



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: **6.2.12**

Volume 12: Cremorne Wharf Depot figures

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

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

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

This page is intentionally left blank

Thames Tideway Tunnel

Environmental Statement

List of contents

Environmental Statement glossary and abbreviations	
Volume 1	Introduction to the Environmental Statement
Volume 2	Environmental assessment methodology
Volume 3	Project-wide effects assessment
Volume 4	Acton Storm Tanks site assessment
Volume 5	Hammersmith Pumping Station site assessment
Volume 6	Barn Elms site assessment
Volume 7	Putney Embankment Foreshore site assessment
Volume 8	Dormay Street site assessment
Volume 9	King George's Park site assessment
Volume 10	Carnwath Road Riverside site assessment
Volume 11	Falconbrook Pumping Station site assessment
Volume 12	Cremorne Wharf Depot site assessment
Volume 13	Chelsea Embankment Foreshore site assessment
Volume 14	Kirtling Street site assessment
Volume 15	Heathwall Pumping Station site assessment
Volume 16	Albert Embankment Foreshore site assessment
Volume 17	Victoria Embankment Foreshore site assessment
Volume 18	Blackfriars Bridge Foreshore site assessment
Volume 19	Shad Thames Pumping Station site assessment
Volume 20	Chambers Wharf site assessment
Volume 21	King Edward Memorial Park Foreshore site assessment
Volume 22	Earl Pumping Station site assessment
Volume 23	Deptford Church Street site assessment
Volume 24	Greenwich Pumping Station site assessment
Volume 25	Abbey Mills Pumping Station site assessment
Volume 26	Beckton Sewage Treatment Works site assessment
Volume 27	Minor works sites assessment

This page is intentionally blank

Thames Tideway Tunnel

Environmental Statement

Volume 12 Cremorne Wharf Depot site assessment

List of contents

Section 1	Introduction
Section 2	Site context
Section 3	Proposed development
Section 4	Air quality and odour
Section 5	Ecology – aquatic
Section 6	Ecology – terrestrial
Section 7	Historic environment
Section 8	Land quality
Section 9	Noise and vibration
Section 10	Socio-economics
Section 11	Townscape and visual
Section 12	Transport
Section 13	Water resources – groundwater
Section 14	Water resources – surface water
Section 15	Water resources – flood risk

Volume 12 Cremorne Wharf Depot figures

Section 1	Plans from the Book of Plans
Section 2	Environmental impact assessment figures

Volume 12 Cremorne Wharf Depot appendices

Appendix A	Introduction
Appendix B	Air quality and odour
Appendix C	Ecology - aquatic
Appendix D	Ecology – terrestrial
Appendix E	Historic environment
Appendix F	Land quality
Appendix G	Noise and vibration
Appendix H	Socio-economics
Appendix I	Townscape and visual

Appendix J	Transport
Appendix K	Water resources – groundwater
Appendix L	Water resources – surface water
Appendix M	Water resources – flood risk
Appendix N	Development schedule

Thames Tideway Tunnel

Environmental Statement

Volume 12 Cremorne Wharf Depot figures

List of contents

Section 1: Plans from the Book of Plans	
Site works parameter plan	
Demolition and site clearance plan	
Access plan	
Proposed site features plan	
Listed structure interface - Lots Road Pumping Station	
Construction phase 1	
Construction phase 2	
Transport - existing highway layout	
Transport - highway layout during construction	
Transport - permanent highway layout	
Section 2: Environmental impact assessment figures	
Site location plan	Vol 12 Figure 2.1.1
Land use	Vol 12 Figure 2.1.2
Environmental setting	Vol 12 Figure 2.1.3
Base case and cumulative development projects	Vol 12 Figure 3.5.1
Air quality and odour - air quality monitoring sites	Vol 12 Figure 4.4.1
Air quality and odour - H2S monitoring locations	Vol 12 Figure 4.4.2
Air quality and odour - modelled air quality receptors	Vol 12 Figure 4.4.3
Air quality and odour - annual mean NO2 for 2010 baseline	Vol 12 Figure 4.5.1
Air quality and odour - annual mean NO2 for peak construction year base case	Vol 12 Figure 4.5.2
Air quality and odour - annual mean NO2 for peak construction year development case	Vol 12 Figure 4.5.3
Air quality and odour - annual mean NO2 Impact for peak construction year	Vol 12 Figure 4.5.4
Air quality and odour - annual mean PM10 for 2010 baseline	Vol 12 Figure 4.5.5
Air quality and odour - annual mean PM10 for peak construction year base case	Vol 12 Figure 4.5.6
Air quality and odour - annual mean PM10 for peak construction year development case	Vol 12 Figure 4.5.7
Air quality and odour - annual mean PM10 Impact for peak construction year	Vol 12 Figure 4.5.8
Aquatic ecology - habitats and sampling locations	Vol 12 Figure 5.4.1
Terrestrial ecology - designated sites	Vol 12 Figure 6.4.1
Terrestrial ecology - Phase 1 Habitat Survey	Vol 12 Figure 6.4.2
Terrestrial ecology - bat triggering (remote recording) and bat activity survey	Vol 12 Figure 6.4.3
Terrestrial ecology - wintering birds survey	Vol 12 Figure 6.4.4

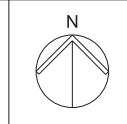
Terrestrial ecology - black redstart survey	Vol 12 Figure 6.4.5
Terrestrial ecology - invertebrate survey	Vol 12 Figure 6.4.6
Terrestrial ecology - botanical survey	Vol 12 Figure 6.4.7
Terrestrial ecology - invasive plant survey	Vol 12 Figure 6.4.8
Historic environment - historic environment features map	Vol 12 Figure 7.4.1
Historic environment - historic character and setting of heritage assets	Vol 12 Figure 7.4.2
Noise and vibration - receptor locations	Vol 12 Figure 9.4.1
Socio-economics - context plan	Vol 12 Figure 10.4.1
Townscape and visual - Conservation areas	Vol 12 Figure 11.4.1
Townscape and visual - Development pattern and scale	Vol 12 Figure 11.4.2
Townscape and visual - Aerial photo showing pattern of vegetation	Vol 12 Figure 11.4.3
Townscape and visual - Open spaces	Vol 12 Figure 11.4.4
Townscape and visual - Transport routes	Vol 12 Figure 11.4.5
Townscape and visual - Townscape character areas	Vol 12 Figure 11.4.6
Townscape and visual – Viewpoints	Vol 12 Figure 11.4.7
Construction Traffic Routes	Vol 12 Figure 12.2.1
Site Location Plan	Vol 12 Figure 12.4.1
Pedestrian and Cycle Network	Vol 12 Figure 12.4.2
Public Transport	Vol 12 Figure 12.4.3
Parking	Vol 12 Figure 12.4.4
Survey Locations	Vol 12 Figure 12.4.5
Baseline, Construction and Development case traffic flow (AM peak hour)	Vol 12 Figure 12.4.6
Baseline, Construction and Development case traffic flow (PM peak hour)	Vol 12 Figure 12.4.7
Water resources - groundwater - superficial geology	Vol 12 Figure 13.4.1
Water resources - groundwater - solid geology	Vol 12 Figure 13.4.2
Water resources - groundwater - monitoring locations	Vol 12 Figure 13.4.3
Water resources - surface water - water quality monitoring points	Vol 12 Figure 14.4.1
Flood risk – EA flood zones	Vol 12 Figure 15.3.1
Land quality - potentially contaminating land-uses	Vol 12 Figure F.1.1
Land quality - borehole locations	Vol 12 Figure F.1.2
Land quality - hazard and waste sites	Vol 12 Figure F.1.3
Noise and vibration - noise survey locations	Vol 12 Figure G.1.

1 Plans from the Book of Plans

This page is intentionally blank

Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Ventilation column(s) serving the shaft	8.0m (4.0m)
Reinstated depot building	13.85m to apex of roof



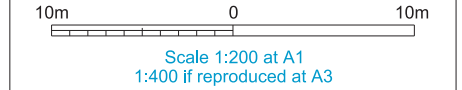
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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 the shaft would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)
 - Limits of permanent access
 - Reinstated depot building

- Notes:**
1. All dimensions and levels are approximate.
 2. The Site Works Parameter Key Plan identifies each zone independently.
 3. The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.

