

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

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Code of Construction Practice Part B: Site Specific Requirements

Chambers Wharf - Revised 3 March 2014

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**Thames
Tideway Tunnel**



Creating a cleaner, healthier River Thames



Code of Construction Practice Part B: Site-specific requirements

Chambers Wharf

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Thames Tideway Tunnel

Code of Construction Practice Part B Chambers Wharf

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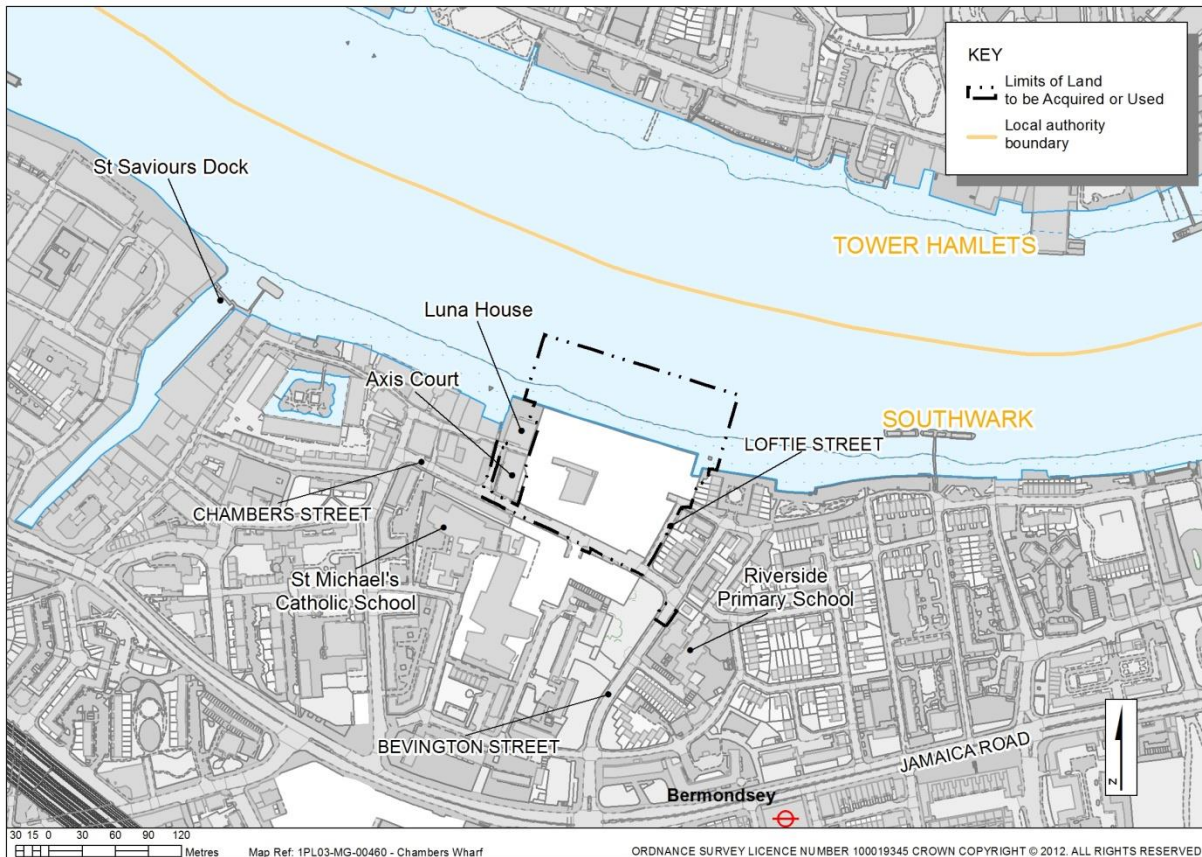
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1 Introduction

- 1.1.1 All works described in this document are to be managed and performed to meet the health and safety vision of 'Zero Incidents, Zero Harm, Zero Compromise' for the Thames Tideway Tunnel project (the 'project').
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
 - a. Part A: General requirements. These measures are applicable project wide.
 - b. Part B: Site-specific requirements. These are site-specific measures where deviations from the general requirements are indicated in Part A.
- 1.1.3 This document forms the *CoCP* Part B for the project works at the Chambers Wharf site and sets out detailed site-specific measures including working hours, site set-up and servicing arrangements, taking into account environmental matters and consultations with the London Borough of Southwark and other stakeholders.
- 1.1.4 For ease of reference, this document sets out site-specific issues and deviations from Part A; therefore where no site-specific measures are specified, reference should be made to Part A.
- 1.1.5 A plan of the location of the site is shown in Figure 1.1 overleaf.

Figure 1.1 Chambers Wharf: Site context and location plan



Note: For detailed limits of land to be acquired or used, refer to the drawings in the *Book of Plans*.

2 General requirements

2.1.1 As per the CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 The employer shall convene a community liaison working group in accordance with Schedule 4 of the Section 106 deed with the London Borough of Southwark.

