

Project: Waste Water Treatment Plant at Resort Park.

Waste type: Waste water from all locations, toilet blocks, laundry, kitchens, pools, storm water etc. Onsite treatment plant as not connected to town sewerage.

Problems:

1. Very offensive odour drifting throughout resort.
2. Treatment tank requiring regular pump-outs due to bottom sludge build up.
3. Treatment plant 20 plus years old. Existing aeration system worn-out and causing odour to emit as diaphragm diffusers eroded. Existing aeration pump causing many noise complaints and high energy user.
4. Very little detention time in tank during peak holiday season causing untreated waste to flow through to ponds resulting in odours and surface sludge.

Solution:

1. Turn off existing aeration and install For Earth low energy air stone aeration.
2. Dose For Earth Bio Plus at toilet block pits. Surface spray treatment tank and ponds to reduce odour and accelerate biological breakdown.

Results:

1. Approximately 80% odour reduction. Lack of detention time not allowing full odour elimination. More regular application would improve results.
2. Surface sludge in ponds no longer visible.
3. Treatment tank not requiring pump-out due to anaerobic bacteria digesting the bottom sludge.
4. No noise complaints from aeration pump.



Sewerage Treatment tank with air stone aeration installed.