

THE WATER INDUSTRY (SPECIFIED INFRASTRUCTURE PROJECTS) (ENGLISH UNDERTAKERS) REGULATIONS 2013

Thames Tideway Tunnel Project Preparatory Work Notice

4 June 2014

The Secretary of State makes this Notice in exercise of the powers conferred by regulation 5(3) of the Water Industry (Specified Infrastructure Projects) (English Undertakers) Regulations 2013 (SI 1582) (the “SIP Regulations”) in relation to *infrastructure* which is provided or to be provided for the use of one or more English undertakers.

In accordance with regulation 5(4)(a) of the SIP Regulations the Secretary of State has prepared draft reasons for the exercise of this power and has consulted the Incumbent Undertaker, the *Authority* and such other persons as he considers appropriate.

In accordance with regulation 5(4)(b) of the SIP Regulations, this Notice shall be served on those persons or bodies consulted under regulation 5(4)(a) of the SIP Regulations.

Citation, commencement and application

1.— This Notice—

- (a) may be cited as the Thames Tideway Tunnel Project Preparatory Work Notice;
- (b) takes effect immediately after the Thames Tideway Tunnel Project Specification Notice takes effect.

Interpretation

2.— In this Notice—

“Incumbent Undertaker” means (in relation to the Thames Tideway Tunnel Project) Thames Water Utilities Limited or such other sewerage undertaker whose ability to provide services for its customers could, in the opinion of the Secretary of State or the *Authority* (as the case may be) be threatened by the Thames Tideway Tunnel Project, but for the exercise of the powers of the Secretary of State or the *Authority* under or by virtue of the SIP Regulations;

“Infrastructure Provider” means the company designated under regulation 8(1) of the SIP Regulations in respect of the Thames Tideway Tunnel Project;

“Thames Tideway Tunnel Project” means the *infrastructure project* which has been specified under regulation 4(1) of the SIP Regulations in the Thames Tideway Tunnel Project Specification Notice; and

“Thames Tideway Tunnel Project Specification Notice” means the notice issued by the Secretary of State or the *Authority* (as the case may be) pursuant to regulation 4(1) of the SIP Regulations specifying the Thames Tideway Tunnel Project as a *specified infrastructure project*.

Except as otherwise provided in this Notice, words and expressions used in the SIP Regulations and the Water Industry Act 1991 (as modified by the SIP Regulations and as may be amended from time to time) are italicised and have the same meaning in this Notice as they have in those Regulations and that Act.

Work to be done by the Incumbent Undertaker in relation to a *specified infrastructure project*

3.—a) The Secretary of State has issued the Thames Tideway Tunnel Project Specification Notice.

(1) Save as is specifically set out in this Notice, the Incumbent Undertaker must not undertake the Thames Tideway Tunnel Project.

(2) The Secretary of State permits or requires (as the case may be) the Incumbent Undertaker to undertake the *preparatory work* in relation to the Thames Tideway Tunnel Project as is set out in Schedule 1 to this Notice.

Signed

A handwritten signature in black ink, reading "Rupert de Maubray", enclosed in a thin black rectangular border. The signature is written in a cursive style.

Parliamentary Under Secretary of State for Natural Environment and Science

on behalf of the Secretary of State for Environment, Food and Rural Affairs

4 June 2014

Schedule 1

Preparatory work permitted or required to be undertaken by the Incumbent Undertaker in relation to the Thames Tideway Tunnel Project

Interpretation

1.—Defined terms are set out in paragraph 15. Any use of the singular includes use of the plural and vice versa.

Surveys and investigations

2.—(1) The Incumbent Undertaker may carry out the following surveys and investigations —

- (a) environmental surveys;
- (b) ground condition surveys;
- (c) desk top surveys to provide details of the likely nature and extent of any heritage and archaeological sites of special interest along the proposed Tunnels route and foreshore together with mitigation strategies;
- (d) surveys in respect of third party assets and utilities which may need to be diverted or protected along the proposed Tunnels route, including condition surveys, heritage and park usage;
- (e) site investigations and monitoring activities; and
- (f) such other surveys and investigations as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

Provision of power supply

3.—(1) The Incumbent Undertaker may provide or procure the installation of cables and associated infrastructure to enable the supply of power and associated substation(s) to serve the following five Tunnel drive sites—

