



THE STORAGE & TREATMENT OF DREDGINGS

**+ Fully compliant & cost effective waste
management services for dredgings**
from inland waterways, harbours and ports



WHO WE ARE

AUGEAN IS LEADING THE WAY THROUGH COMPLIANCE DRIVEN SERVICES AND FACILITIES FOR THE UK'S WATERWAYS & PORT AUTHORITIES



GROUP PROFILE

Augean specialises in managing hard-to-handle wastes.

We have UK waste treatment and disposal infrastructure and we focus on delivering best environmental outcomes.

We service the Infrastructure and Construction, Renewable Energy, Nuclear & Radioactive, Processing and Manufacturing, and Oil and Gas sectors.

Augean is one of the UK's leading operators in the treatment of hard to handle wastes, including dredgings from inland waterways such as canals and rivers, as well as from harbours and ports.

Our services for dredgings provide the following benefits:

- + A compliant and cost-effective alternative to both land-spreading and sea disposal
- + Acceptance of wet or dry, contaminated or non-contaminated dredgings
- + Large permitted engineered storage lagoons enabling significant volumes to be handled
- + Treatment facilities located in Teesside (near quayside) and near Peterborough
- + Following treatment, either recovery or disposal options available

KEY FIGURES

2004
Augean established

2023
Future Industrial Services acquired

600~
Employees across the group (circa)

£138m
Total revenue (2022)

23 sites
Across the UK

OUR COMMITMENT TO HEALTH, SAFETY & COMPLIANCE

COMPLIANCE

We ensure that our waste solutions are sustainable by monitoring forthcoming changes in regulation and legislation so that compliance objectives are understood, communicated to our operational teams and customers, and new protocols are implemented as necessary ahead of regulatory deadlines.



HEALTH & SAFETY

Safety is consistently at the forefront of how we operate our business. We operate under a fully integrated Management System, which is accredited to ISO 9001, ISO 14001 & ISO 45001 standards.



WASTE MANAGEMENT

All wastes are managed with due regard to the waste hierarchy. We specialise in the development of innovative solutions for the UK's more hard to handle wastes, backed-up by industrial services and decommissioning capability for a complete end-to-end service.



EXPERIENCED STAFF

Our knowledge and experience set us apart from our competitors. We pride ourselves on having the most experienced and capable team who service our customers whilst drawing from decades of experience. Together, with our wide-ranging service offering, we can be confident that we will deliver the best quality of services.



CARBON FOOTPRINT AND ENVIRONMENTAL IMPACT

Our range of eco-friendly solutions aid in reducing the carbon footprint and environmental impact for ourselves and our customers. Our certification to ISO 14001 demonstrates our commitment for achieving legal and regulatory compliance to regulators and government. Focussing on best environmental outcomes.



RECOVERY OF DREDGINGS

WE ARE THE **LEADING UK PROVIDER** TO OFFER WASTE MANAGEMENT AND SPECIALIST INDUSTRIAL SERVICES TO THE **WATERWAYS AND PORT AUTHORITIES**

Augean's treatment services at its Port Clarence site in Teesside includes the treatment to recovery of dredgings.

At Port Clarence, Augean has an operation in place, which is permitted by the Environment Agency, for the use of treated dredgings, and other suitable wastes, as an environmentally beneficial material in the construction of an engineered low permeability separation structure.

This is designated a R05 recovery process and provides the following additional benefits:

- + Makes best use of treated dredgings through recovery
- + Provides a secure and robust end destination for treated dredgings avoiding the risk of dispersal of contaminated dredgings into the sea or uncontrolled onto land

By utilising our engineered storage lagoon, dredgings can be accepted wet at short notice before being treated. All dredgings are treated for use through our innovative recovery processes at Port Clarence.

Alternatively, dredgings can be treated ready for disposal to landfill at either our Port Clarence, Teesside facility, or our East Northants Resource Management Facility near Peterborough (ENRMF).

Using our engineered storage lagoons prior to treatment means that our clients avoid delays caused by the need to permit activities such as land spreading and disposal to sea. Additionally, as our lagoons do not require dredgings to be de-watered prior to arrival, we can accept dredgings with very short notice, all year round.

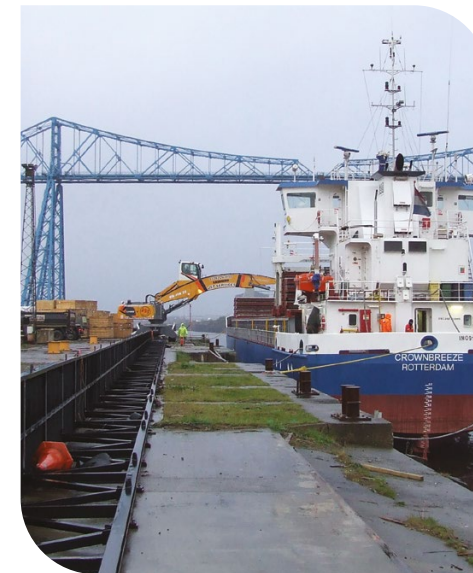


Dredgings Treatment & Disposal Methods

BENEFITS	AUGEAN	SPREAD TO LAND	LANDFILL	SEA DISPOSAL
Contaminated dredgings accepted	✓	✗		Subject to CEFAS Limits
Available all year round	✓	✗		✗
Can be taken wet	✓		✗	
Can be actioned quickly	✓	✗	✗	✗
No further consents required	✓	✗	✗	✗

Augean services the following sectors for hazardous and non-hazardous dredgings:

- + Canals and locks
- + Rivers, lakes and ponds
- + Ports, docks and quay sides



Carbon Benefits of Augean's Treatment Process

Augean has a deep expertise in chemically and physically understanding the interaction of the waste materials we receive. This allows the effective application of the Waste Hierarchy for re-use, recycling, recovery, disposal and importantly environment and climate protection.

