



About Us

With many years of experience providing solutions for a wide range of environmental applications, our highly skilled and trained specialist teams are well equipped to work with you to find the most effective solution for your project.

Our extensive knowledge and experience working in many different environments including SSSI sites and sensitive areas for clients of all sizes from private to civil engineering and infrastructure, on land, above and below water.

Wherever your project, our nationwide coverage allows Murlac to service your project requirements.



Temporary Dams Solutions

At Murlac, we understand that every temporary damming project is unique. For this reason, we work closely with our clients from start to finish, ensuring complete project satisfaction at all stages. utilising our in depth knowledge, industry leading partnerships and range of specialist equipment, we can offer full turnkey solutions for the installation of temporary dams, including;

- Preparation & Planning
- Risk Assessment & Environmental Awareness
- Temporary Dams - Specification & Design
- Specialist Installation
- Fish Rescue
- Pumping Services
- Silt Management



Preperation & Planning

In Water Site Survey

At Murlac we are highly experienced at carrying out in water site surveys and assessments to deliver the most cost effective and practical solution.

Our marine operatives are trained to the highest standards in the industry and will analyse all aspects of the project including: watercourse conditions, working requirements, environmental impact and flood risks.

Temporary Works Designs

Murlac holds bespoke and generic temporary works designs for our proprietary damming systems. All with a unique capability for adapting to individual projects. Each system has been designed with the considerations of working spaces, bed conditions, flow rates and water depths.

We understand not every job is the same, we are a company driven to provide the best solution for you. If an off the shelf solution is not suitable, we can design and deliver one bespoke to your project.

Risk Assessment & Environmental Consultancy

Risk Assessment & Methodology

Every project has a different set of inherent risks. From working in a river within close proximity to live boat traffic, to working on watercourses in SSSI or other sensitive areas.

Murlac will assess each project individually and provide site specific risk assessments, method statements and site layouts with actions to minimise the risks on site to both the work force and the surrounding environment.

Environmental Awareness

Protecting the environment is one of our top priorities at Murlac. We work closely with our clients aiding them when liaising with The Environment Agency, SEPA and other environmental representatives. Murlac can provide early drafts of all documents to help ensure all relevant plans and flood risk activity permits (FRAPS) are issued in a timely manner and are in place for the beginning of the works.