- (a) Dormay Street;
- (b) Carnwath Road Riverside;
- (c) Kirtling Street;
- (d) Chambers Wharf Depot;
- (e) Greenwich Pumping Station,

and such other works as the Incumbent Undertaker considers appropriate for installation of cables and associated infrastructure (including sub-stations) to enable the supply of power for the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

(2) The Incumbent Undertaker may transfer or novate any contract for the provision of a power supply and associated substations to the Infrastructure Provider when designated by the Secretary of State or the *Authority* (as the case may be) pursuant to regulation 8(1) of the SIP Regulations.

Diversion of existing utility assets

4.—(1) The Incumbent Undertaker may undertake diversions, protection, modification, reinstatement or abandonment of utilities and services including, communications, power, gas, drainage, water and sewerage assets as the Incumbent Undertaker considers is appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project, including works at those site specific works listed in paragraph 1 of Schedule 2 of this Notice.

Works at sites

- 5.— (1) The Incumbent Undertaker may carry out the following works at Acton Storm Tanks—
- (a) interception chamber;
 - (b) connection culvert;
 - (c) works to existing inlet chamber;
 - (d) overflow chamber rising main and new rising main discharge chamber; and
 - (e) MEICA equipment associated with the above works.
- (2) The Incumbent Undertaker may carry out the following works at Falconbrook Pumping Station—
- (a) modifications to existing screen chamber;
 - (b) combined interception, valve and dry weather flow chamber;
 - (c) recirculation chamber;
 - (d) rising mains; and
 - (e) MEICA equipment associated with the above works.
- (3) The Incumbent Undertaker may carry out the following works at Cremorne Wharf Depot—
- (a) combined interception and valve chamber;
 - (b) connection culvert;
 - (c) Tunnel control panel housed within existing Pumping Station; and
 - (d) MEICA equipment associated with the above works.
- (4) The Incumbent Undertaker may carry out the following works at Earl Pumping Station—
- (a) combined interception and valve chamber;
 - (b) connection culvert;
 - (c) modifications to the existing pumping station and dry weather flow chamber; and
 - (d) MEICA equipment associated with the above works.
- (5) The Incumbent Undertaker may carry out the following works at Hammersmith Pumping Station—
- (a) minor works within existing inlet chamber;
 - (b) combined interception and dry weather flow chamber;
 - (c) connection culvert;
 - (d) rising main; and
 - (e) MEICA equipment associated with the above works.
- (6) The Incumbent Undertaker may carry out the following works at Greenwich Pumping Station—
- (a) combined interception and valve chamber;
 - (b) connection culvert; and
 - (c) MEICA equipment associated with the above works.

Consents

- 6.—(1) The Incumbent Undertaker shall carry out any public consultations required prior to submitting the application for the Development Consent Order.
- (2) The Incumbent Undertaker shall submit an application for and undertake the process of obtaining a Development Consent Order for the Thames Tideway Tunnel Project and may submit and undertake the process of obtaining any attendant planning conditions to the relevant competent authorities and may manage any submissions with respect to the application for the Development Consent Order.

(3) The Incumbent Undertaker may negotiate and agree any consents or agreements with third parties (including in relation to asset protection), to the extent that, in the reasonable opinion of the Incumbent Undertaker, such consents or agreements are required in order to comply with or obtain the Development Consent Order or assist with the design and construction of the Thames Tideway Tunnel Project. Any such consents or agreements entered into for the purposes of the Thames Tideway Tunnel Project may be novated (or transferred) to the Infrastructure Provider to the extent relevant to the works to be carried out by the Infrastructure Provider, once designated by the Secretary of State or the *Authority* (as the case may be) pursuant to regulation 8(1) of the SIP Regulations.

(4) The Incumbent Undertaker may carry out any works, services or activities necessary to comply with any obligations it retains in relation to any consent, agreement or the Development Consent Order as set out at paragraph 6(2) or 6(3) above.

Designs and specifications

7.—(1) The Incumbent Undertaker shall prepare the outline design for the Thames Tideway Tunnel Project and may prepare specifications of the works to be designed and constructed by the Infrastructure Provider. The Incumbent Undertaker may undertake the design for any works to be carried out by the Incumbent Undertaker as specified in this Notice.

