plan, Operational Plan, emergency circumstances and annual budget, before funds are borrowed.

The General Manager has the authority to accept loan offers, subject to the borrowing amount being previously approved by Council and the requirements of this policy being adhered to.

Council will be advised of the terms of the loan once finalised.

The Borrowings Return form must be submitted to The Office of Local Government (OLG) by July each year, outlining Council approved loan borrowings for the following financial year.

The Finance team will periodically review the debt portfolio to ascertain if there is an opportunity for refinancing which will deliver positive outcomes to Council.

2.7 Legislative Authority for Investments

The following legislation, circulars or guidelines are relevant to Councils when considering loan borrowing

- Local Government Act 1993
- Local Government (General) Regulation 2005
- Minister's Borrowing Order

- Local Government Circular 09-21

2.8 Limitations

Current borrowing restrictions are prescribed in the Local Government Borrowing Order which states:

A council shall not borrow from any source outside the Commonwealth of Australia nor in any current other than Australian currency.

Council has also determined that in addition to this the following limitations will apply:

- That the total amount of borrowings outstanding assets, excluding the Future Fund, is not to exceed 2.5 times the total amount of Ordinary Rates, including Special Rates and Annual Charges, in any one year, and
- That the total amount of borrowings is not to exceed a Debt Service Ratio of 20% (as disclosed in the Fit for the Future documentation)

2.9 Internal Borrowing

From Externally Restricted Funds

Internal loans from externally restricted funds do not need to be included in the Office of Local Government (OLG) "requested borrowing" return. Internal loans from externally restricted funds must have Ministerial approval before the internal loan can be drawn.

Section 410(3) of the Local Government Act, 1993 NSW states:

"Money that is not yet required for the purpose for which it was received may be lent (by way of internal loan) for use by the council for any other purpose if, and only if, its use for that other purpose is approved by the Minister."

From Internally Restricted Funds

The use of internally restricted funds is not considered to be an internal loan by the OLG. The use of internally restricted cash for a purpose that is different from its original purpose requires a resolution of Council.

Council has determined funds can be borrowed from Internally Restricted Reserves as a replacement for an external loan borrowing, on the basis:

- That the interest rate to be charged is pegged at 0.25% below the external rate
- Funds can be borrowed internally, within the Section 94 Reserve, only for the purpose of other Section 94 works and cannot be used to fund works that are not part of the Section 94 works schedule

2.10 Borrowing Redemption

When surplus funds exist, the decision to repay borrowings shall be made on the facts available at the time with consideration of impact on Council's Long Term Financial Plan and giving due regard to minimising the overall cost to the organisation.

Loans will only be paid out early if there is a significant net financial benefit to Council.

2.11 Overdraft

Council has an overdraft facility of $750,000 established with Westpac Banking Corporation.

The overdraft facility is only used for short term unavoidable and essential cash flow purposes.

Council's finance staff will generally avoid the use of the overdraft facility via careful cash management practices that ensures sufficient funds are available to fund daily expenditure requirements.

2.12 Compliance and Monitoring

A reconciliation of all borrowings, including the weighted average interest rate of borrowings and accrual of interest, will be completed by the Responsible Accounting Officer and reported quarterly to the Finance Committee.

3. REFERENCES

Laws and standards	• Australian Accounting Standards • NSW Office of Local Government – Local Government Code of Accounting Practice & Financial Reporting • NSW Office of Local Government Borrowing Circulars • NSW Office of Local Government Capital Expenditure Guidelines • Local Government (General) Regulation 2005 • Local Government Act 1993 • Minister's Borrowing Order (gazetted)
Policies and procedures	• Code of Conduct • Financial Management Policy • Procurement Policy • Disciplinary Policy & Procedures • Internal Reporting Public Interest Disclosures Policy • Fraud and Corruption Prevention Strategy

4. DEFINITIONS

Term	Meaning
Annual charges	Has the same meaning as determined by the Local Government Act.
Asset renewal ratio	$\frac{\text{Asset Renewals}}{\text{Depreciation, Amortisation \& Impairment Expense}}$ This ratio measures Council's ability to renew assets at a rate equivalent to or greater than the consumption expense of Council's assets each year. Industry benchmarks require a ratio of 1 or above.
Borrowing	Cash received from another party in exchange for future payment of the principal, interest and other finance charges.
Borrowing costs	Interest and other costs that an entity incurs in connection with the borrowing of funds.
Borrowing facility	A loan that is not drawn down (borrowed against) completely when approved but allows for a series of timed borrowings, over a period of time, up to the maximum of the facility. These are generally used for property development.
Debt service ratio	The debt service cover ratio is calculated as: $\frac{\text{Operating result before capital excluding interest and depreciation/impairment/amortisation}}{\text{Principal repayments (Statement of Cash Flows) plus borrowing costs (Income Statement)}}$

Term	Meaning
	This ratio measures the availability of operating cash to service debt including interest, principal and lease payments (The OLG consolidated key performance indicator is greater than 2)
Emergency circumstances	An unforeseen, serious, unexpected or dangerous situation requiring immediate action
External borrowings	Includes raising and obtaining, in any way, money, credit and other financial accommodations from sources external to Council.
Loan break costs	Costs associated with paying out a loan prior to the loan expiry date.
Loan facility	A line of credit providing access to borrow money up to a particular amount.
Long term credit rating	A forward looking opinion about credit risk, by a recognised and reputable rating agency, as allowed under the Ministerial Investment Order.
Long Term Financial Plan	Council's Ten (10) year budget maintained in its resourcing strategy in accordance with Section 403 Local Government Act, 1993
Lumpy assets	Assets that when due for renewal will require funding that is greater than two years of renewal funding for that particular assets, as defined in the Asset Management Plan (AMP) and Sub-Plans. An example would be the replacing the roof on a building.
Operating result ratio	$\frac{\text{Operating Revenue excluding Capital grants \& Contributions less Operating Expenses}}{\text{Operating Revenue excluding Capital grants \& Contributions}}$ This ratio measures Council's achievement of containing operating expenditure within operating revenue. The industry benchmark is greater than or equal to break even average over three years.
Ordinary rates	Has the same meaning as determined by the Local Government Act.
Overdraft facility	A flexible line of credit providing access to funds to manage the day to day cash flow needs of an organisation
Security	In accordance with the Local Government Act, security for any loan will only be given over the future Ordinary Rates of Council.
Renewal funding	The annual amount of funding that is required to be raised and held, that is equivalent to straight line depreciation of the total value of the asset over the useful life of the asset, being the renewal intervention life. For roads it is 45 years, whilst 50 years is considered the failure point.
Variable interest	Interest that fluctuates over the life of the loan and is usually pegged to a benchmark rate, such as the bond rate.

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Financial Management Policy

Policy No MSC21E

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1. Policy Objectives

- Provide certainty about the roles, responsibilities and process for preparing, approving and amending the annual and delivery program budget.
- Ensure that budget variations are considered on a strategic basis.
- Maintain financial sustainability by ensuring that the long-term financial outlook is considered in decision making.
- Maintain financial sustainability by ensuring that Muswellbrook Shire Council (Council) is regularly informed of trends that may impact on the annual budget and long-term financial outlook.
- Ensure compliance with approved budget resource allocations.

2. Definitions

Term	Definition in regard to this policy
Estimate or Allocation	The amount of money provided in the budget for an individual program or purchase. The amount of revenue estimated to be derived from a particular source.
Budget	The document adopted by Council outlining estimates made regarding Council's Operating and Capital activities for the Financial Year. Any changes made by Council either through resolution or adoption of the Quarterly Budget Review are deemed to form part of the budget.
Business Unit	A distinct portion of the Council's operations, under the control of a single manager that consolidates a series of related programs.
Finance Committee	The Committee established by Council to oversee matters related to the financial control of Council.
Funding	The means by which the allocations made are made available for the activity or purchase.
MANEX	Council's Management Executive Group
Materiality	An amount by which the over expenditure or under receipt of an estimate might cause Council to need to take a significant action or to reallocate significant financial resources. Amounts considered to be material for the purposes of this policy are outlined in the table within the policy.
Program	An operation undertaken by a Business Unit or under a Capital Works Program for which a separate and distinct allocation has been made.
Quarterly Budget Review	The formal process by which Council reviews all financial estimates against actual expenditure and revenue at that time and responds to instances where actual results are not in line with estimates. These are conducted at the end of the September, December, March and June quarters.

Term	Definition in regard to this policy
Net Operating Result	The result shown in the budget pertaining to a particular Business Unit after taking into account the revenues and expenditures pertaining to that Business Unit.
Responsible Accounting Officer	The staff officer appointed to this role in accordance with clause 196 of the Local Government (General) Regulation 2005

3. Scope

This policy relates to:

All officers who have a financial responsibility within Council, with a particular focus on the Mayor, Councillors, General Manager, Deputy General Manager, Chief Engineer, Executive Managers, Managers, Directorate Finance Officers and nominated Budget Owners.

4. Policy Statement

Council accepts the importance of adopting a budget with estimates that allow for the effective operation of Council's activities. Council also accepts the need to ensure that, once adopted, the estimates made are strictly adhered to, with all material instances of non-adherence being reported in a timely manner to the appropriate forum.

This policy seeks to outline how Council will comply with clause 202 of Local Government (General) Regulation 2005 which states:

> *202 The Chief Financial Officer is to maintain a system for budgetary control:*
>
> *The Chief Financial Officer of a council must:*
>
> *a) Establish and maintain a system of budgetary control that will enable the council's actual income and expenditure to be monitored each month and to be compared with the estimate of the Council's income and expenditure, and*
>
> *b) If any instance arises where the actual income or expenditure of the Council is materially different from its estimated income or expenditure, report the instance to the next meeting of the Council.*

In regard to clause (a) of the Regulation, a reporting system will be maintained that allows staff ongoing oversight of current actual revenues and expenditures compared with the estimate. All instances of actual or likely non-compliance with the estimate are to be reported to MANEX on a monthly basis.

In response to clause (b) of the Regulation, Council deems the following reporting processes to be appropriate.

- Where the variance from the estimate is deemed to be favourable i.e. the actual expenditure is materially less than the estimate on or the actual revenue is materially more than the estimate, then the matter will be considered as part of the next Quarterly Budget Review process. This will allow the matter to be considered in conjunction with the financial situation as a whole.
- Where the variance from the estimate is deemed to be adverse i.e. the actual expenditure is materially greater than the estimates or the actual revenue is materially less than the estimate then the matter must be reported to the next Council meeting in accordance with the Regulation.

- In order to determine the most appropriate forum for the reporting of any material expenditure over the estimate or the under receipt of estimated revenues, staff shall have regard to the materiality of the matter. For the purposes of this Policy, the situation shall be considered material when the amount of over expenditure or under receipt of the estimate is within the ranges set out in the table below:

Amount of Estimate	Amount Considered to be Material
Less than $200,000	More than $10,000
Between $200,000 and $1,000,000	5% of the allocation
Greater than $1,000,000	More than $50,000

Where the instances of non-adherence are not deemed to be material, the matter shall be considered as part of the next Quarterly Budget Review process. In the event that it has become clear that a material adverse variance (i.e. the over expenditure or under receipt of an estimate) is likely to occur, the matter must be reported to the next meeting of Council or through the next Budget review Process. In making this decision, consideration will be given to the timing of the variance occurring, the ability to reschedule or halt works underway in accordance with the allocation while a decision is being made, the amount of the expected variance and the ability to maintain the Net Operating Result of the Business Unit after taking the variance into account.

For the purposes of this Policy, the estimates and actuals shall be compared at the Program level.

With regard to the alteration of estimates during the course of the year, this may be undertaken in two (2) ways:

- Through the Quarterly Budget Review process.
- Through a resolution of the Council.

During the Quarterly Budget Review process staff will review the actual and expected performance against the relevant estimates and propose a series of alterations to the original estimates to the Finance Committee. In the development of these proposed changes the following principles will be applied:

- The overall Operating Result for each Fund will at least be maintained or preferably improved.
- Proposals for changed estimates at a Program level will be balanced off as far as possible with changes in the estimate for other Programs within the same Business Unit. The aim is to at least maintain the budgeted net result applicable to the Business Unit. Where this is not possible the change to estimate may be balanced off against savings or increased revenues in other Business Units.
- Where there is a favourable budget variance, the resultant 'gain' does not automatically belong to the directorate and should be made available for Council to consider the most appropriate corporate allocation.
- Where there is an unfavourable variation that is unable to be funded by the directorate, the matter should be referred to the Chief Financial Officer to identify an offsetting funding source.
- Commercial business activities must submit a balanced budget review. Any variation in 'returns' from commercial business activities must be referred to the Chief Financial Officer for comment.

5. Items to be Considered by the Finance Committee

The Finance Committee will be provided with the following information:

Quarterly

- A full Budget document showing the original estimates, actual amounts and any proposed altered estimates.
- A list of all proposed changes to operating expenditure or revenue estimates greater than $10,000.
- A list of all proposed changes or reallocations within the same budget centre to capital expenditure or revenue estimates greater than $10,000.
- A list of all Reserves showing opening balance, approved transfers from/to, proposed movements from/to and estimated closing balance as at 30 June.
- Reports showing revenue and expenses by Type and By Business Unit
- A report on proposed changes in the review, outlining the financial impact of proposals and highlighting any significant proposed changes to estimates that may impact on Council's financial sustainability.
- A report on projects that have funding sources consisting of reserves, grants, loans or a combination of the same that details; budget, funding source, funding source amount used/drawn down to date, expenditure to date, expected expenditure to completion and expected completion date.

Monthly

- Financial reports at Income Statement level which provide expenditure and revenue trends but make no recommendations in terms of estimate variations for:
  - General Fund
  - Water Fund
  - Sewer Fund
  - Future Fund
- Investment reports detailing:
  - Portfolio Valuation Report
  - Trading Limit Report

6. Funding of Proposals Outside of the Quarterly Budget review Process

Proposals may only be submitted to Finance Committee outside of the Quarterly Budget Review process with the approval of the General Manager.

All items required to be presented to the Finance Committee should be presented to the same meeting as the quarterly budget review except where:

- Time is of the essence e.g. grant funding opportunities, acquisitions, expediency of work scheduling, unforeseen issue that needs to be addressed prior to the next quarterly review.
- A particular issue needs to be addressed urgently in the interest of the Community or Council.
- The item is of a complex nature and may need to be considered at more than one Finance Committee meeting.

