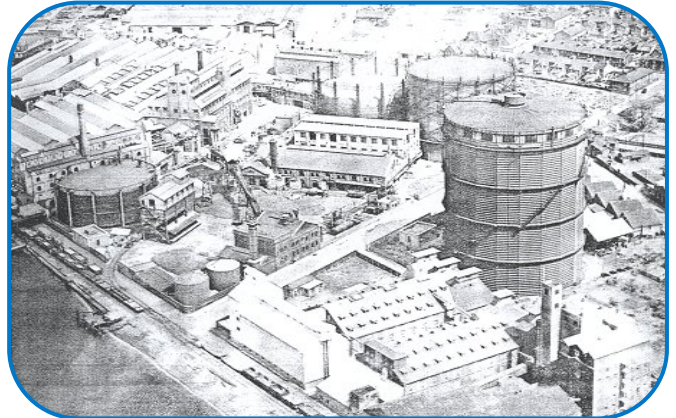


Orwell Quay, Remediation, Ipswich

Our Services

- Input to Master Plan and Phase I Desk Study
- Intrusive Contaminated Land Investigation
- Conceptual Modelling and Remediation Design and Strategy
- Source Pathway/Receptor Relationship
- Liaison with Regulators
- Implementation and validation
- Foundation Design



Remediation of Gas Works for Housing Development

CGL is involved, together with contractor Knight Environmental, in the £2 million remediation works of a former gasworks site on the waterfront of Ipswich Docks for development as a landmark complex including luxury apartments and commercial/retail space. **CGL** undertook the initial desk study, detailed site investigation, contamination risk assessment, remediation design and negotiation with the Regulators on behalf of the client.

The nature and extent of contamination, coupled with complex and sensitive geology, posed challenges for remediation, as the potential risk to the dock and the underlying chalk aquifer was high. The remediation design addressed both the long-term impact on the local environment and the immediate impact of the remediation works themselves on the surrounding hydrology and hydrogeology.

A mastic-sealed sheet piled wall was installed along the dock frontage to prevent contamination migration into the dock during excavation. In parallel, extensive groundwater treatment was undertaken using an *ex situ* groundwater treatment system.

To minimise volumes of material for disposal and import, the remediation involved reuse of the majority of the arisings from the site. Most of the contaminated materials were treated by bioremediation, with only severely contaminated sludges and tars, being disposed of off-site.

Client: Persimmon Homes