Procuring goods, services and works

8.—(1) The Incumbent Undertaker may organise and manage the procurement process on behalf of the Infrastructure Provider for the following works and services for the Thames Tideway Tunnel Project—

- (a) the tunnelling contracts for the East Section (from Chambers Wharf to Abbey Mills and the Connection Tunnel from Greenwich Pumping Station to Chambers Wharf); Central Section (from Kirtling Street to Carnwath Road Riverside Main Tunnel and Kirtling Street to Chambers Wharf Main Tunnel) and West Section (from Carnwath Road Riverside to Acton Storm Tanks Main Tunnel and the Frogmore Connection Tunnel);
- (b) the MEICA equipment and SCADA contracts;
- (c) site security contracts;
- (d) occupational health framework agreements;
- (e) commissioning management services;
- (f) insurance brokerage services;
- (g) insurance contracts for project insurances for construction all risks insurance, third party liability insurance, marine cargo insurance;
- (h) operation and maintenance contracts;
- (i) training for marine services necessary to facilitate the Thames Tideway Tunnel Project; and
- (j) any other works or services as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of the Infrastructure Provider or as agreed with the *Authority* from time to time in accordance with this Notice.

(2) In paragraph 8(1) above the Incumbent Undertaker's role may include:

- (a) determining the procurement strategy;
- (b) developing the procurement documentation including OJEU notices, pre-qualification questionnaires, tender documents, evaluation criteria, contractual provisions, specifications, designs and such other documentation as the Incumbent Undertaker considers are necessary to tender the works and services; and
- (c) managing the procurement process including market engagement, information events, maximising competition through engagement with domestic and international contractors,

accepting and evaluating tenders, clarification processes, negotiation and evaluation of selection of preferred bidders, award recommendations and such other activities as the Incumbent Undertaker considers are necessary.

(3) The Incumbent Undertaker shall not be obliged (although may consent to) to enter into any contract with any preferred bidder in respect of any of the contracts listed in paragraph 8(1).

(4) The Incumbent Undertaker shall tender the Thames Tideway Tunnel Project for an Infrastructure Provider as specified in the Thames Tideway Tunnel Project Specification Notice and in particular may:

- (a) determine the procurement strategy for the infrastructure provider bidders, having consulted the Secretary of State and the *Authority* as required pursuant to regulation 6(5) of the SIP Regulations;
 - (b) develop the procurement documentation including OJEU notices, pre-qualification questionnaires, tender documents, evaluation criteria, contractual provisions, specifications, designs and other documentation necessary to tender the works;
 - (c) manage the procurement process including market engagement, information events, maximising competition through engagement with domestic and international contractors, accepting and evaluating tenders, clarification processes, negotiation and evaluation of tender and award recommendations;
 - (d) determine which bid to accept (if any) in accordance with regulation 6(6) of the SIP Regulations; and
 - (e) enter into such relevant contractual arrangements with the Infrastructure Provider as are necessary in order to deliver the Thames Tideway Tunnel Project.
- (5) If and to the extent necessary, the Incumbent Undertaker may:
- (a) prepare a strategy for the transition of the Thames Tideway Tunnel Project from its development phase carried out by the Incumbent Undertaker to the implementation phase to be carried out by the Infrastructure Provider;
 - (b) build the capabilities of the workforce, including finance, project delivery, operational, engineering, asset management, stakeholder engagement, commercial and legal, business services, health, safety and environment, such that on tender award to the Infrastructure Provider there are such personnel when supplemented by those of the selected Infrastructure Provider to manage a seamless transition from development to implementation of the Thames Tideway Tunnel Project;
 - (c) secure headquarter premises for the Infrastructure Provider for the purpose of the Thames Tideway Tunnel Project;
 - (d) establish data rooms, information archives and other knowledge and technology platforms as the Incumbent Undertaker determines to enable transition of the Thames Tideway Tunnel Project to an Infrastructure Provider; and
 - (e) provide such other people, processes or systems as are determined by the Incumbent Undertaker from time to time as are necessary to maximise the likelihood of a smooth transition to the Infrastructure Provider.