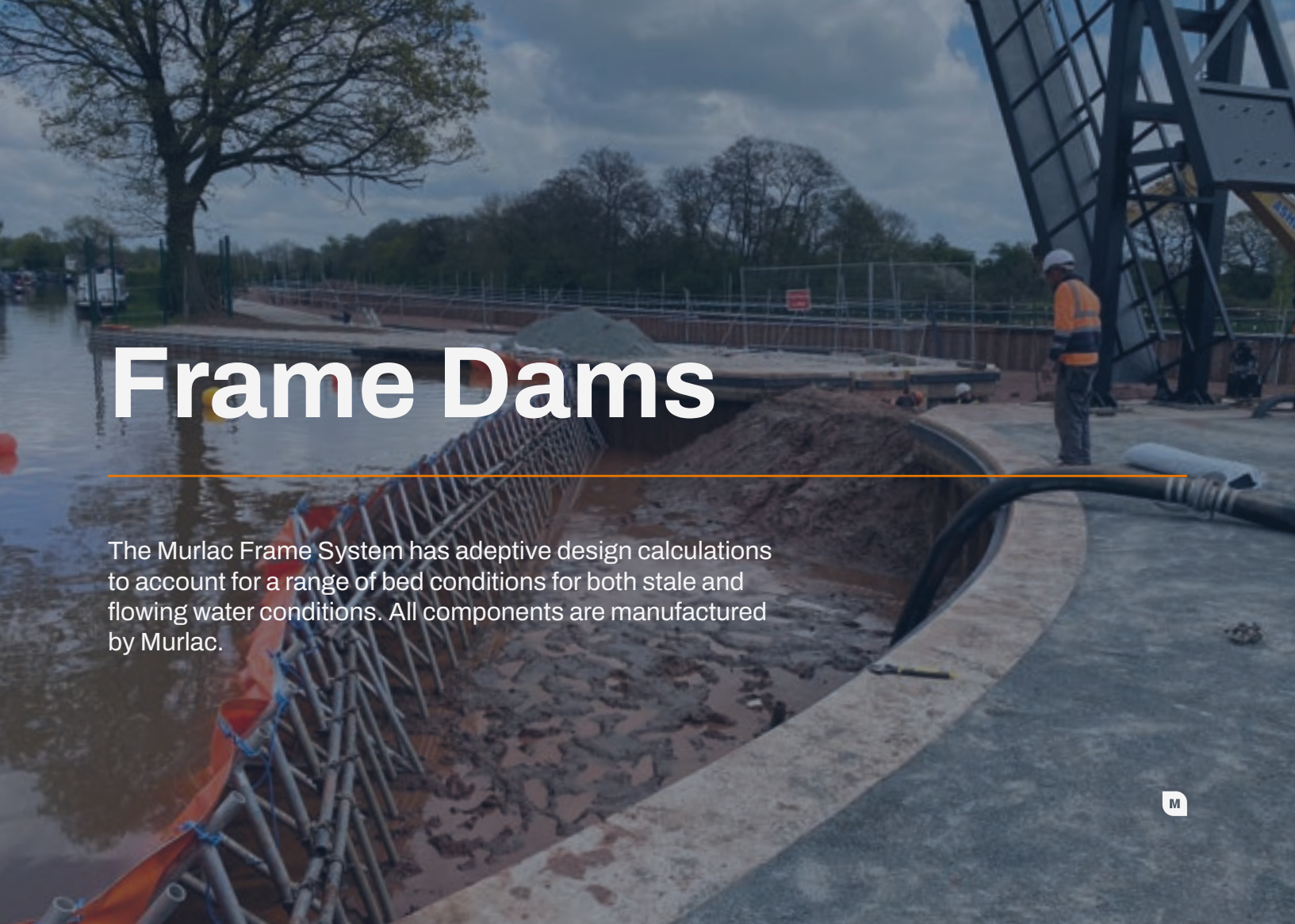
These are used to ensure all works are done to minimise the environmental footprint and reduce potential risks to wildlife, infrastructure and residential areas.

Specialist Installation Teams

Murlac's specialist in water operatives cover the entirety of the UK and further afield. We work closely with environmental representatives, meaning we have a vast knowledge of common standards and practices within the Environmental sector. This means Murlac can offer support and guidance for works within environmentally sensitive areas throughout the entirety of the project.

Murlac's installation teams are highly trained and experienced working safely and effectively in all types of water conditions. This gives them the advantage of being able to overcome any challenges a project may be facing.



A construction site for a frame dam. In the foreground, a curved concrete structure is being built, with a large black hose running along its edge. To the left, a temporary structure made of metal poles and orange plastic sheeting is in place. In the background, a worker in an orange safety vest and white hard hat stands near a large metal structure. The site is surrounded by trees and a body of water under a cloudy sky.

Frame Dams

The Murlac Frame System has adaptive design calculations to account for a range of bed conditions for both stale and flowing water conditions. All components are manufactured by Murlac.

Frame Dam Overview

Frame Dams are the strongest and most adaptable option from our selection of temporary dams, with the ability to be constructed in intricate formations to maximise working space while maintaining safe control measures. Our in-house manufacturing team fabricate these to our unique temporary works designs that will accommodate all adaptations and needs, suited to your site requirements.

This temporary damming system also has the ability to incorporate flume pipes to allow a constant flow and passage of fish through the works area in a safe and controlled manner.

This can avoid the requirement of costly over pumping and fish migration management.

The Frame Dam is also designed to be overtopped if the water height exceeds its maximum control limits, this means the Frame Dam can also be used as a temporary weir to naturally increase water levels to aid with water storage.

How Do They Work?

All temporary dam installations are capable of being installed by hand in difficult to access areas. Once our frames are installed, we then enclose them with a heavy duty PVC membrane that spans the length of the framework and along the bed.