- A proposal or issue that can be appropriately considered outside of the quarterly budget review process e.g. review of Council's long-term financial position.

Regardless of the timing of consideration by the Finance Committee, all items should be considered in the context of Council's overall short and longer term financial position.

In a situation where a budget variance is to be funded from existing funds, the report must clearly identify the source of funds to be transferred and the reason that the funding source is not required for its original purpose and the impact of not spending the funding for its original purpose. All stakeholders must be consulted in relation to the transfer of funds and this consultation should be included in the report.

Estimates can also be altered by resolution at a meeting of Council. In such instances, staff shall provide a report that outlines the following:

- The need for the altered or new estimate.
- The quantum of the altered or new estimate.
- The source of the funding that is required to allow for the altered or new estimate.

Council may also provide for contingency estimates in either the Operating or Capital Budgets. In using these funds, the General Manager is delegated authority to make payment in relation to an event or matter that has arisen in the normal course of Council's business but was unexpected in terms of either the nature (i.e. it was an event that could not have been reasonably expected) or scale (the cost of the event is greater than could have been reasonably expected) of the event or matter. The allocation may also be used in the case of a good or service being required urgently and no other appropriate allocation is available. The contingency allocation is not intended to be used as a source of funding for new activities, actions or goods.

When the contingency allocation is used, the contingency allocation is reduced and the allocation for the appropriate Activity is increased. These proposed changes will occur at the next Quarterly Budget Review.

In instances where an allocation needs to be altered so urgently that the processes outlined above are not practicable, the Mayor may authorise the alteration in accordance with the provisions of Section 226 of the Local Government Act 1993.

7. General Principles

7.1 Annual Budget Position

Under no circumstances is the annual budget allowed to go into a deficit position. If the annual budget is likely to go into a deficit position due to a high priority unfavourable variation, a corresponding favourable variation must be identified to balance the budget.

The annual budget must align with and as far as possible support the delivery of the annual Operational Plan.

7.2 Long Term Financial Outlook

All variations to the annual budget must give consideration to the long-term financial outlook of Council.

If a proposed variation is likely to impact on the four year Delivery Program or a future budget, the impact needs to be fully disclosed in the item/justification to Council.

If an item is likely to have a significant or material impact on future budgets or the long-term financial outlook of Council, a separate report is required that includes an impact statement from the Chief Financial Officer. Judgement needs to be exercised in assessing whether a particular

matter has a significant or material impact on the financial outlook of Council. If uncertain, the item should be discussed with the General Manager.

7.3 Salaries and Wages

An amount of money will be included in the budget that allows for probable progression in line with the Local Government (State) Award.

7.4 Recurrent and Non-Recurrent Estimate Variances

Any variation to a budget must also be identified in terms of 'Recurrent' or 'Non-Recurrent', as defined below:

Recurrent Budget – may be considered as a 'base budget' which represents the current level of service provided on an ongoing basis.

Non-recurrent Budget – may be considered as any expenditure/revenue budget that is not ongoing and may be approved for a limited period only.

Budgeted funds cannot be transferred between recurrent and non-recurrent.

The covering report for the budget variation is to provide a summary of the recurrent variations included in the review and the effect of the proposed variations on future budgets.

8. Legislation

- Local Government Act 1993
- Local Government (General) Regulation 2005
- Local Government Code of Accounting Practice

9. Associated Council Documentation

- Community Strategic Plan
- Operational Plan
- Delivery Program
- Long Term Financial Plan
- Asset Management Plans
- Revenue Policy
- Resourcing Strategy
- Workforce Plan

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2	22/12/20	Finance Committee	Major re-write



muswellbrook shire council

Investment (Financial Securities) Policy

MSC14E

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1. INTRODUCTION

The Investment Policy establishes the framework within which Council's cash and investment portfolio will be managed, monitored and reported on. This policy has been established in compliance with section 625 of the Local Government Act 1993 and provides guidance for the investment of Council's funds, with consideration given to the following primary objectives:

- Preservation of capital. Preservation of capital is the principal objective of the investment portfolio. Investments are to be placed in a manner that seeks to safeguard Council's cash and investments portfolio. This includes managing credit and interest rate risk within identified thresholds and parameters.
- Maximise investment returns within Council's risk appetite as outlined within this policy. Investments are expected to achieve a market average rate of return in line with Council's risk tolerance.
- Manage Council's cash resources to ensure sufficient liquidity to meet Council's business objectives over the short, medium and long term.

The policy reinforces Council's ongoing commitment to maintain a conservative risk and return portfolio, an important component of its ongoing prudent financial management practices.

For clarity, this policy does not apply to investments made by the Future Fund that operates under the Future Fund Policy, Operational Plan and Budget.

2. POLICY STATEMENT AND SCOPE

2.1 Funds for Investment

Investments are maintained to meet specified business needs, including:

- Strategic purposes consistent with Council's long-term strategic plan.
- Holding short-term investments for working capital requirements.
- Holding investments that are necessary to carry out Council operations consistent with annual long-term plans.

2.2 Legislative Authority for Investments

All investments are to be made in accordance with:

- Australian Accounting Standards
- NSW Office of Local Government Investment Circulars
- NSW Office of Local Government Investment Policy Guidelines
- Local Government (General) Regulation 2005 - Clause 212
- Local Government Act 1993 (particularly section 625)
- NSW Local Government Code of Accounting Practice and Financial Reporting
- Minister's Investment Order (gazetted)
- The Trustee Amended (Discretionary Investments) Act 1997 - Sections 14A(2), 14C(1) and (2)

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2.3 Investment Governance

The following internal control practices are in place to ensure adequate governance and allow transparent and clear performance measurement for the management of Council's cash and investment portfolio:

- Financial planning and cash flow management
- Delegated authorities and investment approval
- Measurement of investment performance
- Performance benchmarks
- Reporting and review
- Audit oversight

2.4 Delegation of Authority

Authority for the implementation of the Investment Policy is delegated by Council to the General Manager in accordance with the *Local Government Act 1993.*

The General Manager (GM) has delegated the day-to-day management of Council's investment portfolio, including authority to invest surplus funds as follows:

- Chief Financial Officer (CFO)
- Other senior financial officers who have the requisite skills to undertake investment functions (as per the Delegations Register)

Officers with delegated authority are required to acknowledge they have received a copy of this policy and understand their obligations in this role.

2.5 Prudent Person Standard

The investment portfolio will be managed with the care, diligence and skill that a prudent person would exercise. As trustees of public monies, officers are to manage Council's investment portfolio to safeguard the portfolio in accordance with the spirit of this Investment Policy, and not for speculative purposes.

2.6 Ethics and Conflicts of Interest

Officers shall refrain from personal activities that would conflict with the proper execution and management of Council's investment portfolio. Any potential conflicts of interest should be appropriately disclosed in accordance with Council's Code of Conduct.

Independent advisors are also to declare that they have no actual or perceived conflicts of interest and receive no inducements in relation to Council's investments.

2.7 Approved Investments

Current investment regulations require Councils to invest with either the NSW Treasury Corporation (NSW TCorp) or Approved Deposit-taking Institutions (ADI) such as Australian banks or branches of foreign owned banks, credit unions and/or building societies as it acknowledges the additional assurance that arises from their regulation by the Australian Prudential Regulation Authority (APRA).

Investments are limited to those allowed by any current Ministerial Investment Order that has been issued by the NSW Minister for Local Government.

2.8 Prohibited Investments

In accordance with any current Ministerial Investment Order, this investment policy prohibits but is not limited to any investment carried out for speculative purposes, including:

- Derivative based instruments
- Collateralised Debt Obligations (CDO's)
- Principal only investments or securities that provide potentially nil or negative cash flow
- Standalone securities issued that have underlying futures, options, forward contracts and swaps of any kind.

This policy also prohibits the use of leveraging (borrowing to invest) of an investment.

2.9 Local Economic Benefit

Council will give consideration to investment products from institutions that provide a direct economic benefit to the Muswellbrook Shire community. This may include:

- Institutions that operate a retail branch in the Shire
- Institutions specifically established for the purpose of investing in the local area such as local credit unions

This is conditional upon the Council complying with its other obligations under this policy and the achievement of comparable investment security and rates of return. Any such consideration will be in line with the Council's obligations under legislation and its purchasing policies and procedures.

2.10 Investment Advisor

In managing its investments Council may, from time to time, engage the services of an independent investment advisor, licensed by the Australian Securities and Investment Commission for the purpose of achieving the aims of this policy. Independence includes receiving no commissions or other benefits in relation to the investments being recommended or reviewed, except as fully rebated to Council, promptly.

The independent advisor will review and assess the market value of the investment portfolio on a monthly basis.

Council's investment advisor is required to provide written confirmation that they do not have any actual or potential conflicts of interest in relation to the investments they are recommending or reviewing, including that they are not receiving any commissions or other benefits from the product providers in relation to the investments being recommended or reviewed.

2.11 Mandatory Investment Criteria

2.11.1 Scope

Investments must comply with the legislative authorities as described in the Legislative Authority for Investments paragraph of this policy.

2.11.2 Placing Investments

All new and renewal investments must be authorised by two (2) senior financial officers of Muswellbrook Shire Council one of which will be the Chief Financial Officer.

2.11.3 Currency

Investments must be denominated in Australian Dollars.

2.11.4 Ownership

Investments must be held in Muswellbrook Shire Council name.

2.11.5 Term / Maturity

The term to maturity of investments may not exceed the periods shown below:

Investment	Maximum term
Fixed Rate Term Deposits	5 years
Floating Rate Notes (FRNs)	5.5 years
Other Investments	10 years

2.11.6 Risk Management Framework

Council's risk profile in relation to investing surplus funds is to be relatively prudent, conservative and risk averse. The profile will be achieved by effectively managing within the investment portfolio:

- The diversity of the investments
- The creditworthiness of the investments

Diversity is achieved by placing limits on the maximum exposure Council may have to individual funds or financial institutions and individual credit rating bands.

Creditworthiness of investments is primarily determined using industry standard credit ratings.

Investments are to comply with three key risk management criteria:

- Overall Portfolio Credit Framework: limit overall credit exposure of the portfolio
- Institutional Credit Framework: limit exposure to individual institutions based on their rating
- Term to Maturity Framework: limits based on maturity of securities

Overall Portfolio Credit Framework

To control the credit quality of the entire portfolio, the following credit framework limits the percentage of the total portfolio exposed to particular credit rating categories.

Credit rating agencies apply short-term ratings to investments with 12 months or less to maturity and long-term ratings to those with greater than 12 months to maturity.

Short-term credit rating	Long-term credit rating	Overall portfolio exposure (as a % of Total Portfolio)
A-1+	AAA	100%
A-1	AA	100%
A-2	A	70%

Short-term credit rating	Long-term credit rating	Overall portfolio exposure (as a % of Total Portfolio)
A-3	BBB	60%
Unrated	Unrated	10%
NSW Treasury Corp Deposits		100%
TCorp IM Funds (allowable under the Ministerial Order)		25%

- Credit ratings apply to both products and institutions. This policy requires the rating applicable to the institution responsible for the product (e.g. guarantor) to be taken as the relevant rating given this represents the underlying risk to Council.
- Credit risk investment parameters are based on credit rating bands as published by the credit rating agencies (e.g. S&P, Moody's, Fitch). If an investment is rated by more than one ratings agency, the credit rating to be used will be based on the order of S&P, Moody's and then Fitch. In the event of disagreement between agencies as to the rating band ("split ratings") Council shall use the higher in assessing compliance with portfolio policy limits, but for conservatism shall apply the lower in assessing new purchases.
- Where the principal amount and accrued interest of any investment with a financial institution are directly guaranteed by the Australian Federal Government for full repayment, the exposure of the total portfolio to credit ratings lower than AAA may be exceeded, provided that the excess amount comprises only guaranteed investments. As a result, investments directly guaranteed by the Australian Federal Government may comprise the total investment portfolio. Management should ensure that any excess of investments over the parameters specified in the table above that is comprised of Australian Federal Government guaranteed investments can be managed back to within the specified parameter levels prior to the expiration of any such guarantee.

Institutional Credit Framework

Council's exposure to an individual institution will be restricted by their credit rating so that single entity exposure is limited.

Where Council has short-term and long-term holdings with the same institution, the limit associated to the institution's long-term rating will be used.

Short-term credit rating	Long-term credit rating	Individual institution exposure (as a % of Total Portfolio)
A-1+	AAA	30%
A-1	AA	30%
A-2	A	20%
A-3	BBB	10%
Unrated	Unrated	5%
NSW Treasury Corp Deposits		100%

Short-term credit rating	Long-term credit rating	Individual institution exposure (as a % of Total Portfolio)
NSW TCorp IM Funds (allowable under the Ministerial Order)		25%

- Credit ratings apply to both products and institutions. This policy requires the rating applicable to the institution responsible for the product (e.g. guarantor) to be taken as the relevant rating given this represents the underlying risk to Council.
- Credit risk investment parameters are based on credit rating bands as published by the credit rating agencies (e.g. S&P, Moody's, Fitch). If an investment is rated by more than one ratings agency, the credit rating to be used will be based on the order of S&P, Moody's and then Fitch. In the event of disagreement between agencies as to the rating band ("split ratings") Council shall use the higher in assessing compliance with portfolio policy limits, but for conservatism shall apply the lower in assessing new purchases.
- Where the principal amount and accrued interest of any investment with a financial institution are directly guaranteed by the Australian Federal Government for full repayment, the exposure to individual institutions may exceed the stated limits provided that the exposure to individual institutions may exceed the stated limits provided that the excess amount comprises only guaranteed investments.

Term to Maturity Framework

The term to maturity framework specifies the maximum amounts or percentages of Council's total investment portfolio that can be held within the various investment maturity bands.

Maximum thresholds are set to control the proportion of the total portfolio that can be invested into longer term investments to ensure that Council has adequate access to short and medium term liquidity to satisfy its business objectives. The maximum thresholds reduce as the maturity horizon extends further into the future.