Land acquisition

9.—(1) The Incumbent Undertaker may identify and purchase those interests in land that, prior to the designation of the Infrastructure Provider, are in its view, necessary in order to enable design, construction, testing, commissioning and to the extent relevant, operation and maintenance of, the works described in the Thames Tideway Tunnel Project Specification Notice, including relevant interests in land at those sites listed in paragraph 2, Schedule 2 to this Notice.

(2) The Incumbent Undertaker may transfer, lease, licence or otherwise assign interests in land acquired for the purposes described in paragraph 9(1) to the Infrastructure Provider in order to allow the Infrastructure Provider to design, construct, test and commission the works and operate and maintain the IP Owned Structures.

Site preparation

10.—(1) The Incumbent Undertaker may carry out the following site preparation works as appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project:

- (a) site access, hard standings and access routes through site;
- (b) site hoarding and noise screening;
- (c) services including power, water supply, telecommunications and drainage;
- (d) site welfare for the Incumbent Undertaker's works;
- (e) tree works including pollarding, protection or removal of existing trees and planting of advance trees;
- (f) asbestos mitigation;
- (g) removal of temporary services infrastructure within the site up to the connection points after the Incumbent Undertaker's works;
- (h) demolition of existing buildings and structures;
- (i) renovation of existing buildings and structures on site;
- (j) relocation of existing vehicle access, car parking and bus stops including related traffic management;
- (k) general site clearance;
- (l) relocation of public footways;
- (m) structural and environmental monitoring;
- (n) control of invasive species;
- (o) installation of temporary bulkhead to isolate the Lee Tunnel from the construction of the Thames Tideway Tunnel Infrastructure;
- (p) protection of existing assets;
- (q) works to river walls; and
- (r) such other site preparation works as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

Marine works

11.—(1) The Incumbent Undertaker may carry out the following marine works and river boat relocations at Victoria Embankment Foreshore—

- (a) relocation of Tattershall Castle and related works; and
- (b) relocation or removal of service moorings, piers and related works.

(2) The Incumbent Undertaker may carry out the following marine works and river boat relocations at Blackfriars Bridge Foreshore—

- (a) relocation of Blackfriars Millennium Pier and related works including new lift and relocation of existing stairs; and
- (b) relocation of President to Chrysanthemum Pier including modifications and related works.

(3) The Incumbent Undertaker may carry out such other marine works as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

Shad Thames Pumping Station, Beckton Sewage Treatment Works, Bekesbourne Street and other works

12.—(1) The Incumbent Undertaker may carry out the following works at Shad Thames Pumping Station—

- (a) demolition of the existing three storey facilities building and adjacent suspended ground floor slab, and boundary wall and construction of new electrical switchgear and facilities building and related works;
- (b) demolition of existing suspended ground floor slab and excavation within the existing pumping station to create area for new pumps and associated mechanical and electrical equipment and alterations to the external appearance of the pumping station building;
- (c) modifications to existing sewers and the provision of new pumping main including chambers and ducts within Maguire Street and Gainsford Street;
- (d) construction of pits, chambers, ducts and pipes for cables, hydraulic pipelines, utility connections, utility diversions and drainage, including facilities for drainage attenuation;
- (e) construction of new permanent access to Maguire Street and works to create a turning head at the junction of Shad Thames and Maguire Street and subsequent reinstatement of original highway layout; and;
- (f) such other works as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project, and as are agreed with the *Authority* from time to time.

(2) The Incumbent Undertaker may carry out the following works at Bekesbourne Street—

- (a) new valve chamber;
- (b) installation of an electrical and control kiosk and ventilation column including provision of ducts, including construction of pits, chambers, ducts and pipes for cables, hydraulic pipelines, utility connections, utility diversions and drainage, and temporary relocation of existing lamp posts and CCTV camera; and
- (c) such other works as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

(3) The Incumbent Undertaker shall carry out the following works at Beckton Sewerage Treatment Works—

- (a) two pumps and related works at the Tideway Pumping Station;
- (b) extension of discharge pipes into, and enlargement of, the flow collection chamber; and
- (c) second flow transfer system pipeline and the addition to or enlargement of the discharge chamber.