Our dedicated team then move onto pumping out water from the works area, creating a negative pressure which pushes against the PVC membrane creating a hydrostatic seal.

Once de-watered, an inspection of the temporary frame dam is carried out. A handover is then issued to the client with guidance on safety checks as required.



Adaptable System

Depending on your site requirements, Murlac can incorporate options that will assist and enhance the project.

These include flume pipes that allow water to pass by and through the works area in a safe, controlled manner. These include variable maximum control depths for flood-sensitive areas and navigation management to assist the safe passage of boat traffic during temporary dam works in navigable waterways.



	1000mm	1500mm	2000mm	2500mm	3000mm
Standard Temporary Works Design	✓	✓	✓	x	x
Bespoke Temporary Works Design	✓	✓	✓	✓	✓
Hire	✓	✓	✓	✓	✓
Sale	x	x	x	x	x
Installation	✓	✓	✓	✓	✓
<450mm Flume	✓	✓	x	x	x
750mm Flume	x	✓	✓	✓	✓
>900mm Flume	x	x	✓	✓	✓



GeoDams

Murlac GeoDams are manufactured using high strength materials. They are lightweight and quick to install. Available for both hire and sale in a range of heights & lengths.

GeoDam Overview

Murlac GeoDams are a simple and quick to use, lightweight dam system which is cost effective and leaves minimal environmental impact when deployed and removed.

GeoDams are fabricated by Murlac from a high strength woven geotextile material stitched together with seamless joins and safety lockstitch, unlike competitors which use a chain stitch which can easily unravel if split.

Our GeoDams have been designed in such a way that they mould and maintain pressure in any environment or space.



How Do They Work?

Murlac GeoDams use positive pressure from the water inside to create a water tight seal which is very useful for situations where the water is not as fast and the GeoDam control height is not exceeded. GeoDams are designed to control 75% of their overall height. For example a 1.2m high GeoDam is designed to control 900mm of water from a firm bed.

The two internal polythene water filled tubes are encased within the outer geotextile tube to prevent rolling.



Easy To Use

GeoDams can be deployed without the need for specialist assistance. Aside from the unique design, our GeoDams also consist of a durable, puncture-proof material making them great for use on construction sites.

We provide 24/7 support and advice for installation and maintenance guidance.

Specialist site teams are also available to provide watercourse assessments, site surveys and installations.



Hire & Purchase of GeoDams

GeoDam temporary water filled dams are available to purchase and hire for all projects.

We also offer a buyback on GeoDams at the end of the project ensuring you get the most competitive rates from the UK's leading temporary dam manufacturer.

We have a large stock of both hire and new GeoDams ready for immediate despatch for delivery.

If the required dimensions are not in stock we have an in-house specialist manufacturing team ready to adhere to bespoke specifications.



Inflated Height	Max Water Depth	GeoDam Width	Launch Allowance
0.6m	0.45m	1.32m	0.96m
0.9m	0.68m	1.98m	1.4m
1m	0.75m	2.2m	1.6m
1.2m	0.9m	2.6m	1.9m
1.5m	1.13m	3.3m	2.4m
1.8m	1.35m	3.9m	2.9m
2.4m	2.4m	5.28m	3.8m

Material	Puncture Resistance	Water Filled Tubes	Fabrication
74 kN/m	9.2 kN	Twin Super Strength	Seamless Welded
Woven Geotextile	UV Stabilised	Extruded Polythene	Lockstitched

A construction site for a water dam. In the foreground, a large, light-colored, ribbed PVC pipe is being installed, partially submerged in water. In the background, three yellow excavators are working on a dirt embankment. A large pile of brown soil is visible to the left. The background is filled with green trees under a cloudy sky.

Water Dams

PVC WaterDams are manufactured from heavy duty PVC for long duration installation.

Bulkhead fill and drain ports are located across the Water Dam to allow controlled filling and draining.