	< 1 Year	1 to 3 Years	3 to 5 Years	> 5 Years
Maximum % of Total Portfolio	100%	70%	40%	10%

Minimum thresholds are set to ensure that there will always be an adequate amount of liquidity available for ongoing working capital purposes. Remaining funds are invested across the various investment horizons, seeking the best relative value at the time of investment.

	< 1 Year
Minimum % of Total Portfolio	40%

2.11.7 Breaches of Criteria

This policy imposes limits and thresholds in relation to the acquisition and holding of investments. However, situations may occur where inadvertent breaches of these limitations or thresholds arise, other than from the acquisition of investments. For example:

- Amendments to regulatory directives or legislation

- Changes in the total value or amount of Council's investment portfolio which consequently changes any of the threshold limits so that they no longer meet the portfolio liquidity parameters

If the credit ratings of any of Council's investments are downgraded to an extent that they no longer fall within the investment policy limits, they will be divested as soon as practicable having regard to potential losses resulting from early redemption and subject to minimising any loss of capital that may arise from compliance with this provision.

Those limitations or thresholds breached due to amendments to regulatory directives or legislation, the investment portfolio must be managed in accordance with the respective amendments. Where the amendments enable retention and grandfathering of existing investments, Council may continue to actively manage those investments within the portfolio in accordance with all other regulations and policies applicable to such investments. This includes a strategy of holding or divesting such investments in accordance with regular investment considerations.

Where limitations or thresholds are breached due to a change in the overall size of the total investment portfolio, the following process will apply:

- An immediate freeze is imposed on the acquisition of new investments in the relevant category until the portfolio can be effectively managed back to accord with the requirements of this policy
- The relevant category of investments must be managed back in accord with the policy limits within a period that takes into account any adversity created by market liquidity, current valuations of these investments and the risks of default.

The immediate forced sale of the investments in breach of the limits or thresholds will not be required.

2.12 Investments in Financial Institutions which Support the Fossil Fuel Industry

Subject to consideration of the Risk Management Guidelines in this policy, preference is to be given to financial institutions that publicly state that they do not invest in or finance the fossil fuel industry if:

- The investment is compliant with Council's Investment Policy, and
- The investment rate of interest is equivalent to or more favourable to Council relative to other similar investments that may be on offer to Council at the time of the investment.

2.13 Measurement of Investment Performance

Investment performance includes both interest returns and any change in the underlying capital value of the investments.

Interim fluctuations of capital value are excluded from the monthly measurement of investment performance on the basis that:

- Investments are mainly acquired with the intention of holding them through to maturity, although some liquid assets may be sold prior to maturity should it be to the benefit of Council
- Cash liquidity requirements are structured and managed to ensure that Council is not in a financial position that will require a forced sale of these assets

  Notwithstanding the above, changes in capital value are important and the monthly investment report will therefore provide Council with indicative market valuations of each investment. In the event that the capital value of any investment becomes impaired, or a

capital gain or loss is actually realised (through disposal), the gain or loss of value will be recognised within that month's financial accounts.

Investment performance will be measured monthly against the chosen benchmarks in relation to both current month and 12-month rolling returns.

The CFO will approve the use of independently determined benchmarks. Where Council changes independently determined benchmarks, monthly reports for the month of change and the next five months thereafter shall contain reporting of investment returns against benchmark for both the following:

- The benchmark that is being replaced, and
- The new benchmark backdated on a twelve-month basis.
- Council currently uses two performance benchmarks:

- Bloomberg AusBond Bank Bill Index (formerly known as UBSA Bank Bill Index) – the Bank Bill Index represents the performance of a notional rolling parcel of bills averaging 45 days and is the widely used benchmark for local councils and other institutional cash investments
- 30-day Bank Bill Rate - provides a fair indicator of the risk free rate of return so that Council can understand the return that has been earned from diversifying its investment portfolio and accepting conservative levels of risk

2.14 Reporting and Review

Council will maintain a separate record of money it has invested under section 625 of the *Local Government Act 1993*, in accordance with the criteria defined by the *Local Government Code of Accounting Practice and Financial Reporting*.

All investments are to be appropriately recorded in Council's financial records and reconciled at least on a monthly basis.

Pursuant to the *Local Government (General) Regulation 2005* (clause 212), the CFO will provide a monthly report to Council on investments. The monthly report to Council will detail the investment portfolio in terms of performance and rate of return on the overall portfolio for the period and will detail the purchase price, face value, current (market) value, credit rating and coupon / yield for each individual investment.

For audit purposes, the FM will obtain certificates from the banks or fund managers confirming the amounts of investment held on Council's behalf at 30 June each year.

The Investment Policy will be reviewed at least once a year or as required in the event of legislative changes.

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3. REFERENCES

Laws and standards	• Australian Accounting Standards • NSW Office of Local Government - Local Government Code of Accounting Practice & Financial Reporting • NSW Office of Local Government Investment Circulars • Office of Local Government Investment Policy Guidelines • Local Government (General) Regulation 2005 • Local Government Act 1993 • Minister's Investment Order (gazetted) • The Trustee Amended (Discretionary Investments) Act 1997 - Sections 14A(2), 14C(1) & (2)
Policies and procedures	• Code of Conduct • Financial Management • Procurement of Assets and Services • Disciplinary Policy & Procedures • Protected Disclosures Internal Reporting System • Fraud and Corruption Prevention

4. DEFINITIONS

Term	Meaning
Total investments	Total investments comprise: • Call accounts • Term deposits • Floating rate notes • Bonds with an active secondary market with government (including NSW T-Corp) and Authorised Deposit-taking Institutions (ADIs) Investments also include grandfathered structured investments with other institutions as defined.
Active investments	Active investments are a part of total investments and comprise: • Call accounts • Term deposits • Floating rate notes • Bonds with an active secondary market
Grandfathered investments	Grandfathered investments are a part of total investments and comprise: • Investments where new investment activity is prohibited by regulation • Other investments over which new investment activity is temporarily prohibited due to unintentional breaches of investment thresholds and limitations that arise due to changes in the level of unrelated

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Term	Meaning
	investments within the portfolio, (the prohibition only remains as long as the breaches remain in place)
Impairment	The impairment of an investment represents the amount of the original cost of the investment that is not expected to be recovered at the investment's maturity date due to current adverse economic or investment conditions that impact on the investment's financial performance.
AusBond Bank Bill Index	The Bank Bill Index (BBI), formerly the UBS BBI, represents the performance of a notional rolling parcel of bills averaging 45 days, and is the widely used benchmark for local councils and other institutional cash investments.
Approved Deposit-taking Institution (ADI)	An institution that is authorised under the Banking Act 1959 to accept term deposits and conduct banking activities in accordance with that Act and under the prudential supervision of the Australian Prudential Regulation Authority (APRA).
Active secondary market	A market where investors purchase securities or assets from other investors, rather than from issuing companies themselves on an arm's length (independent) basis.
Benchmark rates	Benchmark rates comprise: • Bloomberg AusBond Bank Bill Index - The Australian Bloomberg (formally UBSA) Bank Bill index is constructed as a benchmark to represent the performance of a passively managed short-term money market portfolio. It comprises thirteen Bank Bills of equal face value, each with a maturity seven days apart. The average term to maturity is approximately 45 days. A Bank Bill is a non-interest bearing security issued by a bank whereby the bank takes on an obligation to pay an investor a fixed amount (face value) at a fixed future date. It is sold to an investor at a discount to the face value. Bank Bills are short-term money market investments with maturities usually between 30 days and 180 days. • 30 Day Bank Bill Index - The Bank Bill Index is designed to measure the performance of the Australian short-term money market and consists of 13 weekly maturities out to varying dates. Interest rates applied to these maturities are interpolated from cash and Bank Bill Swap (BBSW) rates. BBSW rates are administered by the Australian Stock Exchange (ASX).
Call funds	Call funds are closely linked with investments but do not constitute investments. Call funds are used to meet immediate operational cash needs and may be retained in Council cheque accounts and call accounts at an ADI. Call funds must be accessible immediately or up to a maximum of 24 hours' notice within normal ADI operating hours.

Term	Meaning
Credit risk	The risk that an institution or a product the Council has invested in fails to pay the interest and/or repay the principal of an investment.
Market risk	The risk that the fair value or future cash flows of an investment will fluctuate due to changes in market prices.
Liquidity risk	The risk the Council is unable to redeem the investment at a fair price within a timely period.
Maturity risk	The risk relating to the length of term to maturity of the investment - the longer the term, the greater the length of exposure and risk to market volatilities.
Preservation of capital	The requirement for preventing losses in an investment portfolio's total value (considering the time value of money)
Diversification	Setting limits to the amounts invested with a particular financial institution or government authority to reduce credit risk.
Liquidity	Ensuring that funds are available in a timely manner to meet the Council's cash flow requirements without the unanticipated, and potentially disadvantageous, sale of investment products.

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Schedule 1 - Investment Instrument Description

At call deposits

Cash invested on an overnight basis with an Australian Authorised Deposit-taking Institution (ADI). Funds can be recalled or re-invested prior to the bank's Real Time Gross Settlement cut-off each day.

Term Deposit

Interest bearing deposit held at an ADI for a specific contracted period. Term deposits are not tradeable in the market. They typically have a fixed rate for their life, but floating rate term deposits are also available. Prior to the introduction of Covered Bonds into the Australian market, in early 2012, term deposits ranked at the top of an ADI's capital structure.

Bank Bills and Negotiable Certificates of Deposits (NCDs)

Similar types of interest-bearing securities issued/accepted by ADIs, typically short dated. Unlike term deposits, these are tradeable in the market prior to maturity.

Floating Rate Note/Bond (FRN)

The FRN is a longer-term debt security issued for a fixed period of time but has a variable (floating) coupon on a monthly or quarterly basis. The coupon reflects current interest rates, which is determined as a margin over the BBSW rate set. FRN's appeal to investors who are reluctant to commit funds to fixed interest investments for longer periods in times of fluctuating interest rates. Typical issuers are banks, corporates, financial institutions and securitised vehicles. Only Senior FRNs issued by an Australian Authorised Deposit Taking Institution such as a bank, credit union or building society are an eligible form of FRN investment.

Fixed Interest Securities (Bonds)

Securities issued by Commonwealth, State or corporate institutions that pay a fixed rate of interest (coupon) and mature at a fixed point in time. The interest (coupon) is paid at regular intervals (semi-annually, but can be paid monthly, quarterly, or annually). These securities are generally issued for a period of greater than one year.

NSW Treasury Corporation's Investment Management Funds:

The NSW Treasury Corporation Investment Management Funds (TCorp IM Funds) comprises a number of pooled managed funds options each set up as a unit trust. The current cash and fixed income options available through TCorp IM are the Cash Fund and the Short-Term Income Fund.

The Cash Fund is primarily a cash management tool allowing for same day access to funds whilst paying a slightly higher return than could be expected from a bank cash management account. This fund is designed as a high-volume transactional account for investors that deposit and redeem large tranches of funds at least weekly. The fund is designed for investments with time horizons ranging from overnight to 1.5 years.

The Short-Term Income Fund holds longer dated securities than the Cash Fund, consequently it has potential for more volatile month-to-month returns than its sister fund. The intended investment time horizon for the Strategic Cash Fund is 1½ to 3 years, making it an alternative to medium length term deposits.

Both funds will pay back the balance of the investment generally within 24 to 72 hours.

Schedule 2 - Standard and Poor's Ratings descriptions

Credit Ratings

Standard & Poor's (S&P) is a professional organisation that provides analytical services. An S&P rating is an opinion of the general creditworthiness of an obligor with respect to particular debt security or other financial obligation — based on relevant risk factors.

Credit ratings are based, in varying degrees, on the following considerations:

- Likelihood of payment
- Nature and provisions of the obligation
- Protection afforded by, and relative position of, the obligation in the event of bankruptcy, reorganisation or other laws affecting creditors' rights

The issue rating definitions are expressed in terms of default risk.

Long-term Obligation Ratings are:

AAA: An obligation/obligor rated AAA has the highest rating assigned by S&P. The obligor's capacity to meet its financial commitment on the obligation is extremely strong.

AA: An obligation/obligor rated AA differs from the highest rated obligations only in a small degree. The obligor's capacity to meet its financial commitment on the obligations is very strong.

A: An obligation/obligor rated A is somewhat more susceptible to the adverse effects of changes in circumstances and economic conditions than obligations/obligor in higher rated categories. However, the obligor's capacity to meet its financial commitment on the obligation is still strong.

BBB: An obligation/obligor rated BBB exhibits adequate protection parameters. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity to the obligor to meet its financial commitment on the obligation.

Plus (+) or Minus (-): The ratings from "AA" to ""CCC may be modified by the addition of a plus or minus sign to show relative standing within the major rating categories.

CreditWatch highlights an emerging situation, which may materially affect the profile of a rated corporation and can be designed as positive, developing or negative. Following a full review, the rating may either be affirmed or changed in the direction indicated.

A Rating Outlook assesses the potential direction of an issuer's long-term debt rating over the intermediate-to-long term. In determining a Rating Outlook, consideration is given to possible changes in the economic and/or fundamental business conditions. An outlook is not necessarily a precursor of a ratings change or future CreditWatch action. A "Rating Outlook – Positive" indicates that rating may be raised. "Negative" means a rating may be lowered. "Stable" indicates that ratings are not likely to change. "Developing" means ratings may be raised or lowered.

Authorisation Details

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Minute No:	
Date:	
Review timeframe:	Earliest of Alteration of relevant Ministerial Investment Order, or within the first 12 months of the term of each new Council
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Details History

Version No.	Date Change	Policy type	Modified by	Amendments made
2	17/12/19	Council minute no 220	CFO	
3	TBD		CFO	Major rewrite

DRAFT



Debt Recovery Policy

MSC19E

DRAFT

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1. Policy Objective

a) To provide direction for the collection of rates, annual charges and sundry debtors and ensure that debt collections are reviewed on a regular basis.

b) To ensure integrity, confidentiality and fairness are maintained in all proceedings for Council and its Customers during the debt recovery process.

2. Definitions

Council means the Muswellbrook Shire Council

The Act means the Local Government Act 1993 (as amended)

The Regulation means the Local Government (General) Regulation 2005 (as amended)

Payment Arrangement means a negotiated agreement to pay regular amounts of money as a course of action

3. Policy Statement for Rates, Charges and Water Usage

Payment of rates and charges is an important obligation of all property owners. Revenue collected from rates and charges is used to fund facilities and services for our community. Without this revenue Council would not be able to function or meet the needs of the local community.