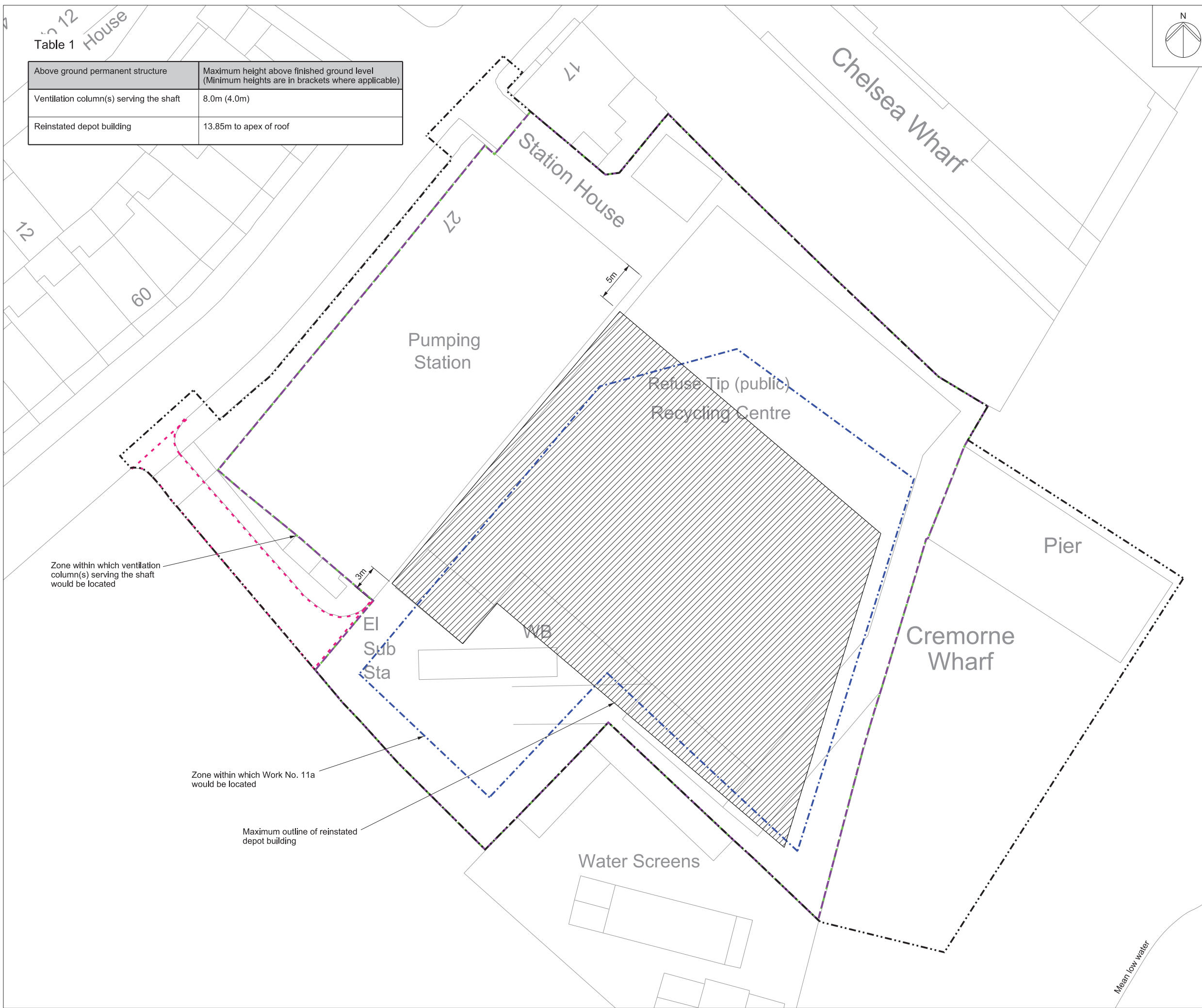


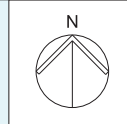
FOR APPROVAL

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Site works parameter plan

Book of plans - section 13
 DCO-PP-11X-CREWD-130005
 January 2013





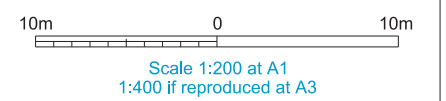
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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)
 - Trees to be removed
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled
 - Structure to be removed and relocated or reinstated

- Notes:**
1. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 2. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



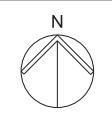
FOR APPROVAL

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Demolition and site clearance

Book of plans - section 13
 DCO-PP-11X-CREWD-130004
 January 2013





Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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
 - Route of temporary diversion of right of way
 - Existing right of way temporarily stopped up
 - Area of highway to be temporarily stopped up
 - ▨ Area of temporary suspension of public rights of navigation
 - Ap Access to permanent works
 - Ac Access to construction works

- Notes:**
- This plan does not show stopping up and diversions of limited duration (eg hoarding erection, minor utility diversions and minor highway works).
 - 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.



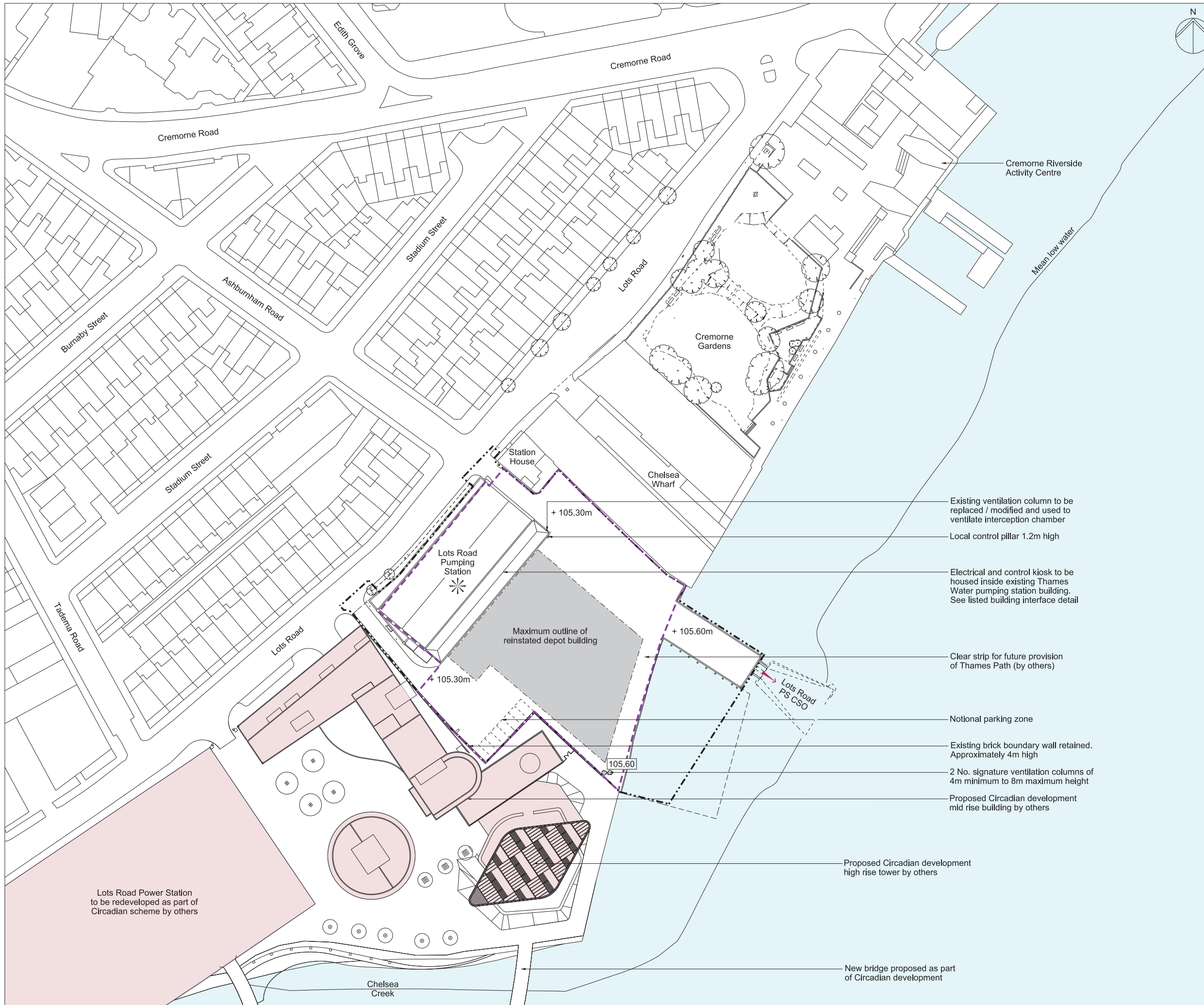
FOR APPROVAL

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Access plan

Book of plans - section 13
 DCO-PP-11X-CREWD-130003
 January 2013





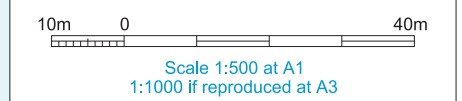
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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)
 - 105.40 Proposed levels (shown in metres above tunnel datum)
 - Consented development footprint (by others)
 - Listed buildings/structures
 - Approximate position of CSO outlet
 - Existing trees within surveyed area (trunk sizes vary)

- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
 3. The above ground structures in the "Save for the scale of above ground structures which is indicative" statement are those listed in table 1 on the Site works parameter plan.
 4. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.