Water Dam Overview

Murlac's Water Dam temporary cofferdam system is a standalone portable dam which is easy to transport, install and remove. Murlac Water Dams are ideal for creating dry working areas in rivers, lakes and canals as well as diverting water to reduce flow rates to allow work to be undertaken.

Murlac Water Dams are self contained structures, designed to control and divert water. Our Water Dam is manufactured in the UK from a heavy duty PVC by our specialist manufacturing team.



Internal Baffle for Stability

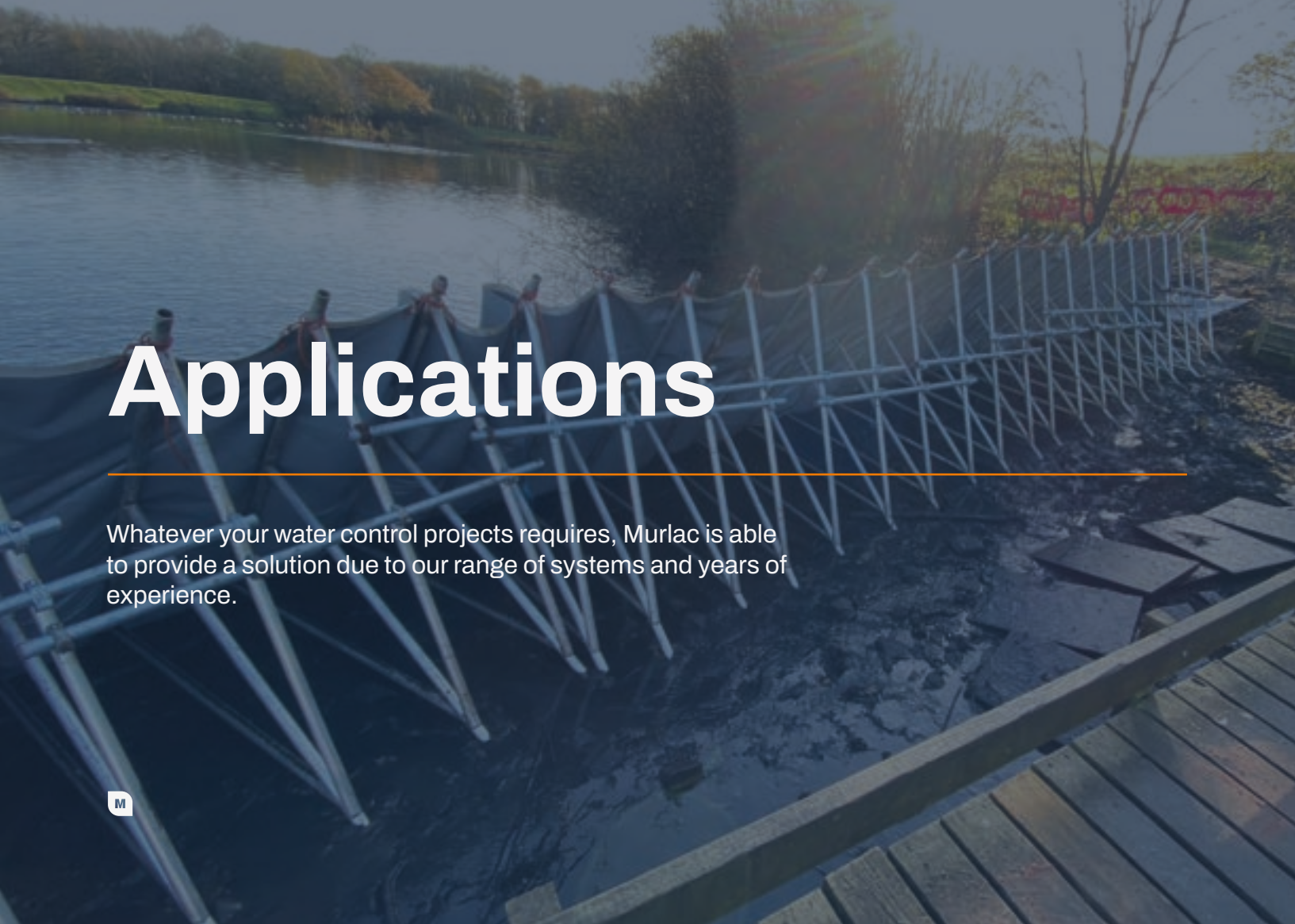
Stability for the Murlac Water Dam is created by either one or two integral baffles which are fixed to the top and bottom of the cofferdam. When water is present only on one side of the dam, the baffle locks and prevents the cofferdam from rolling. The inner baffle(s) inside the Water Dam is the key behind how the dam works.

