



Development Consent Order

Application Reference Number: WW010001

Documents for Certification September 2014

We, Lindsay Speed and Sarah Fairbrother hereby certify that this is a true copy of the environmental statement referred to in Article 61 (1) (f) of the Thames Water Utilities Limited (Thames Tideway Tunnel) Order 2014.

Lindsay Speed

Sarah Fairbrother

September 2014

**Thames
Tideway Tunnel**



Creating a cleaner, healthier River Thames

Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Environmental Statement

Doc Ref: **6.2.19**

Volume 19: Shad Thames Pumping Station figures

APFP Regulations 2009: Regulation **5(2)(a)**

Hard copy available in
Box **67** Folder **C**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Thames Tideway Tunnel

Environmental Statement

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Thames Tideway Tunnel

Environmental Statement

Volume 19 Shad Thames Pumping Station site assessment

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Thames Tideway Tunnel

Environmental Statement

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1 Plans from the Book of Plans

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Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Electrical switchgear and facilities building	9.5m



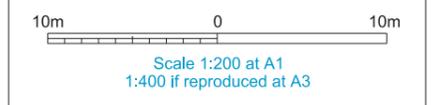
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)

- Notes:**
- All dimensions and levels are approximate.

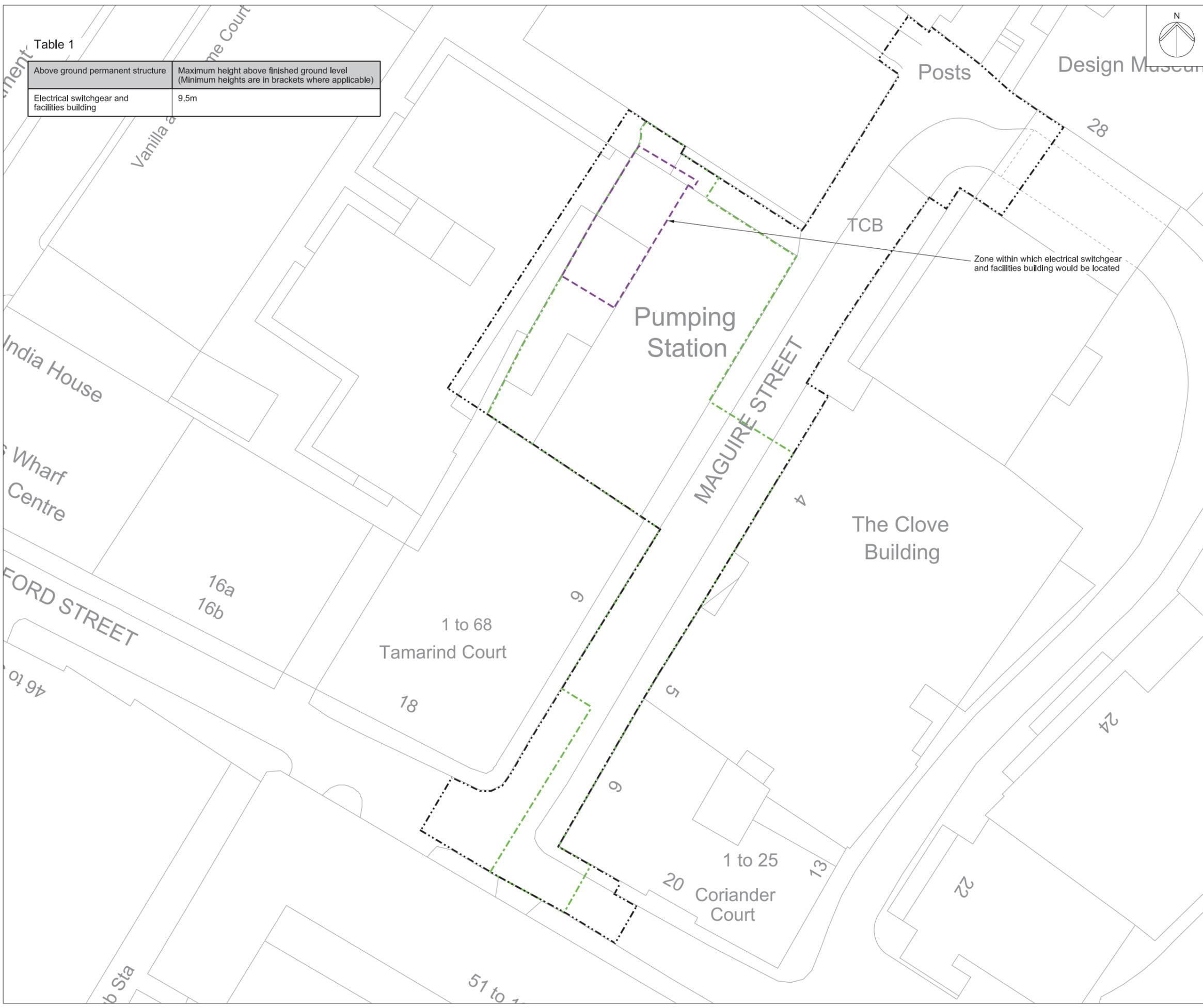


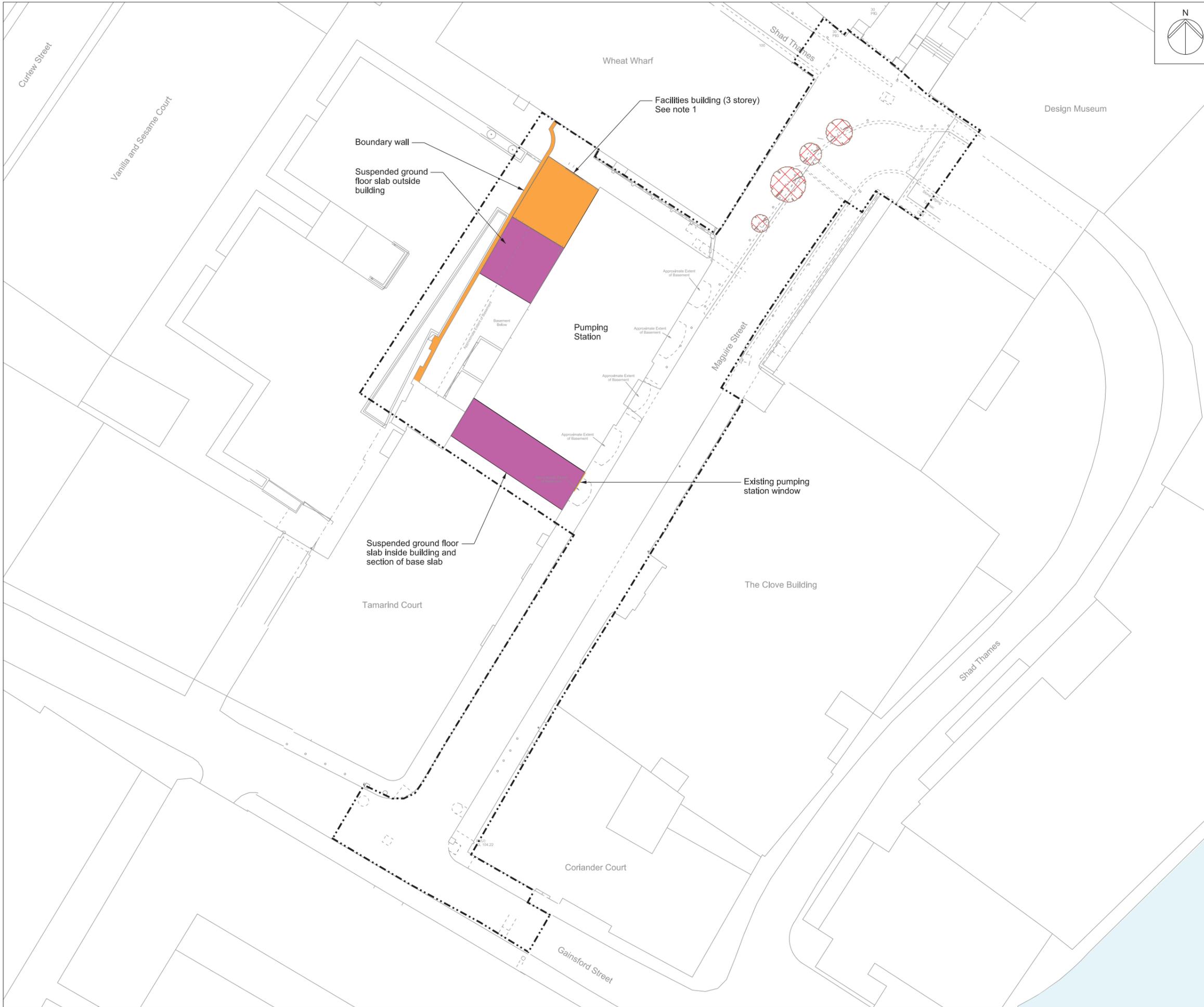
FOR APPROVAL

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Application for Development Consent
 Site works parameter plan

Book of plans - section 20
 DCO-PP-18X-SHTPS-200005
 January 2013





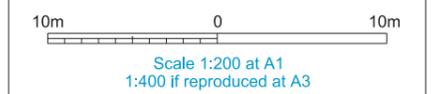
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Trees to be removed
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled

- Notes:**
1. Demolition of facilities building to include breaking out of suspended base slab.
 2. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 3. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



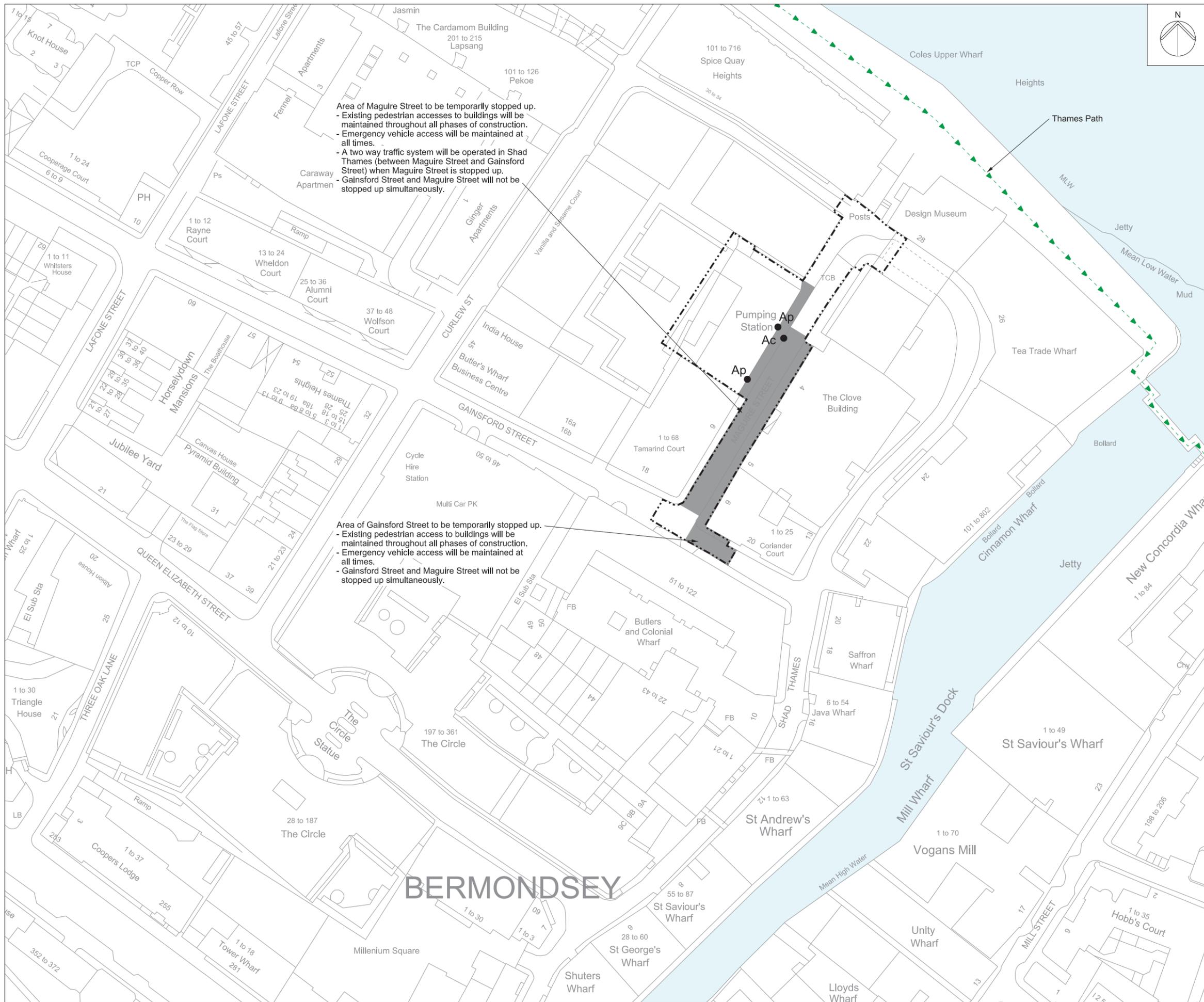
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Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
Demolition and site clearance

Book of plans - section 20
DCO-PP-18X-SHTPS-200004
January 2013





Area of Maguire Street to be temporarily stopped up.

- Existing pedestrian accesses to buildings will be maintained throughout all phases of construction.
- Emergency vehicle access will be maintained at all times.
- A two way traffic system will be operated in Shad Thames (between Maguire Street and Gainsford Street) when Maguire Street is stopped up.
- Gainsford Street and Maguire Street will not be stopped up simultaneously.

Area of Gainsford Street to be temporarily stopped up.

- Existing pedestrian access to buildings will be maintained throughout all phases of construction.
- Emergency vehicle access will be maintained at all times.
- Gainsford Street and Maguire Street will not be stopped up simultaneously.

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Keyplan:
This drawing

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key:

- Limits of land to be acquired or used (LLAU)
- Existing public right of way
- Area of highway to be temporarily stopped up
- Ap ● Access to permanent works
- Ac ● Access to construction works

Notes:

1. This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).
2. Only rights of way in or close to worksites are shown. The full extents of rights of way are not shown where they cease to be relevant to the project.

10m 0 40m
Scale 1:500 at A1
1:1000 if reproduced at A3

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Location
Shad Thames Pumping Station
London Borough of Southwark

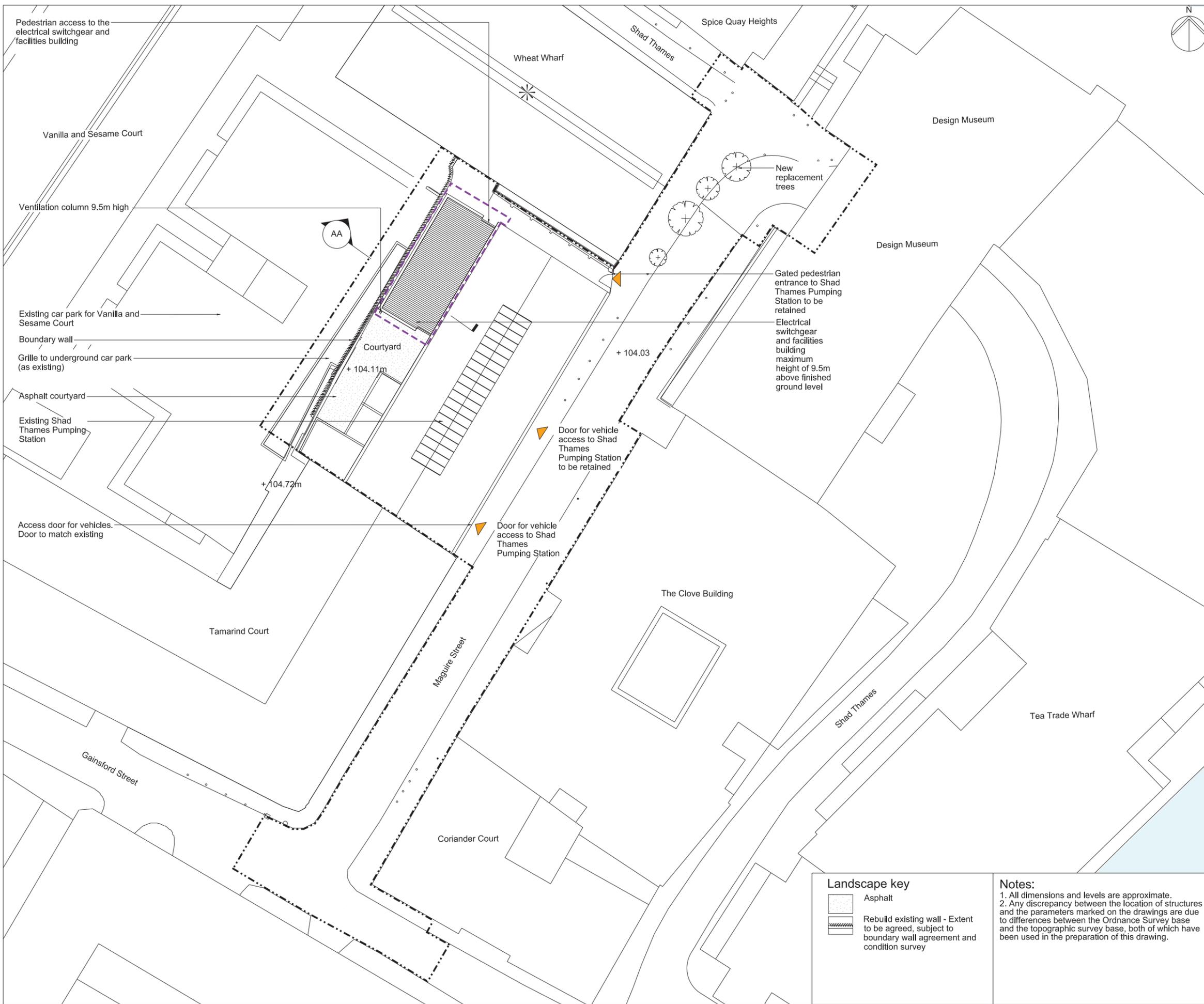
Document Information
Application for Development Consent
Access plan

Book of plans - section 20
DCO-PP-18X-SHTPS-200003
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water

© Thames Water Utilities Ltd 2008

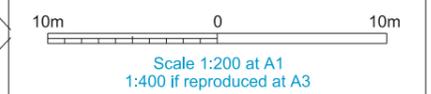


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Keyplan:
This drawing

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - - - Zone within which permanent above ground structures would be located
 - + 105.40m Existing levels (shown in metres above tunnel datum)
 - ☼ Listed buildings/structures
 - ⊕ Proposed trees
 - ▶ Thames Water access



FOR APPROVAL

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent

Proposed
Roof plan
Book of plans - section 20
DCO-PP-18X-SHTPS-200007
January 2013



- Landscape key**
- Asphalt
 - Rebuild existing wall - Extent to be agreed, subject to boundary wall agreement and condition survey

Notes:

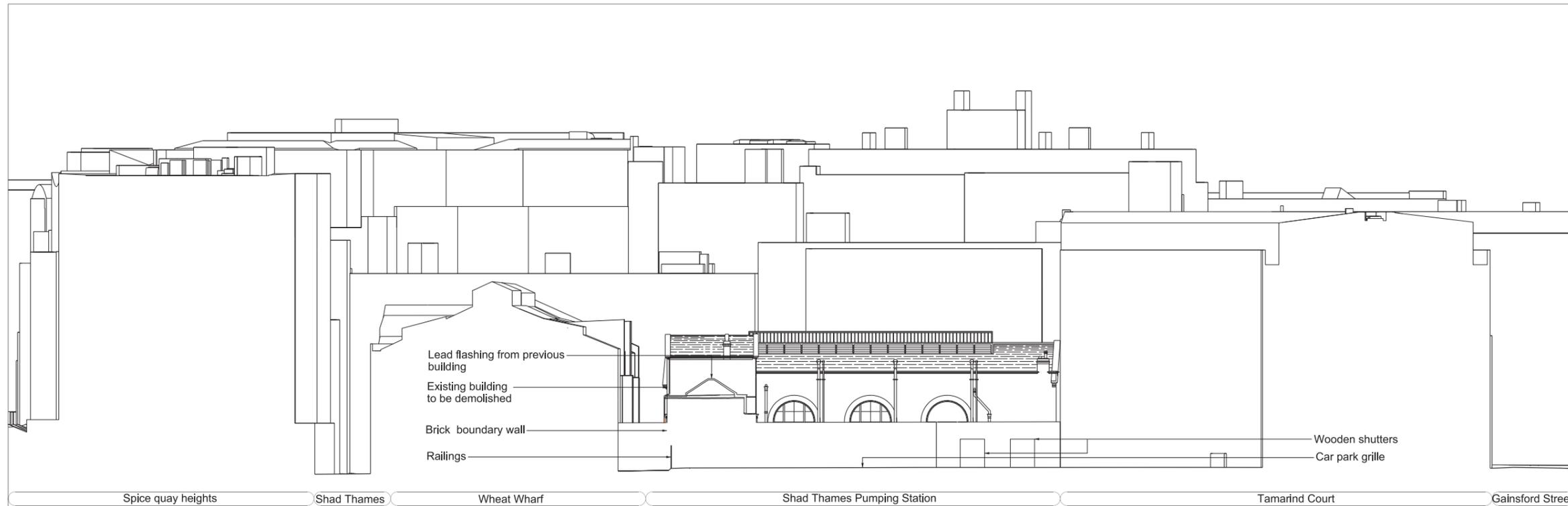
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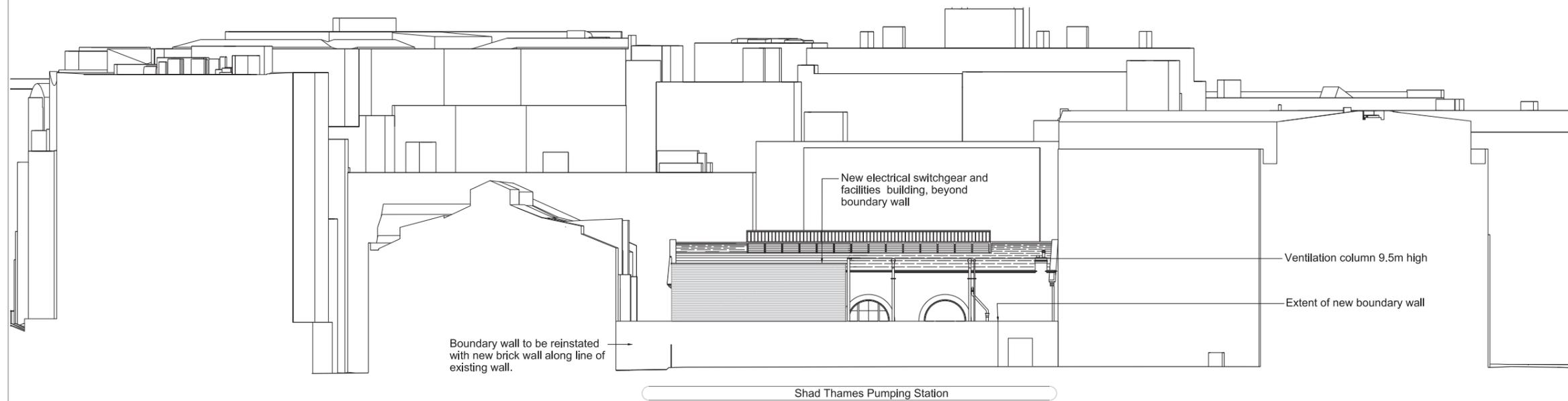