The treatment of dredgings requires a dehydration and stabilisation process in a chemical matrix using cement or lime. However, the use of virgin cement or lime has a high carbon impact and therefore Augean uses the residual waste lime within other wastes, such as Air Pollution Control Residues (APCr) from renewable energy from waste and biomass plants, in the treatment process.

There are significant carbon reduction benefits from Augean's treatment processes. For example, typically for every 1,000 tonnes of dredgings treated using Augean's recovery process at Port Clarence, the total CO₂ savings are around 2,107 tonnes.^{1,2}

1: Calculations based on DEFRA Conversion Factors for Aggregates (landfill and open/closed loop recovery) <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>. 2: Calculations based on MJCA report reference AU/CF/5708/01/2023.

“Augean's treatment of dredgings provides a cost-effective alternative to sea disposal and land spreading.”

Terry Blanchard, Augean's Port Clarence Site Manager

OUR SITES

Port Clarence, Teesside



The site operates a treatment facility and separate disposal facilities for hazardous and non-hazardous wastes.

Additionally, Port Clarence has a large permitted engineered storage lagoon for dredgings.

Home to our Waste Recovery Park we are able to provide specialist treatment to a variety of non-hazardous and hazardous waste streams.

OUR TREATMENT PROCESSES:

- + Bio-remediation
- + Stabilisation
- + Neutralisation
- + Screening, sorting and segregation for subsequent recovery or disposal

THE WASTES WE CAN TREAT / DISPOSE:

- + Dredgings
- + Hydrocarbon contaminated soils
- + Metals contaminated soils
- + Asbestos & asbestos contaminated soils
- + Filter cakes and sludges
- + PFAS contaminated soils
- + Residues from renewable energy plants - APCr, Fly Ash, IBA and others
- + Road planings
- + Naturally Occurring Radioactive Materials (NORM)
- + Non-hazardous wastes (excluding bulky wastes)

ENRMF, near Peterborough



The site operates a treatment facility and a disposal facility for hazardous wastes. Additionally, ENRMF has a large permitted engineered storage lagoon for dredgings.

Our nearby Thornhaugh site accepts stable non-reactive wastes and non-hazardous wastes.

We also operate permitted treatment & transfer facilities located in other regions of mainland UK where we can receive, bulk and transfer wastes to our treatment & disposal facilities.

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- + Residues from renewable energy plants - APCr, Fly Ash, IBA and others
- + Road planings
- + Naturally Occurring Radioactive Materials (NORM)
- + Low Level and Very Low Level Radioactive Wastes
- + Non-hazardous wastes (excluding bulky wastes)

Case Study

DREDGING ON THE RIVER TEES



Augean receives over 21,000 tonnes of dredged sediment from the River Tees over an 8-week period

Project Overview

During August and September 2022, Augean received over 21,000 tonnes of sediment dredged from the River Tees. In this short timeframe, the dredgings were stored in Augean's newly constructed, permitted, storage lagoon at its Port Clarence site.

The dredgings included material contaminated with hydrocarbons and metals from the historic use of the River Tees. Augean worked closely with Land & Water to accept the dredged sediment which was dredged on the River Tees and offloaded by barge onto a nearby quayside into sealed HGVs for transportation a very short distance to Augean's Port Clarence site. The dredged material was treated by Augean with other wastes for recovery or disposal.

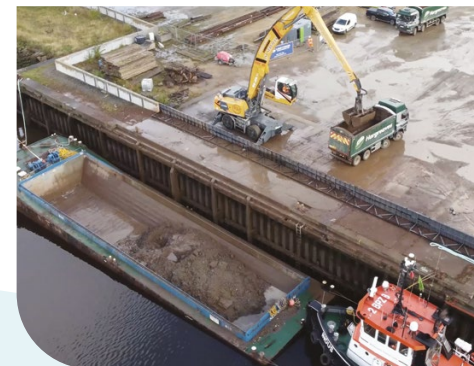
Project Name:	Sediment dredged from the River Tees
Volume:	21,000 tonnes
Project Scope:	Storage, treatment, recovery & disposal

Project Highlights

- + Dredgings stored at Port Clarence
- + Large amount of dredgings managed over a short period of time
- + Cost effective solution

“Augean worked closely with Land & Water to ensure we could successfully accept a large amount of dredgings over a short period of time.”

Joseph Newman, Augean's Commercial Head of Construction Wastes



OUR TEAM

Contact our team to find out more about our full range of services.



David Bumpstead
Business Development
Manager



Joseph Newman
Commercial Head of
Construction Wastes

OUR TESTIMONIALS

“Augean is an invaluable partner to our work, their solutions-based attitude and great customer service mean it can always be relied upon for our disposal needs.

- Environmental Engineer, Land & Water

“Utilising Augean's facilities for the storage, treatment and disposal of wet dredgings helped us complete the Titford Pools project both on time and on budget. With Augean's ability to accept material wet we were able to bypass the de-watering process, saving both time and money.

- Contracts Manager, Land & Water

OUR MEMBERSHIPS & CERTIFICATIONS



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