ILLUSTRATIVE
Save for the scale of above ground structures which is indicative

Location
Cremorne Wharf Depot
Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
Proposed
Site features plan
Book of plans - section 13
DCO-PP-11X-CREWD-130008
January 2013

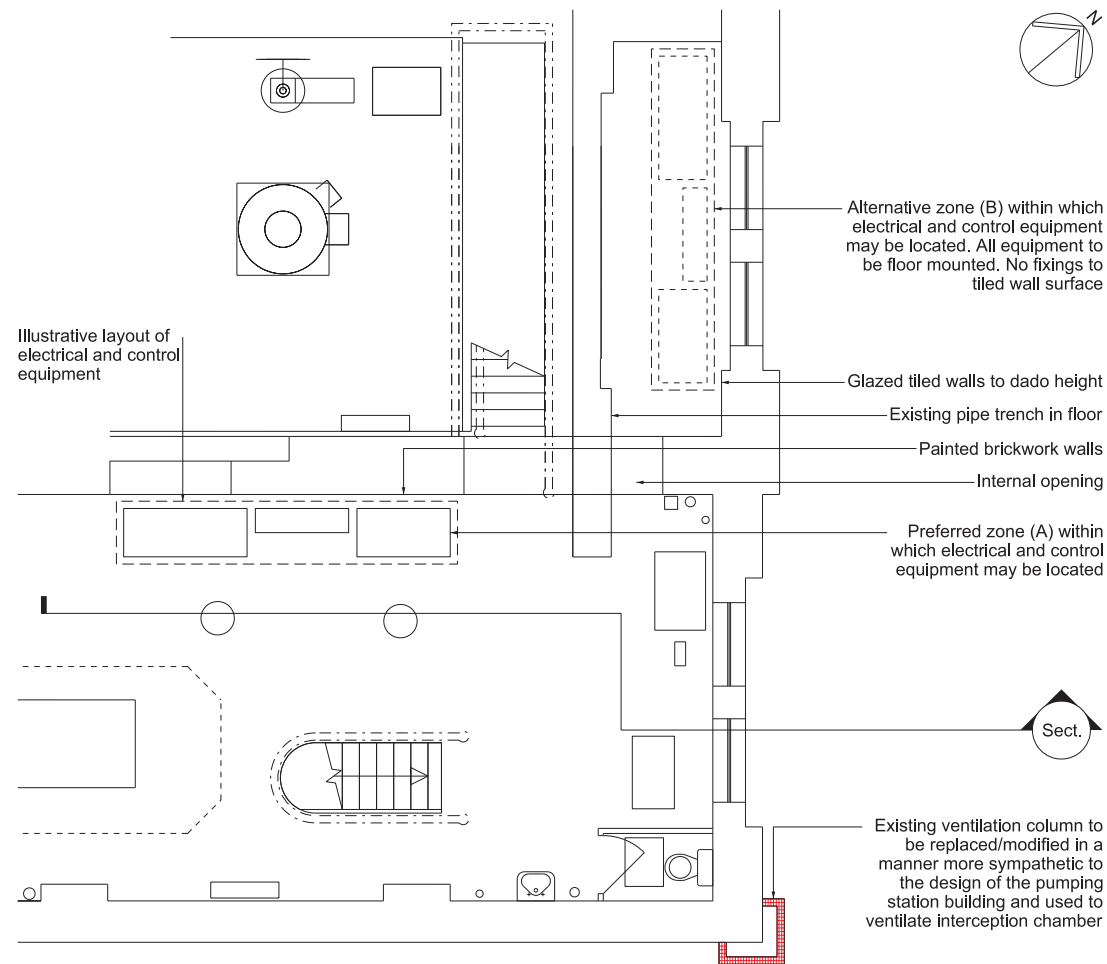




Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

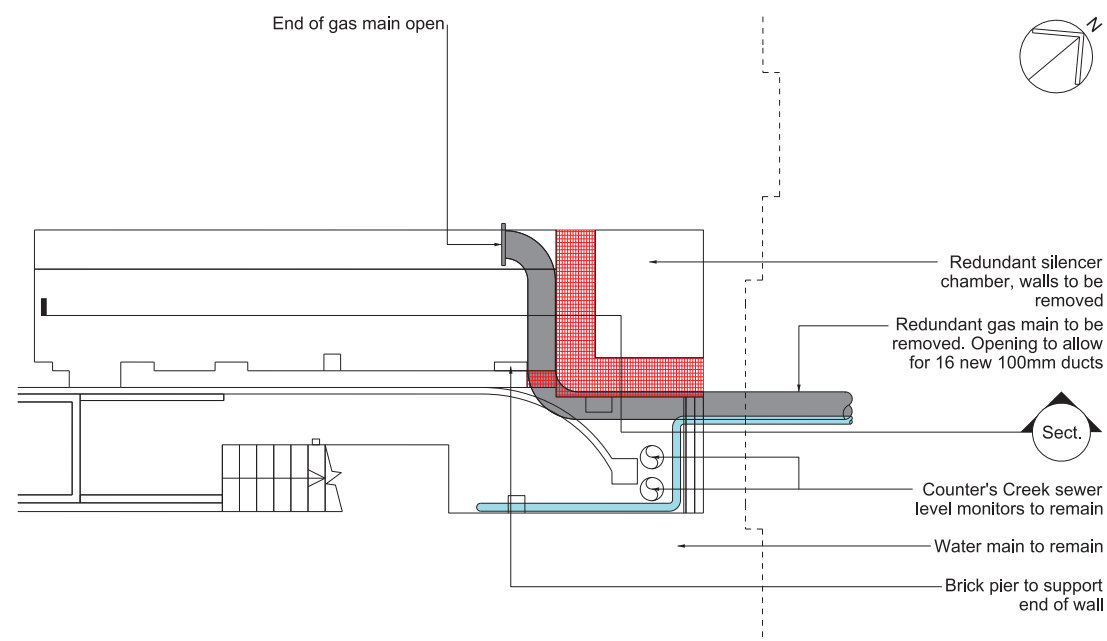
Key:
 Maximum permanent extent of loss of listed buildings / structures

Notes:
 1. All dimensions and levels are approximate.
 2. Drawing is based on as-constructed drawings and topographical survey and not on heritage survey.