3.1 Rate Payment Timetable

Rates and charges are levied by 31 July each year and are payable by four equal instalments by the following dates:

- 31 August
- 30 November
- 28 February
- 31 May

Any instalment not paid by the due date falls into arrears and attracts interest charges.

3.2 Overdue Rates and Charges, Water Charges and Usage

Council may take recovery action within one (1) month of the Rates and Water becoming overdue, unless the ratepayer requests a short extension of time or enters into a suitable payment arrangement with Council.

Council may accept a payment arrangement in accordance with Section 564 of the Act. Payment arrangements can be for weekly, fortnightly or monthly in accordance with suitable arrangements (see clause 3.3).

3.3 Suitable Arrangements

a) Council determines the reasons for the arrangement are acceptable.

b) The payment arrangement is entered into Council's billing system with a member from Council via writing, personally or by telephone. If the arrangement is adhered to no further action is required.

c) Arrangements should be made on the basis that current rates and charges are to be paid in full by the end of the financial year. This will prevent arrears being carried forward into the next rate year. Also, that at least one payment per month is made. If this cannot be achieved, then the arrangement should be reasonable so that the debt is reduced as soon as possible.

d) Interest will continue to accrue at the prescribed rate per annum as per Section 566 of the Act on any arrears during the period of extension or payment arrangement.

e) If an arrangement is made and later dishonoured Council will write to the rate debtor requesting that payment be made within 7 days or written application be made for approval to pay by direct debit to avoid further debt recovery action.

f) Those debtors who do not respond to the 7-day follow-up letter are to be issued with a further letter advising that if payment is not received within 14 days or an arrangement to pay is not made by that date, legal action will commence. The letter will also advise that such action will incur estimated legal costs and that those costs incurred will be added to the debt.

g) Legal action to commence.

3.4 Debt Recovery

If insufficient payments have been made to cover overdue amounts for rates and charges, water charges or usage or where there is no current arrangement in place then debt recovery action will commence. Council or their Debt Recovery Agent will issue the following:

a) A Reminder Notice.

b) A letter of Demand and/or a Letter of Intent.

c) If the ratepayer does not contact Council or its Debt Recovery Agent to arrange to pay the arrears, or to enter into a suitable arrangement, then legal proceedings may be instigated against the ratepayer which will include the issue of a Statement of Claim against the owner/s of the property.

d) Following service of the Statement of Claim, if the ratepayer fails to pay the arrears or enter into a suitable arrangement, Council will obtain Default Judgement and arrange to recover the Judgement Debt through the appropriate recovery actions.

e) Any legal Costs and expenses incurred in debt recovery proceedings will be charged against the property (including the expenses of tracing a person in accordance with Section 605 of the Act) and will be payable by the ratepayer as these costs will remain a charge on the land until paid in full.

4. Hardship

Council recognises there are cases of genuine financial hardship requiring respect and compassion in special circumstances. Please refer to Council's Hardship Policy MSC15E with cases of hardship.

5. Sale of Land

Where the above policy and procedures have not been successful in relation to the recovery of outstanding rates and charges, Part 2, Division 5 of the Act (Sale of land for unpaid rates and charges, Sections 713 – 726) is to be instigated where applicable.

a) Commence sale of land for unpaid rates process in accordance with the Local Government Act.

b) Letter advising that property is included on future list of properties to be sold for unpaid rates.

c) Interest at the rate determined annually in the Council's Rates and Charges Policy is applied to all outstanding rates, whether a suitable arrangement is in place or not. Interest commences to accrue on unpaid rates after the due date.

6. Water Usage Charges

Water meters are read in accordance with Council's reading program and accounts over $5.00 are sent to the users after each meter reading.

6.1 When water usage accounts are considered overdue

Water usage accounts are considered overdue thirty (30) days after account issue date.

7. Sundry Debtors

Council incurs expenses, which are recoverable from ratepayers and the general public e.g. construction of kerbing and guttering, footpaths, private works, property information, etc.

Generally, accounts are raised as debtor information comes to hand and invoices are issued in batches at least twice a month. Within 10 days of the close of a month a monthly statement of debt is issued. The due date for payment is 30 days of the invoice date.

The following process is to apply to debtors other than those referred to in Policy C38/4 "Lease of Council buildings or property".

a) If an account is not paid by the due date a second monthly statement will be forwarded as a reminder with advice that the account is now overdue.

b) If payment is not received after issue of the second statement, then a letter will be forwarded warning of legal action and requesting immediate payment or the making of an arrangement within 7 days.

c) If after 90 days of the due date there has been no satisfactory response, Council will commence normal debt recovery action to recover the debt.

d) If the account is an ongoing account, e.g. property information etc., further credit to that debtor will be withdrawn until the account is paid in full.

e) Requests for arrangements where legal action has occurred, or the debtor has defaulted on a previous arrangement must be in writing. Extensions of time without any payment are generally not acceptable. Regular payments assist the debtor in their financial planning and allows for early follow-up in case of further defaults. Extensions of time to pay past twelve months will be considered where there are exceptional circumstances, such as unemployment, sickness benefits, workers compensation etc.

f) Where accounts for kerb and guttering and footpath paving are outstanding for longer than three (3) months and no arrangements for payment have been made with Council, action be taken forthwith to recover the debt. These charges are charges against the land. Any accounts raised will immediately be attached to Council's computer database to enable the amount outstanding to be shown on a section 603 certificate.

g) Debtor arrangements to Council staff must be strictly enforced with no debt being allowed to fall into arrears unless there are exceptional circumstances. Any such circumstances should be approved by the General Manager. (Council cannot be seen to be providing financial benefit to non-paying staff).

8. Writing Off of Amounts Owing

The Act s564, s567, s607 and s610E provides for the writing off of rates, charges, fees and accrued interest. Applications for amounts to be written off should be in writing with an explanation of the reasons for the request. Each application will be considered on its individual merit, in conjunction with the criteria set out in the Act, and the Regulation.

The Regulations further provide that council, must, from time to time, by resolution, fix the amount of rates and charges above which any individual rate or charge may be written off only by resolution of the council. At a meeting held on the (11th October 2004) Council resolved that the amount be fixed at $200 per account.

An amount of rates and charges and a debt of or below $200 per account may be written off either by resolution of the council or by order in writing of the Council's General Manager.

The General Manager must advise council of rates and charges and debts written off by order of the General Manager. The General Manager's order will be in writing in the form provided at Appendix A to this policy.

Appendix A – General Manager's Order Form

muswellbrook shire council

GENERAL MANAGER'S ORDER NUMBER _____

Writing off of rates, charges, debts and accrued interest

In accordance with the provisions of the Local Government (General) Regulation 2005 Clause 131 and Council's policy MSC15E - Hardship, I hereby order that the following amounts be written off and the appropriate entries made in Council's records and accounts.

Name of person whose debt is being written off	
Account number	
Amount to be written off	
Type of account	
Reason why account was raised	

Reason for writing off the account

- ☐ Error in the assessment
- ☐ Amount is not lawfully recoverable
- ☐ Result of court decision
- ☐ Attempt to recover would not be cost effective
- ☐ Small balance write-off prior to rate levy
- ☐ Hardship

Date to be reported to Policy and Planning Committee_____

Signed _____ **Date:**_____
GENERAL MANAGER

Prepared by_____ **Council File Number**_____

Date:_____ **Finance Manager:** _____

Authorisation Details

Authorised by:	Council
Minute No:	173
Date:	14/08/2006
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1	14/05/2001		Council minute no 142	
2	14/04/2003		Council minute no 1001	
3	11/10/2004		Council minute no 72	
4	14/08/2006		Council minute no 173	
5	TBD			Major Rewrite

Hardship Policy

MSC15E

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1. Purpose

Payment of rates and charges is an important obligation of all property owners. Revenue collected from rates and charges is used to help provide a wide range of services and facilities to everyone that lives, works and visits the Muswellbrook Shire Council area. Without this revenue Council would not be able to function or meet the needs of the local community

2. Policy Objective

2.1 Council recognises there are cases of genuine financial hardship requiring respect and compassion in special circumstances. This policy establishes guidelines for the assessment of hardship or payment assistance applications applying the principles of social justice, fairness, integrity, appropriate confidentiality, and compliance with relevant statutory requirements. It applies to all applications for waiving, deferment and alternative payment arrangements, or writing off of rates, fees, annual charges and interest accrued on such debts.

2.2 This policy provides a framework for responding to applications from owners/ratepayers and customers experiencing genuine hardship with the payment of their rates, annual charges and fees in accordance with the Local Government Act 1993 and the Local Government (General) Regulation 2005.

2.3 Privacy will be maintained in accordance with the NSW Privacy and Personal Information Protection Act 1998.

3. Definitions

Council means the Muswellbrook Shire Council.

The Act means the Local Government Act 1993 (as amended).

The Regulation means the Local Government (General) Regulation 2005 (as amended).

The VOL Act means the Valuation of Land Act 1916 (as amended).

Financial Hardship means the inability of a ratepayer to meet payment of rates and/or charges as they fall due, where illness, injury, unemployment or another reasonable cause is the reason for hardship/ special variation.

4. Policy Statement

4.1 Hardship Assistance to Ratepayers and Customers

4.1.1 A ratepayer may be eligible for consideration for hardship assistance in the payment of overdue rates, annual charges, interest, and fees, where:

a) the person is unable to pay rates, annual charges, interest, or fees when due and payable for reasons beyond the person's control; or

b) payment when due would cause the person hardship.

4.1.2 The Act provides for the following assistance to ratepayers and customers who may experience hardship in some circumstances in paying rates, annual charges or fees:

a) Periodical payment arrangements for overdue rates and charges [Section 564];

b) Writing off or reducing interest accrued on rates or charges [Section 564(2) & 567];

c) Waiving, reducing or deferring the payment of the increase in the amount of rates payable because of substantial hardship resulting from general revaluation of land in the Local Government Area [Section 601];

d) Waiving, or reducing rates, charges or interest of eligible pensioners. [Section 575, 582];

e) Waiving or reducing Council fees when the inability to pay is due to hardship [Section 610E].

4.1.3 Applications for assistance will be considered in accordance with the following principles:

a) An assessment panel consisting of the Chief Financial Officer, Community Services Manager and Rates Clerk will form to assess cases of financial hardship;

b) Rates or annual charges will not be reduced, alternative available approaches to dealing with cases of financial hardship will be considered;

c) A arrangement of periodical payments outside due dates may be considered in cases of hardship or extenuating circumstances.

4.1.4 Applications for hardship must be made in writing, addressed to the Chief Financial Officer.

a) The applicant must be the person whom is liable for the rates / annual charges / fees and / or interest on the property.

b) The property to which the hardship application applies must be categorised as residential or farmland (excluding '' Affected by Mining" and '' Offset" farmland sub-categories) for rating purposes.

c) The property to which the hardship application applies must be the principal place of residence of the applicant/s.

d) The property for which the hardship applies must not be a rental property or otherwise income-producing.

e) The property for which the hardship applies must not be categorised as Business or Mining for rating purposes.

f) No ratepayer, including pensioners, will be permitted to accrue outstanding rates, fees, charges or interest to their estate.

g) The rates payable must be more than 5% of the gross household income.

4.1.5 The application for hardship must be accompanied with the following supporting documentation, at a minimum:

a) Statement of reasons why the person was unable to pay the rates and charges when they became due and payable; and

b) Letter from a medical professional (if applicable) confirming medical conditions causing hardship; and

c) Letter from a recognised financial counsellor or financial planner confirming financial hardship and containing, at a minimum, the following:

- Copy of recent bank statements (previous 3 months) for all accounts;
- Details of assets, income and expenditure.

4.1.6 Council may require the provision of any other documents and information which, in its opinion, it requires to make an assessment of the application.

4.1.7 Council may request the applicant attend an interview to assist Council in the understanding of the issues causing hardship.

4.1.8 Council may waive the application documents if ratepayers enter a maximum 12-month arrangement.

4.1.9 Support services and financial counsellors can be sought from these sources:

a) Financial Advice, including financial counsellor search function - www.moneysmart.gov.au/managing-your-money-managing-debts

b) Legal Aid service (Legal Advisers) – www.legalaid.nsw.gov.au/get-legal-help/find-a-service

c) Community Legal Centres in different local government areas – www.clcnsw.org.au/find_legal_help

d) Government funded Financial Rights Legal Centre who can be contacted at either 1800 007 007 or at www.financialrights.org.au

4.2 Hardship Assistance by Periodical Payment Arrangements

4.2.1 Council may enter into a formal agreement with a ratepayer eligible for alternative periodical payment arrangements for due and payable rates and charges. Council or the ratepayer may initiate a proposal for a periodical payment agreement. In accordance with section 568 of the Act, payments will be applied towards the payment of rates and charges in the order in which they become due.

4.2.2 The following guidelines should be met in determining eligibility:

a) Payments must be made on a weekly, fortnightly or monthly basis.

b) Any mutually acceptable repayment schedules have a maximum 12 month term.

c) All repayment schedules are to be reviewed at the end of each 3 month period and upon the raising of further rates and charges.

d) Any future rates and charges and water usage raised against a property are due and payable on the due dates.

e) Interest charges may be suspended during the term of the mutually acceptable repayment agreement, subject to the ratepayer complying promptly with its obligations thereunder.

f) Where a scheduled default occurs and subject to cl 4.2.2.e, the levying of interest charges is to be reactivated from the last payment made in accordance with the repayment schedule.

g) Where an applicant does not complete an application or does not produce sufficient information (in Council's opinion) to enable a determination, the application shall be refused.

h) Arranged payments must be of an amount so that all amounts owing are paid in full by a mutually satisfactory timeframe as agreed by Council and the ratepayer, with the aim being that all amounts are paid in full by 30 June of the financial year in which the payment arrangement was executed.

i) Extenuating circumstances can be taken into consideration by providing additional supporting documentation to those documents required in section 4.1.5 and by referral to the Chief Financial Officer.

4.2.3 Council may require the provision of any documents and information which, in its opinion, it requires to enter into a periodical payment arrangement. Refer to sections 4.1.5-4.1.7 as a guide.

