

FACT SHEET

ENHANCED GRAVITY SEPARATOR SYSTEMS (EGI™ and EGII™)



Clearmake Enhanced Gravity Separator Systems (EGI™ and EGII™) are clarification and separation treatment systems developed for improving waste water quality to a level acceptable for sewer or environmental discharge, where filtration is not required. Both systems are skid based and compact for easy installation, with a capacity to manage flow rates of <700L/h per unit.

EGI™ – DISCHARGE TO SEWER

The EGI clarification and separation process is completely chemical free. Depending on the level of hydrocarbons and contaminants in the input process water, the EGI™ may be all that's required to produce water quality acceptable for returning to sewer.

Waste water from a wash-down pad is collected in a beach pit or holding tank and pumped into a clarifier, allowing for solids to settle. The clear phase of water is then pumped through an oil/water/solids separator and finally discharged to sewer. A manual release valve allows sludge remaining in the clarifier to be removed or returned to the holding tank.

For greater efficiency and effectiveness with an unroofed wash-down area, the system can incorporate a rain sensor to identify if the water source is rainfall or from the wash-down pad.

Rainwater can be captured and stored for re-use or diverted to stormwater, rather than treated and pumped to sewer. An override switch will also provide the opportunity to permit wash-down during wet weather.

System requirements for discharging to

sewer must be approved by your local Trade Waste Officer on a case by case basis.

EGII™ – DISCHARGE TO ENVIRONMENT

Discharge to the environment requires a higher quality water output, so the EGII™ applies a similar process to the EGI™, with the following additions:

- A dosing pump injects and mixes flocculant into the water upon entry to the clarifier. The flocculant agglomerates suspended solids particles into flocules. These clusters of bulky flocules then settle at the base of the clarifier. The introduction of flocculant simply improves the clarification process, where a higher quality water output is required.
- A control panel is included to automatically monitor operation of the system and periodically open an automatic sludge decant valve to discharge waste build up to the underground holding tank.

System requirements for discharging to the environment must be approved by the Environmental Protection Authority (EPA) on a case by case basis.

Applications: Commercial applications requiring improved waste water quality where input process water is of a standard that does not require filtration, disinfection or treatment beyond clarification and solids separation e.g. remote vehicle wash-down facilities not requiring water recycling for re-use.

More Information:

Log on to www.clearmake.com.au or call **1800 700 267**.

Clearmake is a member of



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