

MISSION STATEMENT

Our Mission is to provide safe and effective water and wastewater treatment, that protects our waterways and water quality, supplements our planet's most valuable resource, and meets EU legislative standards at the most competitive prices.



Our advanced engineering and innovative technology improves the environment we all share, and strives to benefit you, our client.

PROFILE

Colloide Engineering Systems is an established multi faceted engineering company specialising in the water and wastewater treatment industry. The company is based in Co.Tyrone, Northern Ireland with an office in Birmingham Great Britain, and has a strong management with a combined 80 years experience in the engineering field.

OUR VALUES

Colloide employees work in an environment that encourages professional development and personal growth. Our commitment to clients and colleagues, extends to the wider society where we take our responsibility of protecting the environment seriously and care for the community in which we live and work in.

OUR PROMISE

The demand for advanced engineering within the relevant industries is increasing. Environmental legislation is forever tightening for both the business and the consumer. Colloide strive to serve this demand in the water, wastewater & process engineering industries, and offer full commitment in providing reliable, high quality, and cost effective solutions.

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"We operate a comprehensive Quality Assurance scheme, ensuring our first class products and services are matched by our methods of delivery."

P. McGuinness
General Manager

KEY FACTORS



OUR STRENGTHS CAN BENEFIT YOUR COMPANY

Strong technological ability

Excellent range of new products and development

High quality delivery of service and after sales service

Strong R&D capabilities

High quality equipment guaranteed

Key staff readily accessible

ISO9000 Quality Management System

Good reputation established among end users and partnerships

Expertise of staff

Time of project completion is reliable

Competitive prices





"Our Professional client orientated approach enables us to offer competitively priced products & services while maintaining engineering excellence."

C.Quinn
Marketing Executive

OUR CLIENTS

"We appreciate that the key to our success is in satisfying our clients' needs."

M.McKenna
Construction Manager

Colloide's team of experienced engineers offer a variety of services and products to our clients, from initial consultancy through to the design and construction of complete systems.



We work with clients within the water, wastewater and process engineering industries, both in the private and public sectors, serving regional, national and international clients. Some clients include:

Acheson & Glover, various County Councils, Bord Na Mona Environmental, Glassdon Recycling, & NI Water Service.



"Health and safety is paramount to our operations and we continually monitor and upgrade our systems."

M. McKenna
Construction Manager

PRODUCT SUMMARY

"Industry trends show an increased demand for advanced engineering."

D. Lane
Mechanical Design Engineer

**STAND ALONE
TECHNOLOGIES USED BY
COLLOIDE**

- **Membrane Filtration**
- **Up Flow Clarifiers**
- **Submerged Membrane Bioreactor Systems**
- **Dissolved Air Flotation Systems (very high efficiency levels)**
- **Multi Cell Media Filters**
- **Continuous Backwash Sand Filters**
- **Sludge Dewatering**
- **Package Treatment Plant**

Colloide Engineering Systems offer these technologies as stand alone installations or as part of an overall plant contract.

Offering a range of services from specialist process consultancy through to turn-key plants, Colloide Engineering Systems provide reliable, high quality solutions to many existing problems and innovative answers to upcoming process and environmental issues, from single households to large scale projects.



"We work closely with clients and our flexible approach to the scope of work undertaken allow our clients to maximise efficiency and reduce costs."

C.Quinn
Marketing Executive

"Our engineers have the expertise & experience to handle all issues relating to water and wastewater treatment plants."

P.McGuinness
General Manager

Colloide's strengths lie in their technical ability and innovative vision. Products are designed, built and commissioned to their client's needs. The performance and efficiency of our equipment place it at the forefront of water treatment technology.

Colloide offer process guarantees to strengthen their commitment to meeting clients' needs.

"Our strong focus on research & development place us at the forefront in design technology providing better water treatment solutions."

D.Lane
Mechanical Design Engineer

Colloide use proven designs for water treatment plants which results in shorter lead times, better quality of products and minimal time & disruption on site.

The extensive after sales service which includes stocking of all standard membranes and other components, differentiates Colloide from their competitors.

Colloide back all of this up with a team of technical staff, who can respond immediately to the client's needs.

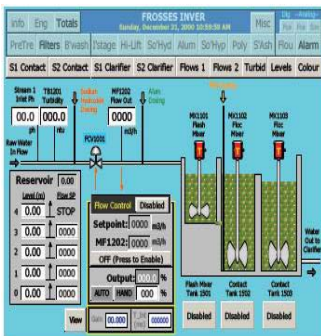


CASE STUDY 1

FROSSES INVER WWTP - WASTEWATER TREATMENT PLANT - DONEGAL COUNTY COUNCIL

THE PROBLEM:

Donegal County Council required the design and construction of a new 60m³/hr water treatment plant to produce a 1,440m³/day in parallel to the existing plant which is designed to treat 40 m³/hr and the plant must be kept operational at all times during construction hence the new plant must run alongside the existing one.



THE SOLUTION:

Colloide provided the design and installation of mechanical, electrical and civil elements for a new 60m³/hr water treatment plant, a pumping station, instrumentation and other ancillary elements, including refurbishment of the existing treatment plant and control building.

THE BENEFITS:

Most economical plant design to increase throughput using a second water treatment stream at existing plant.

Advanced control system and SCADA package incorporated into the new and existing plant.

The work included all the civil works associated with the full and complete installation of structures, pipework and site finishes.



CASE STUDY 2

DRUMMEE LANDFILL - ENNISKILLEN - WASTEWATER TREATMENT PLANT

THE PROBLEM:

A new landfill site in Enniskillen which produced wastewater with a very high degree of pollutants. The wastewater has to be treated before being discharged to the sewer.

THE BENEFITS:

Compact treatment plant.

Plant has the ability to deal with very strong wastewater and large fluctuations.



THE SOLUTION:

Colloide provided an SBR treatment plant including inlet and outlet storage, control system, and SCADA package.

Control system allows remote monitoring and control.

Plant designed for long life in harsh environment with minimal maintenance requirements.

CASE STUDY 3

CLARIFIER SYSTEMS

- PORTRANE WWTW
- FINGAL COUNTY COUNCIL

THE PROBLEM:

Portrane wastewater treatment works was unable to meet the increase for wastewater treatment with new housing developments in the area and so needed to expand their plant.

The plant was due major renovation works in 10 years, however an immediate solution was needed.

An increase in the effluent standard was stipulated by the local authority.

CASE STUDY 4

FEENAGH WWTW

- LIMERICK COUNTY COUNCIL



THE PROBLEM:

Limerick County Council required a plant capable of treating domestic wastewater flows up to 300 pe. Discharge standards needed to be 10mg/l BOD and 10mg/l SS.

THE SOLUTION:

Colloide provided a treatment system based on MBR technology. The plant was designed to be as flexible as possible to deal with daily fluctuations in flows and also allow for a low flow at initial start up. The overall plant was designed in as modular a way as possible as the Client wanted the possibility of extending it in the future.



THE SOLUTION:

Various areas of the existing wastewater treatment works had to be expanded.

The existing final settlement tanks were heavily overloaded.

Colloide provided two package clarifiers including feed system and automatic controls to double the capacity of the final settlement stage.

THE BENEFITS:

Standard of treated effluent very high.

Short lead time.

Package design meant practically no civil construction required.

Very low level of disruption on site (two clarifiers installed in one day).

Lower cost than conventional concrete clarifiers.

Compact plant.



THE BENEFITS:

The plant's on site construction and commissioning time was very short.

The plant can deal with wide variation in flow and types of effluent. The advanced control system coupled with the membrane technology allows minimal operator input.

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