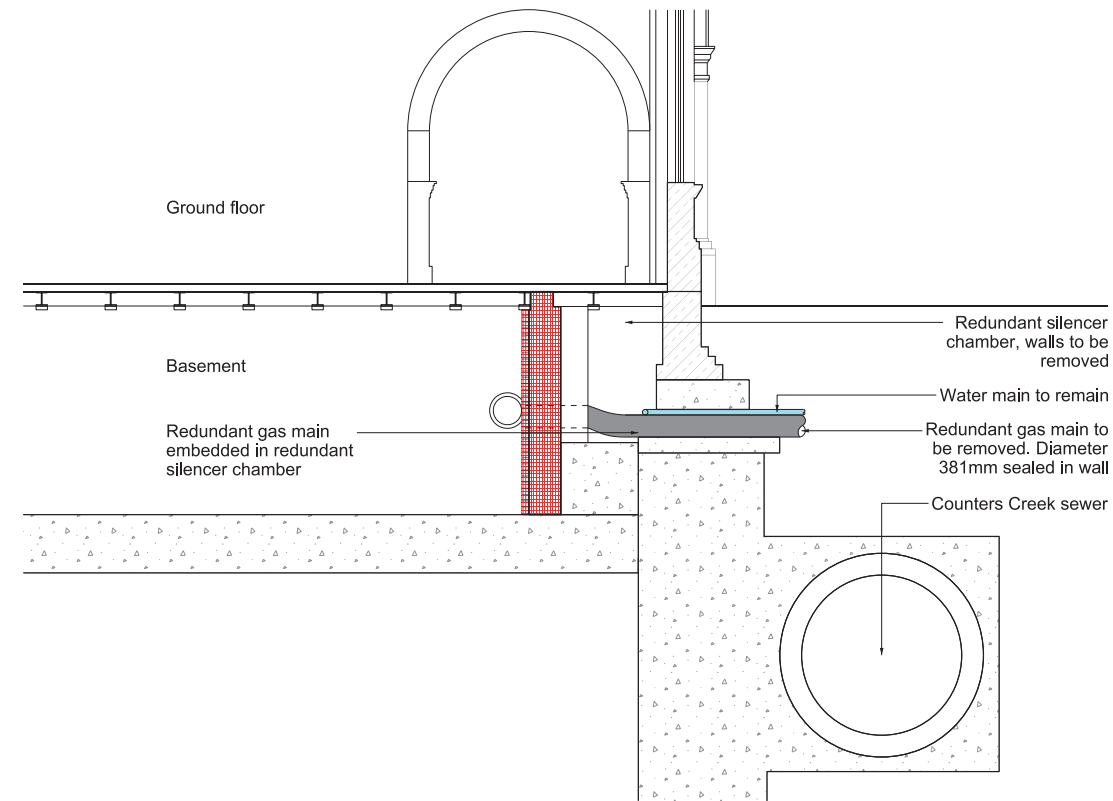
Intervention into pumping station (ground floor plan)

Scale 1:50



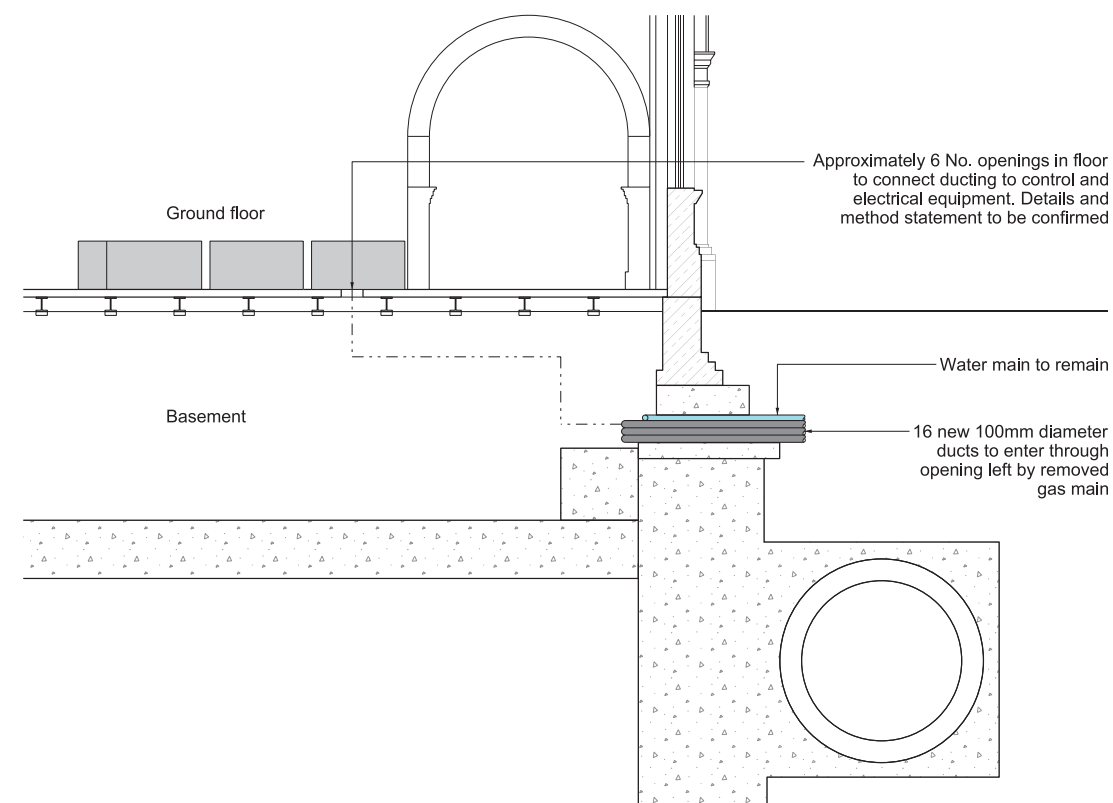
Intervention into pumping station (basement plan)

Scale 1:50



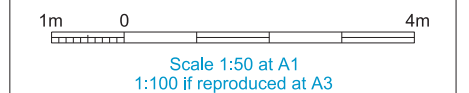
As existing detail section

Scale 1:50



Proposed detail section

Scale 1:50

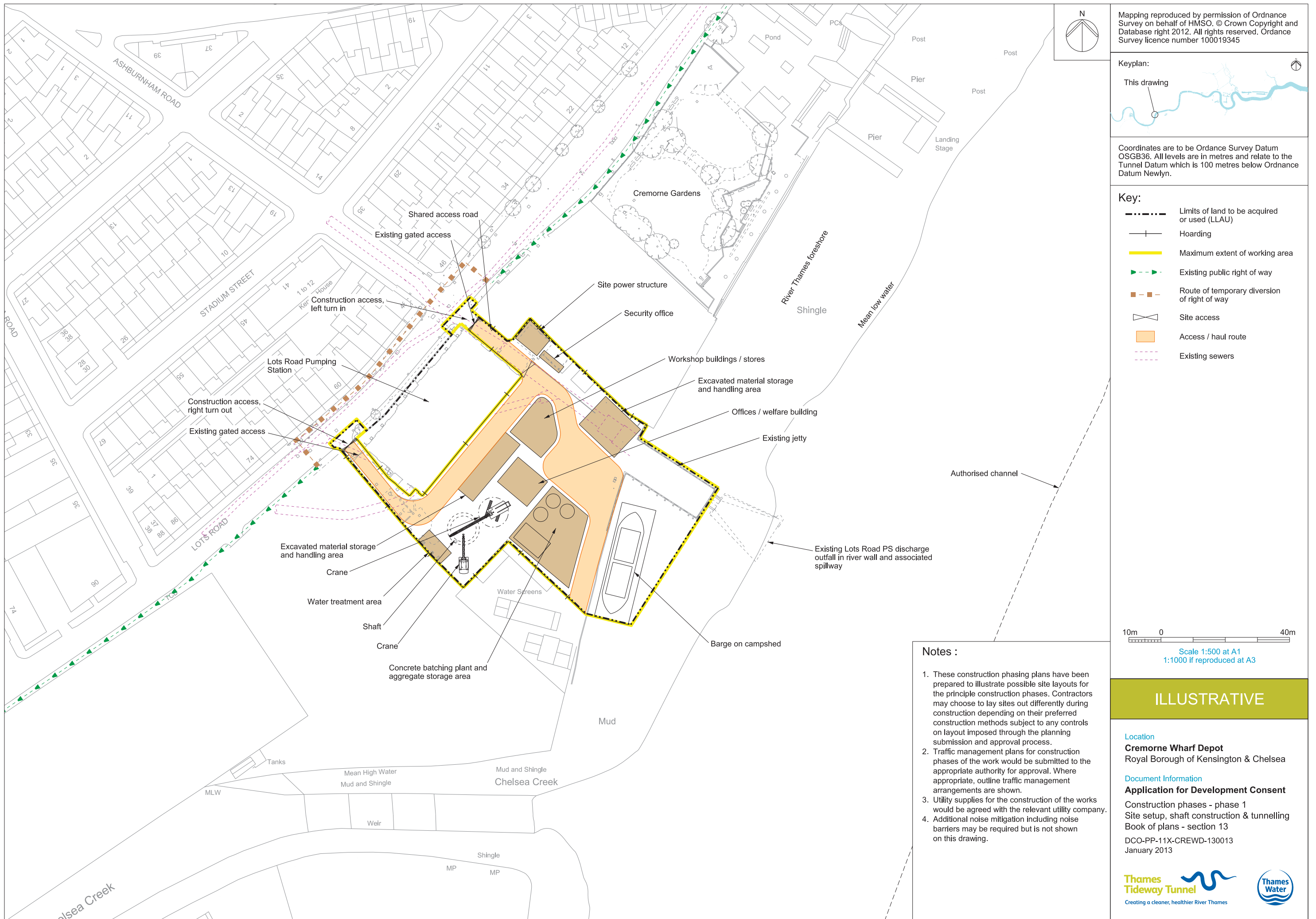


FOR APPROVAL

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Listed structure interface -
 Lots road pumping station
 Book of plans - section 13
 DCO-PP-11X-CREWD-130012
 January 2013



