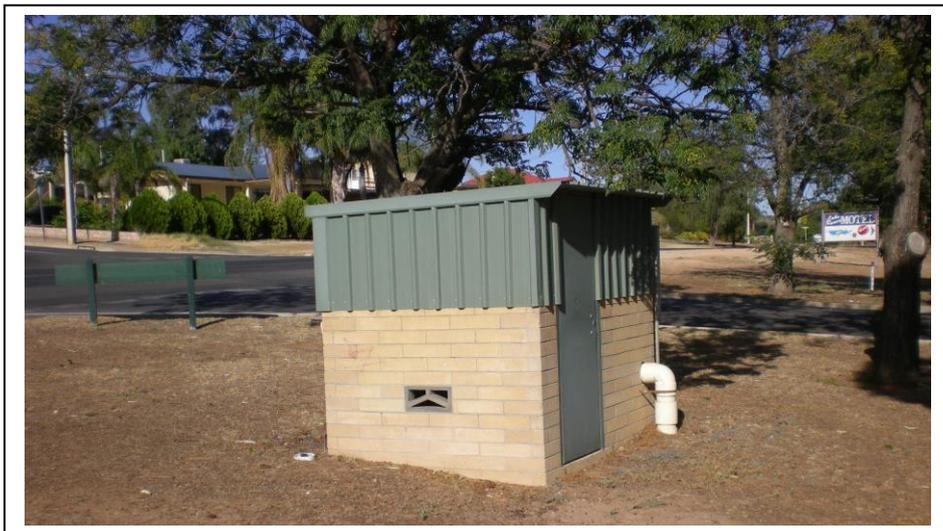




## **CWMS Asset Management Plan**



November 2016



CWMS PUMP STATIONS (LAMS) CAPITAL WORKS PROGRAM	PUMP STATION	DEFECT	RISK	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
	BA10	Supply & install Duo pump system, new concrete lid, 2 x Davey DTO 8K sump pump, new control box to meet DH standards, new HDPE pipe work manifold, 50mm S/Steel Non return valves & isolation valves, flexible hoses & fittings, McBern odor filter, clean up of site & commission	The existing concrete sump lid makes it difficult to remove pumps and creates a safety hazard. There is an existing building over the structure which is starting to corrode due to the gases coming from the chamber. This pump station is fitted with a single pump only without any vent, which does not meet DH requirements		35,875								
	G2	Removal of existing building, new concrete lid, new control box and controlled to meet DH standards, new Valve pit new HDPE pipe work manifold, 50mm S/Steel Non return valves & isolation valves, flexible hoses & fittings, support stand, clean up of site & commission	Existing building is in poor condition, it hinders the removal of the pumps as the pumps have been changed to submersible a number of years ago, there is no longer a requirement for the building		31,065								
	BE5	Supply & install Duo pump system, new concrete lid, 2 x Davey DTO 8K sump pump, new control box to meet DH standards, new HDPE pipe work manifold, 50mm S/Steel Non return valves & isolation valves, flexible hoses & fittings, McBern odor filter, clean up of site & commission	The pump station is fitted with submersibles which are currently fitted with a shed over the top. To remove the pumps a section of the roof has to be removed which creates an unsafe work practice. The age of the existing concrete floor and below ground pipe work is deteriorating. There is no vent stand fitted to this pump station which creates a smell within the pump station and the surrounding area						35,875				
	BE9	Supply & install Duo pump system, new concrete lid, 2 x Davey DTO 8K sump pump, new control box to meet DH standards, new HDPE pipe work manifold, 50mm S/Steel Non return valves & isolation valves, flexible hoses & fittings, McBern odor filter, clean up of site & commission	The existing concrete sump lid makes it difficult to remove pumps and creates a safety hazard. This pump station is fitted with a single pump only without any vent, which does not meet DH requirements						35,875				
	BE16	Supply & install Duo pump system, new concrete lid, 2 x Davey DTO 8K sump pump, new control box to meet DH standards, new HDPE pipe work manifold, 50mm S/Steel Non return valves & isolation valves, flexible hoses & fittings, McBern odor filter, clean up of site & commission	The existing concrete sump lid makes it difficult to remove pumps and creates a safety hazard. This pump station is fitted with a single pump only without any vent, which does not meet DH requirements						35,875				
	BE19	Remove existing building, new concrete lid, new control box reuse existing controller, new valve pit, new HDPE pipe work manifold, 50mm S/Steel non return valves & isolation valves, guard rail system & fittings, clean up of site and commissioning. Supply and install vent stand, 9m x 150mm galvanised vent stand, support stand for vent stand, 150mm PVC elbow and fitting concrete and form work for support stand, core 150mm hole on the side of the pump sump, excavation, cable location, crane truck hire to stand ppe, clean up site, confined space entry and vacuum hire to clean rubbish from pump sump and grout vent stand.	The pump station is fitted with submersibles which are currently fitted with a shed over the top. To remove the pumps a section of the roof has to be removed which creates an unsafe work practice. The age of the existing concrete floor and below ground pipe work is deteriorating. There is no vent stand fitted to this pump station which creates a smell within the pump station and the surrounding area.						36,278				
	BA3	Supply & install vent stand, 9m x 150mm galvanised vent stand, support stand for vent stand, 150mm PVC elbow & fitting, concrete & form work for support stand, core 150mm hole on the side of the pump sump, excavation, cable location, crane truck hire to stand pipe, clean up site, confined space entry & vacuum hire to clean rubbish from pump sump & grout vent stand	This pump station is not fitted with a vent to prevent the build up of gases, which does not meet DH requirements.						9,403				
Unallocated capital works beyond 5 year horizon										10,000	10,000	10,000	10,000
<b>TOTAL</b>				\$80,802	\$216,899	\$107,625	\$36,278	\$9,403	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000

NOTES: Beyond 5 years program not established, provisions made for modest capital works on pump stations.



CWMS Capital, Planned preventative maintenance provision 2016 to 2026	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
LAMS Capital	80,802	216,899	107,625	36,278	9,403	10,000	10,000	10,000	10,000	10,000
Other planned preventative maintenance			50,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
<b>TOTAL</b>	<b>80,802</b>	<b>216,899</b>	<b>157,625</b>	<b>112,278</b>	<b>84,403</b>	<b>85,000</b>	<b>85,000</b>	<b>85,000</b>	<b>85,000</b>	<b>85,000</b>

#### Notes

With decline in Capital expenditure on pump stations and Wastewater Treatment facilities in 2018/19 Council will invest additional expenditure in planned preventative maintenance on the CWMS drainage network. This will include establishing servicing schedules for items such as valves, inspection openings and flushing regimes. In addition there will commence a process of replacing sections of drain that have been identified as in poor condition and as such resulting in higher risk of failure.

Figures above do not represent total CWMS budget. Other costs include Trility annual charges for WWTP, electricity, insurances, licences, compliance, management (internal) costs after hours call out costs, emergency responses by Council or contractor, depreciation of assets, household desludging scheme, administration costs.

2018/19 Planned Maintenance to include condition assessment and risk categorisation of CWMS drains primarily in Barmera. Allowance for sectional replacement of very high risk sections of drain with potential for serious failure resulting in public health emergencies.

2019/20 Planned Maintenance and beyond to entail provisions for inspection of drains by camera for condition assessments (\$5,000 per annum), Sectional replacement of drains identified as of high risk of failure (\$40,000 p/annum), Servicing Inspection openings and pits (\$10,000 per annum) acquisition of strategic easements for existing section of CWMS network (\$20,000 per annum).