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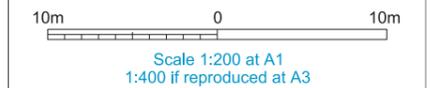
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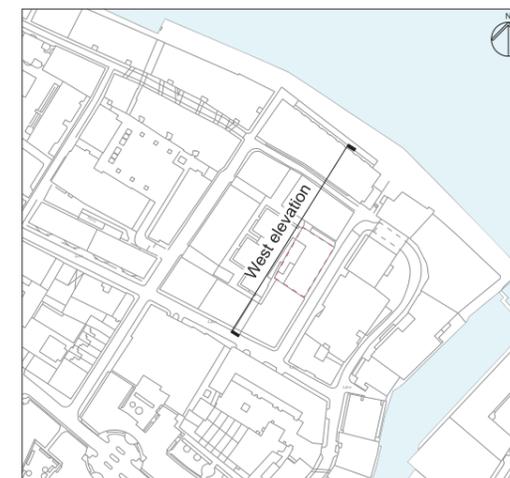
As existing West elevation



Proposed West elevation



INDICATIVE



Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
As existing and proposed
West elevation
Book of plans - section 20
DCO-PP-18X-SHTPS-200010
January 2013



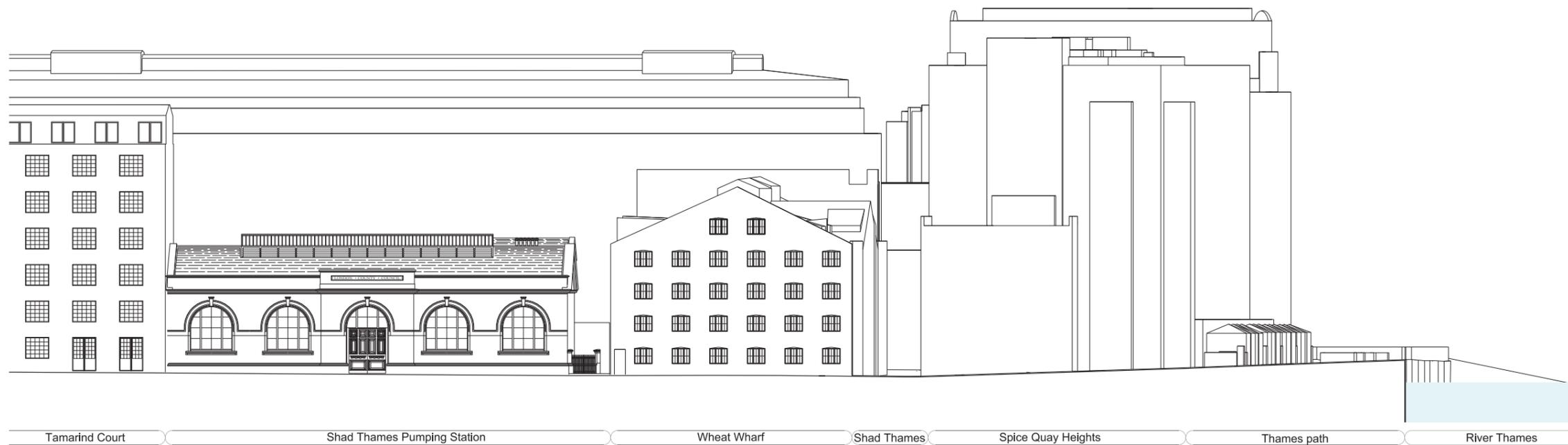
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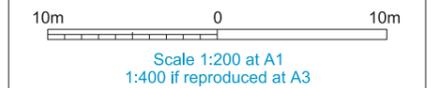
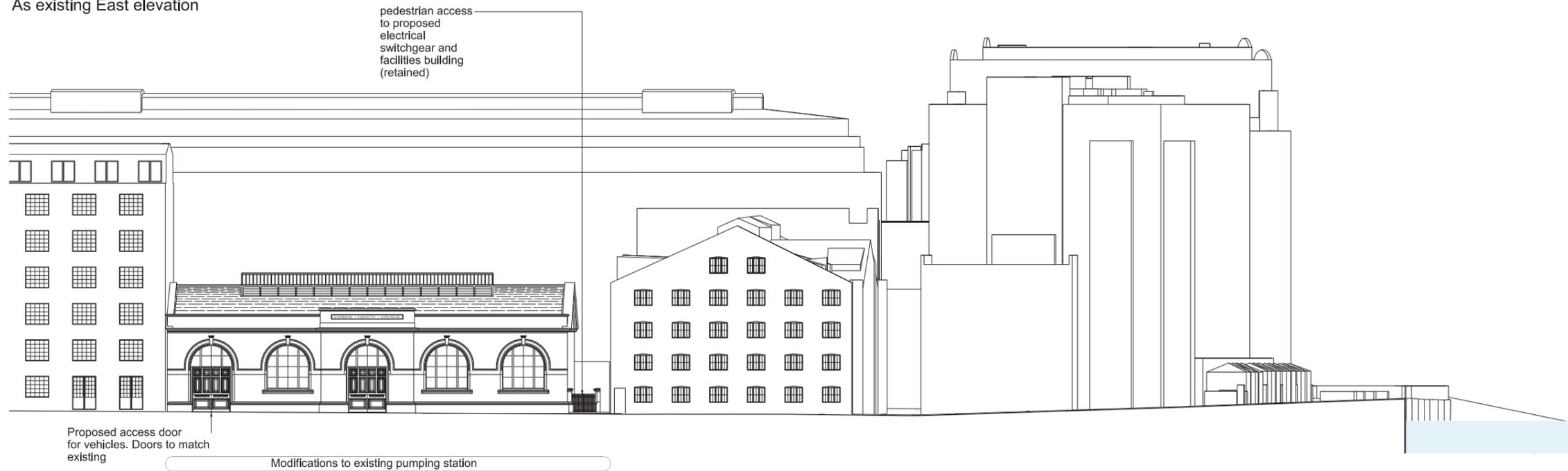
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Notes:

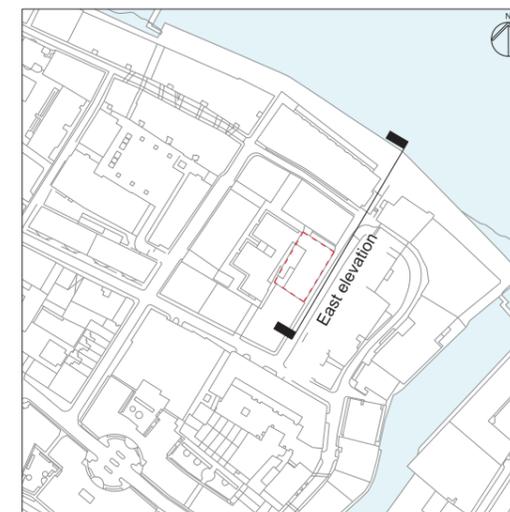
1. All dimensions and levels are approximate.



As existing East elevation



Proposed East elevation

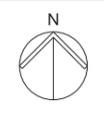
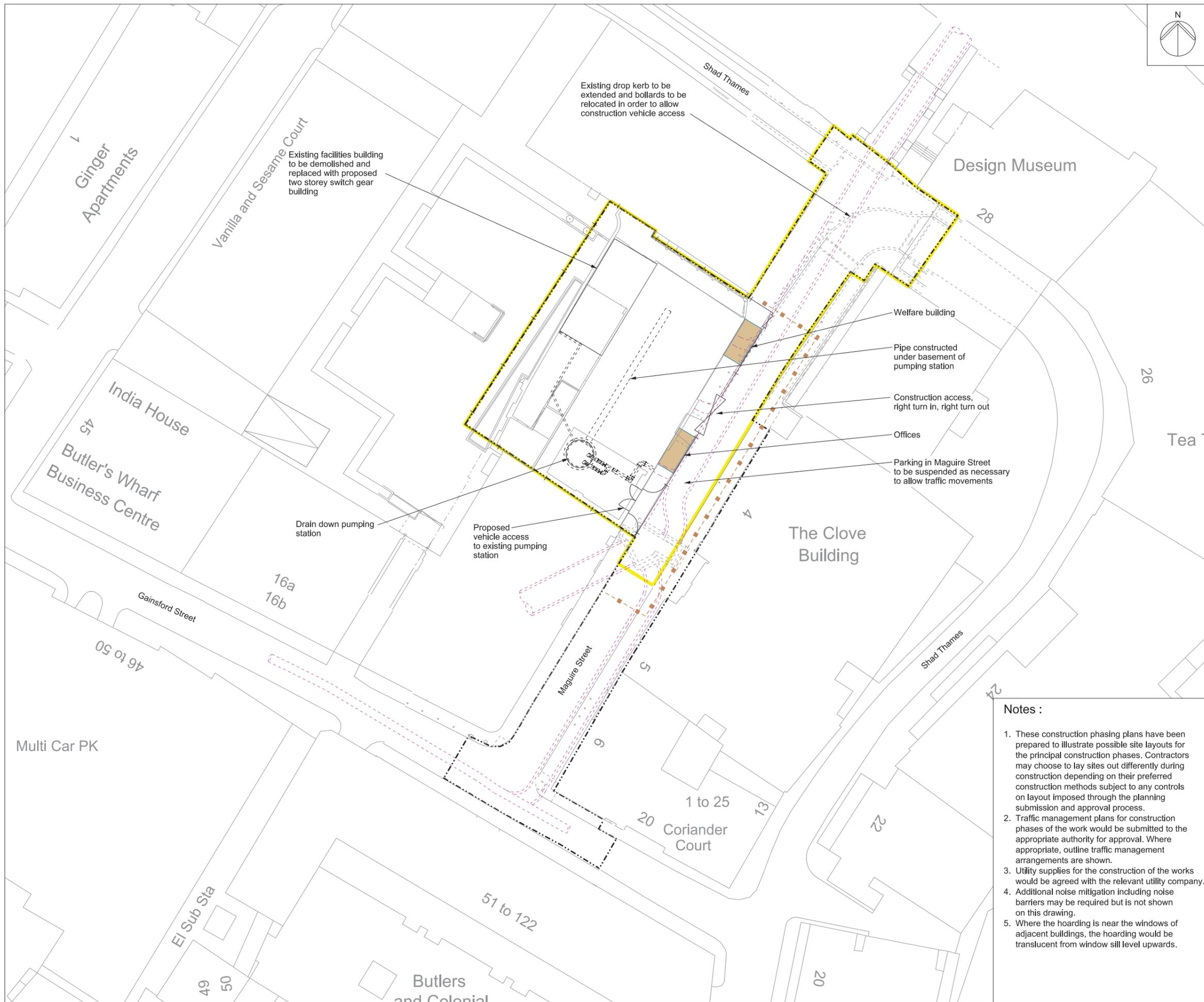


INDICATIVE

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
As existing and proposed
East elevation
Book of plans - section 20
DCO-PP-18X-SHTPS-200011
January 2013





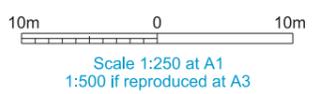
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Key:

	Limits of land to be acquired or used (LLAU)
	Hoarding
	Maximum extent of working area
	Route of temporary diversion of footway
	Site access
	Existing sewers



Notes :

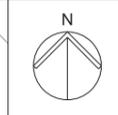
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
5. Where the hoarding is near the windows of adjacent buildings, the hoarding would be translucent from window sill level upwards.

ILLUSTRATIVE

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
Construction phases - phase 1
Pumping station modification works
Book of plans - section 20
DCO-PP-18X-SHTPS-200014
January 2013



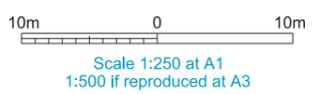


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Route of temporary diversion of footway
 - Site access
 - Existing sewers



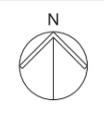
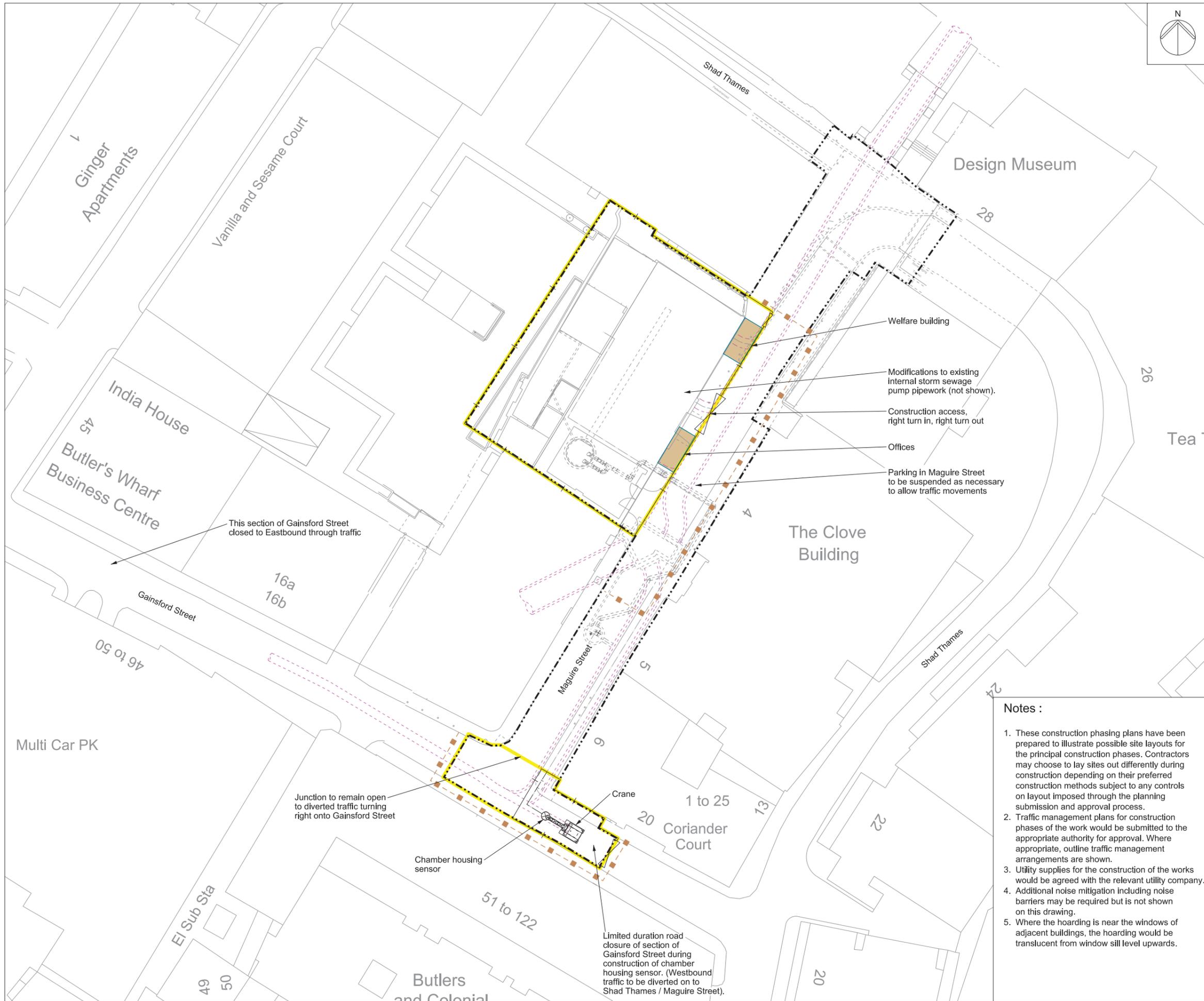
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 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 5. 1 no. footway in Maguire Street to remain open at all stages and pedestrian access to existing building entrances to be managed by contractor.
 6. Where the hoarding is near the windows of adjacent buildings, the hoarding would be translucent from window sill level upwards.

ILLUSTRATIVE

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
Construction phases - phase 2
Pumping station modification works
Book of plans - section 20
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January 2013



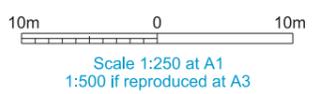


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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Route of temporary diversion of footway
 - Site access
 - Existing sewers



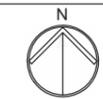
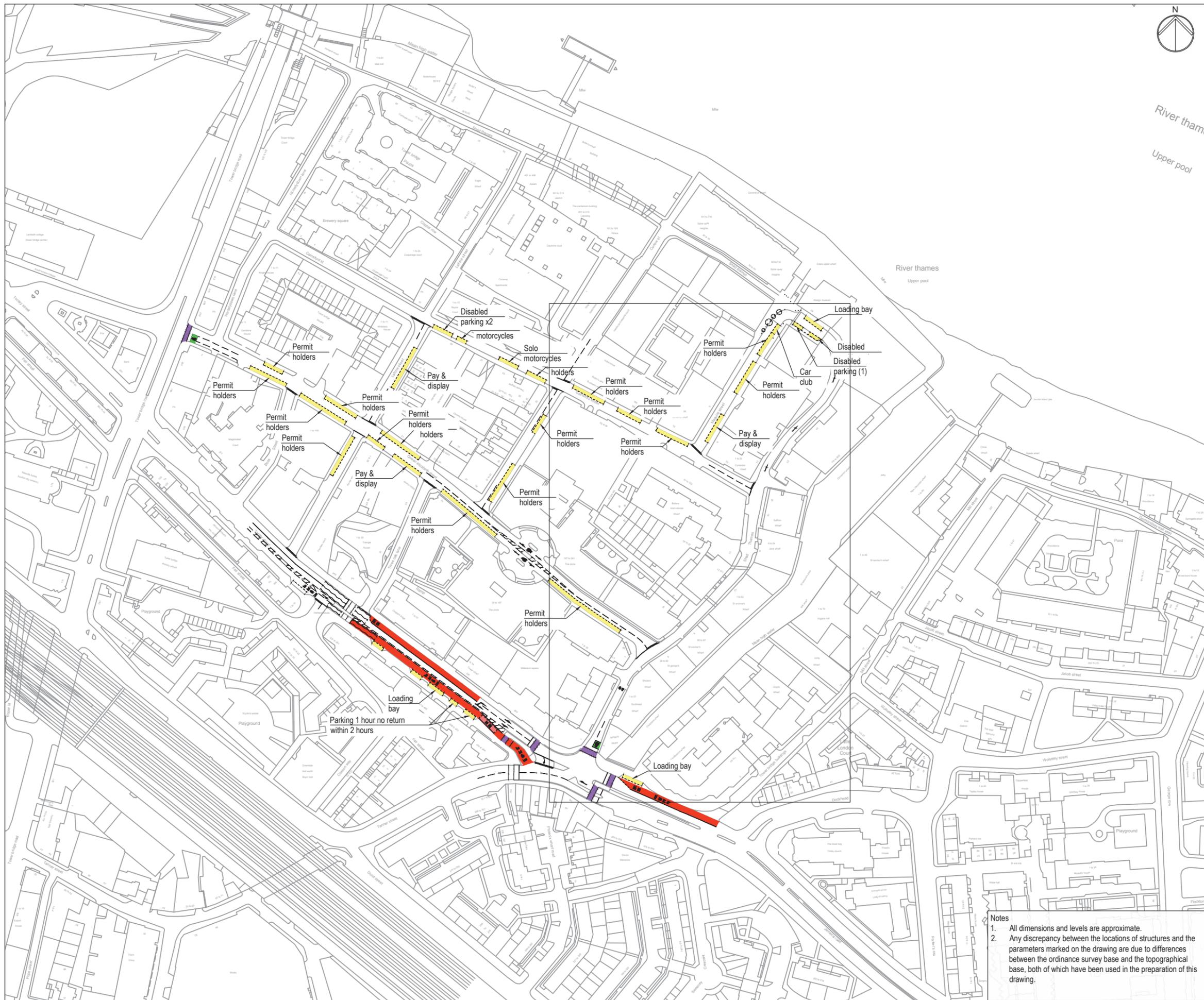
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ILLUSTRATIVE

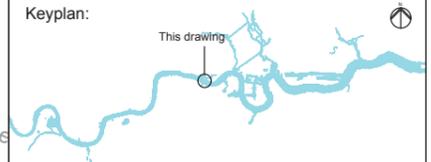
Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Application for Development Consent
Construction phases - phase 3
Pumping station modification works
Book of plans - section 20
DCO-PP-18X-SHTPS-200016
January 2013





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- Key**
- On street parking
 - Bus stop / stand
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
 - Tree
 - Bollards

Standards

- Design manual for roads and bridges, DfT, 1992
- Traffic signs regulations & general directions, TSO, 2002
- Traffic signs manual, DfT, 2006
- Manual for streets, DfT, 2007
- Manual for streets 2, CiHT, 2010
- Designing for deliveries, Fta, 1998
- Cycle infrastructure design Ltn 2/08, DfT, 2008
- Design of pedestrian crossings Ltn 2/95, DfT, 1995
- Guidance for the use of tactile paving, DfT, 1998
- Accessible bus stop design guidance, TfL, 2006

Stage
Existing



Scale 1:1000 at A1
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FOR INFORMATION