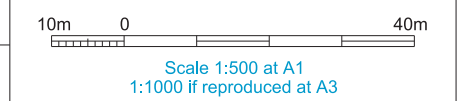


Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Existing sewers



Notes :

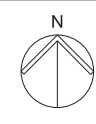
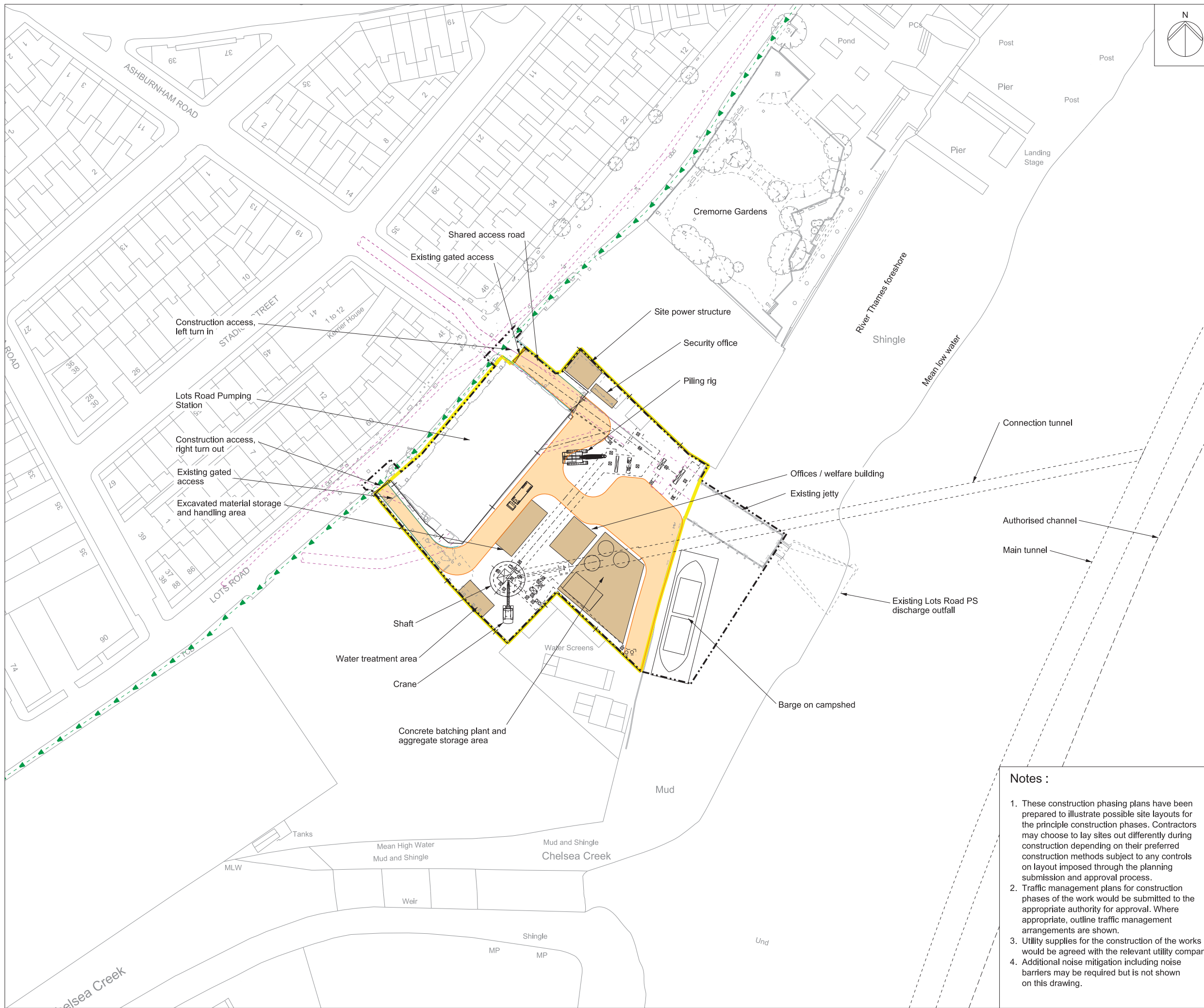
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through 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.

ILLUSTRATIVE

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Construction phases - phase 1
 Site setup, shaft construction & tunnelling
 Book of plans - section 13
 DCO-PP-11X-CREWD-130013
 January 2013



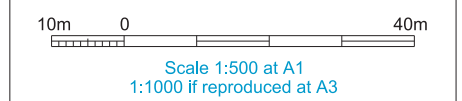


Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Existing sewers



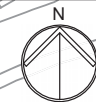
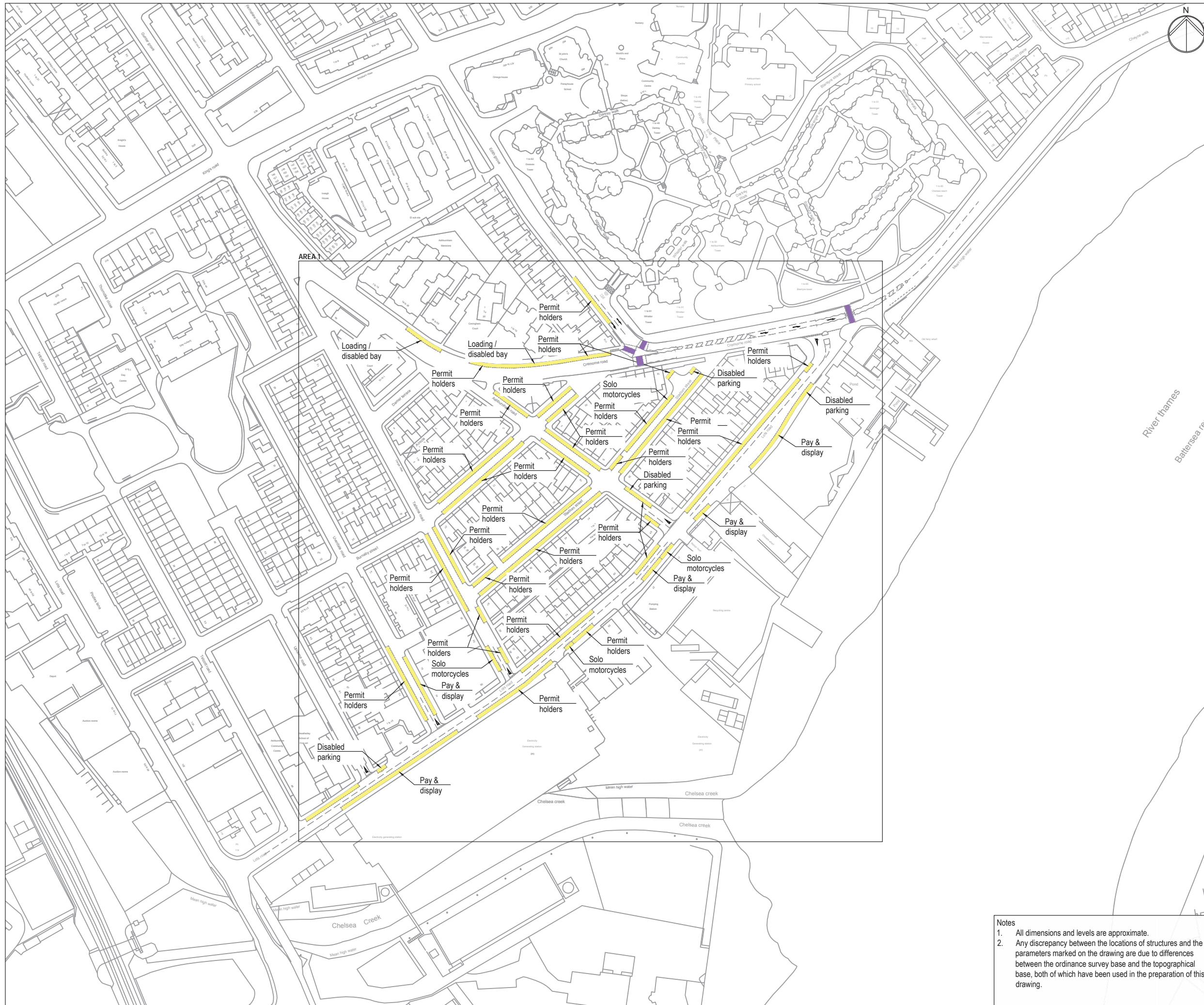
ILLUSTRATIVE

- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principle 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.

