

Continuous Improvement Program



Power and Water is committed to ensuring that we meet the community expectations of improving the performance of the Leanyer Sanderson Waste Stabilisation Ponds (WSPs) facility and generate better outcomes for the community and the environment.

The Leanyer Sanderson Waste Stabilisation Ponds discharge is currently regulated through a Waste Discharge Licence issued by the NT Environmental Protection Agency (EPA).

The licence includes a continuous improvement plan which is in place to improve the quality of water being discharged into Buffalo Creek and reduce the likelihood of odour.

Following a recent independent audit undertaken by a Victorian EPA Facility Auditor and endorsed by the NT EPA, Power and Water has updated the Continuous Improvement Program to reflect the recommendations of the independent audit. The program includes:

Scope	Details	Objective
Upgrade infrastructure	<ul style="list-style-type: none">• \$16M upgrade to Inlet Works including Dual Process Odour Control Unit	<ul style="list-style-type: none">• Improve the performance of the Leanyer Sanderson WSP and reduce odour
Enhance current performance	<ul style="list-style-type: none">• \$6M since 2010 desludging 4 ponds of the Leanyer Pond Set• \$2M in 2018 desludging Sanderson 1 Pond• Improving pond flows and hydraulics• Trial aeration and mixing• Trial of a biological additive• Trial of alkalis dosing to control PH• Creation of an effective vegetation buffer between the facility and the community	<ul style="list-style-type: none">• Improve pond performance and contribute to odour improvement
Monitor, model and research	<ul style="list-style-type: none">• Monitor environmental conditions including odour emissions• Review of upgrade options to improve effluent discharge qualities to Buffalo Creek.• Monitor the Buffalo Creek receiving environment• Improve our inter-pond monitoring and measurement capacity• Research to improve knowledge of waste stabilisation pond process and environmental impacts including odour from the ponds• Further apply water quality modelling at Buffalo Creek	<ul style="list-style-type: none">• Develop models to be used to monitor pond performance and identify conditions for odour emission leading to system improvements• Test alternative discharge strategies