



Harris Environmental

ON-SITE WASTEWATER MANAGEMENT

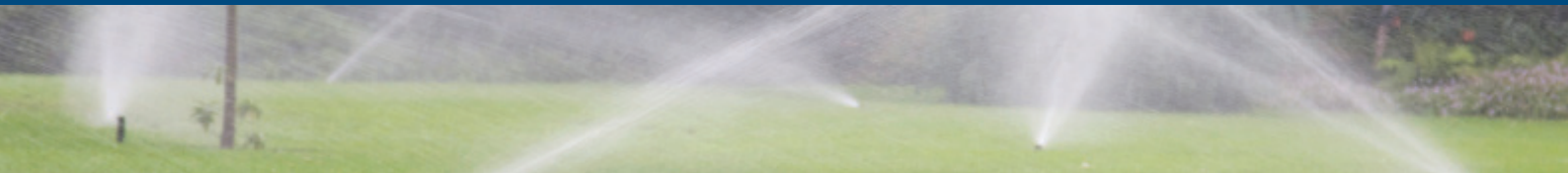
Commercial on site wastewater management systems are required for small to large-scale commercial developments situated on lands without connection to the municipal sewerage system. They are designed to treat wastewater flows of greater than 2,000L per day, with large scale systems treating in excess of 100,000L per day.

These systems are distinct from their domestic counterparts in that wastewater strengths are commonly

different (most often greater), as is their composition. In addition, the approval process is more complex, usually requiring monitoring to ensure ongoing effluent quality. In some instances, commercial needs can be met by the use of a suitably designed, scaled-up domestic system with the inclusion of storage to even out irregular flows (high weekend use etc). Commonly though, the amount of wastewater generated, its high strength or particular composition necessitates the installation of a system selected for its treatment capacities.

TYPES OF DEVELOPMENTS THAT MIGHT REQUIRE COMMERCIAL WASTEWATER TREATMENT SYSTEMS:

- FUNCTION CENTRES/ WEDDING VENUES
- REMOTE COMMUNITIES
- MINE SITES
- INSTITUTIONS (SCHOOLS, CHILDCARE CENTRES)
- ROADSIDE SERVICE CENTRES
- PLACES OF WORSHIP
- TOURIST ACCOMMODATION AND RESORTS (HOTELS, MOTELS, LODGES, CARAVAN PARKS, CAMPGROUNDS, GLAMPING SITES)
- MICROBREWERIES AND WINERIES
- RESTAURANTS AND CAFES



OUR TEAM OF ENVIRONMENTAL ENGINEERS AND SCIENTISTS CAN ADVISE ON:

- Analysis of actual and predicted flow rates, water meter readings, historical data
- Audit of water usage, identifying potential reductions and/or beneficial changes to practices
- Creation of Masterplans to account for future development plans
- Soil surveys and site assessments as required
- Location and sizing of irrigation areas
- Selection of irrigation method best suited to your property
- Liaise with relevant Council and Water NSW
- Obtain and interpret quotes from manufacturers of grease traps, tanks, treatment systems, irrigation systems
- Work with you to develop a set of system selection criteria to best meet your needs: aesthetics, site constraints, positioning above or below ground, proximity to neighbours, cost, footprint etc)
- Provide assessment of capital and running costs (consumables, service contracts, testing, laboratory sampling etc)
- Access other professionals needed for detailed design (hydraulic engineers etc)

COMPARISON OF WASTEWATER TREATMENT SYSTEMS IS A LARGE UNDERTAKING AND REQUIRING SIGNIFICANT TECHNICAL KNOWLEDGE. THESE SYSTEMS INVOLVE A SIGNIFICANT CAPITAL INVESTMENT- SO THEY NEED TO BE CORRECTLY SIZED FOR THE LOADS GENERATED AND DESIGNED TO ACCOMMODATE FUTURE PLANS

DETERMINING THE NECESSARY LEVEL OF TREATMENT REQUIRES SPECIALIST KNOWLEDGE OF CONDITIONS IMPOSED BY REGULATORY BODIES AND A QUALIFIED ENVIRONMENTAL CONSULTANT OR ENGINEER IS REQUIRED TO COMPLETE SOIL AND SITE ASSESSMENTS. TREATMENT SYSTEM MANUFACTURERS KNOW THEIR SYSTEMS, BUT NOT YOUR SITE. ANALYSIS OF THE WASTEWATER STRENGTHS CAN MINIMISE YOUR CAPITAL OUTLAY- WASTEWATER IS UNIQUE TO THE SITE.

FOR A NO OBLIGATION QUOTE
CALL US TODAY

0425 335 245

OR EMAIL SITE PLANS AND PROJECT INFORMATION TO
info@harrisenvironmental.com.au