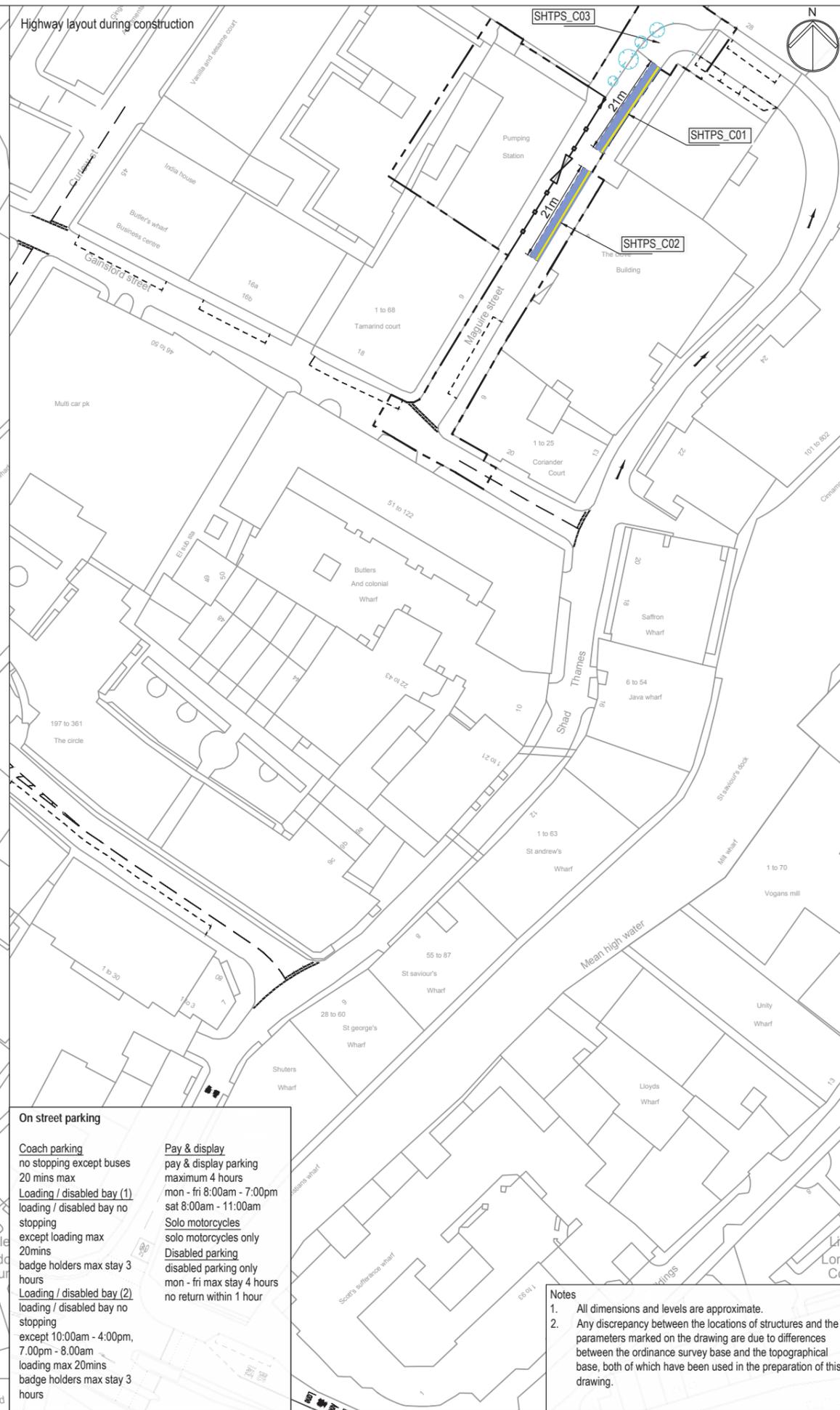
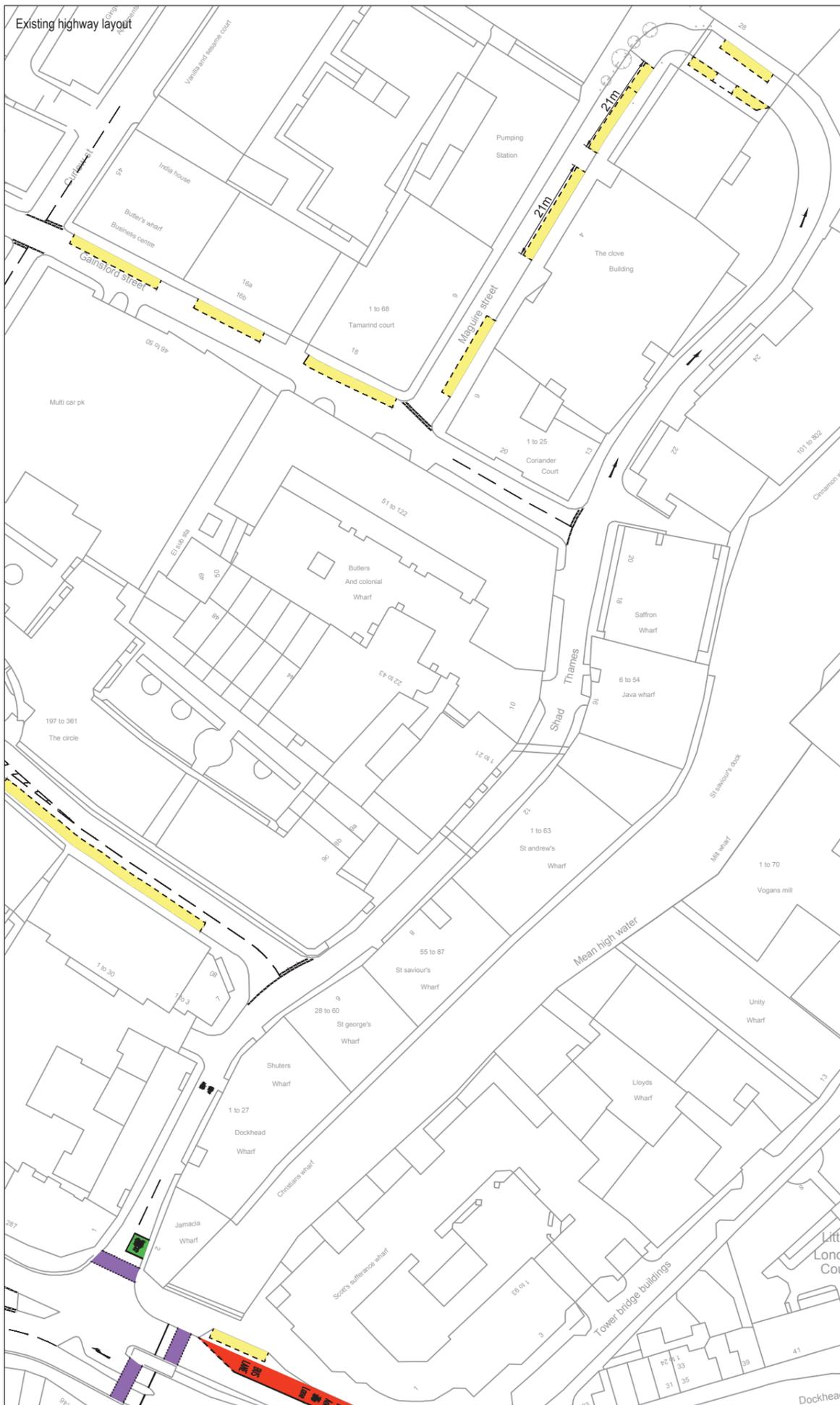
Location
Shad Thames
London Borough of Southwark

Document Information
Application for Development Consent
Existing highway layout

DCO-PP-18X-SHTPS-200021
January 2013



- Notes**
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 2. Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.



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Keyplan:

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key

Existing

- On street parking
- Bus stop / stand
- Bus lane
- Pedestrian crossing
- Cycle lane / advance stop line
- Tree
- Bollards

Revised

- L.L.A.U.
- Removal of footway
- Footway extension
- Temporary restriction to on street parking
- Illustrative on-site manoeuvring zone

SHTPS C00

- See schedule of works
- Hoarding line
- Site access
- Remove tree
- Remove bollards

Standards

- Design manual for roads and bridges, DfT, 1992
- Traffic signs regulations & general directions, TSO, 2002
- Traffic signs manual, DfT, 2006
- Manual for streets, DfT, 2007
- Manual for streets 2, CIHT, 2010
- Designing for deliveries, Fta, 1998
- Cycle infrastructure design Ltn 2/08, DfT, 2008
- Design of pedestrian crossings Ltn 2/95, DfT, 1995
- Guidance for the use of tactile paving, DfT, 1998
- Accessible bus stop design guidance, TfL, 2006

Stage

Construction phase

10m 0 40m

Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location

Shad Thames
London Borough of Southwark

Document Information

Application for Development Consent
Highway layout during construction - Phase 1

DCO-PP-18X-SHTPS-200022
January 2013

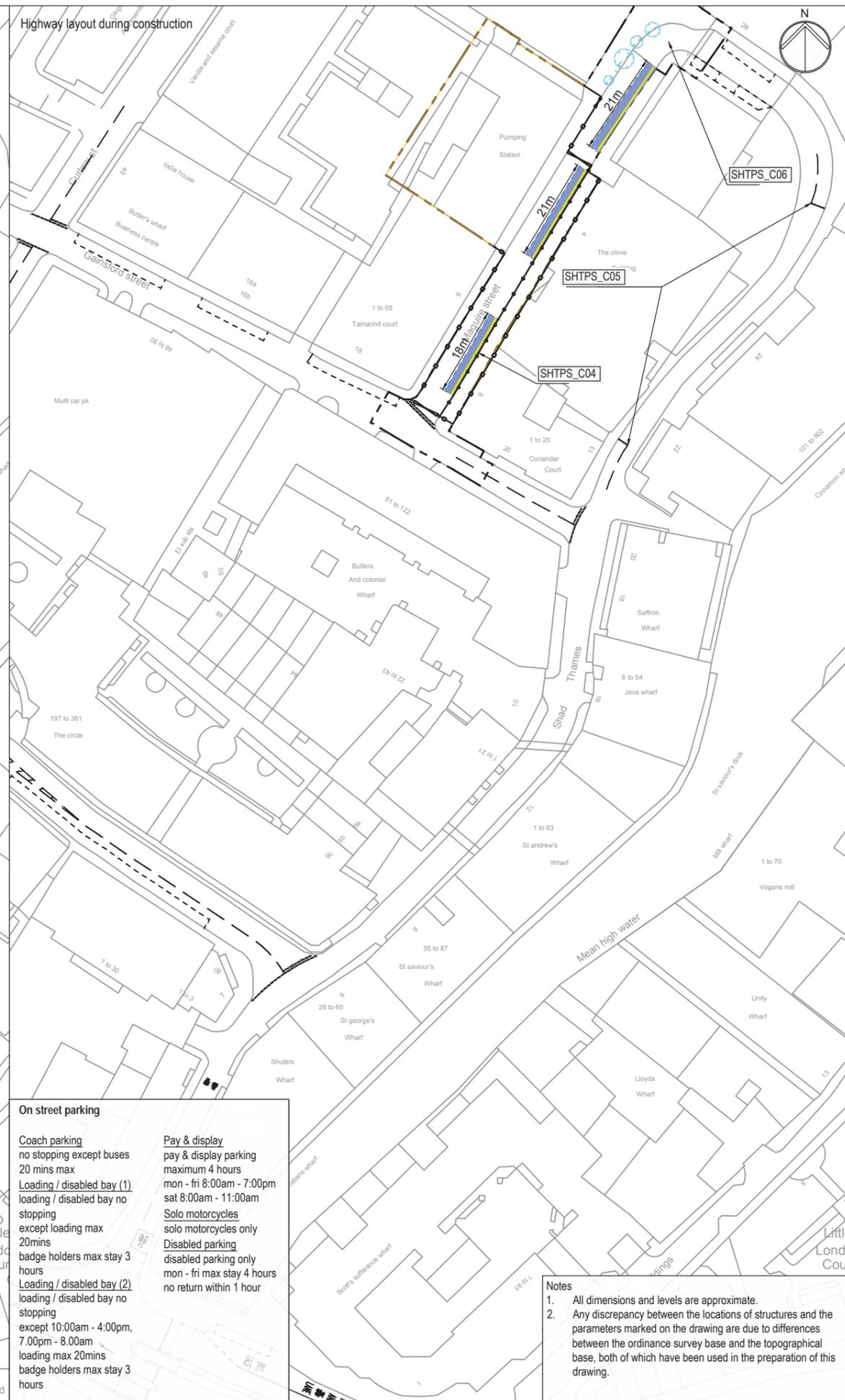
Notes

- All dimensions and levels are approximate.
- Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.

On street parking

Coach parking
no stopping except buses
20 mins max
Loading / disabled bay (1)
loading / disabled bay no
stopping
except loading max
20mins
badge holders max stay 3
hours
Loading / disabled bay (2)
loading / disabled bay no
stopping
except 10:00am - 4:00pm,
7:00pm - 8:00am
loading max 20mins
badge holders max stay 3
hours

Pay & display
pay & display parking
maximum 4 hours
mon - fri 8:00am - 7:00pm
sat 8:00am - 11:00am
Solo motorcycles
solo motorcycles only
Disabled parking
disabled parking only
mon - fri max stay 4 hours
no return within 1 hour



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Keyplan:

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key

Existing

- On street parking
- Bus stop / stand
- Bus lane
- Pedestrian crossing
- Cycle lane / advance stop line
- Tree
- Bollards

Revised

- L.L.A.U.
- Removal of footway
- Footway extension
- Temporary restriction to on street parking
- Illustrative on-site manoeuvring zone

SHTPS C00

- See schedule of works
- Hoarding line
- Site access
- Remove tree
- Remove bollards

Standards

- Design manual for roads and bridges, DfT, 1992
- Traffic signs regulations & general directions, TSO, 2002
- Traffic signs manual, DfT, 2006
- Manual for streets, DfT, 2007
- Manual for streets 2, CIHT, 2010
- Designing for deliveries, Fta, 1998
- Cycle infrastructure design Ltn 2/08, DfT, 2008
- Design of pedestrian crossings Ltn 2/95, DfT, 1995
- Guidance for the use of tactile paving, DfT, 1998
- Accessible bus stop design guidance, TfL, 2006

Stage
Construction phase

10m 0 40m
Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location
Shad Thames
London Borough of Southwark

Document Information
Application for Development Consent
Highway layout during construction - Phase 2

DCO-PP-18X-SHTPS-200023
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water

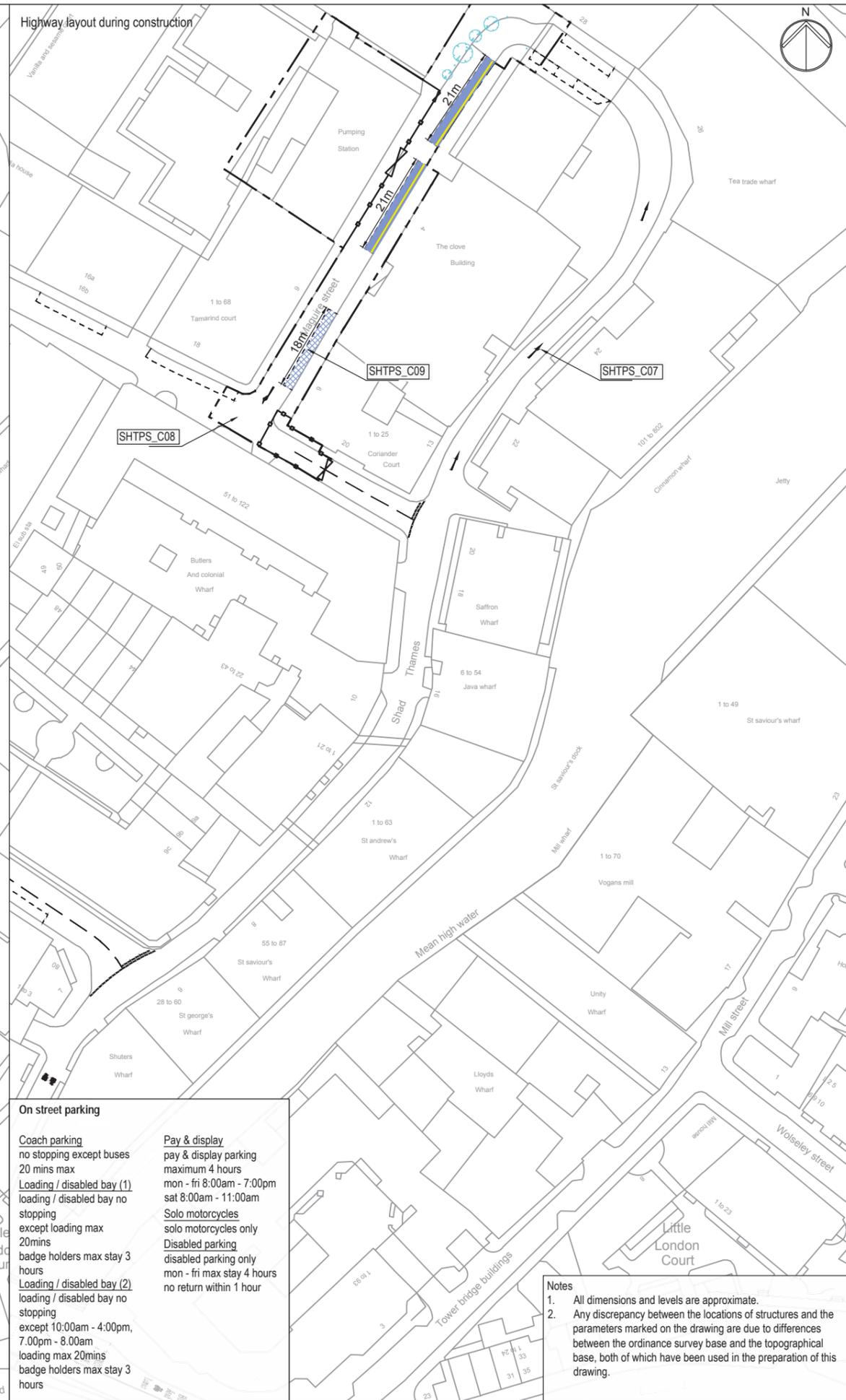
On street parking

Coach parking
no stopping except buses
20 mins max
Loading / disabled bay (1)
loading / disabled bay no stopping
except loading max 20mins
badge holders max stay 3 hours
Loading / disabled bay (2)
loading / disabled bay no stopping
except 10:00am - 4:00pm,
7:00pm - 8:00am
loading max 20mins
badge holders max stay 3 hours

Pay & display
pay & display parking
maximum 4 hours
mon - fri 8:00am - 7:00pm
sat 8:00am - 11:00am
Solo motorcycles
solo motorcycles only
Disabled parking
disabled parking only
mon - fri max stay 4 hours
no return within 1 hour

Notes

- All dimensions and levels are approximate.
- Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.



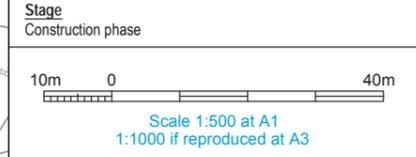
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- On street parking
 - Bus stop / stand
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
 - Tree
 - Bollards
- Revised**
- L.L.A.U.
 - Removal of footway
 - Footway extension
 - Temporary restriction to on street parking
 - Illustrative on-site manoeuvring zone
 - See schedule of works
 - Hoarding line
 - Site access
 - Remove tree
 - Remove bollards
 - Reinstated parking

- Standards**
- Design manual for roads and bridges, DfT, 1992
 - Traffic signs regulations & general directions, TSO, 2002
 - Traffic signs manual, DfT, 2006
 - Manual for streets, DfT, 2007
 - Manual for streets 2, CIHT, 2010
 - Designing for deliveries, Fta, 1998
 - Cycle infrastructure design Ltn 2/08, DfT, 2008
 - Design of pedestrian crossings Ltn 2/95, DfT, 1995
 - Guidance for the use of tactile paving, DfT, 1998
 - Accessible bus stop design guidance, TfL, 2006



ILLUSTRATIVE

Location
Shad Thames
London Borough of Southwark

Document Information
Application for Development Consent
Highway layout during construction - Phase 3

DCO-PP-18X-SHTPS-200024
January 2013

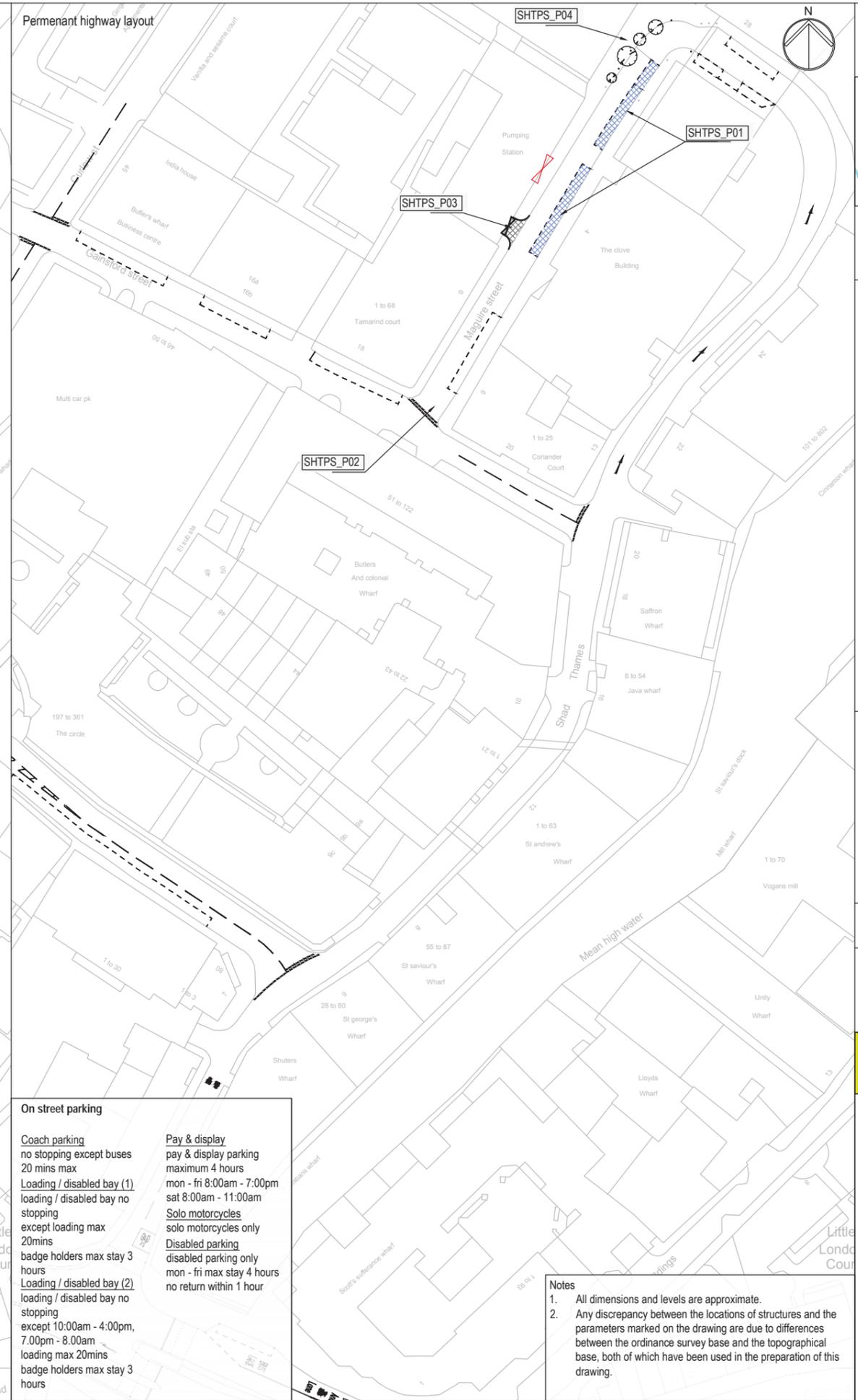


On street parking

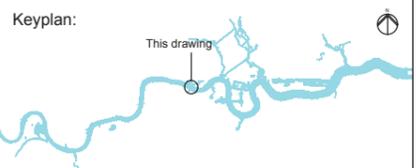
Coach parking
no stopping except buses
20 mins max
Loading / disabled bay (1)
loading / disabled bay no stopping
except loading max 20mins
badge holders max stay 3 hours
Loading / disabled bay (2)
loading / disabled bay no stopping
except 10:00am - 4:00pm,
7:00pm - 8:00am
loading max 20mins
badge holders max stay 3 hours

Pay & display
pay & display parking
maximum 4 hours
mon - fri 8:00am - 7:00pm
sat 8:00am - 11:00am
Solo motorcycles
solo motorcycles only
Disabled parking
disabled parking only
mon - fri max stay 4 hours
no return within 1 hour

- Notes**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.



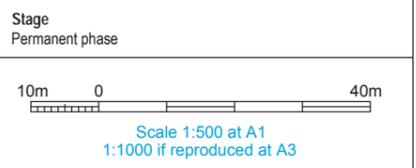
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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- On street parking
 - Bus lane
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised**
- Reinstated on street parking
 - See schedule of works
 - Reinstated tree
 - Reinstated bollards
 - Site access (new)
 - Strengthen footway / vehicle crossover area
 - Existing site access

- Standards**
- Design manual for roads and bridges, DfT, 1992
 - Traffic signs regulations & general directions, TSO, 2002
 - Traffic signs manual, DfT, 2006
 - Manual for streets, DfT, 2007
 - Manual for streets 2, CiHT, 2010
 - Designing for deliveries, Fta, 1998
 - Cycle infrastructure design Ltn 2/08, DfT, 2008
 - Design of pedestrian crossings Ltn 2/95, DfT, 1995
 - Guidance for the use of tactile paving, DfT, 1998
 - Accessible bus stop design guidance, TfL, 2006



ILLUSTRATIVE

Location
Shad Thames
London Borough of Southwark

Document Information
Application for Development Consent
Permanent highway layout

DCO-PP-18X-SHTPS-200025
January 2013

On street parking

Coach parking
no stopping except buses
20 mins max

Loading / disabled bay (1)
loading / disabled bay no stopping
except loading max 20mins
badge holders max stay 3 hours

Loading / disabled bay (2)
loading / disabled bay no stopping
except 10:00am - 4:00pm,
7:00pm - 8:00am
loading max 20mins
badge holders max stay 3 hours

Pay & display
pay & display parking
maximum 4 hours
mon - fri 8:00am - 7:00pm
sat 8:00am - 11:00am
Solo motorcycles
solo motorcycles only

Disabled parking
disabled parking only
mon - fri max stay 4 hours
no return within 1 hour

Notes

1. All dimensions and levels are approximate.
2. Any discrepancy between the locations of structures and the parameters marked on the drawing are due to differences between the ordnance survey base and the topographical base, both of which have been used in the preparation of this drawing.