(4) The Incumbent Undertaker may carry out the following works at Beckton Sewerage Treatment Works—

- (a) a bypass pumping system comprising inlet and outlet shafts, a siphon tunnel, and connecting pipes and culverts;
- (b) duplication of the inlet works grit removal gantries;
- (c) air management structures and plant;
- (d) MEICA equipment associated with air management system and tunnel controls; and
- (e) such other works as the Incumbent Undertaker considers necessary to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

(5) The Incumbent Undertaker may carry out the following works for other combined sewer overflow modifications and Western Pumping Station—

- (a) Northumberland Street combined sewer overflow, increase weir level;

- (b) Savoy Street combined sewer overflow, increase weir level and undershot baffle;
- (c) Holloway combined sewer overflow, Stroud Green Road – Eastern, increase weir level;
- (d) Holloway combined sewer overflow, Tollington Park – Eastern, increase weir level;
- (e) Holloway combined sewer overflow, Mildmay Road, increase weir level;
- (f) West Putney SRS Weir combined sewer overflow, increase weir level;
- (g) Western pumping station – pump wet well control level optimisation and provision of isolation valves;
- (h) Regent Street combined sewer overflow, increase weir level; and
- (i) such other works as the Incumbent Undertaker considers appropriate to facilitate the carrying out of the Thames Tideway Tunnel Project prior to the designation of an Infrastructure Provider or as are agreed with the *Authority* from time to time.

Testing, commissioning, operation and maintenance

13.—(1) Prior to the Acceptance Date, the Incumbent Undertaker shall, or shall procure the testing, commissioning, operation and maintenance of the works designed and constructed by the Incumbent Undertaker that are described in this Notice.

(2) From the Handover Date to the Acceptance Date, the Incumbent Undertaker may operate the Thames Tideway Tunnel Infrastructure excluding the IP Owned Structures.

(3) The Incumbent Undertaker may:

- (a) assist the Infrastructure Provider to carry out commissioning tests, provided that such activities do not affect the Incumbent Undertaker’s operation of the Sewer Network; and
- (b) carry out the System acceptance tests with the support and assistance of the Infrastructure Provider.

(4) The Incumbent Undertaker may make available staff for training in operation and maintenance of the Thames Tideway Tunnel Infrastructure as necessary until the Acceptance Date.

General

14.— (1) The Incumbent Undertaker shall finance the works, services and activities undertaken by it as described in this Notice and provide any ancillary services necessary for the day-to-day activities that are required to carry out such works, services and activities.

(2) Prior to the designation of an Infrastructure Provider, the Incumbent Undertaker may, if it considers appropriate, carry out works, services and activities described in the Thames Tideway Tunnel Project Specification Notice that are not otherwise described in this Notice but are of a preparatory nature and are necessary to facilitate the carrying out of the Thames Tideway Tunnel Project provided that the *Authority* has agreed that the Incumbent Undertaker may carry out such works, services and activities and the Incumbent Undertaker has put the Thames Tideway Tunnel Project out to tender.

Definitions

15.—Defined terms in this Schedule have the following meanings -

“Acceptance Date” means the earlier of the date on which the acceptance tests are satisfactorily completed and the date on which deemed acceptance of the Thames Tideway Tunnel Infrastructure occurs in accordance with any agreements between the Incumbent Undertaker and the Infrastructure Provider;

“Beckton Sewage Treatment Works” means the Incumbent Undertaker’s sewage treatment facility at Beckton;

“building” includes any building, structure or erection or any part of a building, structure or erection;

“Connection Tunnel” means a Tunnel that connects a Shaft to the Main Tunnel;

“Crossness Sewage Treatment Works” means the Incumbent Undertaker’s sewage treatment facility at Crossness;

“CSOs” means the combined sewer overflows listed in Schedule 2 to the Thames Tideway Tunnel Project Specification Notice;

“Development Consent Order” means the development consent order for the Thames Tideway Tunnel Project to the extent granted to the Incumbent Undertaker, as may be amended from time to time;

“Environment Agency” means the Environment Agency established pursuant to section 1 of the Environment Act 1995 (UK) or any successor thereof;

