

# PHOENIX WHARF JETTY DEMOLITION



FRANKHAM



**CLIENT** Renewi UK Services Limited

**VALUE** £900,000

**DATE** October 2018 - December 2018

## **PROJECT**

### **A Bit About Renewi**

Renewi was created in 2017, following the merger of Shanks Group plc with Van Gansewinkel Groep BV. Renewi is a leading waste management company listed on the London Stock Exchange. Renew employ over 8,000 staff on 200 sites across Europe and North America.

### **What Works Were Carried Out**

With the help of a 600-tonne jack-up Commander (pictured) and a 400-tonne crawler crane, the contractor lifted the reinforced concrete jetty deck off its timber pile supports and transported it down river for suitable disposal.

The timber piles were then vibrated out of the river bed and disposed of accordingly.

The original demolition programme was estimated to last 10 weeks, however due to the colossal plant involved and favourable site conditions, the demolition was completed in just over 3 weeks.

### **Design Consultancy**

Architecture  
Interior Design  
Mechanical & Electrical Engineering  
Structural & Civil Engineering  
Maritime & Industrial Engineering  
Master Planning  
CDM  
Principal Designer

### **Surveying & Project Management**

Building Surveying  
Cost Consultancy  
Project Management  
Employer's Agent  
Topographical Surveying  
Measured Building & Laser Scanning

### **Environmental Sustainability**

Certification  
Environmental Surveys  
Sustainability Consultancy

### **Risk Management**

Health & Safety Consultancy  
Fire Management  
Asbestos Management  
Compliance Management  
Water Management

### **Business Specialists**

Business Consultancy  
Development Consultancy



FRANKHAM

### **What Did Frankham Do**

Frankham were approached Renewi (then Shanks Group) to prepare a tender package for demolition of the jetty structures at Phoenix Wharf located just off Rainham Marshes, Essex.

As part of the tender process, Frankham were commissioned to obtain licences from the below Statutory Bodies.

### **Port of London Authority**

The Port of London Authority (PLA) was created by the Port of London Act (1908). Its main roles are to protect the river's environment and maintain and supervise navigation covering 95 miles of the River Thames.

The process of obtaining consent from the PLA for dredging is as follows.

1. Outline project proposals and provide the PLA with plans showing extent of works
2. Request a sample plan and specification from the PLA
3. Submit a full application containing the following:
4. Relevant PLA forms
5. Water Framework Directive (WFD) assessment (further information below)
6. Provision for hydrographic surveys to be conducted before and after proposed works
7. Risk Assessments and Method Statements
8. Details of any potential effects of the proposed works on nearby sites

### **Marine Management Organisation**

The Marine Management Organisation (MMO) was established under the Marine and Coastal Access Act (2009). Its main roles are to promote and enforce sustainable development to marine environments around the UK.

The process of obtaining consent from the MMO for dredging is similar to the PLA application, however applications are submitted through an MMO portal with each party owning an account to ensure a central location for all documents and information.

### **Environment Agency**

The EA was created when the Environment Act was passed in 1995. Its key purposes are to "protect or enhance the environment, taken as a whole" and to promote "the objective of achieving sustainable development".

Protection of the environment are associated with pollution and flooding. The aim is to ensure that a healthy and diverse environment is maintained for present and future generations. The Environment Agency's remit covers almost the whole of England and 5,000 km of coastline.

To obtain consent for the proposed works a Flood Risk Activity Permit (FRAP) was required.



### **Design Consultancy**

Architecture  
Interior Design  
Mechanical & Electrical Engineering  
Structural & Civil Engineering  
Maritime & Industrial Engineering  
Master Planning  
CDM  
Principal Designer

### **Surveying & Project Management**

Building Surveying  
Cost Consultancy  
Project Management  
Employer's Agent  
Topographical Surveying  
Measured Building & Laser Scanning

### **Environmental Sustainability**

Certification  
Environmental Surveys  
Sustainability Consultancy

### **Risk Management**

Health & Safety Consultancy  
Fire Management  
Asbestos Management  
Compliance Management  
Water Management

### **Business Specialists**

Business Consultancy  
Development Consultancy

**Water Framework Directive Assessment**

The PLA required a WFD assessment to be completed to give consent. A WFD is a European Union (EU) directive set up to protect inland surface waters, coastal waters and groundwaters. Objectives are set for each water body in a River Basin Management Plan (RBMP) and are assessed every 6 years. The objectives relate to the ecological potential and ecological status of a given waterbody.

The steps to a WFD assessment are outlined below:

- Screening – can the activity be excluded as low risk? No further consideration is required if it can be excluded
- If not, identify the risks to receptors (scoping)
- Carry out an impact assessment
- Consider the impacts and mitigation to risk
- Submission of assessment

The proposed works were excluded as a low risk activity and therefore no scoping was required.

Once the licences were obtained, works were able to progress on-site but were restricted to between June and December (inclusive) to minimise potential disruption to migrating birds and fish.

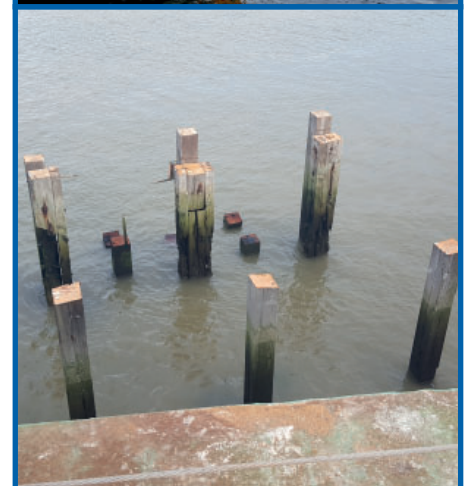
Frankham carried out site supervision and acted as Contract Administrator during the demolition phase.

To finish the project, navigation lights will be added to the remaining structures that are submerged at high tide to protect shipping.

**The Client Said**

*"The services have been very good in respect of initial survey work and recommendations to running a tender process through to contract administration and to project management. Also in obtaining statutory consents from PLA; MMO & EA."*

*"Very good support as the project related to marine activity. There was no knowledge within our business so guidance was crucial."*



**Design Consultancy**

- Architecture
- Interior Design
- Mechanical & Electrical Engineering
- Structural & Civil Engineering
- Maritime & Industrial Engineering
- Master Planning
- CDM
- Principal Designer

**Surveying & Project Management**

- Building Surveying
- Cost Consultancy
- Project Management
- Employer's Agent
- Topographical Surveying
- Measured Building & Laser Scanning

**Environmental Sustainability**

- Certification
- Environmental Surveys
- Sustainability Consultancy

**Risk Management**

- Health & Safety Consultancy
- Fire Management
- Asbestos Management
- Compliance Management
- Water Management

**Business Specialists**

- Business Consultancy
- Development Consultancy