Water Dams are capable of being overlapped to create any length or configuration to suit your site requirements.



Inflated Height	Max Water Depth	Water Dam Width	Launch Allowance	Overlap Requirements
0.6m	0.45m	1.32m	0.96m	0.9m
0.9m	0.68m	1.98m	1.44m	1.4m
1m	0.75m	2.2m	1.6m	1.8m
1.2m	0.9m	2.6m	1.92m	2.3m
1.5m	1.13m	3.3m	2.4m	2.7m
1.8m	1.35m	3.9m	2.88m	3.1m
2.4m	2.4m	5.28m	3.84m	3.6m

Material	Baffle	Fill Ports	Drain Ports	Fabrication
900gsm PVC	Pre-tensioned	100mm	200mm	Seamless Welded
UV Stabilised	PVC Mesh	HDPE Bulkhead	HDPE Bulkhead	Lockstitched



Applications

Whatever your water control projects requires, Murlac is able to provide a solution due to our range of systems and years of experience.



Applicable Solutions

Murlac has experience working in all types of watercourses within the UK whilst operating in some of the most challenging conditions.

Our approach to each project relies upon the strength of the relationships that we continue to develop and nurture with our customers and supply partners in order to achieve effective solutions to projects of all shapes and sizes.

Murlac has a proven track record in a multitude of unique projects including: scour protection, river realignment, and numerous infrastructure projects.



Rivers & Brooks

Whilst working within an active environment, Murlac Temporary Dams have the ability to manage undulating bed conditions and fluctuating water levels. Each Temporary Dam solution is adaptable to ensure a safe and dry working area can be provided.

- ✓ Scour Protection
- ✓ Flood Prevention
- ✓ Remedial Works
- ✓ River Re-alignment



Reservoirs & Lakes

These environments can be so diverse when it comes to bed conditions, silt volumes & water levels. Murlac's various damming options are perfect for providing a bespoke solution for the environment you're working in.

- ✓ Slipway Construction
- ✓ Revetments
- ✓ Pile Installation
- ✓ Headwall Construction
- ✓ Jetty & Boathouse Installation



Canals & Marinas

Murlac has many years of experience working within canals across the UK and overseas. Operating within these conditions can have its challenges, but with our experience, we are able to provide full package solutions, creating unique formations which can even allow a Temporary Dam to be installed and maintained whilst leaving the canal live and navigable.

Due to the soft bed conditions typically found within clay-lined canals, Murlac's Temporary Frame Dams have a bespoke Temporary Works Design suitable for working within this condition. Our minimal footprint is utilised to create more downforce and penetrate the softer bed conditions, which reduces any risk of sliding once under pressure.

- ✓ Marina Construction
- ✓ Bank Repairs
- ✓ Gate & Sluice Repairs
- ✓ Foundation Inspections
- ✓ Lock Repairs



Transport & Infrastructure

Most Infrastructure projects are time sensitive and must be completed with critical deadlines. All of Murlac's temporary dams can be rapidly deployed to enable you to make the most of your program. Due to the simple design Murlac's temporary frame dam can be installed in an infinite length meaning that all projects big and small can be covered.

Due to the vast experience Murlac has on working in the infrastructure sector we are able to put an emphasis on your works and give you solutions that are most practical and cost effective for your project.