4.3 Hardship Assistance by Writing Off Accrued Interest and Costs

4.3.1 Council applies interest to overdue rates in accordance with section 566 of the Act. However, Council may write off accrued interest and costs on rates or charges payable by a person under Section 567 of the Act and the Regulation where:

a) The person was unable to pay the rates or charges when they become due for reasons beyond the person's control; or

b) The person is unable to pay accrued interest for reasons beyond the person's control; or

c) Payment of the accrued interest would cause the person hardship.

4.3.2 Council may write off interest and costs in accordance with section 567(3) of the Act under the following circumstances:

a) The ratepayer is experiencing genuine hardship. In such cases, Council will request the completion of a hardship application (see section 4.1);

b) The ratepayer is a "first-time" defaulter, has previously had a good payment record and there are mitigating circumstances;

c) Prolonged or serious illness has prevented the ratepayer meeting their financial obligations to Council;

d) The ratepayer has complied with all criteria with respect to a section 564 periodic payment agreement;

e) Council is satisfied that the circumstances giving rise to the default are temporary;

f) Alternatives to recover the entire debt are unavailable.

4.4 Hardship Assistance due to Certain Valuation Changes

4.4.1 Under section 601 of the Act, any ratepayer who incurs a rate increase following a new valuation of land values may apply to Council for rate relief in the first year the valuation is used for rating purposes, if the new rate payable causes the ratepayer to suffer substantial hardship (section 601(1)).

4.4.2 Valuations are determined independently by the NSW Valuer-General. Council will encourage aggrieved ratepayers to make an appropriate application under the objection or appeal provisions of the VOL Act.

4.4.3 In determining an application made under s601(1), Council requires detailed evidence must be provided by the ratepayer to demonstrate that the rates made and levied on a new valuation cause the ratepayer to suffer "substantial hardship".

4.4.4 That evidence includes, but is not limited to, the documents and information specified in section 4.1 in respect of a hardship application.

4.4.5 Council considers that the use of the term "substantial hardship" in s601(1) sets a high bar.

4.4.6 In addition, it is considered that Council has maximised its scope under the Act to adopt a rating structure that cushions the impact of any change in valuations on rates.

4.5 Hardship Assistance in relation to Council Fees

4.5.1 Any application for hardship assistance in relation to Council fees or charges other than annual charges by waiving or reducing fees under section 610(E) of the Act will be assessed in accordance with the same criteria used to assess hardship assistance in respect of rates and annual charges.

5. General

5.1 Financial hardship cases will remain strictly confidential. Personal information collected as a consequence of this policy will only be used for the purpose of assessing eligibility under the policy and will not be used for any other purpose or disclosed to any other person unless required by law to do so or authorised to do so by the person to whom the personal information relates.

5.2 All hardship applications shall be determined under Council delegations.

5.3 All hardship applicants shall be advised in writing of Council's decision within 30 days of receipt of the application.

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Minute No:	
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1	16/02/16	Council minute no 427	
2	TBD		Major Rewrite

	LIST OF OPERATING PROJECTS PROPOSED TO BE CARRIED OVER TO 2021/2022							
NO.	Project	20/21 Budget	Expended at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
1	Aboriginal Treaty	$49,000	$16,597	$32,403	August 2021	Some delays with the consultation phase of the project.	Contract awarded.	Reserves
2	Better Waste and Recycling	$225,597	$16,592	$209,005	Ongoing	Multiple Year projects. Mobile Aerated Floor out to tender May 2021.	Grant Funded projects.	Grant Funded
3	Landfill Closure Plan	$60,000	$0	$60,000	July 2021	Consultant awarded to conduct Closure Plan.	Consultant awarded to conduct Closure Plan.	Reserve
4	Muscle Creek Flood Warning	$26,666	$0	$26,666		Liaison is being carried out with the Department of Planning, Industry and Environment – Water for the potential of additional funding being provided for a design and construct project rather than a design project only.	Grant Funding from Planning Industry and Environment.	Revenue and 1/2 Grant Funded.
5	Mbk Urban Riparian Restoration	$35,820	$32,436	$3,384		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
6	Rehabilitation of Muscle Creek	$123,766	$25,297	$98,469		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded/Reserves
7	Community Safety Grants - RFS	$12,928	$9,430	$3,498	August 2021	Funds committed but goods may not be received prior to June 30.	Funds committed but goods may not be received prior to June 30.	Grant Funded
8	Disaster Relief Fund	$22,436	$0	$22,436	Ongoing	This is an ongoing program that aims to accumulate funds over the years for any further disaster relief.	This is an ongoing program that aims to accumulate funds over the years for any further disaster relief.	Unrestricted cash.
9	Flying Fox	$9,545	$2,561	$6,984		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
10	Flying Fox - Stream 2	$10,000	$9,090	$910		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
11	Statecover Incentive Survey	$10,000	$3,238	$6,762		Survey action plans not yet finalised.	Grant Funded project.	Grant Funded
	TOTAL GENERAL FUND	**$585,758**	**$115,241**	**$470,517**				

	LIST OF OPERATING PROJECTS PROPOSED TO BE CARRIED OVER TO 2021/2022							
NO.	Project	20/21 Budget	Expended at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
12	GLE Pipeline	$350,000	$29,320	$320,680	September 2021	Project over two financial years.	Project over two financial years.	Water Fund Reserves
	TOTAL WATER FUND	**$350,000**	**$29,320**	**$320,680**				
13	Future Fund Development Applications	$433,564	$130,055	$303,509	Ongoing	The Future Fund committee has ongoing actions related to this budget.	The Future Fund committee has ongoing actions related to this budget.	Revenue
	TOTAL FUTURE FUND	**$433,564**	**$130,055**	**$303,509**				
	TOTAL	**$1,369,322**	**$274,616**	**$1,094,706**				

LIST OF OPERATING PROJECTS PROPOSED TO BE CARRIED OVER TO 2021/2022

NO.	Project	General Ledger	20/21 Budget	Expended at 20 July 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
1	Aboriginal Treaty	0402.2813.500	$49,000	$16,597	$32,403	August 2021	Some delays with the consultation phase of the project.	Contract awarded.	Reserves
2	Better Waste and Recycling		$225,597	$17,931	$207,666	Ongoing	Multiple Year projects. Mobile Aerated Floor out to tender May 2021.	Grant Funded projects.	Grant Funded
3	Landfill Closure Plan	0206.0793.500	$60,000	$0	$60,000	July 2021	Consultant awarded to conduct Closure Plan.	Consultant awarded to conduct Closure Plan.	Reserve
4	Muscle Creek Flood Warning	0001.0463.500	$26,666	$0	$26,666		Liaison is being carried out with the Department of Planning, Industry and Environment – Water for the potential of additional funding being provided for a design and construct project rather than a design project only.	Grant Funding from Planning Industry and Environment.	Revenue and 1/2 Grant Funded.
5	Mbk Urban Riparian Restoration	0172.3145.500	$35,820	$32,436	$3,384		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
6	Rehabilitation of Muscle Creek	0172.3154.500	$123,766	$53,573	$70,193		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded/Reserves
7	Community Safety Grants - RFS	0720.1023.500	$12,928	$10,883	$2,045	August 2021	Funds committed but goods may not be received prior to June 30.	Funds committed but goods may not be received prior to June 30.	Grant Funded
8	Disaster Relief Fund	0230.0838.500	$22,436	$0	$22,436	Ongoing	This is an ongoing program that aims to accumulate funds over the years for any further disaster relief.	This is an ongoing program that aims to accumulate funds over the years for any further disaster relief.	Unrestricted cash.
9	Flying Fox	0172.3146.500	$9,545	$6,165	$3,380		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
10	Flying Fox - Stream 2	0172.3153.500	$10,000	$9,090	$0		Multi Year grant funded project.	Multi Year grant funded project.	Grant Funded
11	Statecover Incentive Survey	0840.3163.500	$10,000	$3,238	$6,762		Survey action plans not yet finalised.	Grant Funded project.	Grant Funded
	TOTAL GENERAL FUND		**$585,758**	**$149,913**	**$434,935**				
12	GLE Pipeline	5010.0492.500	$350,000	$63,672	$286,328	September 2021	Project over two financial years.	Project over two financial years.	Water Fund Reserves
	TOTAL WATER FUND		**$350,000**	**$63,672**	**$286,328**				

13	Future Fund Development Applications	0370.0625.500	$433,564	$211,747	$221,817	Ongoing	The Future Fund committee has ongoing actions related to this budget.	The Future Fund committee has ongoing actions related to this budget.	Revenue
	TOTAL FUTURE FUND		**$433,564**	**$211,747**	**$221,817**				
14	Scholarship Expenses	0401.1441.500	$5,000	$0	$5,000				Grant Funded
15	STEM Grant		$150,000	$0	$150,000				Grant Funded
16	Individual Priced Work Orders (TfNSW)	0071.0100.	$1,751,000	$1,275,975	$475,025				Grant Funded
17	Regional Roads Traffic Facilities (TfNSW)	0076.0100.	$53,540	$33,836	$19,704				Grant Funded
18	Block Grant (TfNSW)	0077.0100.	$217,122	$175,357	$41,765				Grant Funded
19	Integrated Water Cycle Management	5010.0415.500	$273,565	$168,639	$104,926				Water Reserve.
20	Graffiti Removal Grant	0401.1440.500	$750	$375	$375				Grant Funded.
	TOTAL NEW ITEMS ADDED		**$2,450,977**	**$1,654,182**	**$796,795**				
	TOTAL		**$3,820,299**	**$2,079,514**	**$1,739,875**				

LIST OF CAPITAL PROJECTS PROPOSED TO BE CARRIED OVER TO 2021/2022

NO.	Project	20/21 Budget	Expended as at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
	GENERAL FUND							
1	Muswellbrook Indoor Sports Centre	$470,400	$80,818	$389,582	March 2022	Multi-year project. Contract Number 2019-2020-0413.	Multi-year project. Contract Number 2019-2020-0413.	Grant, Reserves
2	Muswellbrook Regional Art Centre	$126,587	$60,535	$66,052	March 2022	Multi-year project. Contract Number 2020-2021-0437	Multi-year project. Contract Number 2020-2021-0437	Grant, Reserves
3	Hunter Beach	$3,033,041	$108,012	$2,925,029	March 2022	Tender process not successful. Lengthy delays in grant funding extension.	Second tender process underway.	Grant, Reserves
4	Aquatic Centre Project	$7,031,750	$3,262,228	$3,769,522	November 2021	Multi-year project. Contract 2019-2020-0406. Construction in progress.	Multi-year project. Contract 2019-2020-0406. Construction in progress.	Revenue, Grants, Borrowed Funds, Reserves
5	Library Books	$91,034	$43,835	$47,199	End August 2021	Pre-publication purchasing. Delays in receiving stock purchased overseas due to COVID.	Orders have been made and awaiting deliveries.	Revenue and Reserve
6	Library Subsidy Projects	$155,084	$25,011	$130,073	February 2022	Large portion of grant funding only received in May 2021. Funds earmarked for improvements to furniture, shelving and technology.	Large portion of grant funding only received in May 2021. Funds earmarked for improvements to furniture, shelving and technology.	Grant Funded
7	Library Priority Grant	$43,284	$8,625	$34,659	December 2021	Upgrade to the library website. Some funds set aside for furniture/fit out of meeting rooms.	Upgrade to the library website. Some funds set aside for furniture/fit out of meeting rooms.	Grant Funded
8	Public Art Sculpture	$111,000	$76,705	$34,295	August 2021	Contract awarded. 2020-2021-0451	Contract awarded. 2020-2021-0451	Revenue and Reserve
9	Animal Impounding Facility	$2,648,754	$104,529	$2,544,225	December 2021	Contract awarded 2020-2021-0452	Contract awarded 2020-2021-0452	Grant and Reserves
10	Intelligent Lighting - Olympic Park	$190,313	$0	$190,313		Tender to close early June.	Tender to close early June.	Revenue and Grant
11	Cemetery Program	$165,532	$73,553	$91,979	December 2021	Accumulation of programme for significant fencing works.	Works to commence on entries.	Revenue and Reserves
12	Tertiary Education Centre II	$1,140,000	$443,484	$696,516	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Revenue and Reserves

NO.	Project	20/21 Budget	Expended as at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
13	Olympic Park Project	$585,426	$97,420	$488,006		Multi year project	Multi year project	Revenue and Reserves
14	Performance Centre	$830,334	$675,649	$154,685		Multi year project. Contract 2020-2021-0463.	Multi year project. Contract 2020-2021-0463.	Revenue and Reserves
15	Major Landcare Projects	$150,000	$36,480	$113,520	July 2021	Trailer and exclusion fencing are ordered and will be completed late June/early July.	Trailer and exclusion fencing are ordered and will be completed late June/early July.	Revenue
16	Denman Heritage Shed	$120,000	$69,760	$50,240		Multi year project	Multi year project	Reserve
17	CPTIGS - Bus Shelters	$48,400	$0	$48,400		Concept plan to be approved by Council. Matched funding available in 21/22 budget.	Concept plan to be approved by Council. Matched funding available in 21/22 budget.	Grants
18	Resources for Regions - Round 5	$10,213,654	$1,201,025	$9,012,629		Multiple year projects	Multiple year projects	Grant, Reserves, Borrowed Funds
19	Resources for Regions - Round 6	$4,594,789	$3,176,877	$1,417,912		Multiple year projects	Multiple year projects	Revenue, Grant, Reserves
20	Road Design Program	$50,000	$0	$50,000		Program to be reported to Council in the first quarter of 2021/22.	Program to be reported to Council in the first quarter of 2021/22.	Revenue
21	Safety Audit Ridgelands Road	$47,272	$0	$47,272		Grant funded project	Grant funded project	Reserve
22	Sandy Hollow Village Centre	$190,665	$9,351	$181,314		Tenders have been called. The project will be delivered in 2021/22.	Tenders have been called. The project will be delivered in 2021/22.	Revenue, Grant, Reserve
23	Yarrawa Road (Fixing Local Roads)	$200,000	$60,050	$139,950	June 2022	Grant funded, multiple year project. $4.8m budget in 2021/22.	Grant funded, multiple year project. $4.8m budget in 2021/22.	Grant Funded
24	Leachate Dam	$500,000	$1,788	$498,212	June 2022	Multi year project. Review of Environmental Factors currently being carried out.	Dam critical for site water management.	Reserve
25	Emulsion Tank	$80,000	$0	$80,000		To be purchased along side of finalising the design of the new Works Depot.	To be purchased along side of finalising the design of the new Works Depot.	Reserve