4 Site operation

Topic	Site-specific requirement
Working hours	The following working hours shall apply to this site: <ol style="list-style-type: none"> standard extended continuous during construction of the main tunnel and secondary lining phase of both the

Topic	Site-specific requirement
	<p>main tunnel and the Greenwich Connection tunnel.</p> <p>When other types of working hours (CoCP Part A, Table 4.1) are required, these shall be subject to consent from the local authority under Section 61 of the Control of Pollution Act 1974.</p> <p>Except where any surface structures are deemed to be at risk and for essential activities to ensure safety of the works (eg, pump maintenance and tunnel boring machine inspections), the contractor shall incorporate within the construction programme a one-week site shut down during both the Easter and Christmas periods.</p>
Site layout	<p>The contractor shall use best endeavours to position required offices and storage containers or structures in the site layout to serve as noise barriers, having regard to effects on daylight and sunlight. Specifically, the contractor shall consider positioning three-storey offices or equivalent on the southwestern corner by Chambers Street or the western boundary of the site to act as noise barriers as this area of the site is closest to St Michael's Roman Catholic School and Axis Court.</p> <p>The site layout, hoarding and noise barriers in the west of the site shall be designed (where practicable) to minimise potential adverse sunlight/daylight impacts on the lower floors of Axis Court.</p> <p>The contractor shall refer to the Building Research Establishment Guidance <i>Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice</i> and carry out an assessment of the impact of loss of sunlight/daylight at properties adjacent to the site when developing the site layout.</p> <p>The contractor shall ensure that noise-generating activities are located as far away from sensitive receptors as is practicable.</p> <p>The contractor shall consult the local authority during the development of the site layout in accordance with section 2.7 of the CoCP Part A. This shall be for the following construction phases; site set up, shaft construction, tunnelling, secondary lining and site demobilisation.</p>
Site security/hoarding requirements	<p>The hoarding shall be planted and incorporate suitable art work on public-facing sections, as defined in CoCP Part A para. 4.3.4a and c.</p>

Topic	Site-specific requirement
	<p>The hoarding height shall be 3.6m around this site. A 5m high hoarding/noise barrier shall be erected on the eastern edge of the site.</p> <p>Hoarding panels shall be composed of reconstituted sheet material or similar, comply with noise attenuation requirements and weigh at least 7kg/m².</p> <p>The external appearance of the hoarding shall be approval by the local authority.</p>
River works	As per the <i>CoCP</i> Part A.
Other items	<p>The contractor shall produce a site-specific lighting management plan. The lighting scheme shall minimise impacts on terrestrial and aquatic ecology and include the use of low level directional lighting, where possible, while providing safe working conditions. In order to ensure off-site impacts of the lighting are minimised, the plan shall be submitted for approval of the London Borough of Southwark.</p> <p>On completion of the works the site shall be left in a safe condition, with secure hoardings, a level ground surface which does not increase flood risk in the surrounding area. Temporary drainage system will be installed if required. Measures to mitigate against any potential dust emissions will be implemented including no open stockpiles. The temporary arrangements will be finalised in liaison with LB Southwark.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The security barrier shall be positioned to enable a standard rigid tipper vehicle to sit wholly off the road while awaiting barrier operation.</p> <p>The site gates shall be solid panels and remain closed (except when vehicles are passing through) to mitigate noise and other impacts.</p>
Traffic management	<p>All vehicles shall enter/exit the site from Jamaica Road (A200) via Bevington Street/Chambers Street. The site access shall operate as right turn in, left turn out.</p> <p>During term time, no lorry movements to or from the site shall be scheduled to take place between 08:30 and 09:15 and 15:00 and 15:45 to avoid arrival and departure times at Riverside Primary School. The contractor shall provide traffic marshals to prevent</p>

Topic	Site-specific requirement
	<p>site lorries entering Bevington Street at these times. Parking along Chambers Street from the site entrance to Bevington Street and sections of parking on Bevington Street at the junction with Chambers Street shall be suspended during the construction period.</p> <p>A new pedestrian refuge on Bevington Street approximately 20m southwest of the Bevington Street/Chambers Street junction shall be provided to enable safe crossing.</p> <p>Signage shall be provided to inform pedestrians and cyclists of safe routes and the presence of construction vehicles.</p> <p>The contractor shall consider pedestrian and cycle diversion routes to reduce the number of conflict points with site construction traffic.</p>
Event restrictions	Event restrictions shall be confirmed in consultation with the local authority and Transport for London.
River transport	<p>Vessels shall not be loaded/unloaded or move onto or off the berth at night (22:00 to 08:00) in accordance with the <i>River Transport Strategy</i> (and subject to the derogation process detailed therein).</p> <p>Vessel engines shall not be left running during loading, unloading, or when moored overnight.</p> <p>Chambers Wharf shall not be used as a transshipment site for materials from other worksites.</p>
Other	N/A

