

## Case Study

# Craigmore Leachate Treatment Plant



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### Client:

RiverRidge Recycling

### Principal Contractor:

Colloide

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### Location:

Craigmore, Ringsend,  
Garvagh.

### Project:

Leachate Treatment

Colloide Engineering Systems were contracted by RiverRidge Recycling to complete the design and build of a new Leachate Treatment plant for Craigmore Landfill Site. The Leachate treatment plant upgrade required a contractor to provide one of three options to treat up to 120m<sup>3</sup> / day of leachate arriving in from the various cells of the landfill site.

The plant must achieve discharge consent levels as specified by Northern Ireland Environment Agency (NIEA) primarily ammonia levels of 40mg/l.

Colloide's scope of works included the integration of a new leachate treatment plant to an existing leachate treatment works in order to meet the trade effluent consent standards. Colloide's solution involved the installation of an Sequential Batch Reactor (SBR) process for the new treatment plant.

# Project Deliverables

## The main components of the system

Colloide provided three solutions to overcome the consent level legislation, the client opted for solution one. Solution one involved upgrading the existing leachate treatment plant with the Colloide's new specially designed SBR process that includes;

- A Fine Bubble Aeration System (Reduces Overall Running Costs).
- Chemical Dosing and
- Scada Systems.

Colloide's SBR process is based on biological treatment of wastewater, facilitated with high performance levels that in turn can be applied to municipal, leachate and industrial wastewaters. If you require a bespoke SBR process plant to be designed specifically Colloide can design, deliver, install and commission a system to meet your requirements.