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Application for Development Consent
 Construction phases - phase 2
 Construction of other structures
 Book of plans - section 13
 DCO-PP-11X-CREWD-130014
 January 2013





Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

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

- On street parking
- Pedestrian crossing

On street parking

Loading / disabled bay
loading / disabled bay no stopping
mon - sat 8:00am - 7:00pm
except loading max 20mins
badge holders max stay 2 hours

Permit holders
resident permit holders only
mon - fri 8:30am - 10:00pm
sat 8:30am - 6:30pm

Pay & display
pay & display parking maximum 4 hours
mon - sat 8:30am - 6:30pm

Solo motorcycles
solo motorcycles only
Disabled parking disabled parking only

Disabled parking
blue badge holders only

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
1:2000 if reproduced at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
RB Kensington and Chelsea

Document Information

Application for Development Consent
Existing highway layout

DCO-PP-11X-CREWD-130017
January 2013



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.



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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
 - Pedestrian crossing
 - Revised
 - L.L.A.U.
 - Removal of footway
 - Temporary restriction to on street parking
 - Illustrative on-site manoeuvring zone
 - CREWD_C01 See schedule of works
 - Hoarding line
 - Site access

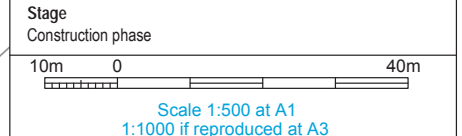
On street parking

Permit holder
 permit holders only mon - fri 8:30am - 6:30pm

Solo motorcycle
 solo motorcycles only at all times

Car club permit holders
 car club permit holders at all times

- 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
 Cremorne Wharf Depot
 RB Kensington and Chelsea

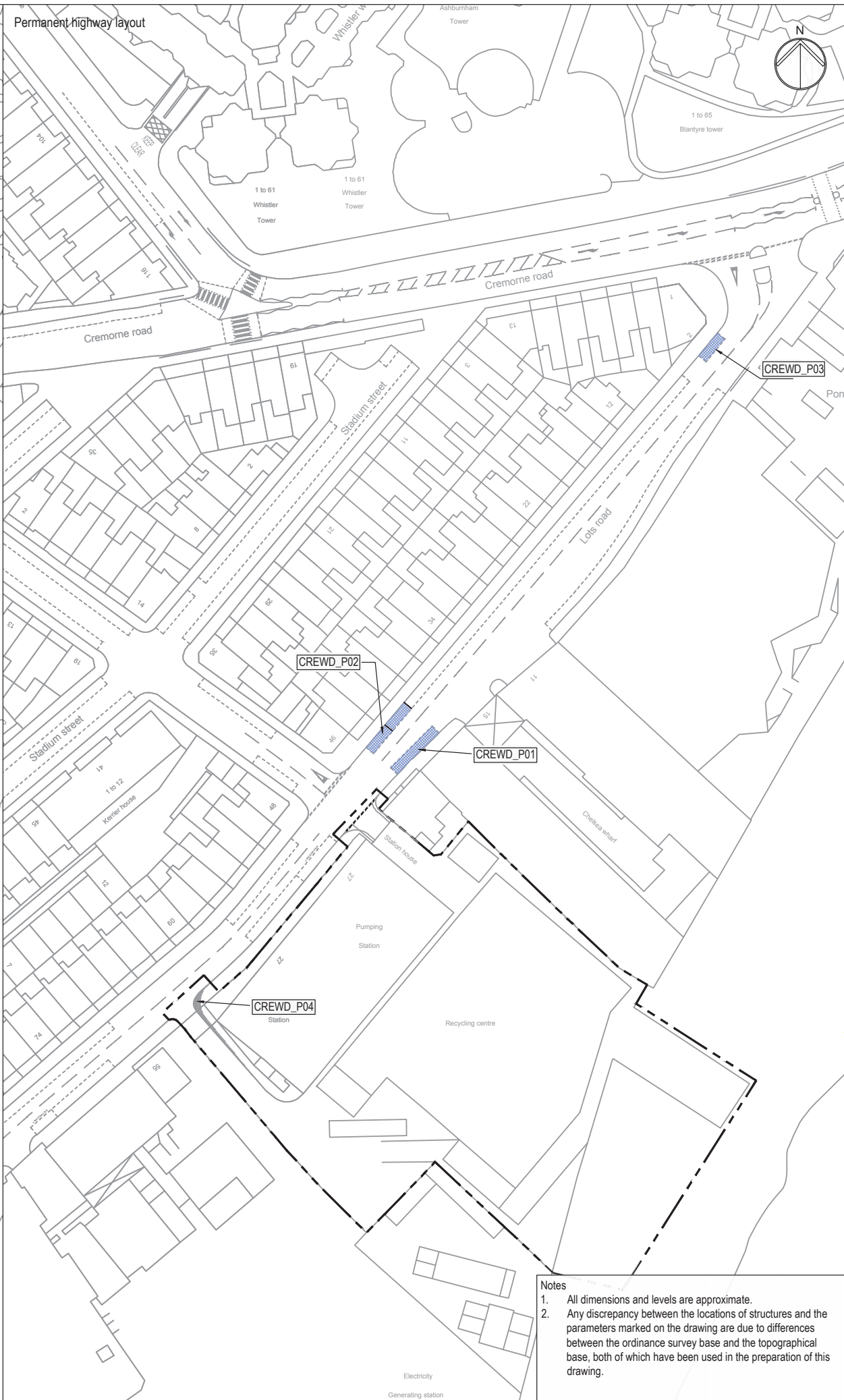
Document Information
 Application for Development Consent
 Highway layout during construction

DCO-PP-11X-CREWD-130018
 January 2013



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.



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

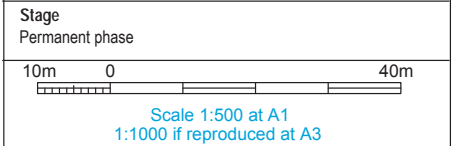


Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing
 - On street parking
 - Pedestrian crossing
 - Revised
 - L.L.A.U.
 - Reinstated on street parking
 - See schedule of works
 - Reinstatement of footway

On street parking
 Permit holder
 permit holders only mon - fri 8:30am - 6:30pm
 Solo motorcycle
 solo motorcycles only at all times
 Car club permit holders
 car club permit holders at all times

- 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
 Cremorne Wharf Depot
 RB Kensington and Chelsea

Document Information
 Application for Development Consent
 Permanent highway layout

DCO-PP-11X-CREWD-130019
 January 2013



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.

