

# Aquaculture Consultancy Services



The **AquaBioTech Group** is an international consulting company strategically located in the centre of the Mediterranean on the island of Malta, although operating globally with clients and projects in over fifty-five countries.

The **AquaBioTech Group** undertakes a variety of aquaculture, fisheries, marine surveying, aquarium and aquatic environmental projects through its regional offices and selected partners throughout the world.

Aquaculture is a key business area of the company and recirculation systems are a product speciality.



## SITE ASSESSMENTS

For new developments the **AquaBioTech Group** can undertake a complete assessment for projects, including site selection, feasibility studies, financial reviews, due-diligence assessments and technical / non-technical surveys.

For existing developments the **AquaBioTech Group** undertakes complete technical assessments and trouble shooting for all types of aquaculture operations, developing detailed proposals for mitigation. The **AquaBioTech Group** also advises on environmental issues, such as discharge water quality, biosecurity and other matters necessary to ensure sustainable development.

## SPECIALIST AUDITS

The **AquaBioTech Group** is often called upon to undertake a variety of specialist assessments for aquaculture projects. These audits are undertaken for entities such as insurance companies, financial institutions, corporate investors and all sizes and types of aquaculture companies:

### Due diligence audits

Technical and financial due diligence audits are undertaken in conjunction with legal and finance auditing teams to assess the overall status of a potential aquaculture investment asset. The **AquaBioTech Group** employs a unique approach based on extensive management expertise, market awareness and comprehensive technical knowledge of aquaculture operations to present detailed insight of an operation's strengths, weaknesses and opportunities.

### Risk management audits

For insurance purposes, project planning or as an internal exercise, risk management audits are an important tool to identify, assess and prioritise threats. The **AquaBioTech Group**, combining multidisciplinary expertise in aquaculture operations and animal welfare can offer a complete approach to aquaculture risk management, utilising quantitative and qualitative methods to assess risk and recommend cost-effective mitigation measures.

### Biosecurity audits

Biosecurity is one of the most critical aspects in food production and examples of major losses due to biosecurity breaches which are commonly found worldwide. The **AquaBioTech Group** places a heavy emphasis on biosecurity and animal welfare in every auditing process, providing comprehensive, cost-effective and up-to-date recommendations to lower the risk of losses due to disease.

Stand-alone biosecurity audits are a much sought-after service offered by the **AquaBioTech Group**. These are undertaken employing an analytical process, considering the latest international epizootology publications, regional biosecurity status and alerts, the farm's environment, the farm's past and current operations and the study of affected populations and individuals.

## ENVIRONMENTAL IMPACT ASSESSMENT

The **AquaBioTech Group** offers a dedicated professional team, able to tackle all levels of assessments ranging from Environmental Statements to full Environmental Impact Assessments (EIA).

# Aquaculture Consultancy Services



## OFFSHORE AQUACULTURE

The **AquaBioTech Group** is able to provide a complete service from project design all the way through to installation and commissioning. Projects of all sizes are undertaken, including assistance in procurement of equipment, technologies and staff for new projects.

Experienced in designing offshore aquaculture projects for some of the most exposed sites, our engineers work with cage manufacturers and mooring experts to safely move fish farms further offshore.



## LAND BASED AQUACULTURE

With extensive global experience in the design and construction of recirculation aquaculture systems (RAS) for new projects and retro-fits, the **AquaBioTech Group** offers a wealth of knowledge, assisting in management and monitoring of land-based production facilities.

From flow-through systems to super intensive RAS, the **AquaBioTech Group** undertakes a variety of projects including full project engineering, through to biological aspects of production systems for mainstream and emerging species. All projects include an online monitoring system that allows our staff to continuously monitor the system's performance from our head office.

## HATCHERIES

The **AquaBioTech Group** offers a number of hatchery solutions ranging from small and medium-scale units through to full scale commercial hatcheries. These designs include some of the very latest technologies that allow for complete recirculation of the culture water. Hatchery projects are undertaken for a wide range of species from salmon and trout, through to Asian seabass and shrimp. An example of the designs and technology we offer can be viewed at **ABT Innovia**, the **AquaBioTech Group**'s research & development facility which also hosts a small-scale, fully functional fish and shrimp hatchery with live-feed production.

## SHRIMP FARMING

Shrimp farms from large-scale extensive to small-scale intensive operations can be designed in-house. The company also offers technical assistance to existing farms in areas such as broodstock domestication, maturation and hatchery production.

## BROODSTOCK

Broodstock control and management is a difficult, yet essential part of any hatchery operation. Ensuring that the broodstock deliver the quantity and quality of eggs required at the right time involves considerable planning and understanding of broodstock nutritional requirements and environmental control.

## AQUATIC RESEARCH FACILITIES

Research involving aquatic organisms is increasing and with this comes the need to create highly customised facilities. The **AquaBioTech Group** has been entrusted with designing, building and installing some of the most specialised aquatic research facilities ever made. The company is able to undertake projects for all types of medical, veterinarian, nutritional and biological / ecotoxicological research.



## LONG-TERM PROJECT ASSISTANCE

The **AquaBioTech Group** firmly believes that long-term support for projects is the key to success. The group offers its clients the opportunity to make use of the extensive in-house team of personnel to assist in other areas of their project.