NO.	Project	20/21 Budget	Expended as at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
26	Large Plant	$395,000	$0	$395,000		Contract awarded 2019-2020-0423	Contract awarded 2019-2020-0423	Revenue
27	Vehicle Purchases	$260,000	$34,444	$225,556		Vehicles on order. Delivery will depend on availability of stock.	Vehicles on order. Delivery will depend on availability of stock.	Revenue
28	Relocation of Administration Centre	$1,487,351	$1,202,260	$285,091	July 2021	Resolution of oustanding defects.	Satisfactory resolution.	Revenue and Reserves.
29	Outdoor Table Tennis Table	$15,000	$0	$15,000	July 2021	Difficulty securing concrete contractor.	Table has been manufactured and purchased.	Revenue
	Total General Fund	**$34,974,670**	**$10,852,439**	**$24,122,231**				
	WATER FUND							
30	Depot - Investigation and Design	$213,691	$29,056	$184,635	Ongoing	Contract awarded for Architect	Contract awarded for Architect	Reserve
31	Mains Renewal and Replacement	$960,439	$461,521	$498,918		Contract awarded. 2020-2021-0439	Contract awarded. 2020-2021-0439	Reserve
32	Vehicle Replacement	$57,394	$0	$57,394		Vehicle on order. Delivery will depend on availability of stock	Vehicle on order. Delivery will depend on availability of stock	Reserve
33	Water Stop Valve Replacement Program	$200,000	$40,504	$159,496		In the process of awarding a contract	In the process of awarding a contract	Reserve
	Total Water Fund.	**$1,431,524**	**$531,081**	**$900,443**				
	SEWER FUND							
34	Mains Renewal and Replacement Program	$471,316	$352,002	$119,314		Works booked in for late June/early July. Contract Number 2020-2021-0477	Works booked in for late June/early July. Contract Number 2020-2021-0477	Reserve
	Total Sewer Fund.	**$471,316**	**$352,002**	**$119,314**				

NO.	Project	20/21 Budget	Expended as at 1 June 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
	FUTURE FUND							
35	Bakery Set Up	$107,019	$7,799	$99,220	Ongoing	At design stage - modifications in progress.	At design stage - modifications in progress.	Reserves
36	Design Innovation Hub	$900,000	$0	$900,000	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
37	Innovation Precinct	$153,000	$0	$153,000	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
38	Marketplace Air Conditioning	$400,000	$1,506	$398,494	End of 2021	Contract awarded and works commenced.	Contract awarded and works commenced.	Reserves
39	Tertiary Education Centre II	$1,491,099	$41,053	$1,450,046	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Grant, Reserves
40	Weidmann Cottage	$500,000	$3,431	$496,569	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
	Total Future Fund	**$3,551,118**	**$53,789**	**$3,497,329**				
	TOTAL ALL FUNDS	**$40,428,628**	**$11,789,311**	**$28,639,317**				

LIST OF CAPITAL PROJECTS PROPOSED TO BE CARRIED OVER TO 2021/2022

NO.	Project	General Ledger	20/21 Budget	Expended as at 20 July 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
	GENERAL FUND								
1	Muswellbrook Indoor Sports Centre	3910.5844.504	$470,400	$80,818	$389,582	March 2022	Multi-year project. Contract Number 2019-2020-0413.	Multi-year project. Contract Number 2019-2020-0413.	Grant, Reserves
2	Muswellbrook Regional Art Centre	3910.5855.504	$126,587	$65,135	$61,452	March 2022	Multi-year project. Contract Number 2020-2021-0437	Multi-year project. Contract Number 2020-2021-0437	Grant, Reserves
3	Hunter Beach	3920.5904.504	$3,033,041	$110,012	$2,923,029	March 2022	Tender process not successful. Lengthy delays in grant funding extension.	Second tender process underway.	Grant, Reserves
4	Aquatic Centre Project	3700.5442.504	$7,031,750	$5,038,775	$1,992,975	November 2021	Multi-year project. Contract 2019-2020-0406. Construction in progress.	Multi-year project. Contract 2019-2020-0406. Construction in progress.	Revenue, Grants, Borrowed Funds, Reserves
5	Library Books	2055.5330.504	$91,034	$55,292	$35,742	End August 2021	Pre-publication purchasing. Delays in receiving stock purchased overseas due to COVID.	Orders have been made and awaiting deliveries.	Revenue and Reserve
6	Library Subsidy Projects	2055.5372/5373/5374	$155,084	$25,662	$129,422	February 2022	Large portion of grant funding only received in May 2021. Funds earmarked for improvements to furniture, shelving and technology.	Large portion of grant funding only received in May 2021. Funds earmarked for improvements to furniture, shelving and technology.	Grant Funded
7	Library Priority Grant	2055.5580.504	$43,284	$9,263	$34,021	December 2021	Upgrade to the library website. Some funds set aside for furniture/fit out of meeting rooms.	Upgrade to the library website. Some funds set aside for furniture/fit out of meeting rooms.	Grant Funded
8	Public Art Sculpture	3920.5599.504	$111,000	$76,705	$34,295	August 2021	Contract awarded. 2020-2021-0451	Contract awarded. 2020-2021-0451	Revenue and Reserve
9	Animal Impounding Facility	3910.5887.504	$2,648,754	$257,713	$2,391,041	December 2021	Contract awarded 2020-2021-0452	Contract awarded 2020-2021-0452	Grant and Reserves
10	Intelligent Lighting - Olympic Park	3710.7821.504	$190,313	$2,112	$188,201		Tender to close early June.	Tender to close early June.	Revenue and Grant
11	Cemetery Program	3722.5297.504	$165,532	$73,553	$91,979	December 2021	Accumulation of programme for significant fencing works.	Works to commence on entries.	Revenue and Reserves
12	Tertiary Education Centre II	3920.5923.504	$1,140,000	$720,837	$419,163	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Revenue and Reserves
13	Olympic Park Project	3710.1405.504	$370,796	$128,342	$242,454		Multi year project	Multi year project	Revenue and Reserves

NO.	Project	General Ledger	20/21 Budget	Expended as at 20 July 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
14	Performance Centre	3690.5433.504	$1,044,964	$1,044,545	$0		Multi year project. Contract 2020-2021-0463.	Multi year project. Contract 2020-2021-0463.	Revenue and Reserves
15	Major Landcare Projects	3920.5617.504	$150,000	$146,746	$3,254	July 2021	Trailer and exclusion fencing are ordered and will be completed late June/early July.	Trailer and exclusion fencing are ordered and will be completed late June/early July.	Revenue
16	Denman Heritage Shed	3590.4222.504	$120,000	$82,260	$37,740		Multi year project	Multi year project	Reserve
17	CPTIGS - Bus Shelters	3500.2781.504	$48,400	$0	$48,400		Concept plan to be approved by Council. Matched funding available in 21/22 budget.	Concept plan to be approved by Council. Matched funding available in 21/22 budget.	Grants
18	Resources for Regions - Round 5	3500.4275/4277/4282. 3530.5888	$10,213,654	$2,069,967	$8,143,687		Multiple year projects	Multiple year projects	Grant, Reserves, Borrowed Funds
19	Resources for Regions - Round 6	3500.4422/4303/4306	$4,647,289	$3,538,662	$1,108,627		Multiple year projects	Multiple year projects	Revenue, Grant, Reserves
20	Road Design Program	3500.2067.504	$50,000	$0	$50,000		Program to be reported to Council in the first quarter of 2021/22.	Program to be reported to Council in the first quarter of 2021/22.	Revenue
21	Safety Audit Ridgelands Road	3500.4270.504	$47,272	$0	$47,272		Grant funded project	Grant funded project	Reserve
22	Sandy Hollow Village Centre	3550.4257.504	$190,665	$16,262	$174,403		Tenders have been called. The project will be delivered in 2021/22.	Tenders have been called. The project will be delivered in 2021/22.	Revenue, Grant, Reserve
23	Yarrawa Road (Fixing Local Roads)	3500.2780.504	$200,000	$68,722	$131,278	June 2022	Grant funded, multiple year project. $4.8m budget in 2021/22.	Grant funded, multiple year project. $4.8m budget in 2021/22.	Grant Funded
24	Leachate Dam	3653.4530.504	$500,000	$1,788	$498,212	June 2022	Multi year project. Review of Environmental Factors currently being carried out.	Dam critical for site water management.	Reserve
25	Emulsion Tank	3985.5931.504	$80,000	$0	$80,000		To be purchased along side of finalising the design of the new Works Depot.	To be purchased along side of finalising the design of the new Works Depot.	Reserve
26	Large Plant	3985.5870.504	$395,000	$0	$395,000		Contract awarded 2019-2020-0423	Contract awarded 2019-2020-0423	Revenue

NO.	Project	General Ledger	20/21 Budget	Expended as at 20 July 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
27	Vehicle Purchases	3900.5660.504	$260,000	$102,514	$157,486		Vehicles on order. Delivery will depend on availability of stock.	Vehicles on order. Delivery will depend on availability of stock.	Revenue
28	Relocation of Administration Centre	3920.5668/5934/5935	$1,617,504	$1,617,504	$0	July 2021	Resolution of oustanding defects.	Satisfactory resolution.	Revenue and Reserves.
29	Outdoor Table Tennis Table	3710.5547.504	$15,000	$12,960	$0	July 2021	Difficulty securing concrete contractor.	Table has been manufactured and purchased.	Revenue
	Total General Fund		**$35,157,323**	**$15,346,149**	**$19,808,715**				
	WATER FUND								
30	Depot - Investigation and Design	5310.4578.504	$213,691	$47,018	$166,673	Ongoing	Contract awarded for Architect	Contract awarded for Architect	Reserve
31	Mains Renewal and Replacement	5320.4340.504	$960,439	$646,481	$313,958		Contract awarded. 2020-2021-0439	Contract awarded. 2020-2021-0439	Reserve
32	Vehicle Replacement	5330.4378.504	$57,394	$0	$57,394		Vehicle on order. Delivery will depend on availability of stock	Vehicle on order. Delivery will depend on availability of stock	Reserve
33	Water Stop Valve Replacement Program	5320.4379.504	$200,000	$40,504	$159,496		In the process of awarding a contract	In the process of awarding a contract	Reserve
	Total Water Fund.		**$1,431,524**	**$734,003**	**$697,521**				
	SEWER FUND								
34	Mains Renewal and Replacement Program	6310.4340.504	$471,316	$441,735	$29,581		Works booked in for late June/early July. Contract Number 2020-2021-0477	Works booked in for late June/early July. Contract Number 2020-2021-0477	Reserve
	Total Sewer Fund.		**$471,316**	**$441,735**	**$29,581**				
	FUTURE FUND								
35	Bakery Set Up	3690.5473.504	$107,019	$7,225	$99,794	Ongoing	At design stage - modifications in progress.	At design stage - modifications in progress.	Reserves

NO.	Project	General Ledger	20/21 Budget	Expended as at 20 July 2021	Proposed Carryover	Anticipated Completion Date	Reason for Delay	Rationale for Carrying Over	Source of Funding
36	Design Innovation Hub	3665.4941.504	$900,000	$0	$900,000	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
37	Innovation Precinct	3665.4942.504	$153,000	$0	$153,000	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
38	Marketplace Air Conditioning	3690.5477.504	$400,000	$1,506	$398,494	End of 2021	Contract awarded and works commenced.	Contract awarded and works commenced.	Reserves
39	Tertiary Education Centre II	3690.5438.504	$1,491,099	$230,546	$1,260,553	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Grant, Reserves
40	Weidmann Cottage	3665.4943.504	$500,000	$0	$500,000	March 2022	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Multiple year project. To be combined into the Upper Hunter Innovation Centre II Project in the Future Fund for 21/22.	Reserves
	Total Future Fund		**$3,551,118**	**$239,277**	**$3,311,841**				
41	Karoola Park Citizens Walk Pathway	3710.5532.504	$20,000	$0	$20,000				
42	Sandy Creek Road Curve Improvement	3500.2066.504	$742,448	$495,942	$246,506				
43	Widden Valley Road Pavement Rehab	3500.4424.504	$553,397	$0	$553,397				
	Total Additional Projects		**$1,315,845**	**$495,942**	**$819,903**				
	TOTAL ALL FUNDS		**$41,927,126**	**$17,257,106**	**$24,667,561**				