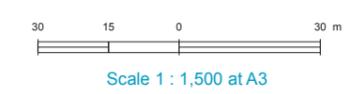
2 Environmental impact assessment figures

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- Key
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
 - River Thames



FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Site location plan
Vol. 19 Figure 2.1.1

1PL03-MG-00720
January 2013



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Keyplan:

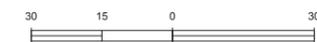


Key

- Limits of Land to be Acquired or Used
- Local Authority Boundary

Land Use

- Class A1-A5 (Shops, Financial & Professional Services, Restaurants, Drinking Establishments and Hot Food Takeaways)
- Class B1 (Business (Offices except A2) Research and Development, Light Industry)
- Class C3-C4 (Dwelling Houses)
- Class D1-D2 (Non Residential Institutions (Community Facilities) and Assembly and Leisure)
- Mixed Use
- Other



Scale 1 : 1,500 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

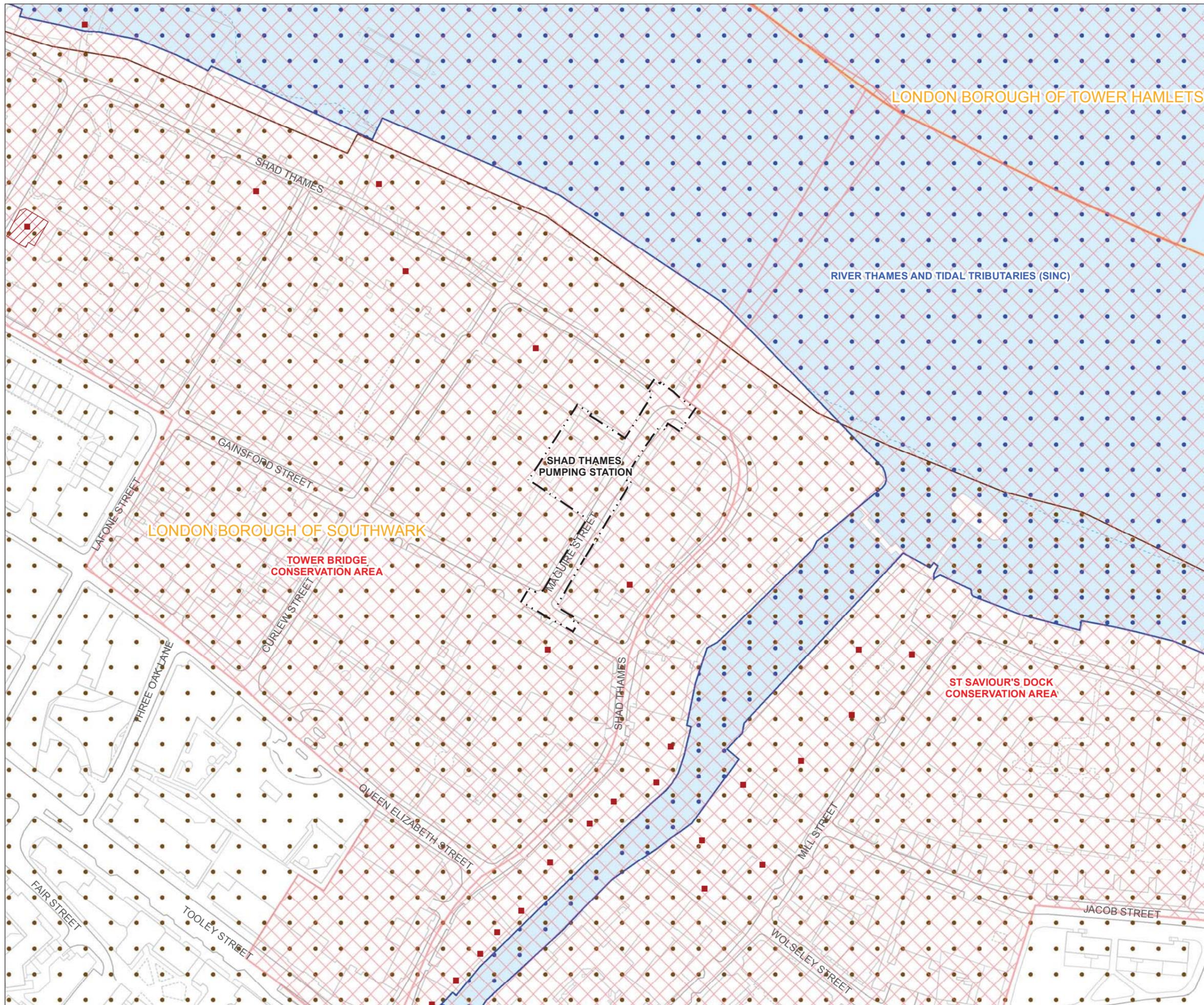
Land use

Vol. 19 Figure 2.1.2

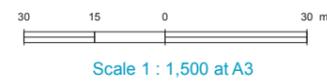
1PL03-MG-00766
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





- Key**
- Listed Building Point
 - Limits of Land to be Acquired or Used
 - Listed Building Area
 - LPA Conservation Area
 - LPA Archaeological Area
 - Local Authority Boundary
 - River Thames
 - Sites of Importance for Nature Conservation (SINC)
 - Metropolitan Importance



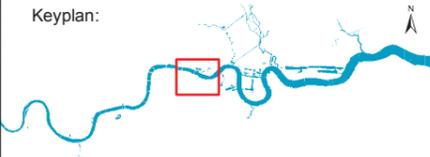
FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Environmental setting
Vol. 19 Figure 2.1.3

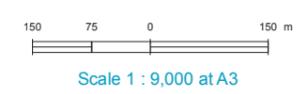
1PL03-MG-00694
January 2013





- Key**
- Planning Application
 - Limits of Land to be Acquired or Used
 - Planning Application (1km Boundary)
 - Local Authority Boundary

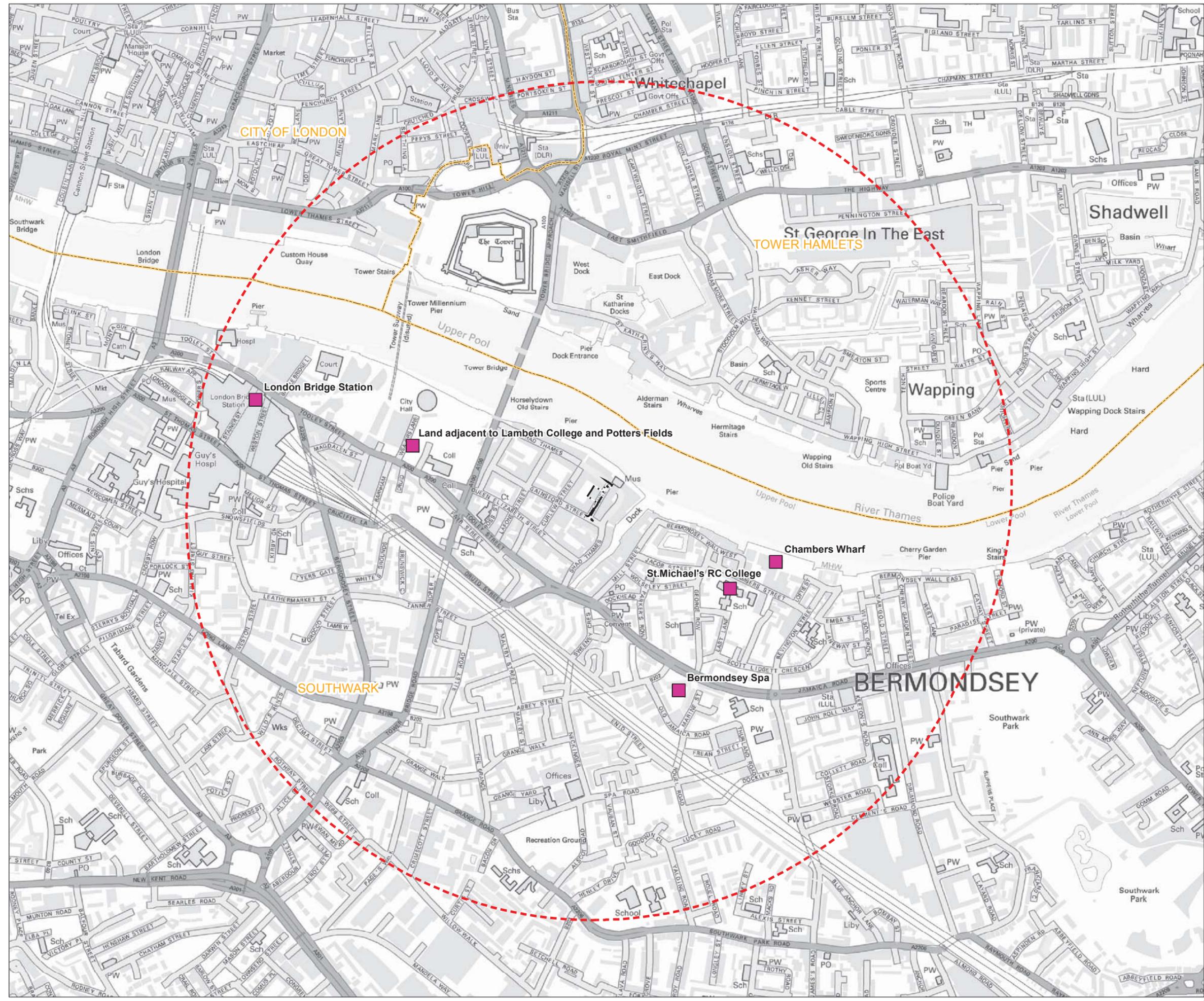
Note: This plan does not show the full extent for each planning application, but a single point within the application site.



FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

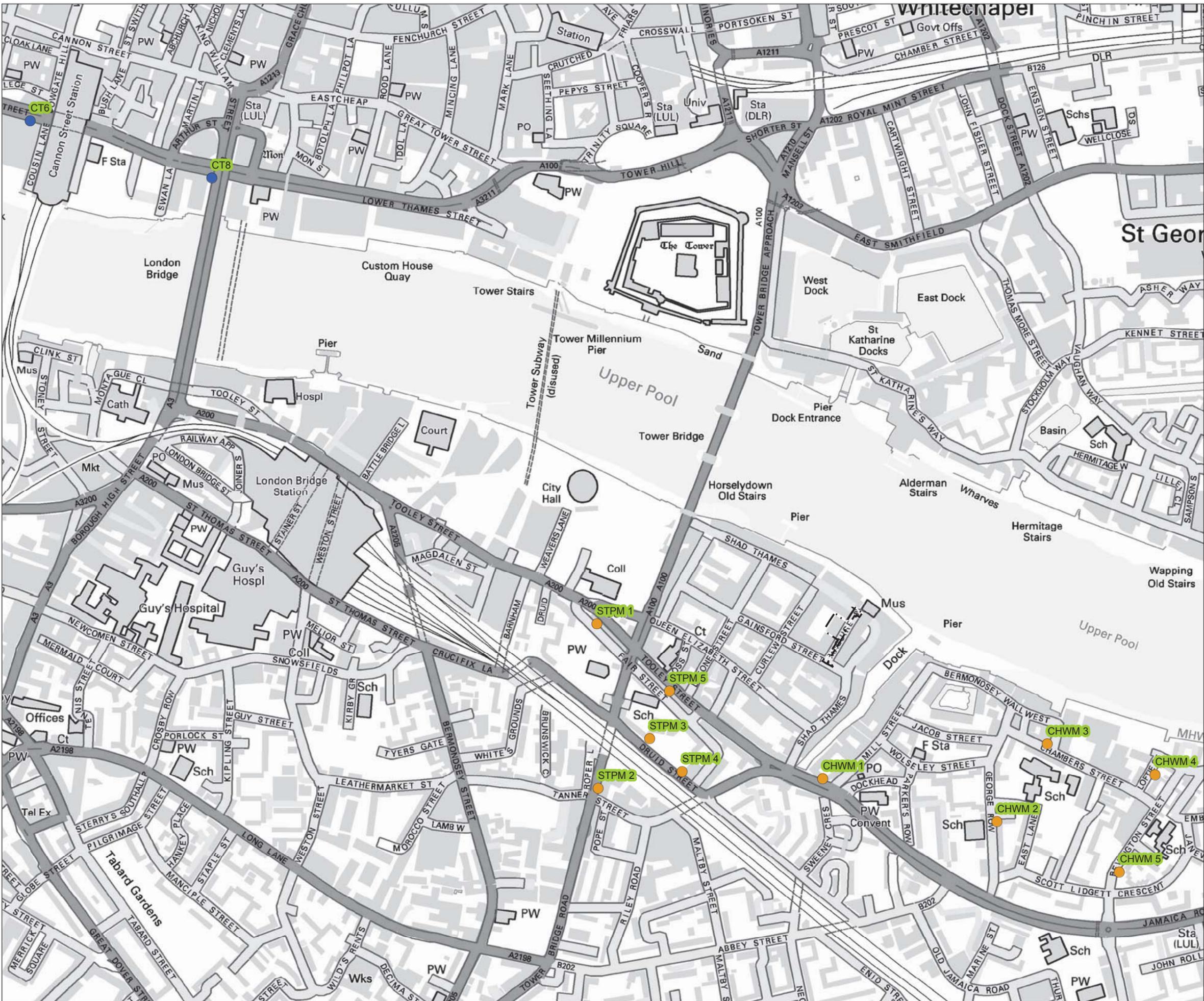
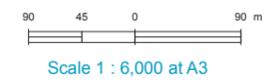
Document Information
Environmental Statement
 Base case and cumulative development projects
 Vol.19 Figure 3.5.1
 1PL03-MG-00735
 January 2013



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- Key
- Limits of Land to be Acquired or Used
 - Existing Local Authority Continuous Monitors
 - Existing Local Authority Diffusion Tubes
 - New Diffusion Tubes (Project)

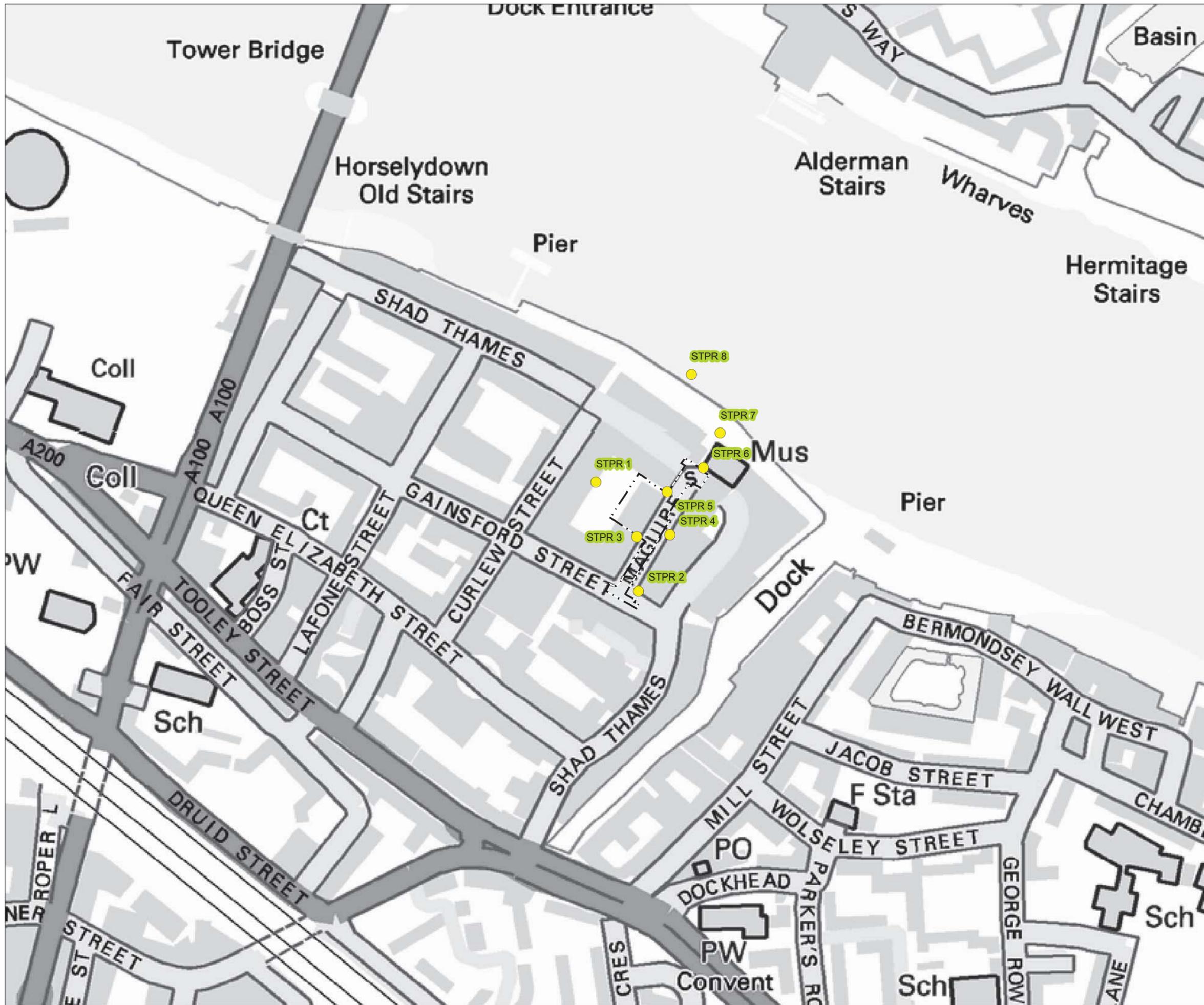


FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Air quality and odour - air quality monitoring sites
 Vol.19 Figure 4.4.1
 1PL03-AQ-10970
 January 2013





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Key

- - - Limits of Land to be Acquired or Used
- Modelled Receptors

Note: The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.

- STPR 1 - Vanilla & Sesame Court
- STPR 2 - Coriander Court
- STPR 3 - Tamarind Court
- STPR 4 - Clove Building
- STPR 5 - Wheat Wharf
- STPR 6 - The Design Museum
- STPR 7 - Thames Path
- STPR 8 - River Thames



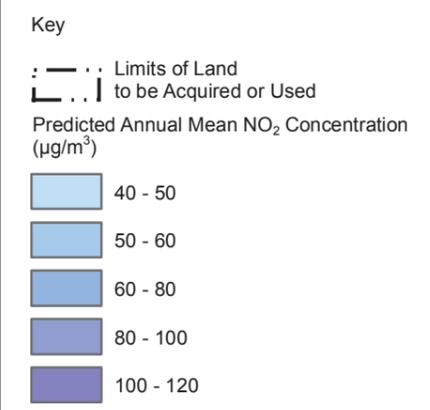
FOR INFORMATION

Location
 Shad Thames Pumping Station
 London Borough of Southwark

Document Information
 Environmental Statement
 Air quality and odour - modelled air quality receptors
 Vol.19 Figure 4.4.2
 1PL03-AQ-10972
 January 2013



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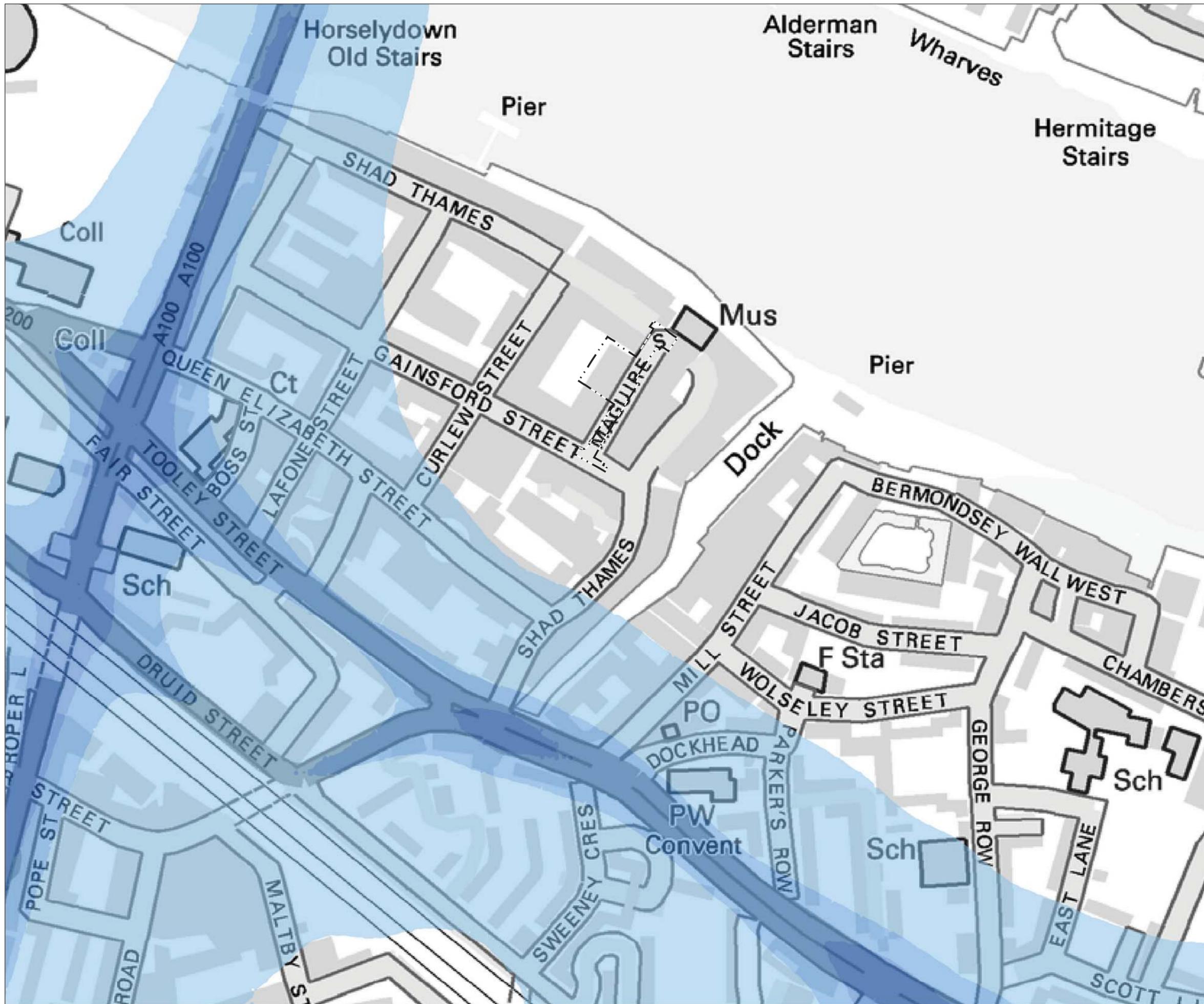
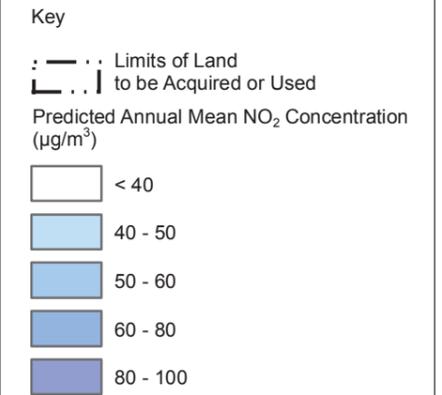


FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Air quality and odour - annual mean NO₂ for 2010 baseline
 Vol.19 Figure 4.5.1
 1PL03-AQ-10973
 January 2013



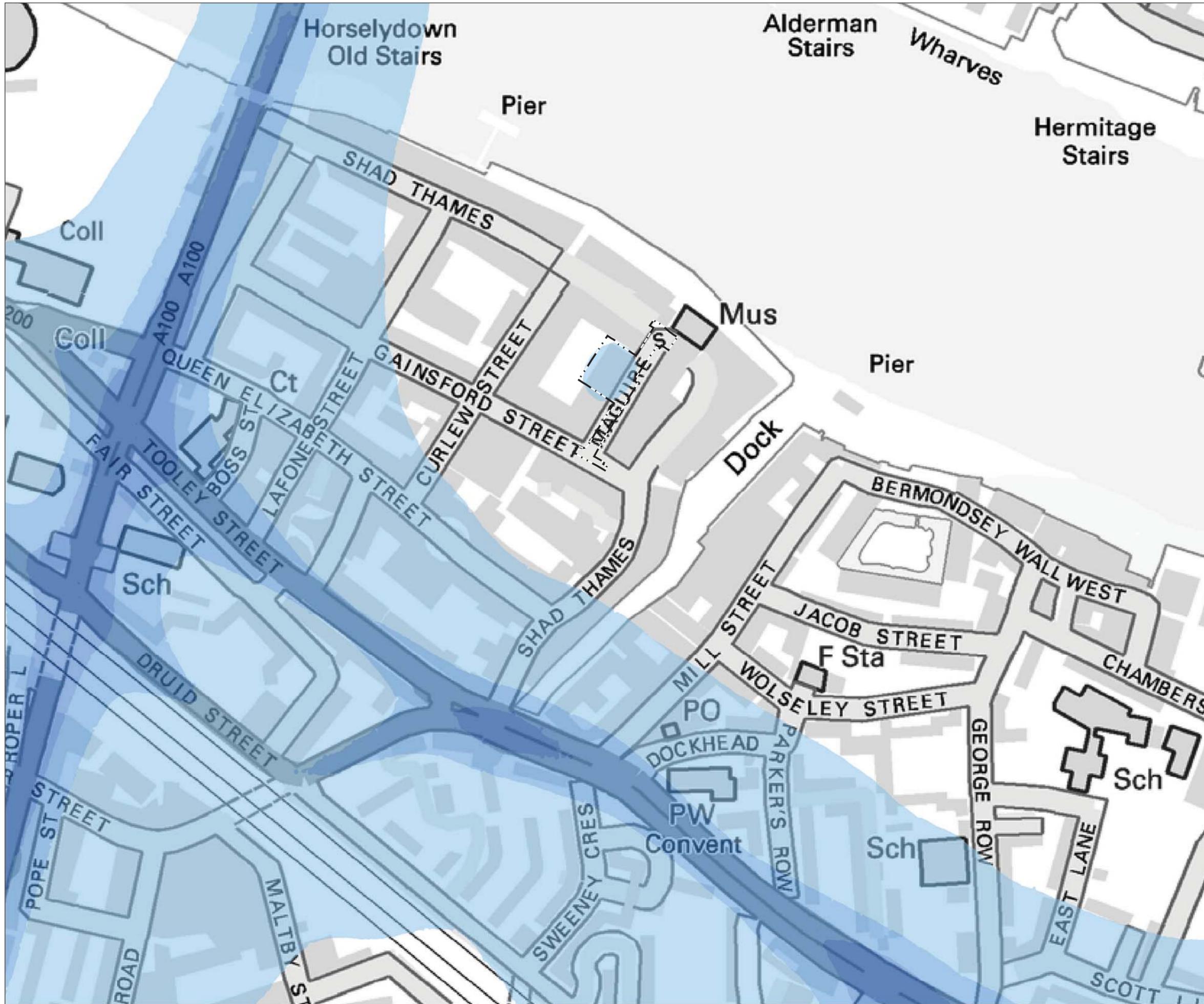


FOR INFORMATION

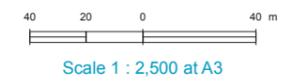
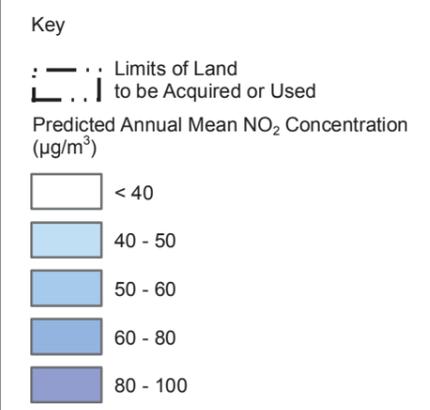
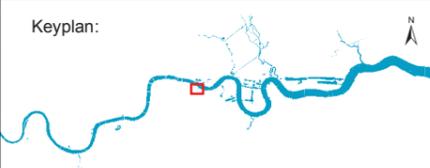
Location
 Shad Thames Pumping Station
 London Borough of Southwark

Document Information
 Environmental Statement
 Air quality and odour - annual mean NO₂
 for peak construction year base case
 Vol.19 Figure 4.5.2
 1PL03-AQ-10974
 January 2013





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FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Air quality and odour - annual mean NO₂ for peak construction year development case Vol.19 Figure 4.5.3
 1PL03-AQ-10975
 January 2013



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Keyplan:



Key

- Limits of Land
 - - - to be Acquired or Used
- Predicted Annual Mean NO₂ Impact (µg/m³)
- < 0.4
 - 0.4 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 2.8



Scale 1 : 1,250 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Air quality and odour - annual mean NO₂ impact for peak construction year
Vol.19 Figure 4.5.4

1PL03-AQ-10976
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



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Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM₁₀ Concentration (µg/m³)**
- 22 - 24
- 24 - 26
- 26 - 28
- 28 - 30
- 30 - 35
- 35 - 40



Scale 1 : 2,500 at A3

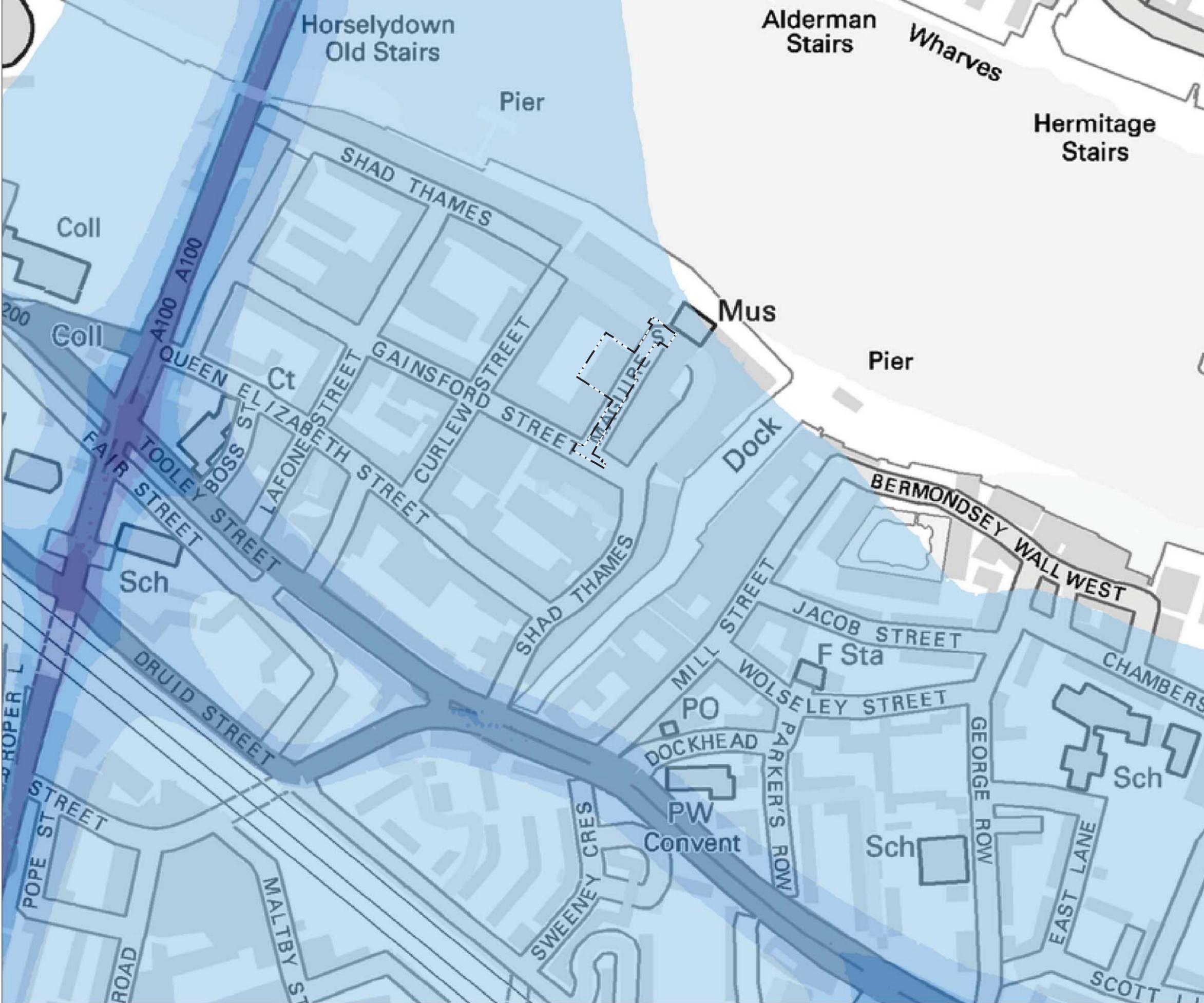
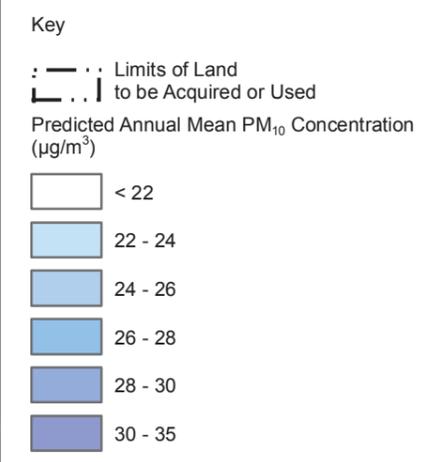
FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀
 for 2010 baseline
 Vol.19 Figure 4.5.5
 1PL03-AQ-10977
 January 2013



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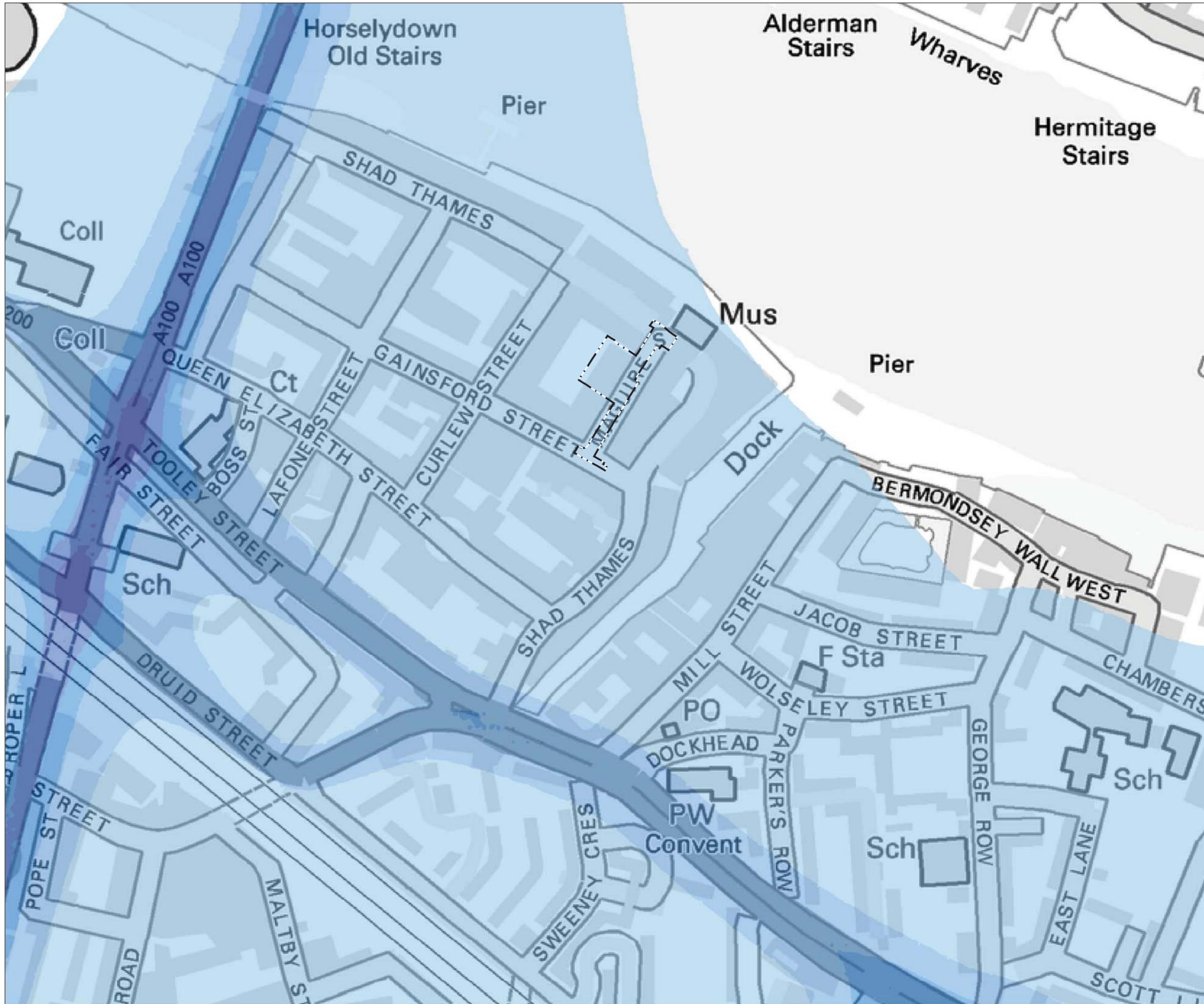


FOR INFORMATION

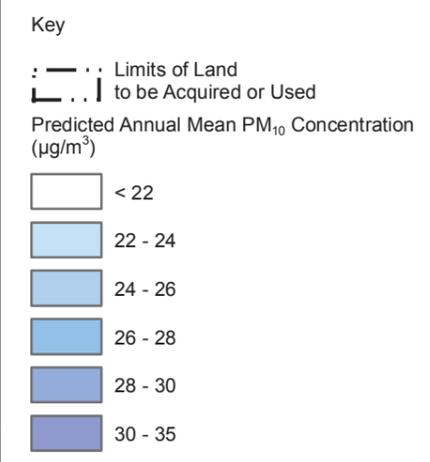
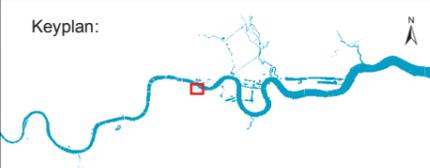
Location
 Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀
 for peak construction year base case
 Vol.19 Figure 4.5.6
 1PL03-AQ-10978
 January 2013





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FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

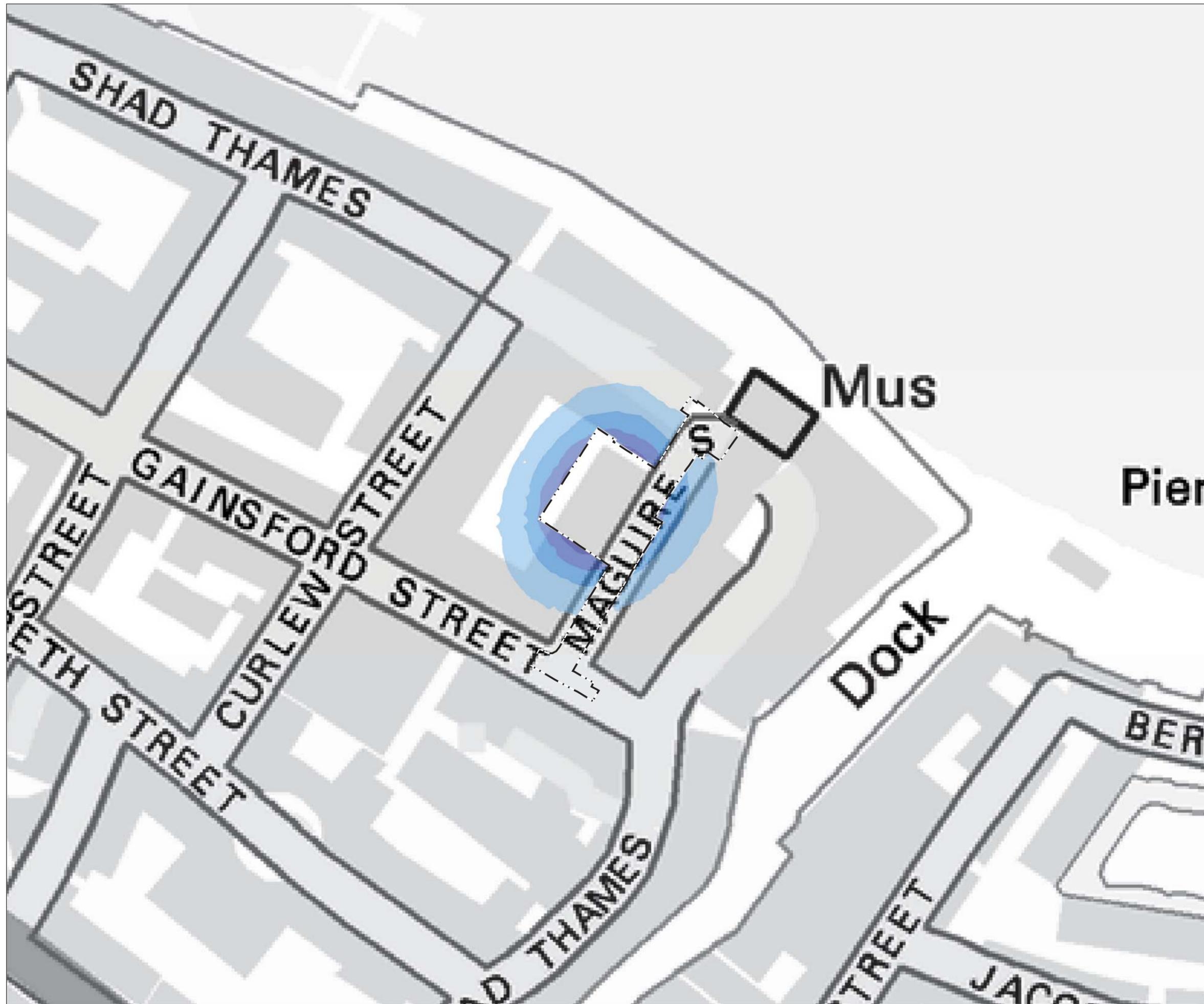
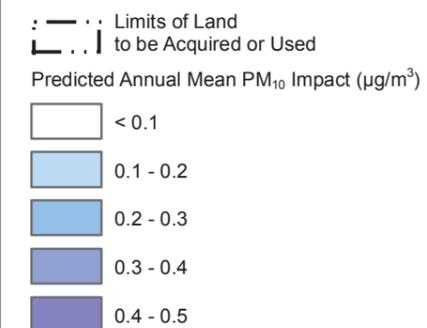
Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀ for peak construction year development case Vol.19 Figure 4.5.7
 1PL03-AQ-10979
 January 2013



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Key



Scale 1 : 1,250 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Air quality and odour - annual mean PM₁₀
impact for peak construction year
Vol.19 Figure 4.5.8

1PL03-AQ-10980
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

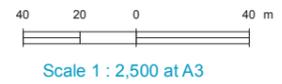




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- Key
- Limits of Land to be Acquired or Used
 - 250m from Site
 - Local Authority Boundary
 - Sites of Importance for Nature Conservation (SINC)
 - Metropolitan Importance
 - Local Importance



FOR INFORMATION

Location
 Shad Thames Pumping Station
 London Borough of Southwark

Document Information
 Environmental Statement
 Terrestrial ecology - designated sites

Vol. 19 Figure 6.4.1
 1PL03-TE-40121
 January 2013

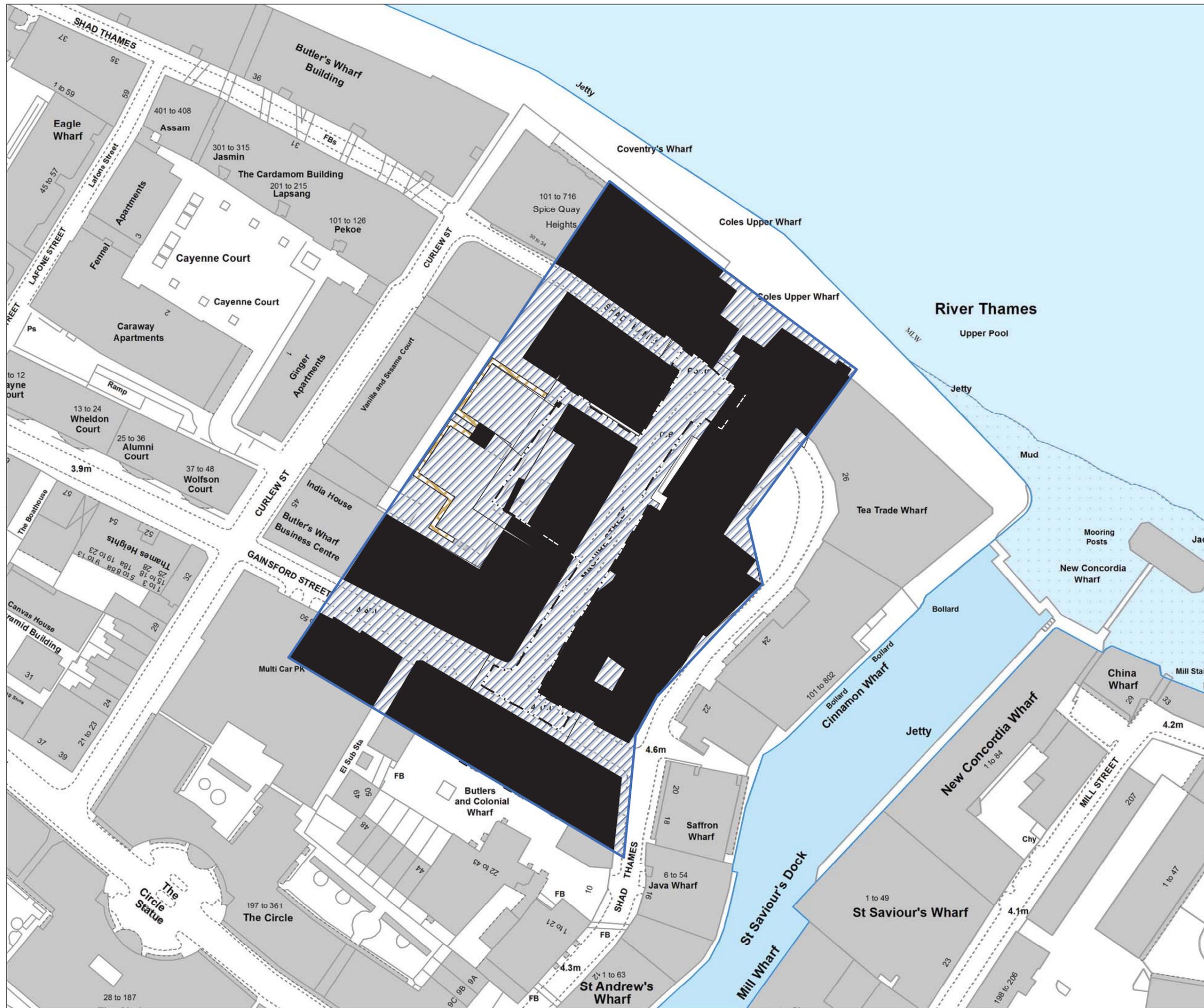


Keyplan:



Key

- Limits of Land
- to be Acquired or Used
- Survey Area
- Built-Up Areas - Buildings
- Cultivated/disturbed land - Introduced shrub
- Hard Standing



Scale 1 : 1,000 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Terrestrial ecology – Phase 1 Habitat Survey

Vol. 19 Figure 6.4.2

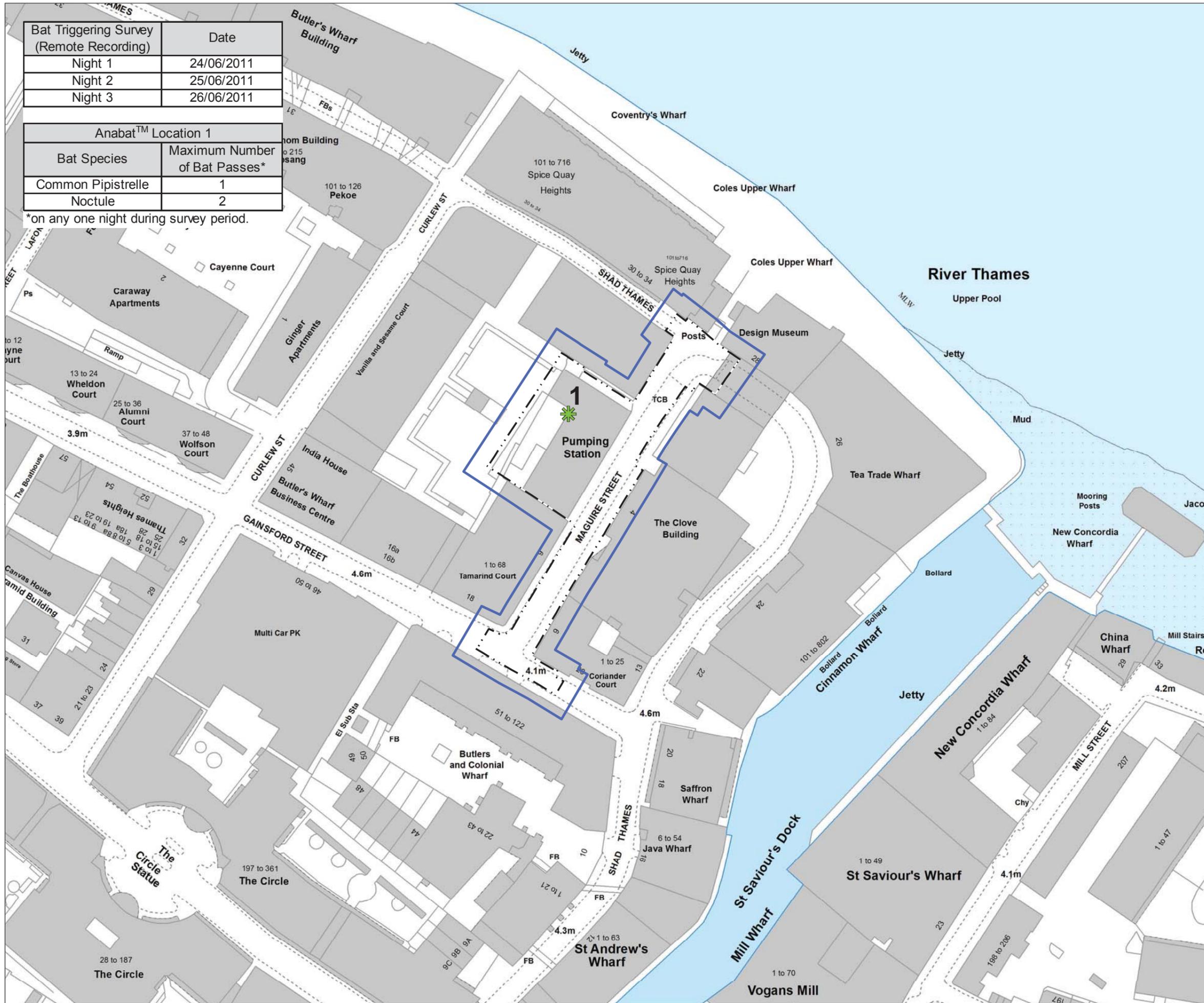
1PL03-TE-40110

January 2013

Bat Triggering Survey (Remote Recording)	Date
Night 1	24/06/2011
Night 2	25/06/2011
Night 3	26/06/2011

Anabat™ Location 1	
Bat Species	Maximum Number of Bat Passes*
Common Pipistrelle	1
Noctule	2

*on any one night during survey period.

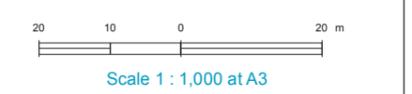


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- Key
- Limits of Land to be Acquired or Used
 - Survey Area
 - Bat Triggering Survey (Remote Recording)
 - Anabat™ Location (1)
 - Activity Survey (Dawn at 04:59 on 14/07/2011)

Note:
No bats detected during surveys.



FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Terrestrial ecology – bat triggering (remote recording) and bat activity survey
Vol. 19 Figure 6.4.3
1PL03-TE-40203
January 2013



Keyplan:



Key

- Limits of Land
- to be Acquired or Used
- Survey Area
- Local Authority Boundary

Note:
No field signs recorded during survey.



Scale 1 : 2,000 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Terrestrial ecology – black redstart survey

Vol. 19 Figure 6.4.4

1PL03-TE-40060

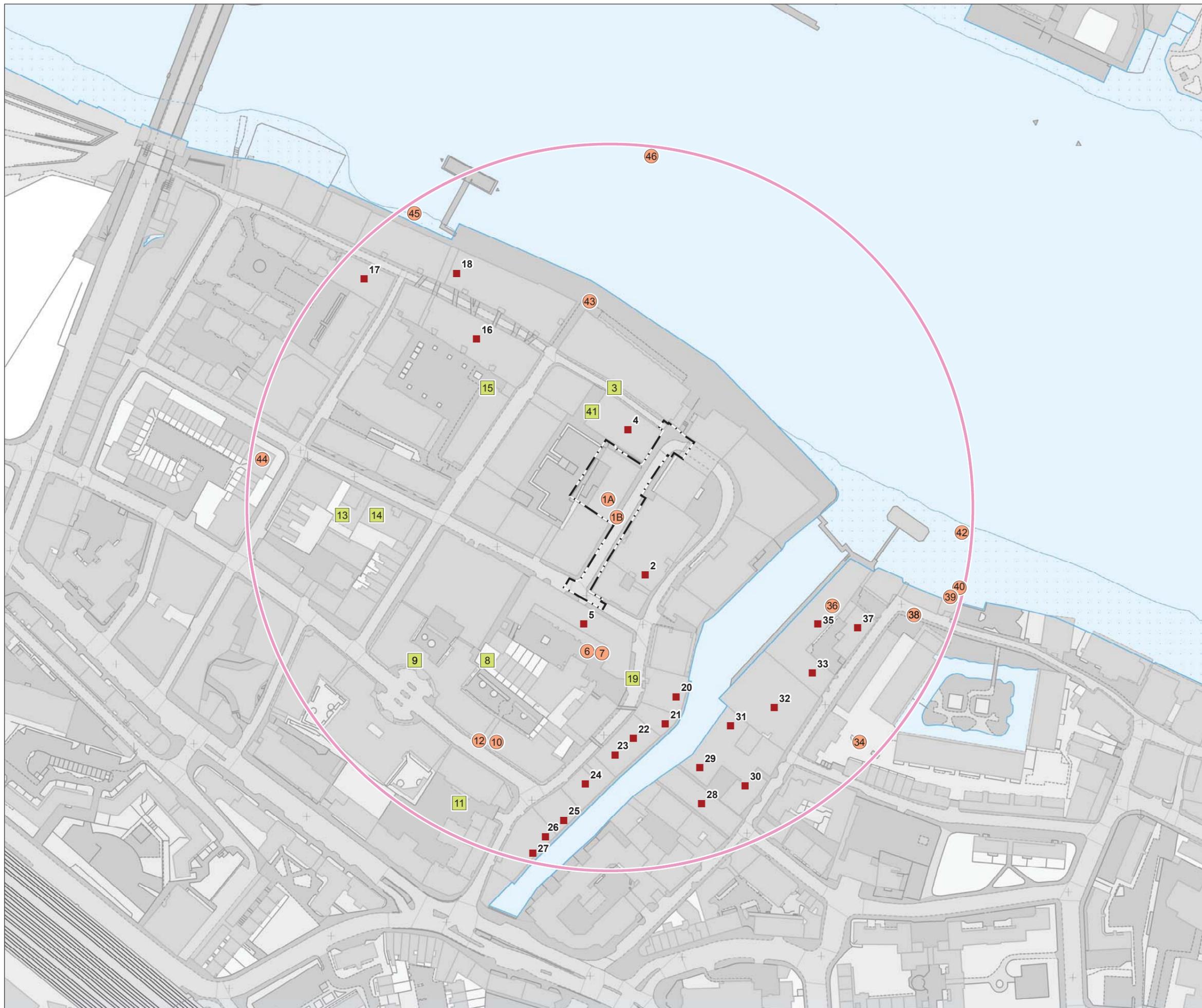
January 2013

Keyplan:



Key

- Limits of Land to be Acquired or Used
- Assessment Area
- Heritage Feature/Findspot
- Past Archaeological Investigation
- Statutorily Listed Building



The reference numbers for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 19 Appendix E.1

Note: Archaeological Priority Zones/ Conservation Areas not shown



Scale 1 : 2,000 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Historic environment -
historic environment features map
Vol.19 Figure 7.4.1

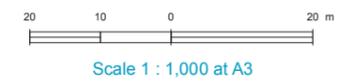
1PL03-HE-60077
January 2013



- Key
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
 - Heritage Feature/Findspot
 - Statutorily Listed Building
 - Conservation Area
 - View of Heritage Value (VHV)
 - Construction phase ZTV



The reference number for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 19 Appendix E.1

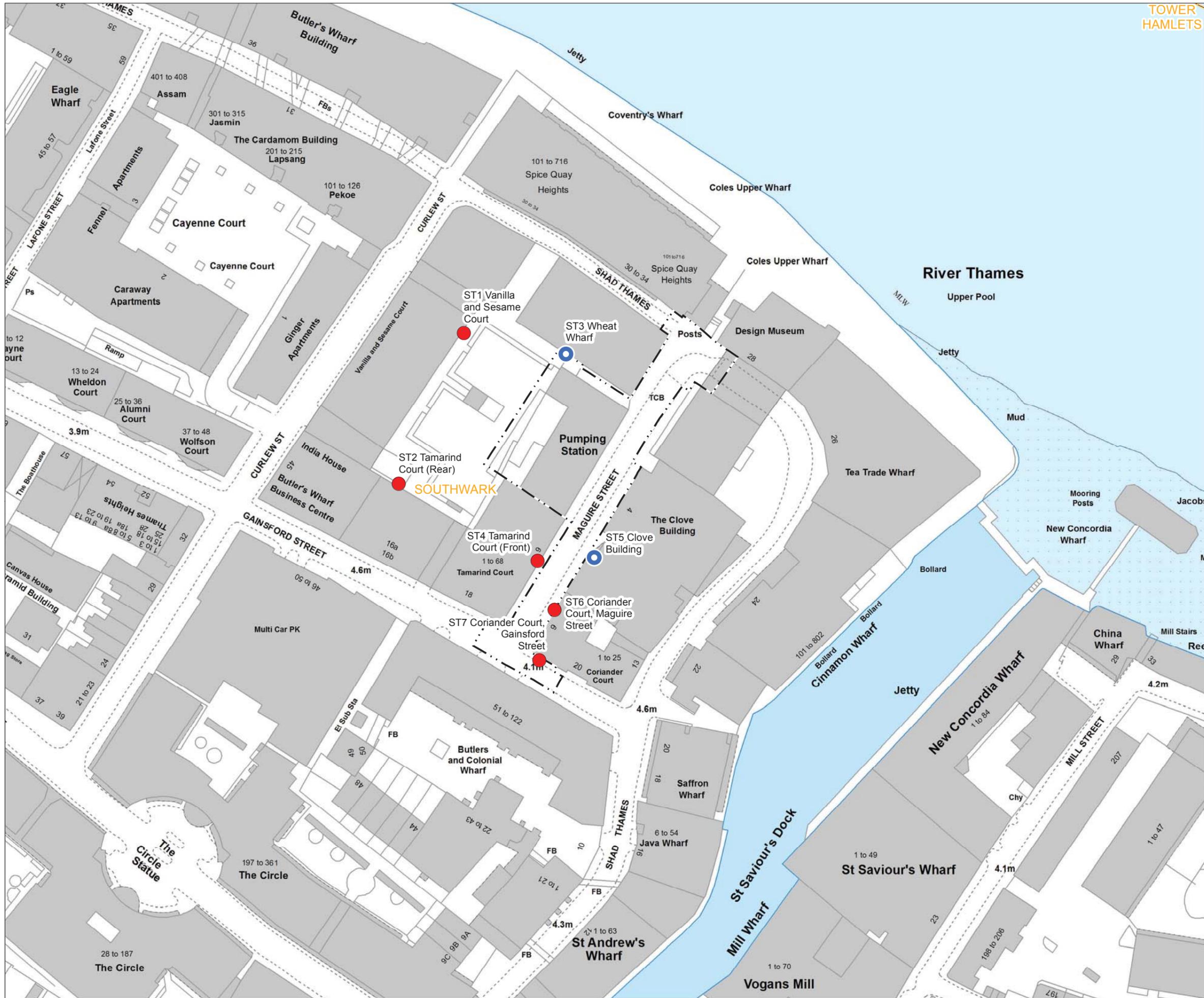


FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

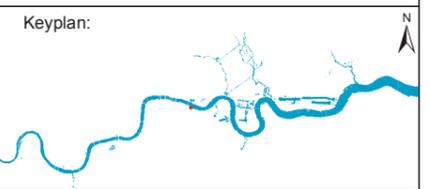
Document Information
Environmental Statement
Historic environment - historic character and setting of heritage assets
Vol. 19 Figure 7.4.2
1PL03-HE-65200
January 2013





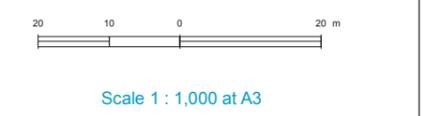
TOWER
HAMLETS

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- Key
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
- Representative Receptor Locations:
- Residential
 - Non-Residential

Note:
The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.



FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

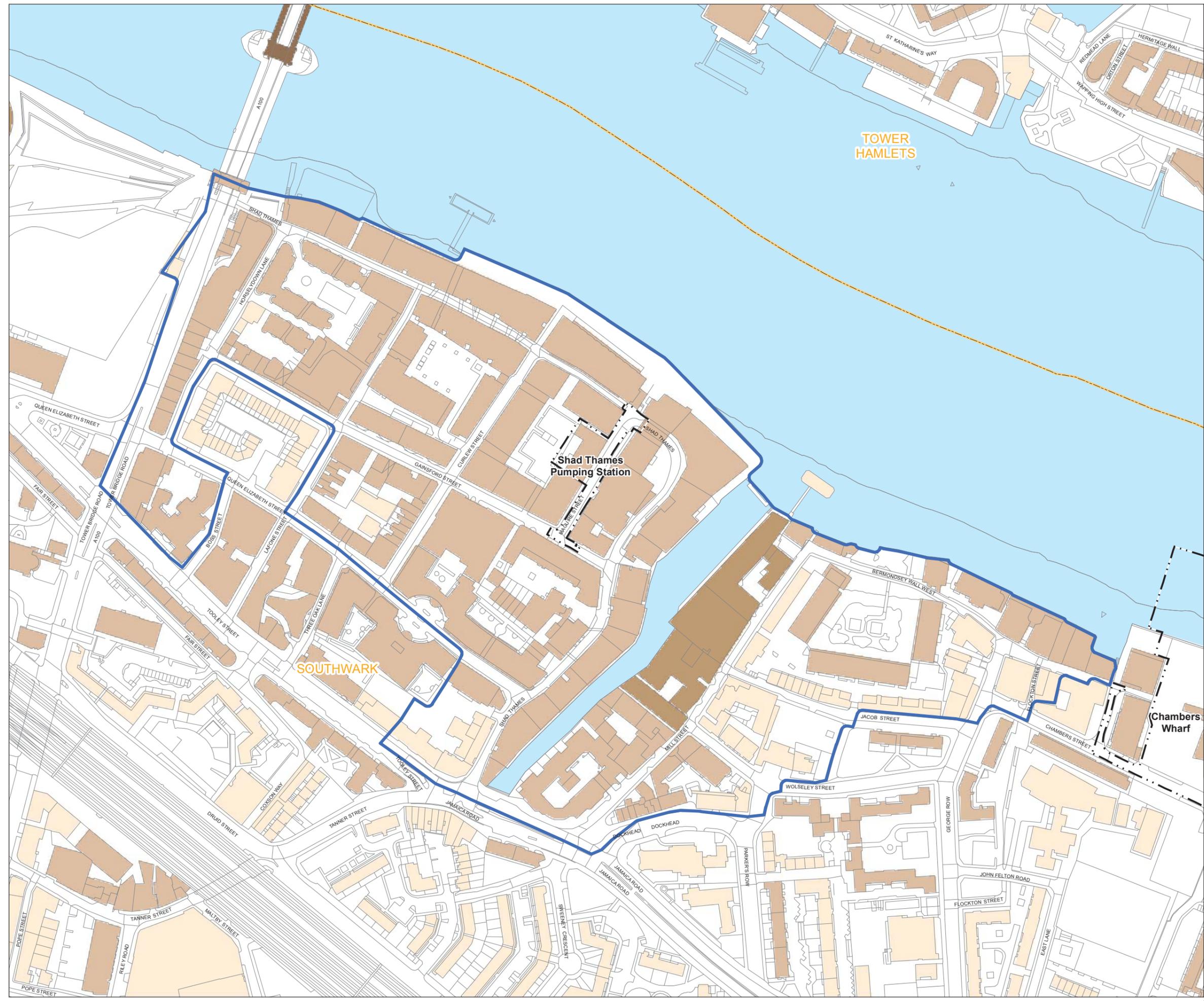
Document Information
Environmental Statement
Noise and vibration - receptor locations

Vol.19 Figure 9.4.1
1PL03-NV-40135
January 2013

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- Key:**
- Limits of Land to be Acquired or Used
 - Local Authority boundary
 - ▭ Extents of construction phase townscape assessment area
 - ▭ River Thames and tidal tributaries
- Building heights**
- 0 - 20m
 - 20 - 40m
 - 40 - 60m
 - 60 - 80m
 - 80 - 100m
 - >100m



FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

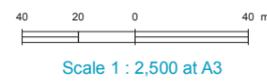
Document Information
Environmental Statement
 Townscape and visual
 Development pattern and scale
 Vol. 19 Figure 11.4.1
 1PL03-TS-40476
 January 2013



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- Key:
- Limits of Land to be Acquired or Used
 - Local Authority boundary
 - Extents of construction phase townscape assessment area



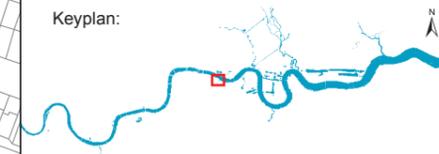
FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Townscape and visual
Aerial photo showing pattern of vegetation
Vol. 19 Figure 11.4.2
1PL03-TS-40477
January 2013



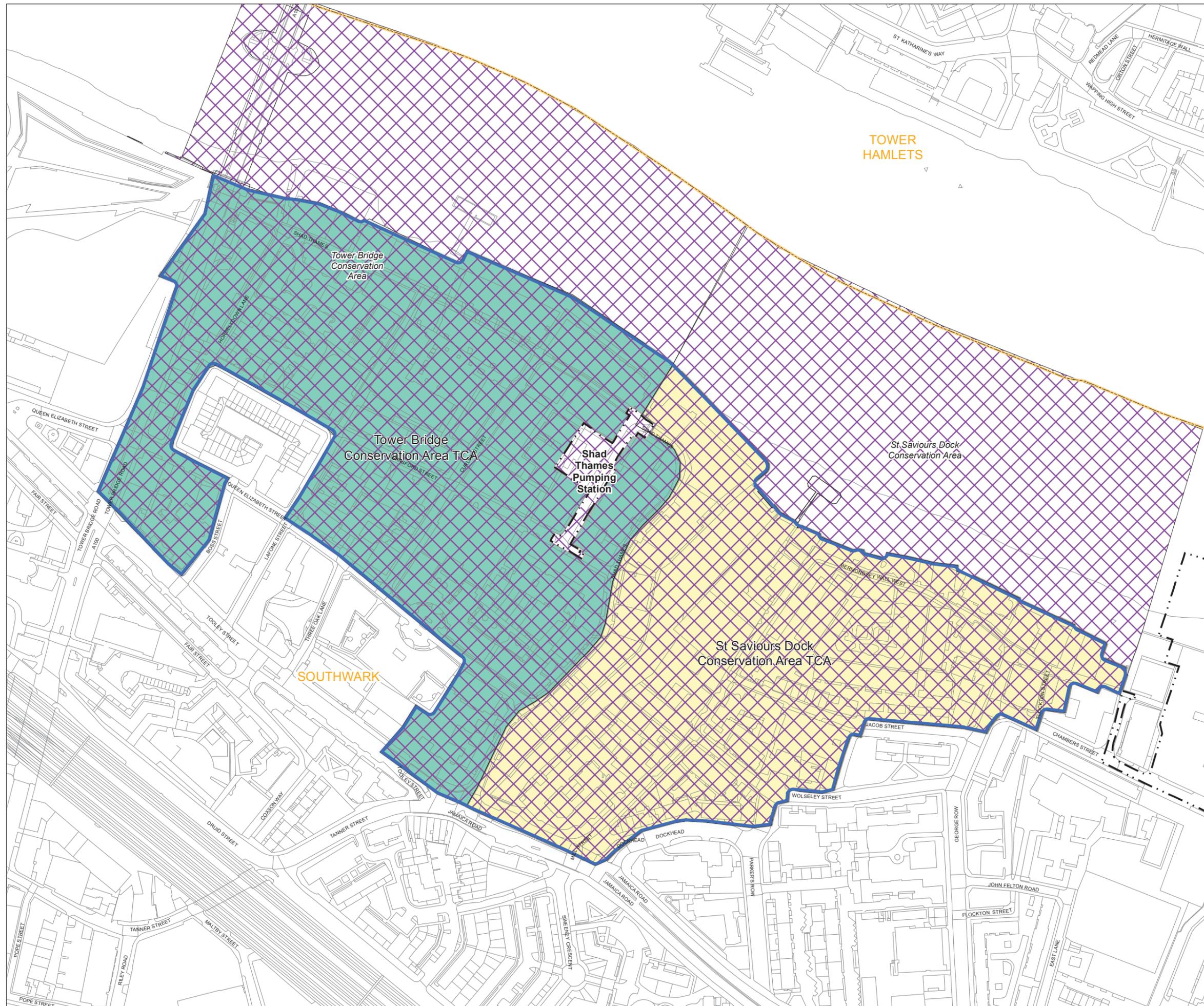
Keyplan:



Key:

- Limits of Land
- to be Acquired or Used
- Local Authority boundary
- Extents of construction phase townscape assessment area
- Conservation areas

The colour fills shown on the plan are used to differentiate between townscape character areas



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Townscape and visual
Townscape character areas
Vol. 19 Figure 11.4.3

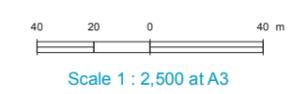
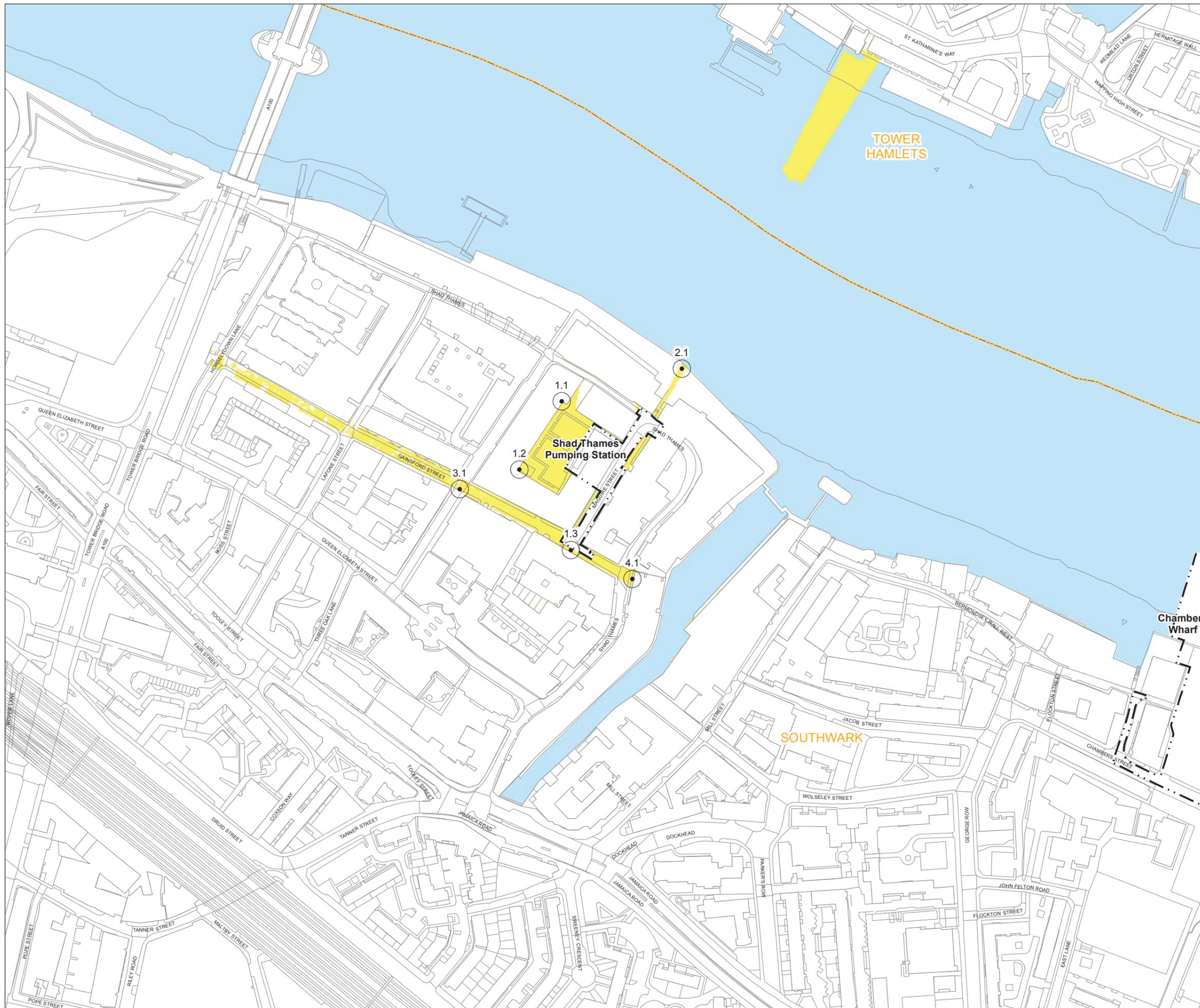
1PL03-TS-40478
January 2013





Key:
The zone of theoretical visibility (ZTV) is a computer generated model which indicates the theoretical visibility of the construction works (including cranes) and operational structures. As described in Volume 2 the ZTV is a starting point for defining the assessment area and for informing the assessment of likely significant effects. Theoretical visibility does not necessarily mean a location would be subject to adverse effects.

- Limits of Land to be Acquired or Used
- Local Authority boundary
- Visual assessment points
- Construction phase ZTV
- River Thames and tidal tributaries



FOR INFORMATION

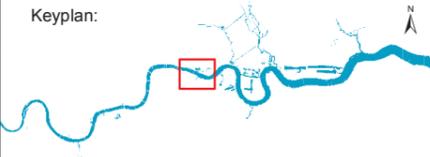
Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement

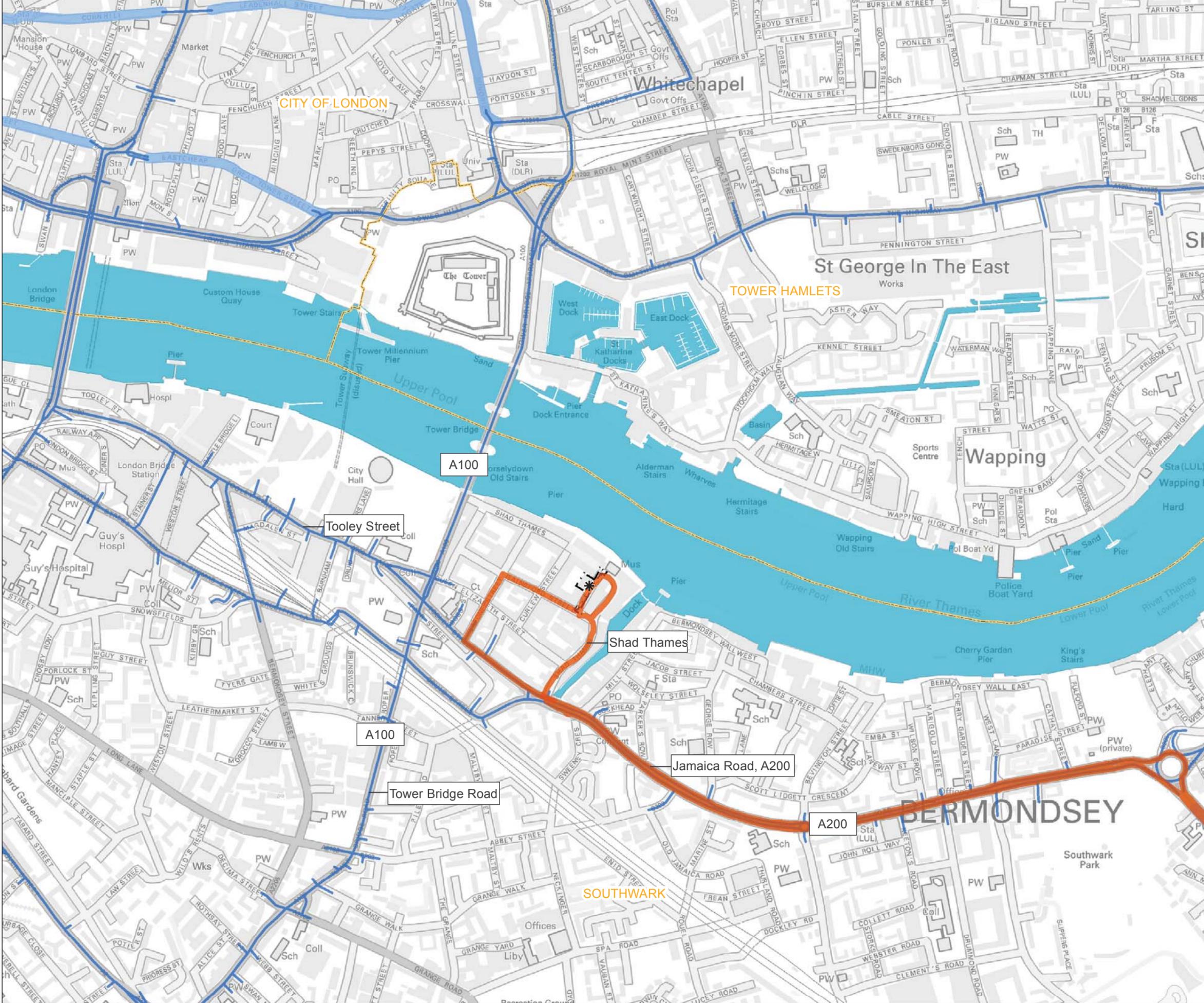
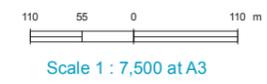
Townscape and visual Viewpoints
Vol. 19 Figure 11.4.4
1PL03-TS-40479
January 2013



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- Key**
- * Site access
 - TFL road network
 - Strategic road network
 - Primary construction route
 - Limits of Land to be Acquired or Used
 - Local authority boundary



FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Transport - construction traffic routes

Vol. 19 Figure 12.2.1
 1PL03-TT-50503
 January 2013



Keyplan:



Key

-  Pumping station
-  TFL road network
-  Strategic road network
-  Limits of Land to be Acquired or Used
-  Local authority boundary



Scale 1 : 7,500 at A3

FOR INFORMATION

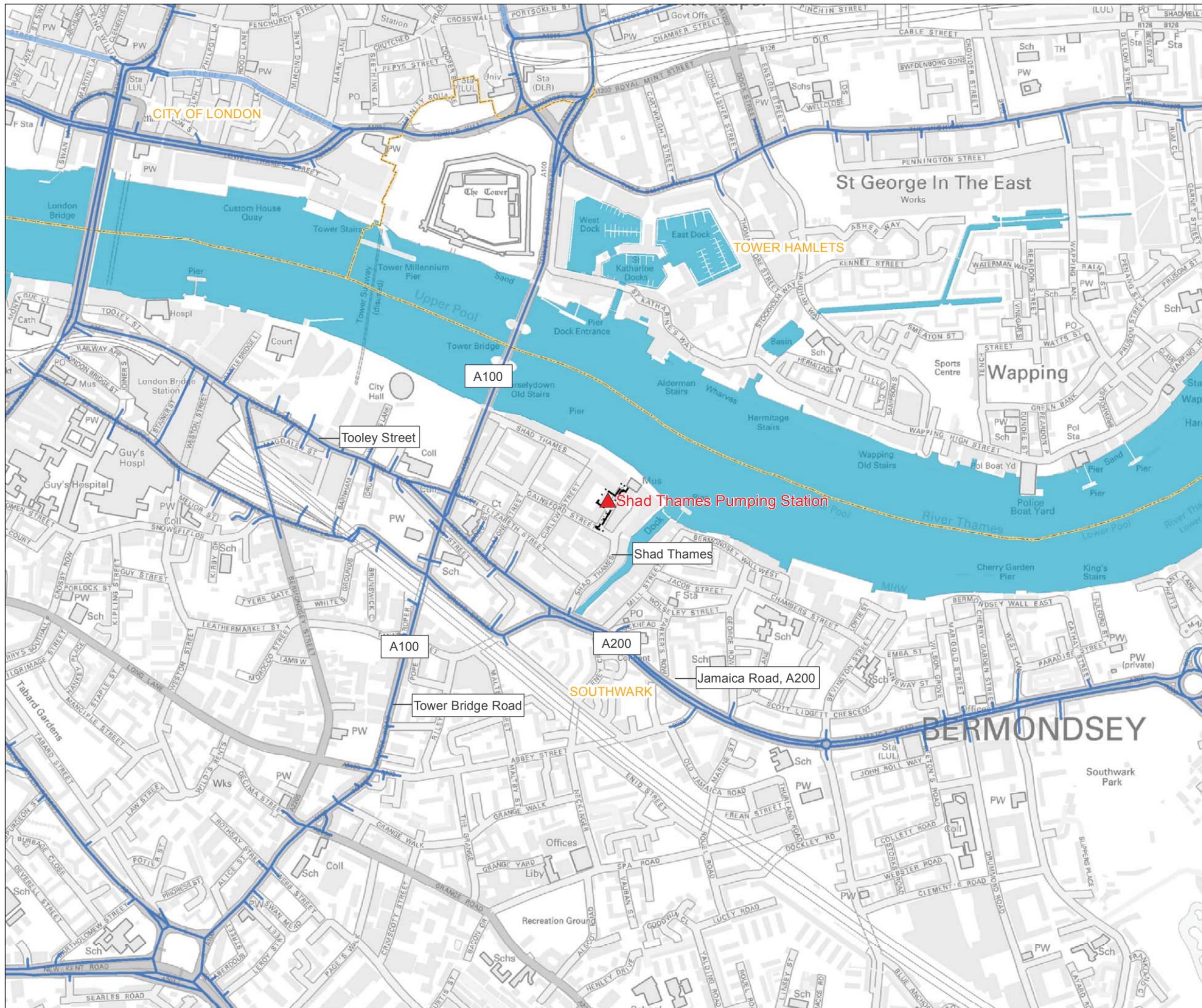
Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement
Transport - site location plan

Vol.19 Figure 12.4.1
1PL03-TT-50511
January 2013





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Keyplan:



Key

- Overground stations with cycle parking
- London bridge cycle park
- National rail Stations with cycle parking
- Underground stations with cycle parking
- Barclays cycle hire docking stations
- Cycle superhighway (open 2015)
- London cycle routes
- Thames path
- London strategic walk network
- National cycle network
- Route Type
- Open Traffic Free
- Open on-road
- Limits of Land to be Acquired or Used
- Local authority boundary



Scale 1 : 7,500 at A3

FOR INFORMATION

[Location](#)

Shad Thames Pumping Station
London Borough of Southwark

[Document Information](#)

Environmental Statement

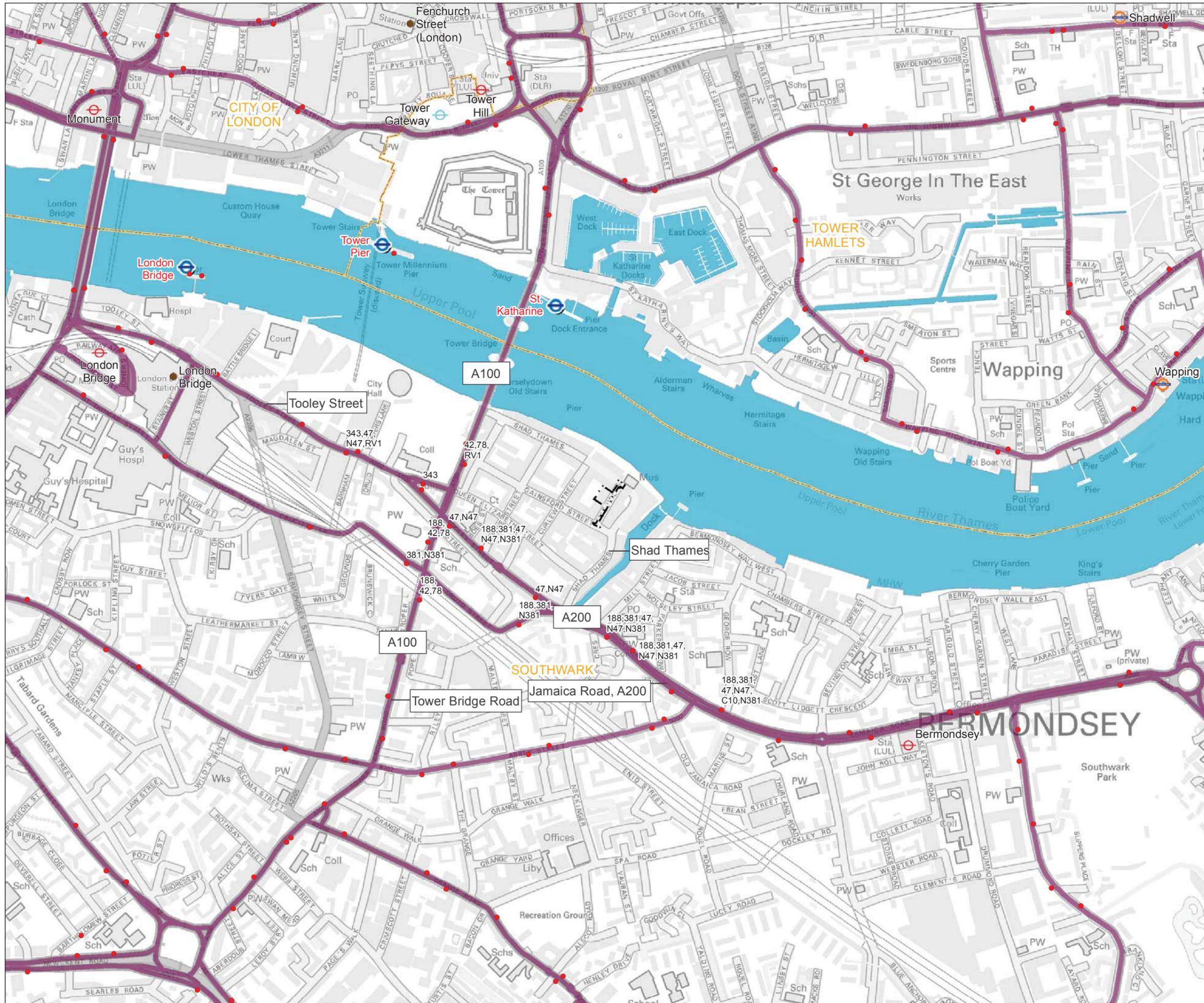
Transport - pedestrian and cycle network

Vol.19 Figure 12.4.2

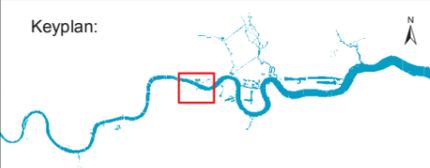
1PL03-TT-50519

January 2013

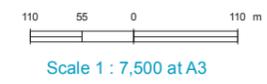




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- Key**
- TFL bus stops
 - ⊖ London underground stations
 - ⊖ London overground stations
 - National rail stations
 - ⊖ Docklands light railway stations
 - ⊖ Pier locations
 - TfL bus routes
 - Limits of Land to be Acquired or Used
 - Local authority boundary



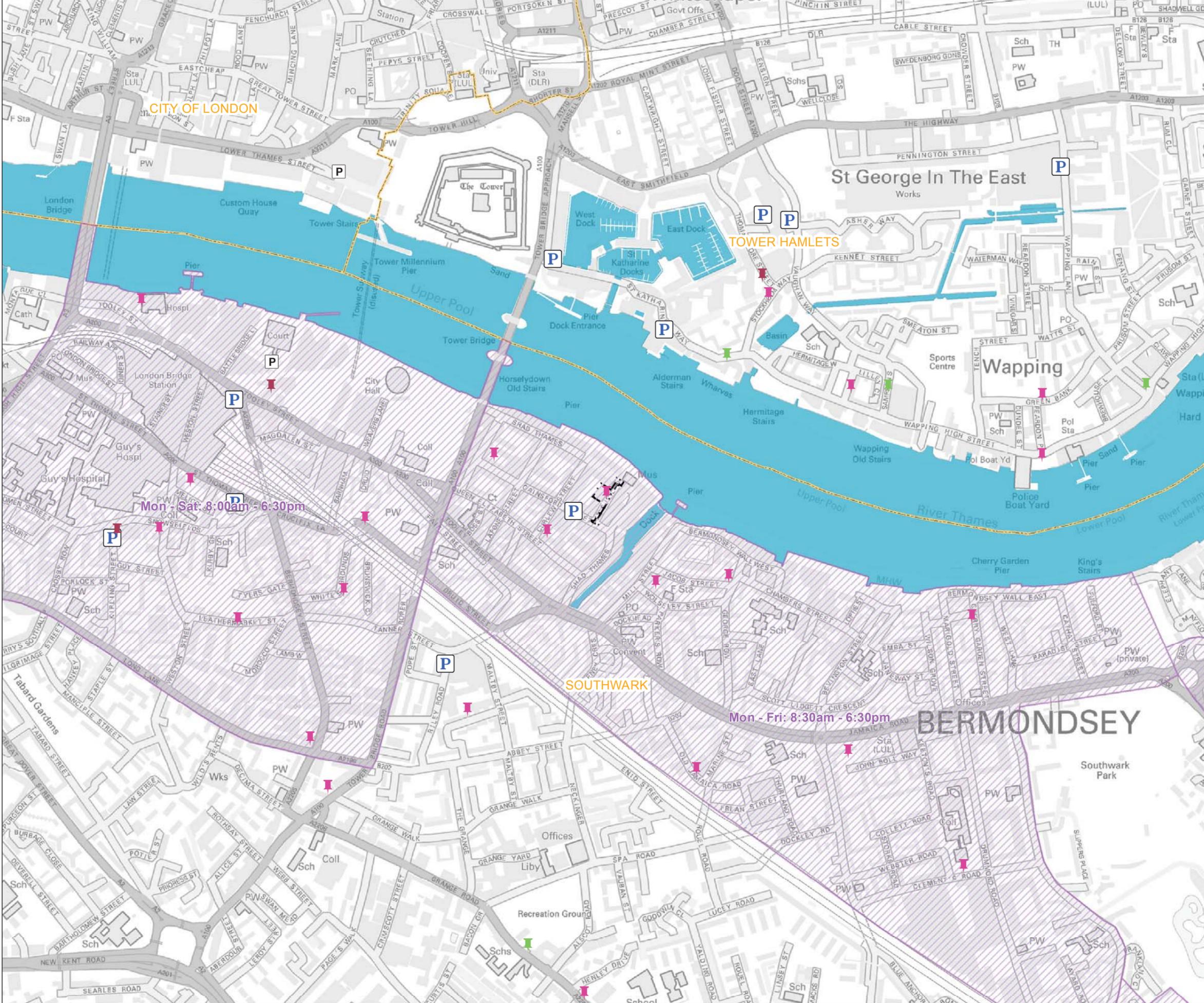
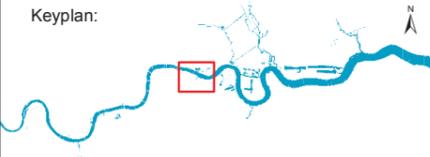
FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Transport - public transport

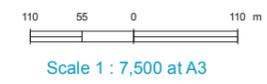
Vol.19 Figure 12.4.3
 1PL03-TT-50527
 January 2013





Key

- Coach parking
- Private car parking
- City Car
- Hertz on Demand
- Zip Car
- Controlled Parking Zones and Hours of Operation
- Limits of Land to be Acquired or Used
- Local authority boundary