- ✓ Cable and Pipe Laying
- ✓ Bridge Installation and Repairs
- ✓ Culvert Inspections
- ✓ River Re-alignment
- ✓ Scour Protection



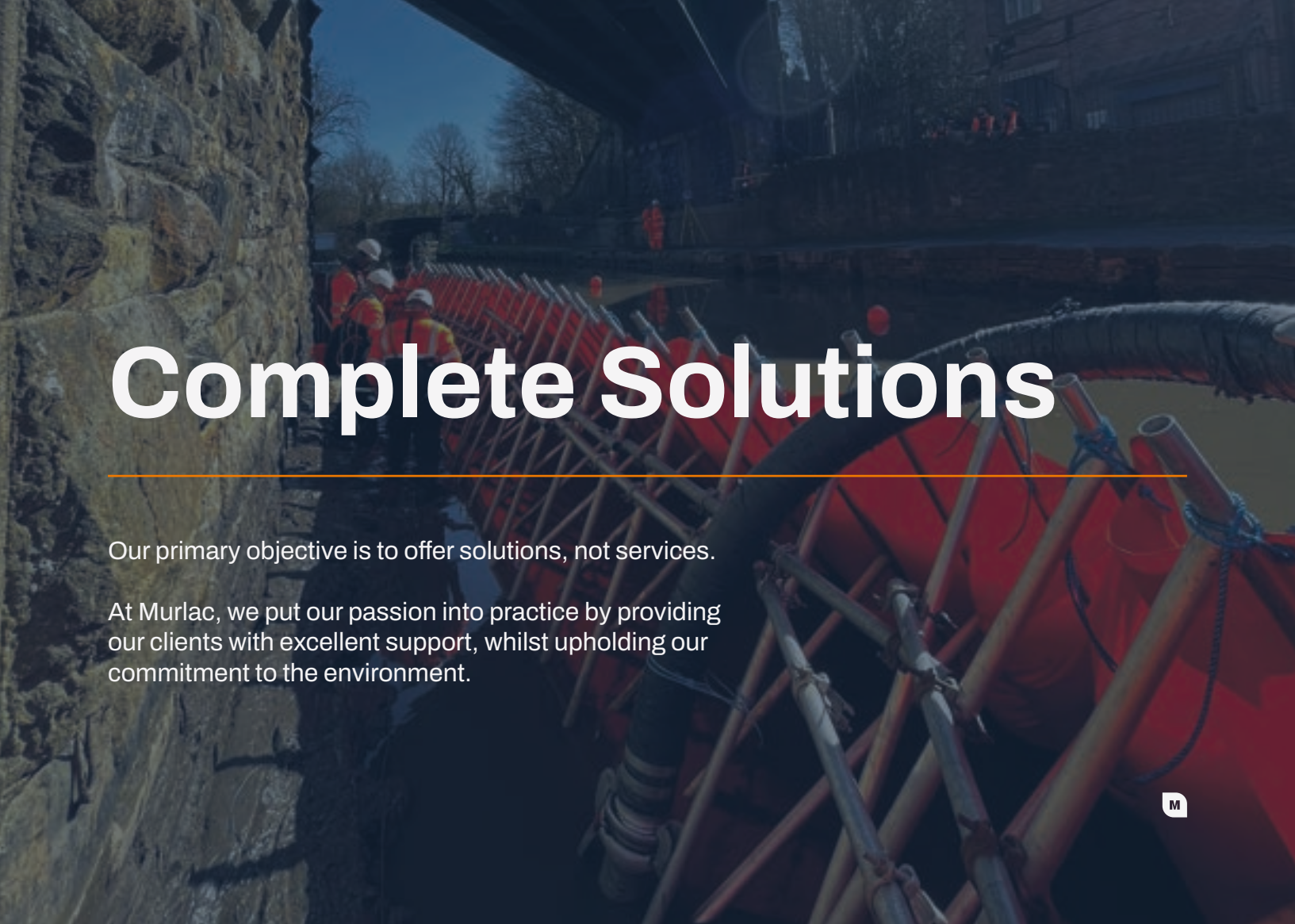
Environmental Works

With Murlac's long-standing experience in environmental consultancy & manufacturing of pollution control products, we're able to provide solutions to environmentally sensitive works.