6 Noise and vibration

Topic	Site-specific requirement
<p>Control measures</p> <p>The noise and vibration control measures shall be detailed (and may be modified or added to) in Section 61 consent applications to the local authority.</p>	<p>Except for the anchor piles, the contractor shall construct the cofferdam using push piling unless this is determined to be impossible. The anchor piles will be installed as far away from the closest residential receptors, including Luna House and 8-14 Fountain Green Square, as practicable.</p> <p>Where push piling is determined to be impossible, this shall be demonstrated by the contractor, who shall make an application to the local authority to use an alternative piling method through the Section 61 dispensation process (see Appendix A, Section A.1 in the <i>CoCP Part A</i>) or through contingency measures and arrangements if included in the</p>

Topic	Site-specific requirement
	<p>original Section 61 consent.</p> <p>The construction area around the main tunnel shaft shall be covered by a noise enclosure during the main tunnel construction and secondary lining works.</p> <p>Noise enclosure openings shall face away from sensitive noise receptors where practicable; at night, the openings shall only be used where essential and kept closed when not in use.</p> <p>The slurry treatment plant shall be screened by a four-sided enclosure with a roof, clad with suitable noise attenuation material.</p> <p>Noise enclosures shall be provided around the temporary concrete batching plant, grout plant and conveyors used to load barges.</p> <p>Night time activities within the material storage/handling area shall be screened by a roofed, three-sided noise enclosure. The opening shall not face sensitive receptors, where practicable.</p> <p>All cladding and roofing of noise enclosures shall incorporate suitable noise attenuation material with a minimum sound reduction value of 20dB Rw¹.</p> <p>All static plant shall be screened or enclosed.</p> <p>Movement of vehicles onsite shall be restricted outside standard hours.</p> <p>The vessel loading area shall be positioned to limit noise impacts on riverside properties to the east and west of the site.</p> <p>A 2.4m high noise barrier shall be erected on the edge of the cofferdam on the eastern and western sides of the vessel loading area. The noise barrier on the cofferdam shall be constructed to minimise visual impacts. Up to 1m from ground level, the barrier shall be plywood and the section above shall be transparent acrylic sheet with a minimum thickness of 6mm and to meet noise attenuation levels.</p> <p>3.6m high noise barrier of acrylic sheet shall be considered on the river walls to reduce the noise effects at 8-14 Fountain Green Square. The location of the acrylic sheet falls outside the limits of land to be acquired or used and is therefore subject to</p>

¹ See British Standard EN ISO 12354.

Topic	Site-specific requirement
	<p>planning permission being granted. The noise barrier will be agreed and formalised through a trigger action plan with 8-14 Fountain Green Square and planning permission from the local authority. The employer shall use all reasonable endeavours to obtain planning permission.</p> <p>Baseline noise monitoring shall be carried out for a minimum of 12 months before commencing construction activities.</p> <p>In-road utility works in Chambers Street shall be surrounded by suitable portable noise barriers, eg, noise attenuating cladding may be fixed to any portable steel open mesh fencing used.</p> <p>Material onsite shall be compacted using machinery that generates the lowest practicable vibration levels that can achieve the required level of compaction. Specifically, large twin-drum vibrating rollers shall only be used where vibration levels can be controlled to less than the impact criteria set out in the <i>Environmental Statement</i>, Vol 20: Chambers Wharf, Tables 9.5.4 and 9.5.5.</p>
Other	See the <i>CoCP</i> Part A for details regarding removal of the existing jetty decking piles. The contractor shall select a method that reduces potential vibration in the river.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per the <i>CoCP</i> Part A.
Dust emissions/control	Baseline monitoring for PM ₁₀ and NO ₂ shall be carried out for a minimum of 12 months before commencing the works.
Odour	As per the <i>CoCP</i> Part A.
Other	N/A

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water/groundwater	All temporary hardstanding (as far as is reasonably practicable) on non-foreshore areas of the site shall incorporate permeable surfacing (Sustainable Drainage System/flood risk alleviation).

Topic	Site-specific requirement
Control on abstraction	As per the <i>CoCP</i> Part A.
Ground treatment/dredging	As per the <i>CoCP</i> Part A.
Other	N/A

9 Land quality

Topic	Site-specific requirement
Site works	The unexploded ordnance mitigation plan shall be prepared in consultation with the local authority.
Site-specific issues/mitigation	As per the <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per the <i>CoCP</i> Part A.
Resource usage	As per the <i>CoCP</i> Part A.
Other	N/A

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>A membrane shall be installed between the riverbed and any temporary backfill material to prevent contamination of juvenile fish habitat and preserve potential archaeology.</p> <p>Areas of foreshore used for temporary works shall be restored to a similar condition with similar materials as prior to the works.</p> <p>See <i>CoCP</i> Part A, Section 4.7, River works, for details regarding removal of piles.</p>
Protection of trees	As per the <i>CoCP</i> Part A.
Other	N/A

12 Historic environment

Topic	Site-specific requirement
Other	The site-specific heritage management plan shall include all heritage assets along the alignment of

Topic	Site-specific requirement
	the main tunnel driven from this site, where not directly affected by other sites.

13 Other

Topic	Site-specific requirement
Other	N/A

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