Electricity Generating station

Electricity Generating station

This page is intentionally left blank

2 Environmental impact assessment figures

This page is intentionally blank

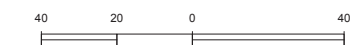
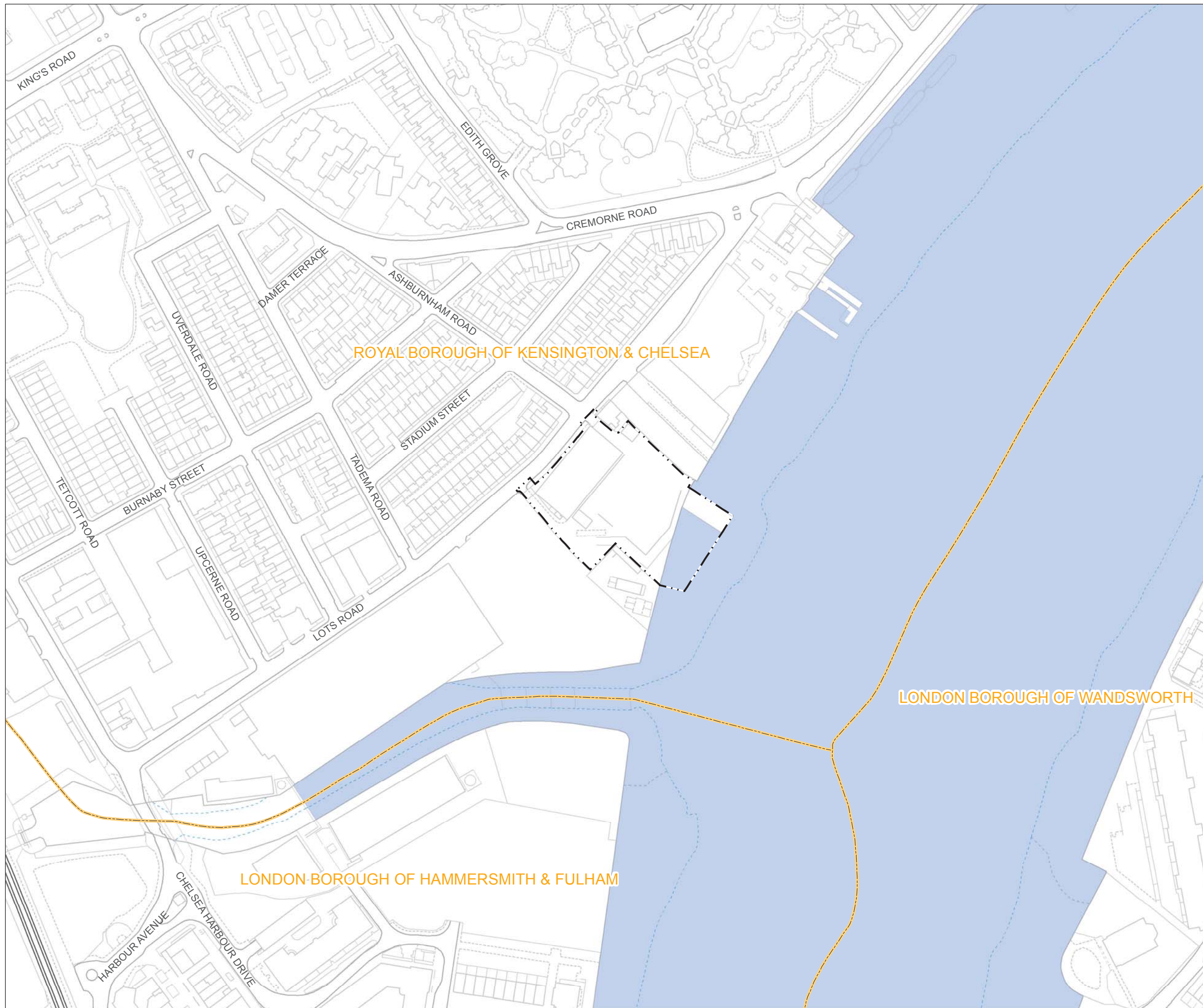
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



Key

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



Scale 1 : 2,000 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington & Chelsea

Document Information
Environmental Statement
Site location plan
Vol. 12 Figure 2.1.1

1PL03-MG-00705
January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:

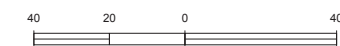


Key

- 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 B2-B8 (General Industrial / Storage or Distribution)
- Class C3-C4 (Dwelling Houses)
- Class D1-D2 (Non Residential Institutions (Community Facilities) and Assembly and Leisure)
- Mixed Use
- Other
- Open Space



Scale 1 : 2,000 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington & Chelsea

Document Information

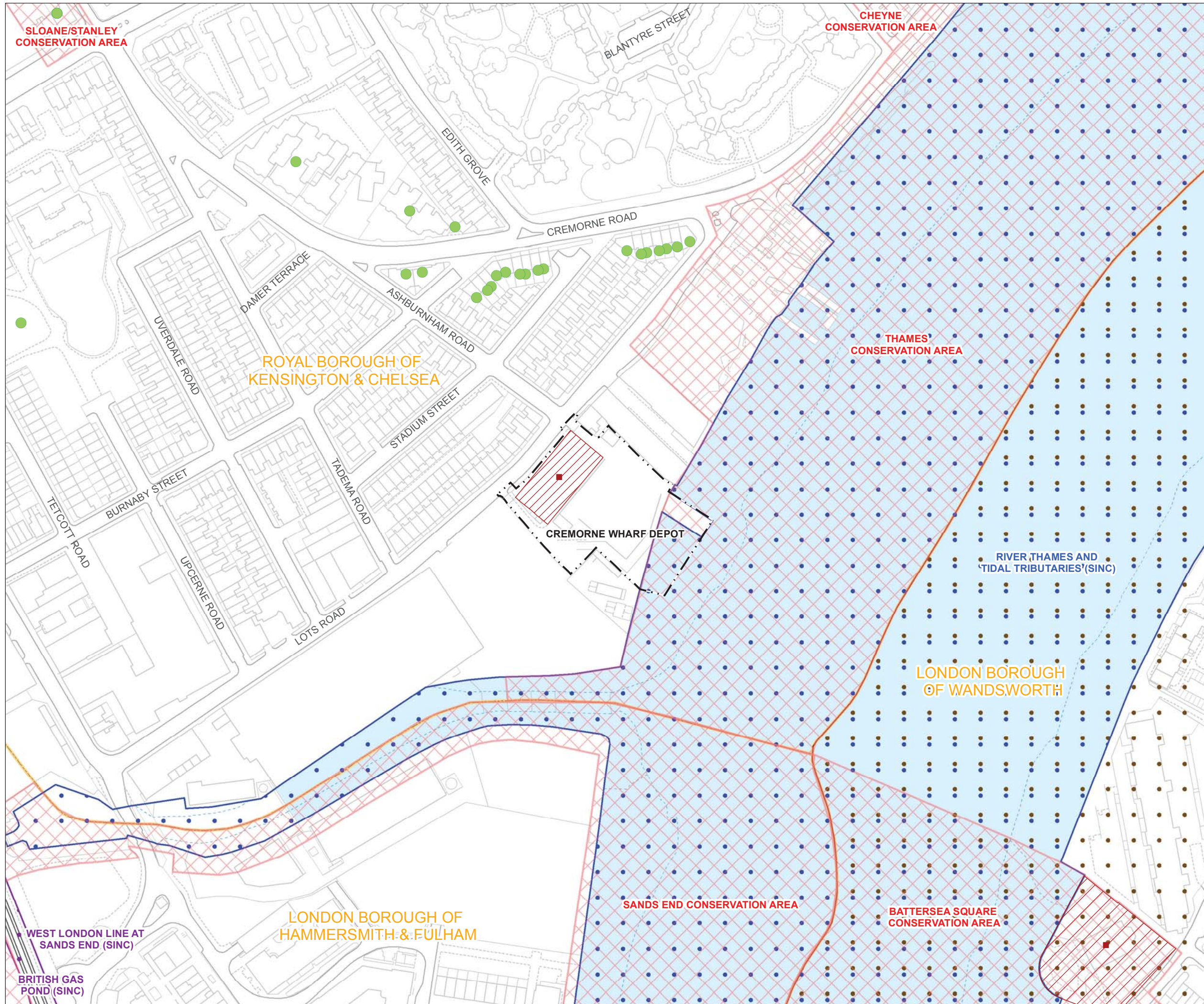
Environmental Statement

Land use
Vol. 12 Figure 2.1.2

1PL03-MG-00834
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

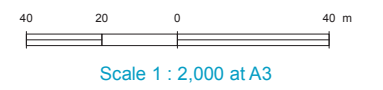




Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key**
- Listed Building Point
 - Tree Preservation Order 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
 - Borough Importance



