

# PERFORMANCE REPORT



## CS-PFR-18-4 Roseisle Distillery Suds Pond

### Background

Diageo contacted ANSS looking for an environmentally sustainable and cost-effective solution for the draining, emptying and rinse down of the water treatment suds pond on site at Roseisle Distillery. It is key to Diageo's environmental targets that waste leaving the site is minimised to reduce CO2 emissions and that no waste is sent for disposal in landfill.

### Solution

ANSS conducted extensive analysis of the samples provided and concluded the waters in the pond were suitable for onsite treatment to levels that allowed for direct discharge through the site consent ensuring discharge parameters were met and bettered with the solution proposed.

Solids and silts removed from the pond were transported for soils treatment at an Augean-operated facility, allowing us to exercise both cost control and full Duty of Care ownership for these wastes.

The RENA unit was successfully introduced to the Offshore Oil & Gas Industry in 2013 by Augean North Sea Services for the treatment of Drilling Waste Slops Water offshore, minimising the requirement to ship large volumes of the waste water to shore for subsequent treatment. RENA Technology is not limited to the drilling slop application.

The RENA unit has been shown to remove virtually all fine particulate solids and oils from water to levels below 5ppm very successfully (<3ppm on the recent trials).

### Result

Water was drawn from the suds pond with the use of air pumps to feed the RENA Unit, with the treated/processed water transferred to a storage tank until tested by Diageo and approved for batch discharge.

The process continued until the pond was emptied beyond the pump's capability. Our vacuum air mover unit was then deployed to effect final removal of the solids remaining at the base of the pond lining. The waste received turned out to be highly liquid and malodorous (sulphide) and was not suitable for biotreatment or stockpiling. It was processed via stabilisation. The process involved blending with APCR containing residual lime content. This had the effect of solidifying the sludge like material and neutralising the emission of H<sub>2</sub>S gas.

The RENA unit processed and discharged a total volume of 394m<sup>3</sup> of pond water. A total volume of 28 tonne of silt solids were extracted from the base of the pond for onward transport to an Augean North Sea Services treatment centre.

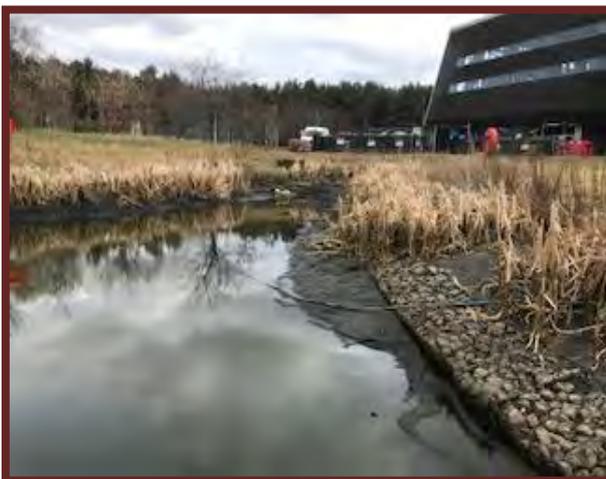


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