“Handover Date” means the date on which the design and construction of the Thames Tideway Infrastructure is completed and has been tested (excluding acceptance tests) and commissioned in accordance with any agreements between the Incumbent Undertaker and the Infrastructure Provider;

“highway” has the same meaning as in the Highways Act 1980;

“IP Owned Structures” means the Tunnels, de-aeration chambers, de-aeration vents, vortex tubes, vortex generators, vortex liner, the Shafts, Shaft cover slabs and everything constructed inside the Shafts except for the MEICA equipment, Metalwork and access covers;

“Lee Tunnel” means the tunnels, shafts, the Tideway Pumping Station and associated infrastructure between Abbey Mills and Beckton Sewerage Treatment Works;

“London Tideway Tunnels” means the Thames Tideway Tunnel Project and the Lee Tunnel;

“Main Tunnel” means the tunnel between Acton Storm Tanks and the connection to the Lee Tunnel at Abbey Mills;

“maintain” and “maintenance” includes maintain, inspect, repair, adjust, alter, remove, clear, refurbish, reconstruct, decommission, demolish, replace or improve;

“MEICA equipment” means all mechanical, electrical, instrumentation, control and automation equipment that is part of the Thames Tideway Tunnel Project including:

- (a) penstocks;
- (b) hydraulic and electric actuators;
- (c) flap valves;
- (d) river flap valves;
- (e) dry weather flow pumps;
- (f) ventilation dampers;
- (g) air blowers;
- (h) air filters;
- (i) kiosks;
- (j) level and odour control instrumentation; and
- (k) SCADA;

“Metalwork” means ladders, handrails, platforms, covers and grates, embedded anchor points and other similar appurtenances, excluding any liner provided to the vortex tube;

“Operating Techniques” means the techniques agreed with the Environment Agency for the London Tideway Tunnels;

“SCADA” means supervisory control and data acquisition works and services;

“Shaft” means any shaft connecting to a Tunnel and includes a drop shaft;

“System” means the Thames Tideway Tunnel Project and such parts of the Sewer Network, such that they form an operating system and can be operated in accordance with the Operating Techniques;

“Sewer Network” means the Incumbent Undertaker’s network of sewers, including all necessary component parts and lateral drains, draining the London area of effluent, trade effluent and stormwater, including the Lee Tunnel and any pumping stations and treatment works operated by the Incumbent Undertaker;

“Thames Tideway Tunnel Infrastructure” means all permanent works contemplated in Schedule 1 and Schedule 2 to this Notice;

“Tideway Pumping Station” means the pumping station at the Beckton Sewage Treatment Works at the downstream end of the Lee Tunnel;

“Tunnels” means the Main Tunnel, the Greenwich and Frogmore connection tunnels and all Connection Tunnels but excluding the Beckton bypass siphon tunnel and the Lee Tunnel;

“watercourse” includes all rivers, streams, ditches, drains, canals, cuts, culverts, dykes, sluices, sewers and passages through which water flows except a public sewer or drain; and

“works” means all physical works contemplated in Schedule 1 and Schedule 2 to this Notice, whether temporary or permanent.

Schedule 2
Site Specific Preparatory Works

Diversion of existing utility assets

1.—The Incumbent Undertaker may carry out the following site specific works:

- (1) At Acton Storm Tanks—
 - (a) The diversion or abandonment of the Incumbent Undertaker’s assets including foul and surface water mains within the site;
- (2) At Hammersmith pumping station—
 - (a) The abandonment of the Incumbent Undertaker’s storm water and foul water assets;
 - (b) The diversion or abandonment of overhead communications cables; and
 - (c) The spiking, disconnection and removal of high voltage cables within the site.
- (3) At Dormay Street—
 - (a) The disconnection, abandonment or protection of multiple utility assets within the site;
 - (b) The re-location of a fire hydrant and water main belonging to the Incumbent Undertaker within the site; and
 - (c) The replacement, lining or protection of a gas main at Armoury Way.
- (4) At King Edward Memorial Park—
 - (a) Protection, diversion or lowering of utilities at the site entry or egress locations.
- (5) At Falconbrook pumping station—
 - (a) The diversion, protection or abandonment of the Incumbent Undertaker’s assets within the site;
 - (b) The diversion of power utility assets; and
 - (c) Lowering, protection and/or diversion of utilities within York Road and at the site entry / egress locations.
- (6) At Cremorne Wharf—
 - (a) Protection, diversion or lowering of utilities at the site entry or egress locations.
- (7) At Kirtling Street—
 - (a) Protection, diversion or lowering of utilities at the site entry / egress locations; and
 - (b) Protection, diversion or abandonment of minor, privately owned services within the site.
- (8) At Albert Embankment Foreshore—
 - (a) Protection, diversion or lowering of utilities at the site entry or egress locations.
- (9) At Carnwath Road Riverside —
 - (a) Junction improvements and associated utility diversions and protection.
- (10) At Chelsea Embankment Foreshore—
 - (a) Dedicated multiple utility diversion within the footway, carriageway and Ranelagh Gardens.
- (11) At Victoria Embankment Foreshore—
 - (a) Dedicated multiple utility diversion within the footway and carriageway of Victoria Embankment including removal of a length of the existing utility subway; and
 - (b) Protection/mitigation measures including additional valves for the Incumbent Undertaker’s water main within the Embankment carriageway.
- (12) At Blackfriars Bridge Foreshore—
 - (a) Diversion of telecommunication assets to an above ground protected utility corridor to the north side of the off- ramp carriageway;

- (b) Reinforcement of gas assets inside the subway or temporary diversion to an above ground protected utility corridor;
 - (c) Mitigation or diversion of telecoms and power utility assets;
 - (d) Protection or mitigation measures including additional valves for the Incumbent Undertaker's water main within the embankment carriageway; and
 - (e) Relocation of water main and fire hydrant.
- (13) At Shad Thames Pumping Station—
- (a) Protection or diversion of multiple utilities within carriageway of Maquire Street; and
 - (b) Replacement of the Incumbent Undertaker's water main within carriageway of Maguire Street.
- (14) At Bekesbourne Street—
- (a) Diversion or protection of multiple utility assets currently within Bekesbourne Street.
- (15) At Chambers Wharf—
- (a) Multiple utility diversion in the carriageway around the Chambers Wharf site; and
 - (b) Relocation of existing transformer on site.
- (16) At Earl Pumping Station—
- (a) Relocation of the Incumbent Undertakers' fire hydrant and diversion of water main to site;
 - (b) Diversion of high voltage and low voltage power in Croft Street; and
 - (c) Multiple utility lowering, protection or diversion of utilities at the site entry or egress locations.
- (17) At Deptford Church Street—
- (a) Diversion of telecommunication, high voltage power and water main utility services from Deptford Church Street; and
 - (b) Multiple utility lowering, protection or diversion of utilities at the site entry or egress locations.
- (18) At Greenwich Pumping Station—
- (a) Diversion of Incumbent Undertakers foul water asset within the site;
 - (b) Diversion or abandonment of multiple utility services within the site;
 - (c) Multiple utility lowering, protection or diversion of utilities at the site entry or egress locations; and
 - (d) Provision of water supply to site boundary.

Land Acquisition

2.— (1) The Incumbent Undertaker may identify and acquire interests in land at or related to the following worksites as necessary for the Thames Tideway Tunnel Project:

- (a) Hammersmith Pumping Station site;
- (b) Barn Elms site;
- (c) Putney Embankment Foreshore site;
- (d) Carnwath Road riverside site;
- (e) Dormay Street site;
- (f) King George's Park site;
- (g) Falconbrook Pumping Station site;
- (h) Cremorne Wharf Depot site;
- (i) Chelsea Embankment Foreshore site;

- (j) Kirtling Street site;
- (k) Heathwall Pumping Station site;
- (l) Albert Embankment Foreshore site;
- (m) Victoria Embankment Foreshore site;
- (n) Blackfriars Bridge Foreshore site;
- (o) Shad Thames Pumping Station site;
- (p) Chambers Wharf site;
- (q) Earl Pumping Station site;
- (r) Deptford Church Street site;
- (s) Greenwich Pumping Station site;
- (t) King Edward Memorial Park site; and
- (u) Bekesbourne site.

(2) The Incumbent Undertaker may identify and purchase all those interests in sub-soil required to design, construct and operate the Thames Tideway Tunnel Infrastructure.