muswellbrook shire council

Portfolio Valuation Report
Muswellbrook Shire Council
As At 30 June 2021

	Fixed Interest Security	ISIN	Face Value Original	Bond Factor	Face Value Current	Capital Price	Accrued Interest Price	Market Value	% Total Value	Running Yield	Weighted Running Yield
At Call Deposit											
	MACQ 940353865 At Call		3,750,000.00	1.00000000	3,750,000.00	100.000	0.000	**3,750,000.00**	5.80%	0.45%	
	ME Bank At Call		500,000.00	1.00000000	500,000.00	100.000	0.000	**500,000.00**	0.77%	0.55%	
	Westpac Bus Prem At Call		4,713,757.79	1.00000000	4,713,757.79	100.000	0.000	**4,713,757.79**	7.28%	0.34%	
	Westpac Muswellbrook Trading Acct At Call		100,000.00	1.00000000	100,000.00	100.000	0.000	**100,000.00**	0.15%	0.34%	
			9,063,757.79		9,063,757.79			**9,063,757.79**	14.01%		0.40%
Fixed Rate Bond											
	BENAU 1.7 06 Sep 2024 Fixed	AU3CB0266377	2,500,000.00	1.00000000	2,500,000.00	102.364	0.536	**2,572,500.00**	3.98%	1.68%	
	SunBank 1.85 30 Jul 2024 Fixed	AU3CB0265403	1,000,000.00	1.00000000	1,000,000.00	102.685	0.772	**1,034,570.00**	1.60%	1.80%	
			3,500,000.00		3,500,000.00			**3,607,070.00**	5.57%		1.71%
Floating Rate Deposit											
	ANZ 1.2 21 Jul 2022 2557DAY FRD		1,000,000.00	1.00000000	1,000,000.00	100.000	0.238	**1,002,378.08**	1.55%	1.24%	
			1,000,000.00		1,000,000.00			**1,002,378.08**	1.55%		1.24%
Floating Rate Note											
	Auswide 0.75 07 Nov 2022 FRN	AU3FN0057345	1,000,000.00	1.00000000	1,000,000.00	100.484	0.117	**1,006,010.00**	1.55%	0.79%	
	Auswide 1.05 17 Mar 2023 FRN	AU3FN0053567	2,000,000.00	1.00000000	2,000,000.00	100.988	0.038	**2,020,520.00**	3.12%	1.07%	
	Auswide 0.6 22 Mar 2024 FRN	AU3FN0059317	1,500,000.00	1.00000000	1,500,000.00	100.067	0.014	**1,501,215.00**	2.32%	0.62%	
	BOQ 1.02 16 Nov 2021 FRN	AU3FN0039418	1,000,000.00	1.00000000	1,000,000.00	100.348	0.128	**1,004,760.00**	1.55%	1.06%	
	BOQ 1.05 03 Feb 2023 FRN	AU3FN0040549	500,000.00	1.00000000	500,000.00	101.273	0.173	**507,230.00**	0.78%	1.09%	
	BOQ 1.03 18 Jul 2024 FRN	AU3FN0049094	1,000,000.00	1.00000000	1,000,000.00	101.927	0.212	**1,021,390.00**	1.58%	1.07%	
	BOQ 1.1 30 Oct 2024 FRN	AU3FN0051272	500,000.00	1.00000000	500,000.00	102.263	0.191	**512,270.00**	0.79%	1.14%	
	BENAU 1.05 25 Jan 2023 FRN	AU3FN0040523	500,000.00	1.00000000	500,000.00	101.286	0.191	**507,385.00**	0.78%	1.09%	
	CUA 1.25 06 Sep 2021 FRN	AU3FN0044269	1,500,000.00	1.00000000	1,500,000.00	100.206	0.080	**1,504,290.00**	2.32%	1.27%	
	MACQ 0.48 09 Dec 2025 FRN	AU3FN0057709	3,000,000.00	1.00000000	3,000,000.00	99.785	0.029	**2,994,420.00**	4.63%	0.51%	
	RACB 0.93 24 Feb 2023 FRN	AU3FN0053146	1,000,000.00	1.00000000	1,000,000.00	100.562	0.098	**1,006,600.00**	1.56%	0.97%	
	MYS 0.65 16 Jun 2025 FRN	AU3FN0061024	3,000,000.00	1.00000000	3,000,000.00	99.999	0.026	**3,000,750.00**	4.64%	0.67%	
	NAB 0.93 26 Sep 2023 FRN	AU3FN0044996	2,000,000.00	1.00000000	2,000,000.00	101.697	0.005	**2,034,040.00**	3.14%	0.97%	
	NPBS 1.4 06 Feb 2023 FRN	AU3FN0040606	500,000.00	1.00000000	500,000.00	101.435	0.217	**508,260.00**	0.79%	1.42%	
	NPBS 1.12 04 Feb 2025 FRN	AU3FN0052627	4,500,000.00	1.00000000	4,500,000.00	101.973	0.181	**4,596,930.00**	7.10%	1.16%	
	Qld Police 1.5 14 Dec 2021 FRN	AU3FN0046389	750,000.00	1.00000000	750,000.00	100.577	0.063	**754,800.00**	1.17%	1.52%	
	Qld Police 1.15 06 Dec 2022 FRN	AU3FN0052072	2,000,000.00	1.00000000	2,000,000.00	100.959	0.074	**2,020,660.00**	3.12%	1.18%	
	Qld Police 0.75 22 Mar 2024 FRN	AU3FN0059416	1,500,000.00	1.00000000	1,500,000.00	100.134	0.017	**1,502,265.00**	2.32%	0.77%	
	UBS Aust 1.05 21 Nov 2022 FRN	AU3FN0054151	1,000,000.00	1.00000000	1,000,000.00	101.161	0.119	**1,012,800.00**	1.57%	1.09%	
	UBS Aust 0.87 30 Jul 2025 FRN	AU3FN0055307	1,650,000.00	1.00000000	1,650,000.00	101.546	0.152	**1,678,017.00**	2.59%	0.90%	
			30,400,000.00		30,400,000.00			**30,694,612.00**	47.44%		0.96%
Term Deposit											

muswellbrook shire council

Portfolio Valuation Report
Muswellbrook Shire Council
As At 30 June 2021

	Fixed Interest Security	ISIN	Face Value Original	Bond Factor	Face Value Current	Capital Price	Accrued Interest Price	Market Value	% Total Value	Running Yield	Weighted Running Yield
	AMP 0.75 30 Nov 2021 365DAY TD		1,000,000.00	1.00000000	1,000,000.00	100.000	0.436	**1,004,356.16**	1.55%	0.75%	
	AMP 0.3 19 Jan 2022 215DAY TD		800,000.00	1.00000000	800,000.00	100.000	0.010	**800,078.90**	1.24%	0.30%	
	AMP 0.55 14 Feb 2022 276DAY TD		3,000,000.00	1.00000000	3,000,000.00	100.000	0.071	**3,002,124.66**	4.64%	0.55%	
	ME Bank 0.5 18 Oct 2022 484DAY TD		3,000,000.00	1.00000000	3,000,000.00	100.000	0.012	**3,000,369.87**	4.64%	0.50%	
	NAB 0.5 26 Oct 2021 330DAY TD		5,000,000.00	1.00000000	5,000,000.00	100.000	0.290	**5,014,520.55**	7.75%	0.50%	
	NAB 0.43 19 Nov 2021 330DAY TD		5,000,000.00	1.00000000	5,000,000.00	100.000	0.221	**5,011,073.95**	7.74%	0.43%	
	NAB 0.5 02 Dec 2021 365DAY TD		2,500,000.00	1.00000000	2,500,000.00	100.000	0.288	**2,507,191.78**	3.87%	0.50%	
			20,300,000.00		20,300,000.00			**20,339,715.87**	31.43%		0.49%
Fixed Interest Total			64,263,757.79		64,263,757.79			**64,707,533.74**	100.00%		0.78%



Portfolio Valuation Report
Muswellbrook Shire Council
As At 30 June 2021

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BRISBANE OFFICE: LEVEL 38, 71 EAGLE STREET, BRISBANE QLD, 4000 T 61 7 3123 5370 F 61 7 3123 5371

Report Code: TBSBP100EXT-01.17
Report Description: Portfolio Valuation As At Date
Parameters:
Term Deposit Interest Included
Cash Excluded
Settlement Date-Based Balances

muswellbrook shire council

Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021

1 Issuer Trading Limits

Issuer	Issuer Rating Group (Long Term)	Issuer Parent	Already Traded (with Issuer Group) Face Value Notional	Limit For Book or Entity	Trading Limit	Trading Limit Type	Trading Limit Value	Trading Limit Used (%)	Trading Limit Available (%)	Trading Limit Available (Value)	Trading Limit Exceeded (%)	Trading Limit Exceeded ($)
AMP Bank Ltd	BBB+ to BBB-		4,800,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	75.00	25.00	1,626,376	0.00	0
ANZ Banking Group Ltd	AA+ to AA-		1,000,000.00	Book	30.00	% of 64,263,757.79	19,279,127.34	5.00	95.00	18,279,127	0.00	0
Auswide Bank Limited	BBB+ to BBB-		4,500,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	70.00	30.00	1,926,376	0.00	0
Bank of Queensland Ltd	A+ to A-		3,000,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	47.00	53.00	3,426,376	0.00	0
Bendigo & Adelaide Bank Ltd	A+ to A-		3,000,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	47.00	53.00	3,426,376	0.00	0
Credit Union Australia Ltd	BBB+ to BBB-		1,500,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	23.00	77.00	4,926,376	0.00	0
Macquarie Bank	A+ to A-		6,750,000.00	Book	20.00	% of 64,263,757.79	12,852,751.56	53.00	47.00	6,102,752	0.00	0
Members Banking Group Limited t/as RACQ Bank	BBB+ to BBB-		1,000,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	16.00	84.00	5,426,376	0.00	0
Members Equity Bank Ltd	A+ to A-	Bank of Queensland Ltd	3,500,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	55.00	45.00	2,926,376	0.00	0
MyState Bank Ltd	BBB+ to BBB-		3,000,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	47.00	53.00	3,426,376	0.00	0
National Australia Bank Ltd	A+ to A-		14,500,000.00	Book	30.00	% of 64,263,757.79	19,279,127.34	75.00	25.00	4,779,127	0.00	0
Newcastle Permanent Building Society Ltd	BBB+ to BBB-		5,000,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	78.00	22.00	1,426,376	0.00	0
QPCU LTD t/a QBANK	BBB+ to BBB-		4,250,000.00	Book	10.00	% of 64,263,757.79	6,426,375.78	66.00	34.00	2,176,376	0.00	0
Suncorp Bank	A+ to A-		1,000,000.00	Book	20.00	% of 64,263,757.79	12,852,751.56	8.00	92.00	11,852,752	0.00	0
UBS Australia Ltd	A+ to A-		2,650,000.00	Book	20.00	% of 64,263,757.79	12,852,751.56	21.00	79.00	10,202,752	0.00	0
Westpac Banking Corporation Ltd	AA+ to AA-		4,813,757.79	Book	30.00	% of 64,263,757.79	19,279,127.34	25.00	75.00	14,465,370	0.00	0
			64,263,757.79				160,659,394.48			96,395,640		0

muswellbrook shire council

2 Security Rating Group Trading Limits

Security Rating Group	Already Traded Face Value Notional	Limit For Book or Trading Entity	Trading Limit	Trading Limit Type	Trading Limit Value	Trading Limit Used (%)	Trading Limit Available (%)	Trading Limit Available (Value)	Trading Limit Exceeded (%)	Trading Limit Exceeded ($)
AA+ to AA-	3,000,000.00	Book	100.00	% of 64,263,757.79	64,263,757.79	5.00	95.00	61,263,758	0.00	0
A+ to A-	15,400,000.00	Book	70.00	% of 64,263,757.79	44,984,630.45	34.00	66.00	29,584,630	0.00	0
A1+	14,813,757.79	Book	100.00	% of 64,263,757.79	64,263,757.79	23.00	77.00	49,450,000	0.00	0
A1	2,500,000.00	Book	70.00	% of 64,263,757.79	44,984,630.45	6.00	94.00	42,484,630	0.00	0
A2	7,300,000.00	Book	60.00	% of 64,263,757.79	38,558,254.67	19.00	81.00	31,258,255	0.00	0
A3	750,000.00	Book	60.00	% of 64,263,757.79	38,558,254.67	2.00	98.00	37,808,255	0.00	0
BBB+ to BBB-	20,500,000.00	Book	60.00	% of 64,263,757.79	38,558,254.67	53.00	47.00	18,058,255	0.00	0
	64,263,757.79				334,171,540.51			269,907,783		0

Notes
1. In instances where long securities have a term remaining which is less than 365 days, the issuer's short term rating is used instead of the security's (presumably long term) rating.

muswellbrook shire council

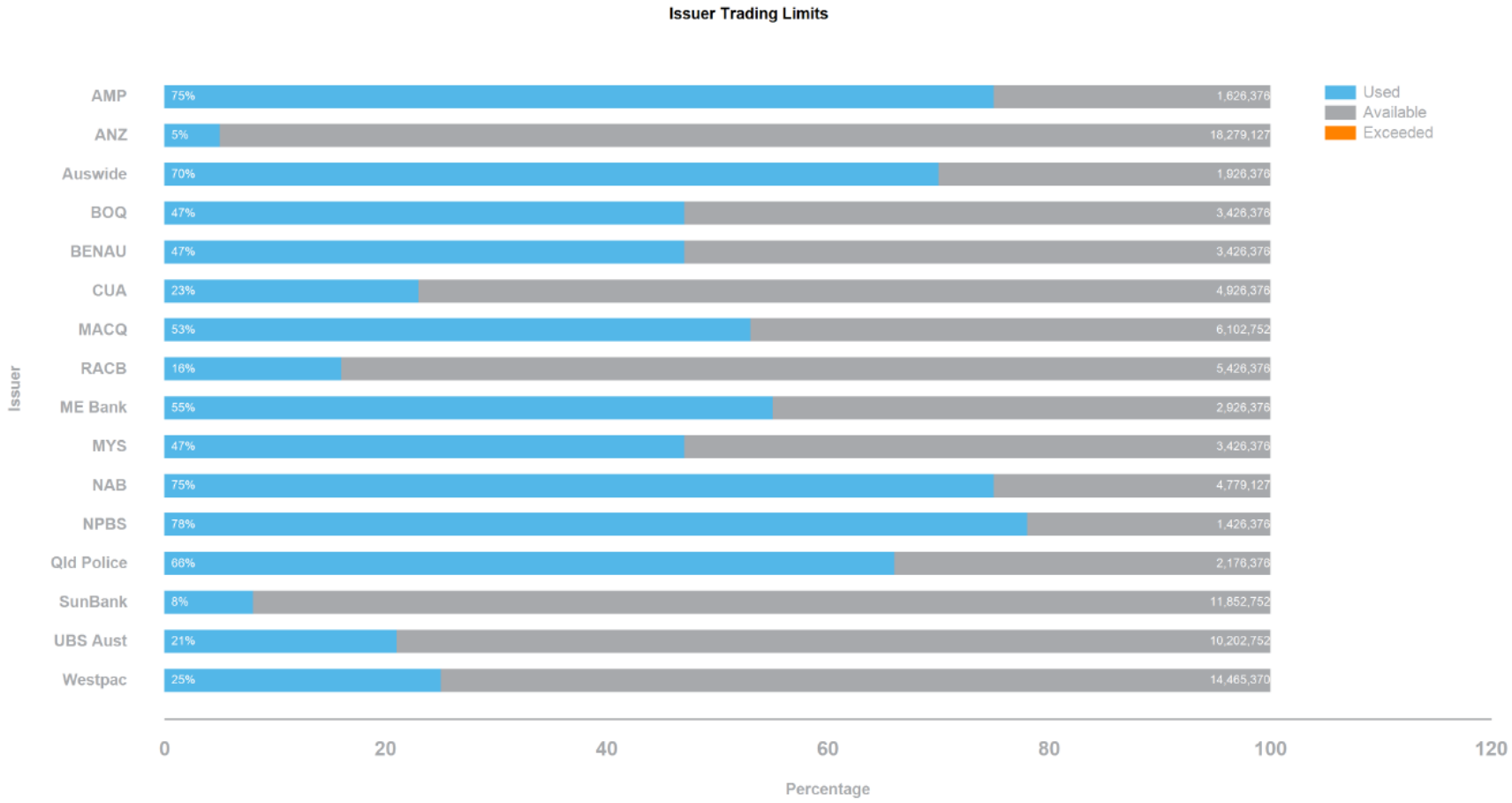
Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021