All our Temporary Dam systems have been designed to account for a minimal impact to the environment, unlike sheet piling, earth bunds and other traditional cofferdam methods.

- ✓ Weir Removal & Repairs
- ✓ Fish & Eel Pass Installation
- ✓ Sluice Gate Installation
- ✓ Habitat Installations





Complete Solutions

Our primary objective is to offer solutions, not services.

At Murlac, we put our passion into practice by providing our clients with excellent support, whilst upholding our commitment to the environment.



Overview

To ensure that our customers are fully equipped and set to go forward with their projects, Murlac offers a range of complimenting services. Some of the services include but are not limited to;

- Dredging and De-silting
- Provision of Floating Pontoons and Safety Boats
- Pumping for De-watering and Over-Pumping
- Silt and Pollution Management
- Fish Rescue and Environmental Permitting.

Murlac's goal is to provide safe, cost-effective systems of work to facilitate the provision of dry working areas, allowing our clients to focus on the rest of the project.



Fish Rescue

As a legal requirement, all wild fish should be managed and transported safely. At Murlac, we ensure that we comply with these requirements by providing a professional rescue team that will maintain fish welfare and mitigates any environmental risks.





Welfare & Transportation

Fish Rescue is one of the supporting services offered by Murlac providing the most humane and effective way to relocate fish in deep or shallow waters in a safe manner.

The process is carried out by a team of professionals, using environmentally approved electrical equipment and netting techniques to ensure the highest welfare for the fish. The fish are then transported to a more secure location within the same environment and mitigating any environmental risks to the fish.



Legislations & Permits

Wild Fish are protected by UK & EU legislation, due to the potential works taking place, Murlac works closely with Environmental Agencies to guarantee that all regulations and permits are carefully met.

It is a legal requirement for any works taking place within a watercourse where habitats are being affected, Murlac wants to ensure that all our works are to the highest standard and meet all legislative requirements.



Pumping Solutions

An effective pumping system plays a vital role when creating a dry working area.

Our diverse range of pumping systems and extensive knowledge allows us to provide the most suitable setup for your project.



Dewatering Pumps

Murlac can provide an industry-leading range of submersible pumps, perfect for de-watering and maintaining a dry works area within the watercourse.

For larger works areas and over pumping Murlac can also offer a wide range of high-powered suction pumps, that can be monitored and activated via the use of an additional telemetry application.

When supplying pumps Murlac's team of specialist operatives will be on hand to set up the pumps and make sure the entire system runs as it should before being handed over to the client, helping you stay focused on the project at hand.



Overpumping

Overpumping is required when a watercourse is completely blocked and no water is able to pass through the works area, using state of the art equipment pumps can be set to come on if the water level rises to increase the flow past the works area and prevent a flooding situation.

Murlac can supply fish protection baskets around the pumps that adhere to EA specifications.



Silt Management

Murlac ensures environmental compliance creating a full turnkey solution from start to finish, we manufacture a comprehensive selection of products designed for managing silt, pollution and contamination.



Silt Curtains

Silt Curtains reduce the turbidity of the water and allows suspended silts to settle, reducing the risk of any contamination or pollution.

Buoyancy is provided by a closed-cell polyethylene foam, which will not degrade or break down. Ballasting of the silt curtain is achieved by a galvanised chain in the bottom pocket of the Silt Curtain.

Silt Curtains are available for purchase or hire at various lengths and depths.



Silt Mats

Silt Mats are a cost-effective solution designed to reduce turbidity, erosion and trap suspended sediment in ditches and shallow watercourses.

The sediment that passes over the silt mat is captured by the 100% bio-degradable high strength natural coir, hessian fibres, and virgin spruce-wood filling.



Dewatering Bags

Silt Filter Bags, sometimes referred to as Sediment Bags or Dewatering Bags are an effective solution to containing sediments and silts discharged from a range of dewatering and over pumping applications.

The neck of the filter bag allows for the discharge pipe to be placed inside the silt bag and secured with the supplied tie.

Available in multiple sizes to best suit your project.





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