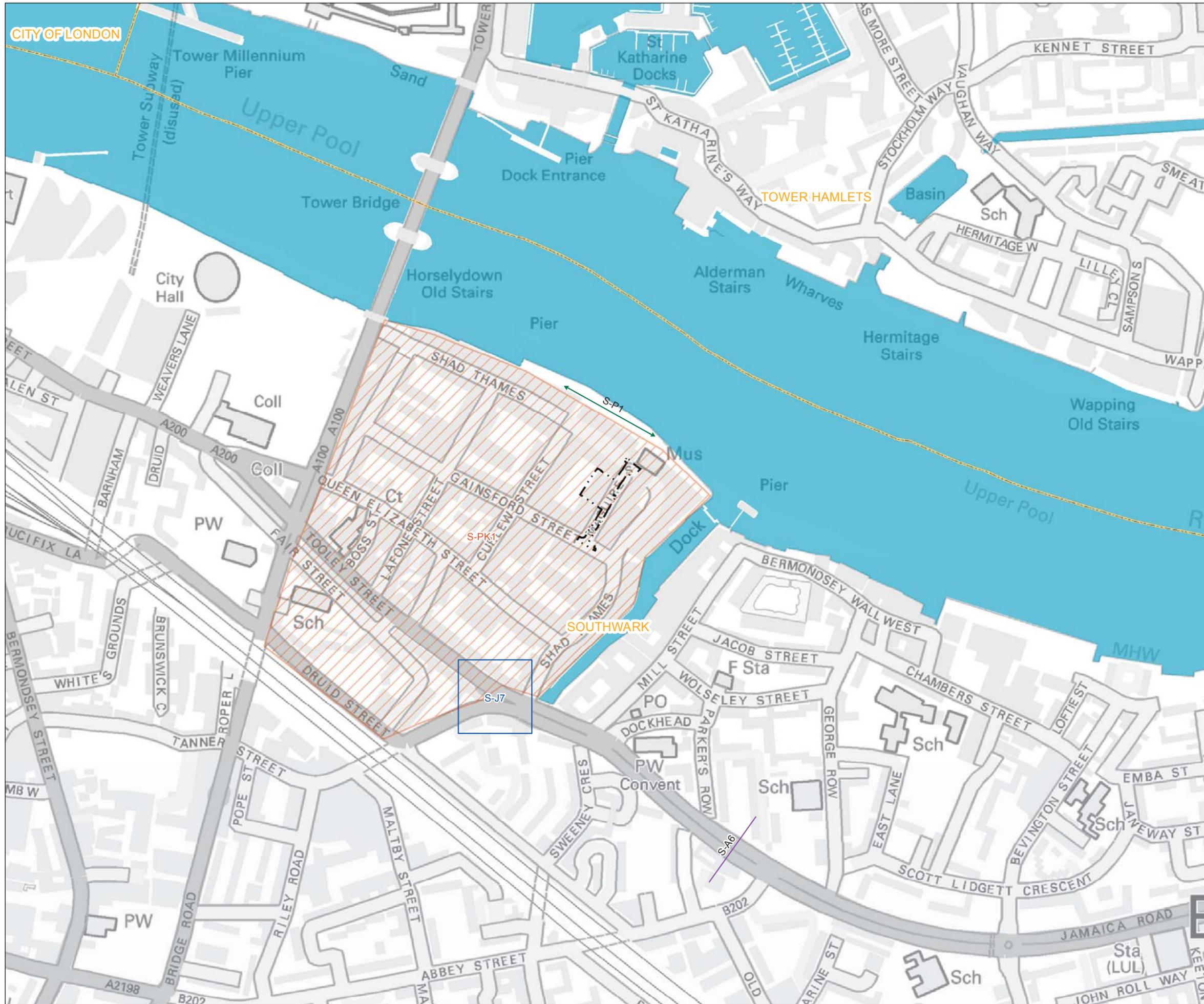
FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Transport - parking

Vol.19 Figure 12.4.4
 1PL03-TT-50535
 January 2013





- Key
- Automatic traffic count surveys
 - Pedestrian and cycle surveys
 - Junction surveys
 - Parking surveys
 - Limits of Land to be Acquired or Used
 - Local authority boundary



FOR INFORMATION

Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Transport - survey locations

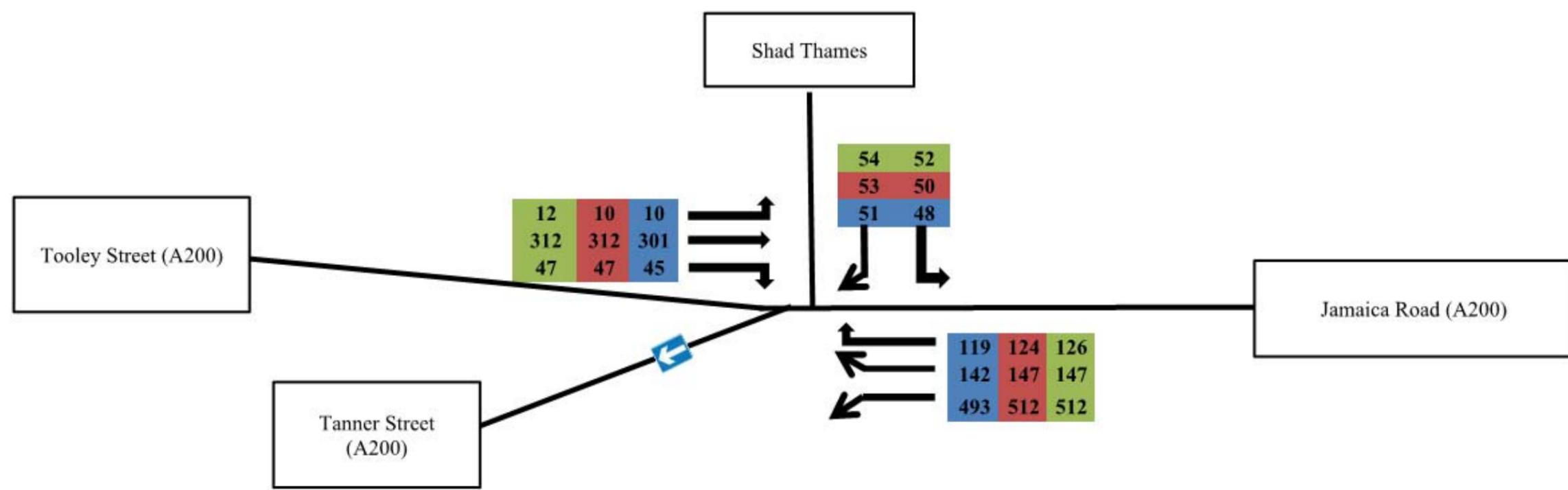
Vol.19 Figure 12.4.5
1PL03-TT-50543
January 2013





Key

- Base Traffic Flow
- Construction Base
- Development Case



FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

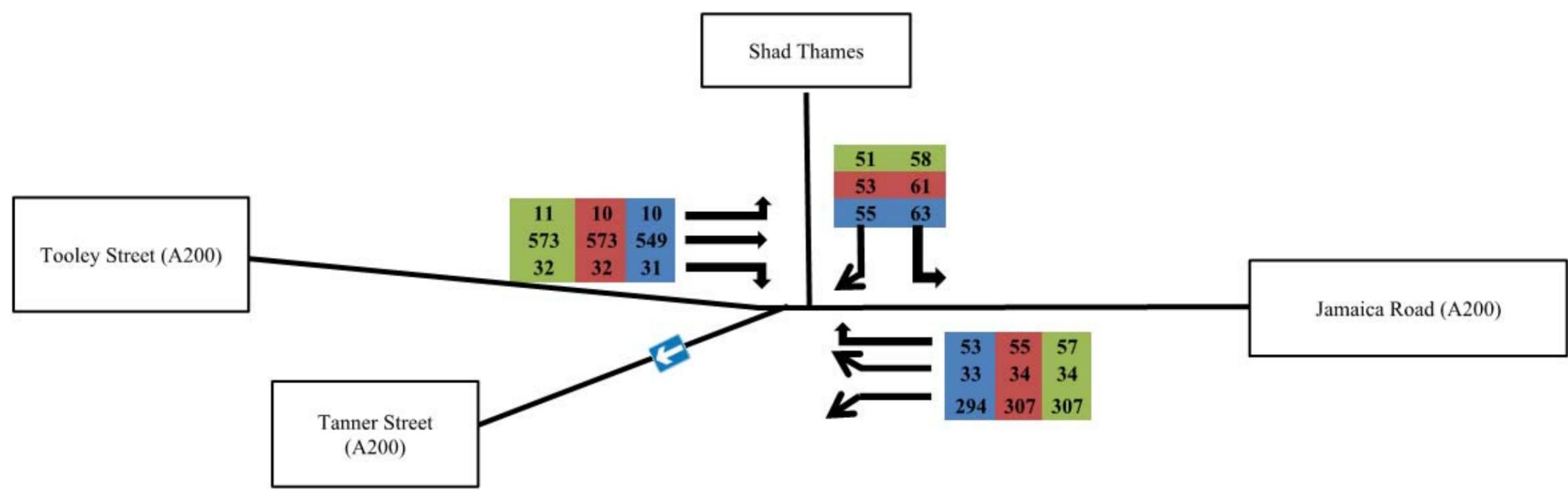
Document Information
Environmental Statement
 Transport - Baseline, Construction and Development case traffic flow (AM peak hour)
 Vol.19 Figure 12.4.6
 1PL03-TT-50874
 January 2013





Key

- Base Traffic Flow
- Construction Base
- Development Case

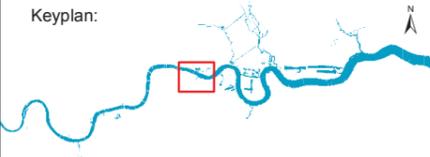


FOR INFORMATION

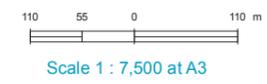
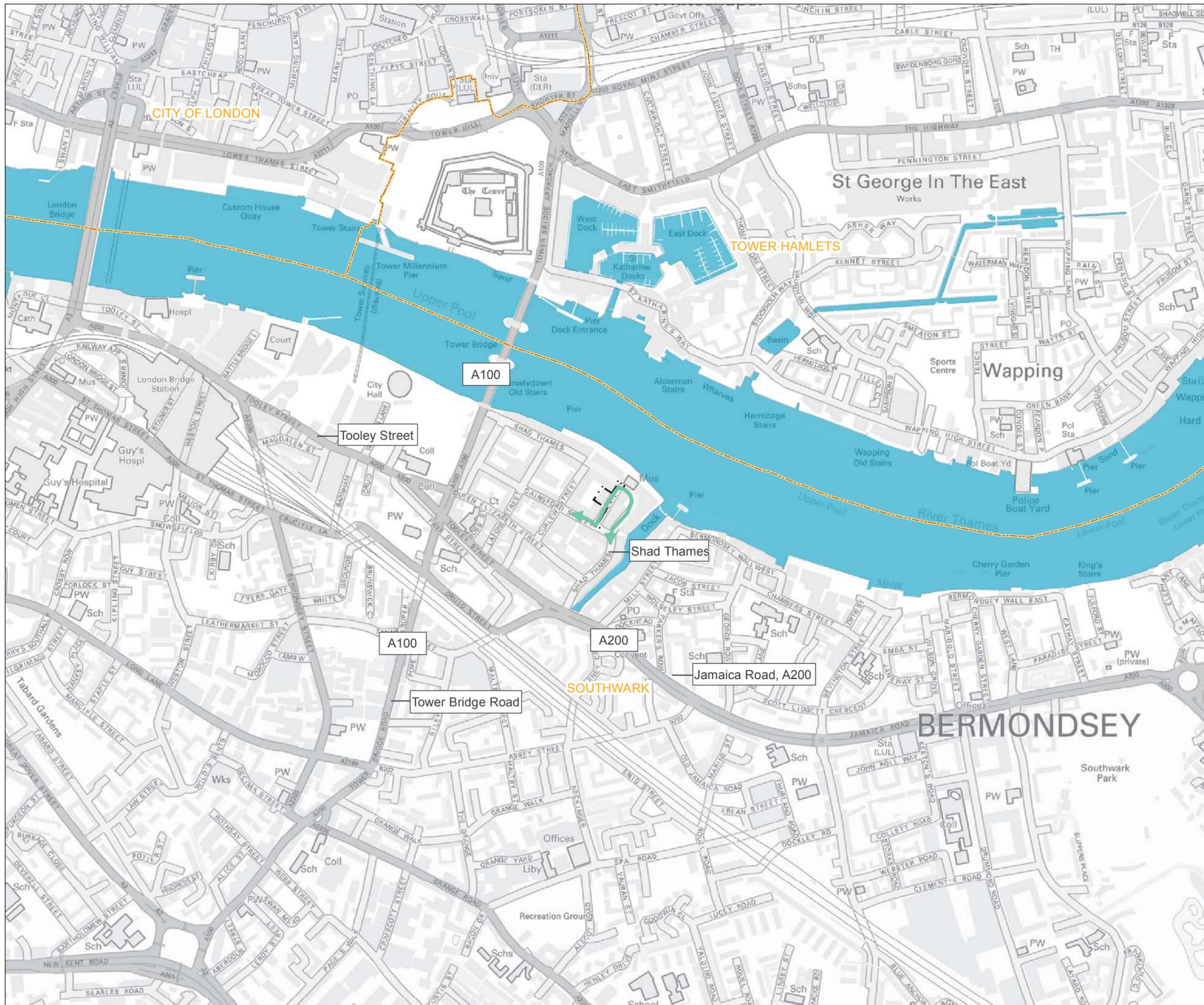
Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Transport - Baseline, Construction and Development case traffic flow (PM peak hour)
 Vol.19 Figure 12.4.7
 1PL03-TT-50898
 January 2013





- Key**
- Proposed cycle diversion
 - Limits of Land to be Acquired or Used
 - Local authority boundary



FOR INFORMATION

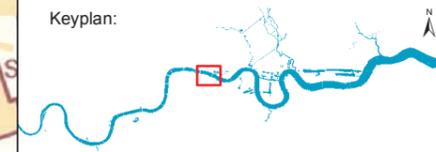
Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Transport - cycle diversion for Shad Thames PS construction phase 3
 Vol.19 Figure 12.5.1
 1PL03-TT-50547
 January 2013



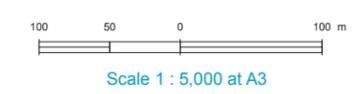
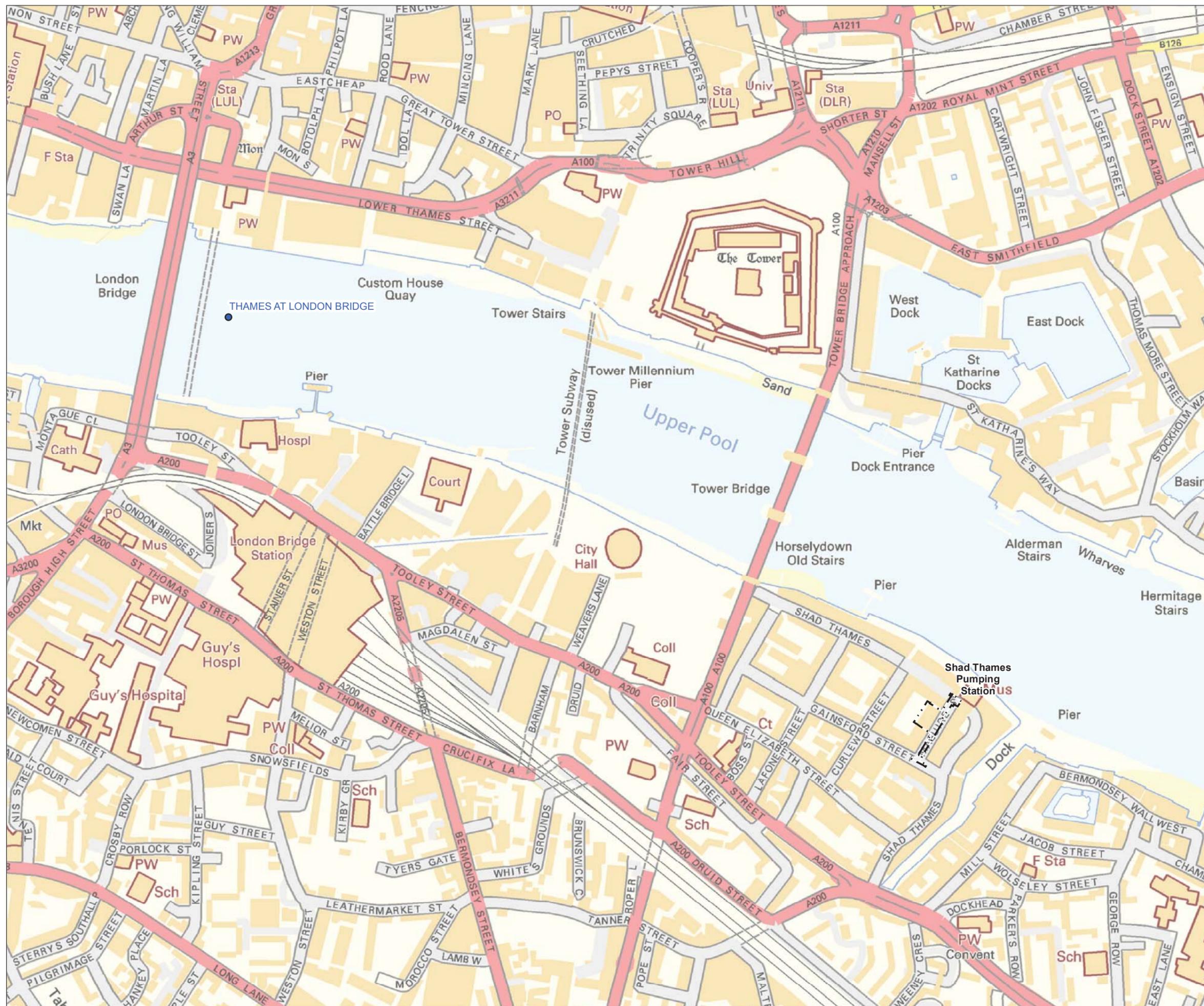
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Keyplan:



Key

- Limits of Land to be Acquired or Used
- Spot Sample Locations



FOR INFORMATION

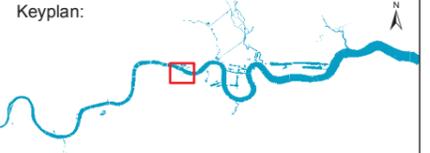
Location
Shad Thames Pumping Station
London Borough of Southwark

Document Information
Environmental Statement
Water resources - surface water - water quality monitoring points
Vol.19 Figure 14.4.1
1PL03-WR-21016
January 2013

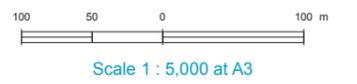
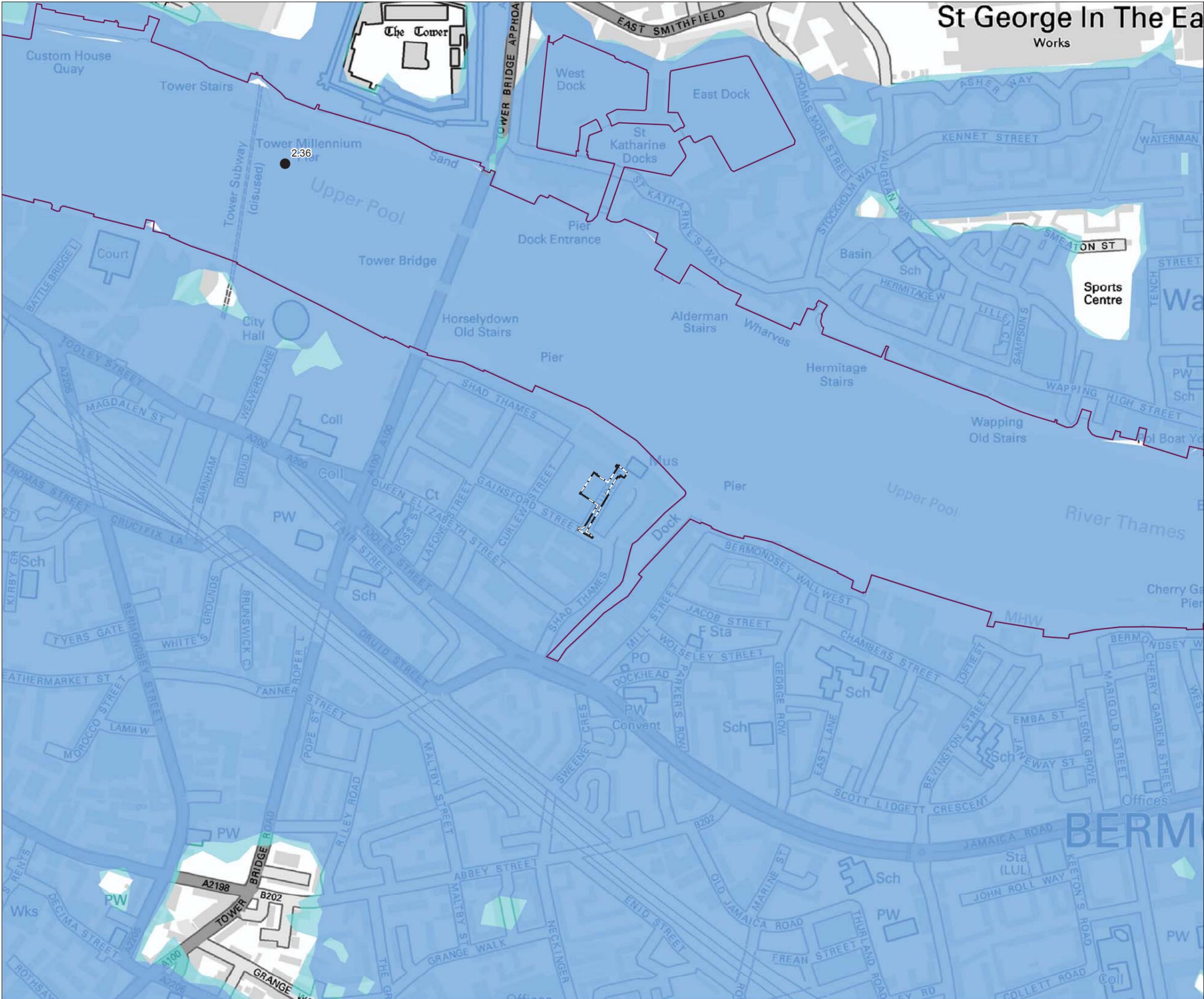


St George In The East Works

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- Key**
- Limits of Land to be Acquired or Used
 - Water Level Node
 - Thames Tidal Defences
 - EA Flood Zone 3
 - EA Flood Zone 2
- Note: Water Level Node - Thames Tidal Joint Probability Extreme Water Levels 2008



FOR INFORMATION

Location
Shad Thames Pumping Station
 London Borough of Southwark

Document Information
Environmental Statement
 Flood risk - EA flood zones

Vol.19 Figure 15.3.1
 1PL03-FL-20143
 January 2013



Keyplan:



Key

- Limits of Land to be Acquired or Used
- Local Authority Boundary
- Noise Survey Locations
- Attended



Scale 1 : 1,600 at A3

FOR INFORMATION

Location

Shad Thames Pumping Station
London Borough of Southwark

Document Information

Environmental Statement

Noise and vibration - noise survey locations

Vol.19 Figure G.1

1P103-NV-40138

January 2013

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