3 Term Group Trading Limits

Term Group	Already Traded Face Value Notional	Limit For Book or Trading Entity	Trading Limit	Trading Limit Type	Trading Limit Value	Trading Limit Used (%)	Trading Limit Available (%)	Trading Limit Available (Value)	Trading Limit Exceeded (%)	Trading Limit Exceeded ($)
0-1 Year	29,813,757.79	Book	100.00	% of 64,263,757.79	64,263,757.79	46.00	54.00	34,650,000	0.00	0
1-3 Year	17,500,000.00	Book	100.00	% of 64,263,757.79	64,263,757.79	27.00	73.00	46,763,758	0.00	0
3-5 Year	17,150,000.00	Book	100.00	% of 64,263,757.79	64,263,757.79	27.00	73.00	47,113,758	0.00	0
	64,263,757.79				192,791,273.37			128,527,516		0

muswellbrook shire council

Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021



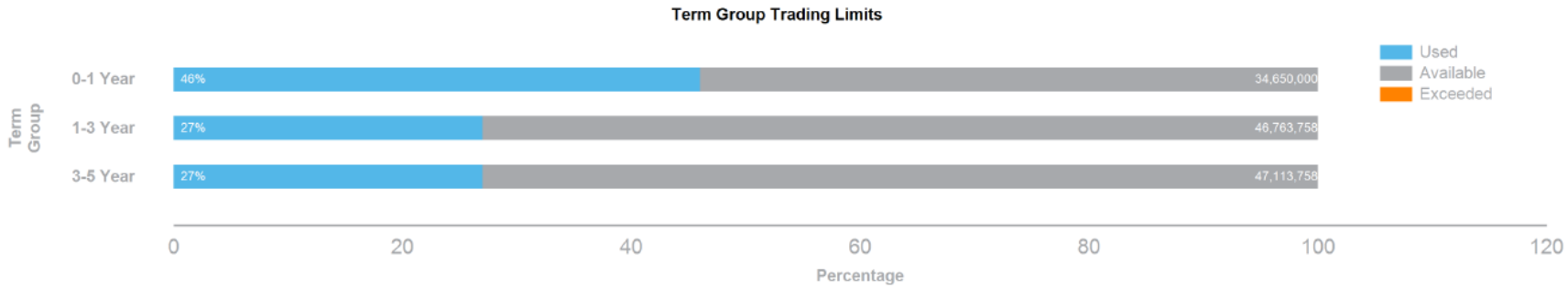
muswellbrook shire council

Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021



muswellbrook shire council

Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021





Trading Limit Report 125
Muswellbrook Shire Council
As At 30 June 2021

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MELBOURNE OFFICE: LEVEL 5 RIALTO NORTH, 525 COLLINS STREET, MELBOURNE, VIC 3000 T 61 3 9001 6990 F 61 3 9001 6933
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Report Code: TBSBP125EXT-00.16
Report Description: Trading Limit Performance As At Date
Parameters:
As At/Scenario Date: 30 June 2021
Balance Date: 4 July 2021 (but 30 Jun 2021 used instead)
Trading Entity: Muswellbrook Shire Council
Trading Book: Muswellbrook Shire Council
Report Mode: BalOnly
Using Face Value
Trading Entity and Book Limits
Effects of Parent/Child Issuers Ignored
Hide Zero Holdings

MINUTES OF THE STATE SIGNIFICANT DEVELOPMENT COMMITTEE MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, MUSWELLBROOK ON THURSDAY 1 JULY, 2021 COMMENCING AT 3.13PM.

PRESENT: Cr B. Woodruff (Chair) and Cr R. Scholes.

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Deputy General Manager), Ms S. Pope (Executive Manager – Planning & Environment), Mr C. Halfpenny (Bengalla), Mr C. White (Bengalla), Mrs F. Hartin (Bengalla) and Mrs M Sandell-Hay.

1 APOLOGIES AND LEAVE OF ABSENCE

Nil

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Cr Scholes and Cr Woodruff that:

The Minutes of the State Significant Development Committee held on 31 May 2021, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 PUBLIC PARTICIPATION

Nil

5 BUSINESS ARISING

Nil

6 BUSINESS

6.1 BENGALLA MINE MOD 5 PRESENTATION

Mr Craig White provided the Committee with a presentation on the proposed Bengalla Mine Modification 5 which would see no further environmental impacts above what is occurring at present but will extend the mine's life and is more an administrative type modification. Mr White advised the Committee that mod 5 would apply more natural gullies, the implementation of a rock crusher plant which would see rock being used from the site rather than transporting it to and from the site, which would have the benefit of less heavy traffic impact on Council's local roads.

Ms Plesman left the meeting at 3.47pm.

Mr White also advised the meeting that the modification would see the realignment of the western diversion levee and that the Modification Report would include an introduction, modification description, statutory context and impact management and mitigation – i.e. air and noise monitoring.

The Chair thanked Bengalla for providing the presentation.

Mr Halfpenny, Mr White and Mrs Hartin left the meeting at 4.20pm

RECOMMENDED on the motion of Cr Scholes and Cr Woodruff that:

The information contained in this report be noted.

MINUTES OF THE STATE SIGNIFICANT DEVELOPMENT COMMITTEE MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, MUSWELLBROOK ON THURSDAY 1 JULY, 2021 COMMENCING AT 3.13PM.

6.2 DRAFT VOLUNTARY PLANNING AGREEMENT BETWEEN THE MAXWELL VENTURES (MANAGEMENT) PTY LTD AND MUSWELLBROOK SHIRE COUNCIL

RECOMMENDED on the motion of Cr Scholes and Cr Woodruff that:

The Draft Voluntary Planning Agreement between Muswellbrook Shire Council and the Maxwell Ventures (Management) Pty Ltd be submitted to Council to place on public exhibition for 28 days and any public submissions be considered prior to Council moving to adopt the Voluntary Planning Agreement.

7 DATE OF NEXT MEETING

5 July 2021

8 CLOSURE

The meeting was declared closed at 4.29pm.

.....

Cr B. Woodruff

Chairperson

MINUTES OF THE STATE SIGNIFICANT DEVELOPMENT COMMITTEE MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, MUSWELLBROOK ON MONDAY 5 JULY, 2021 COMMENCING AT 3.35PM.

PRESENT: Cr J Ledlin (Chair) and Cr R. Scholes.

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Deputy General Manager), Ms S. Pope (Executive Manager – Planning & Environment) and Mrs M Sandell-Hay (PA to the General Manager), Mrs J Vince (PA to the Mayor).

1 APOLOGIES AND LEAVE OF ABSENCE

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The apologies for inability to attend the meeting submitted by B. Woodruff be ACCEPTED.

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Minutes of the State Significant Development Committee held on 1 July 2021, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 PUBLIC PARTICIPATION

Nil

5 BUSINESS ARISING

Nil

6 BUSINESS

6.1 DRAFT VOLUNTARY PLANNING AGREEMENT BETWEEN HILLS OF GOLD WIND FARM PTY LTD AND MUSWELLBROOK SHIRE COUNCIL

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Committee:

1. Notes the Letter of Offer from Hills of Gold Wind Farm Pty Ltd and concerns of staff;
2. Resolves that the preferred option for transport of long, heavy and otherwise oversize components is Option 1 as outlined in the Letter of Offer from Hills of Gold Wind Farm Pty Ltd;
3. Authorises the General Manager to continue to negotiate with Hills of Gold Wind Farm Pty Ltd on a road usage fee, Indemnity Deed and Bond for asset failure that exceeds general dilapidation, and the need for dilapidation surveys; and
4. Authorises the General Manager to remove Council's objection to SSD 9679 where staff are satisfied with the results of negotiations with Hills of Gold Wind Farm Pty Ltd.

MINUTES OF THE STATE SIGNIFICANT DEVELOPMENT COMMITTEE MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, MUSWELLBROOK ON MONDAY 5 JULY, 2021 COMMENCING AT 3.35PM.

6.2 MANGOOLA COAL EXTENSION PROJECT - VOLUNTARY PLANNING AGREEMENT

RECOMMENDED on the motion of Cr Ledlin and Cr Scholes that:

The Committee

1. Notes the draft Voluntary Planning Agreement between Muswellbrook Shire Council and the Mangoola Coal.
2. A report be submitted to Council to place the draft Voluntary Planning Agreement on public exhibition for 28 days and any public submissions be considered prior to Council moving to adopt the Voluntary Planning Agreement.

7 DATE OF NEXT MEETING

TBD

8 CLOSURE

The meeting was declared closed at 4:01pm.

.....	.....
Ms F. Plesman	Cr J. Ledlin
General Manager	**Chairperson**

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 8 JULY, 2021 COMMENCING AT 4.00PM.

PRESENT: Cr R. Scholes (Chair) and Cr J. Ledlin

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Deputy General Manager), Mr D. Hagger (Chief Financial Officer), Mr J. Hogan (Financial Controller) and Mrs M. Sandell-Hay (PA to General Manager).

1 APOLOGIES AND LEAVE OF ABSENCE

Nil

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Minutes of the Finance Review and Advisory Committee held on 18 June 2021, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 BUSINESS ARISING

Nil

5 BUSINESS

5.1 JUNE 2021 MONTHLY FINANCIAL REPORT

RECOMMENDED on the motion of Cr Ledlin and Cr Scholes that:

The Financial Report for the month ending 30 June 2021 be noted.

5.2 REPORT ON INVESTMENTS HELD AS AT 30 JUNE 2021

RECOMMENDED on the motion of Cr Ledlin and Cr Scholes that:

Information showing Council's investments as at 30 June 2021 be noted.

5.3 DEBT RECOVERY POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Debt Recovery Policy be submitted to Council for review and adoption.

5.4 INVESTMENT POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Investment (Financial Securities) Policy be submitted to Council for review and adoption.

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 8 JULY, 2021 COMMENCING AT 4.00PM.

5.5 FINANCIAL RESERVES MANAGEMENT POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Financial Reserve Management Policy be submitted to Council for review and adoption.

5.6 BORROWINGS POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Borrowing Policy be submitted to Council for review and adoption.

6 DATE OF NEXT MEETING

15 July 2021

7 CLOSURE

The meeting was declared closed at 4.27pm.

.....	.....
Ms F. Plesman	Cr R. Scoles
General Manager	**Chairperson**

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 15 JULY, 2021 COMMENCING AT 4.00PM.

PRESENT: Cr J. Ledlin (VC) (Chair) and Cr R. Scholes.

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Deputy General Manager), Mr D. Hagger (Chief Financial Officer), Mr J. Hogan (Financial Controller) and Mrs M. Sandell-Hay (PA to General Manager).

1 APOLOGIES AND LEAVE OF ABSENCE

Nil

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Minutes of the Finance Review and Advisory Committee held on 8 July 2021, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 BUSINESS ARISING

Nil

5 BUSINESS

5.1 HARDSHIP POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Hardship Policy be submitted to Council for review and adoption.

5.2 JUNE 2021 MONTHLY FINANCIAL REPORT

RECOMMENDED on the motion of Cr Ledlin and Cr Scholes that:

The Financial Report for the month ending 30 June 2021 be noted.

5.3 FINANCIAL MANAGEMENT POLICY

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Financial Management Policy be submitted to Council for consideration.

6 DATE OF NEXT MEETING

22 July 2021

7 CLOSURE

The meeting was declared closed at 4.12pm.

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 15 JULY, 2021 COMMENCING AT 4.00PM.

.....	.....
Ms F. Plesman	Cr J. Ledlin.
General Manager	**Chairperson**

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 22 JULY, 2021 COMMENCING AT 4.06PM.

PRESENT: Cr J. Ledlin (Chair) and Cr R. Scholes (Phone).

IN ATTENDANCE: Ms F. Plesman (General Manager), Mr D. Finnigan (Deputy General Manager), Mr D. Hagger (Chief Financial Officer), Mr J. Hogan (Financial Controller) and Mrs M. Sandell-Hay (PA to General Manager).

1 APOLOGIES AND LEAVE OF ABSENCE

Nil

2 CONFIRMATION OF MINUTES OF PREVIOUS MEETING

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Minutes of the Finance Review and Advisory Committee held on 15 July 2021, a copy of which has been distributed to all members, be taken as read and confirmed as a true record.

3 DISCLOSURE OF ANY PECUNIARY AND NON-PECUNIARY INTEREST

Nil

4 BUSINESS ARISING

Nil

5 BUSINESS

5.1 MANGOOLA (SSD 8642) PLANNING AGREEMENT

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

Finance Committee Recommends that Council accept the Mangoola Extension Project Planning Agreement.

5.2 JUNE 2021 MONTHLY FINANCIAL REPORT

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The Financial Report for the month ending 30 June 2021 be noted.

5.3 CARRYOVER PROJECTS FOR 2021/22

RECOMMENDED on the motion of Cr Scholes and Cr Ledlin that:

The carryover project report be noted.

6 DATE OF NEXT MEETING

TBA

MINUTES OF THE FINANCE REVIEW AND ADVISORY MEETING OF THE MUSWELLBROOK SHIRE COUNCIL HELD IN THE LOXTON ROOM, ADMINISTRATION CENTRE, BRIDGE STREET, MUSWELLBROOK ON THURSDAY 22 JULY, 2021 COMMENCING AT 4.06PM.

7 CLOSURE

The meeting was declared closed at 4.17pm.

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Ms F. Plesman	Cr J. Ledlin
General Manager	**Chairperson**