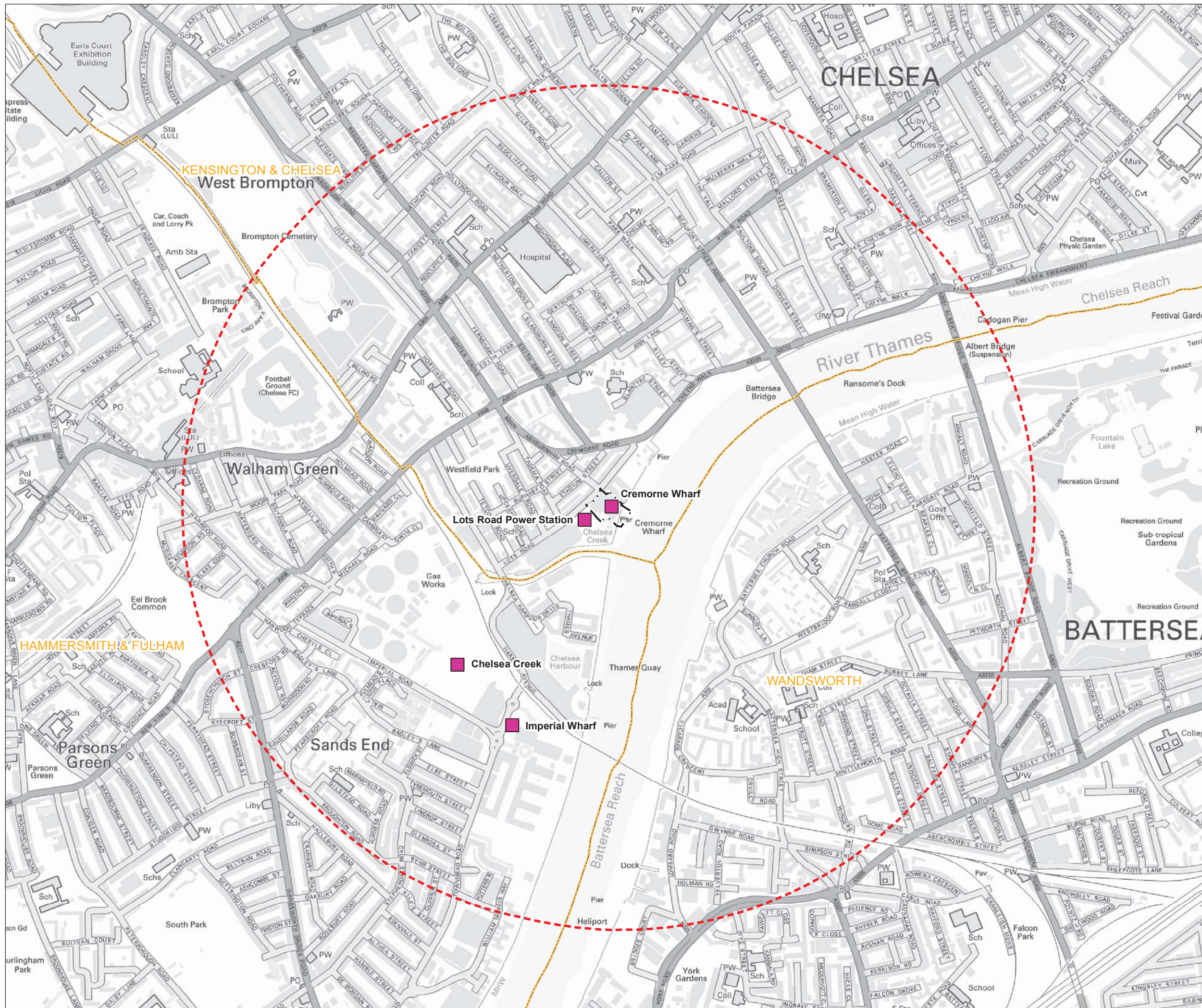
FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Environmental Statement
 Environmental setting
 Vol. 12 Figure 2.1.3

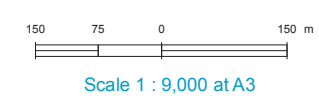
1PL03-MG-00682
 January 2013





- 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

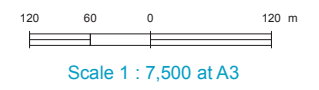
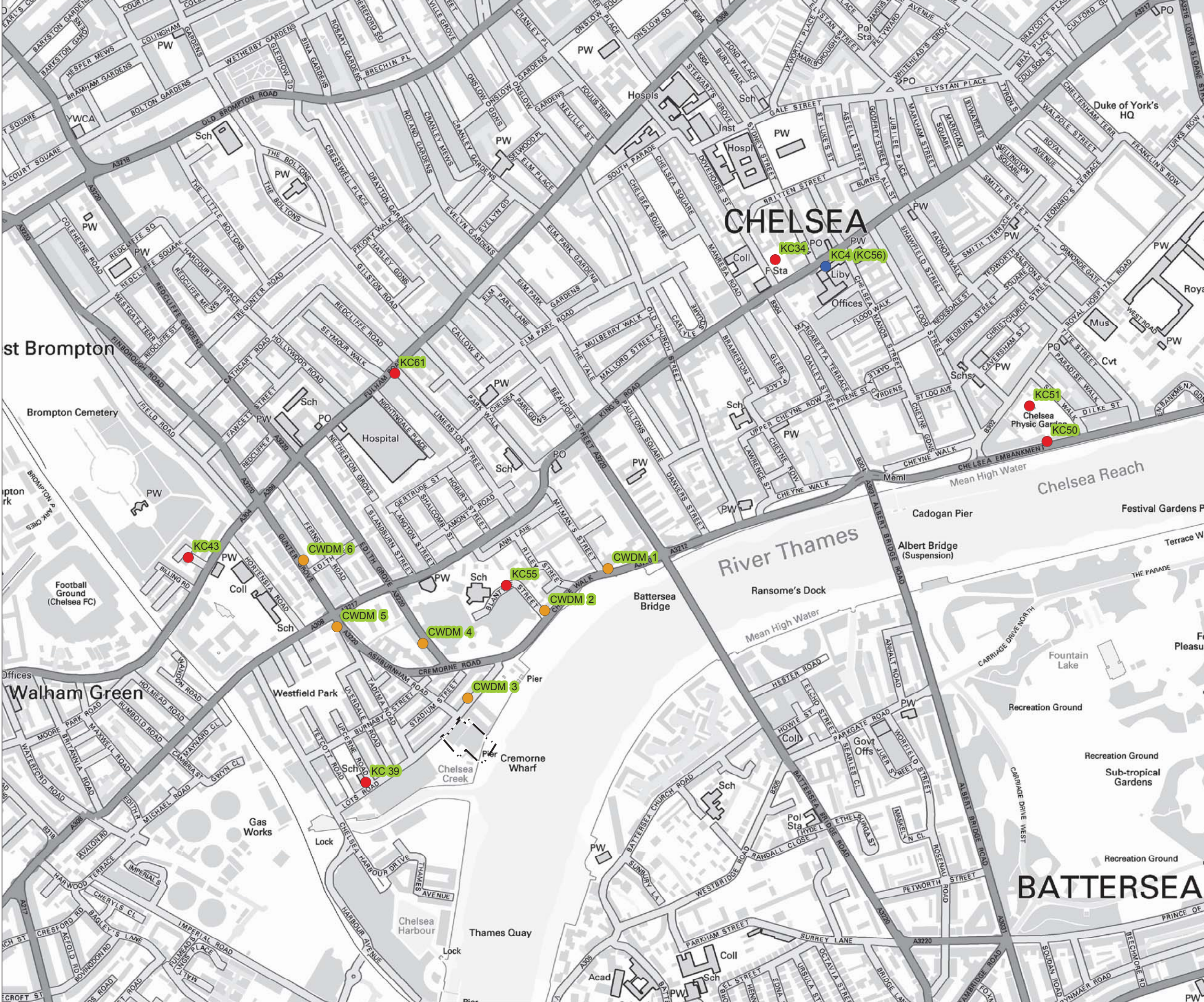
Location
Cremorne Wharf Depot
 Royal Borough of Kensington & Chelsea

Document Information
Environmental Statement
 Base case and cumulative development projects
 Vol.12 Figure 3.5.1
 1PL03-MG-00728
 January 2013





- 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
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

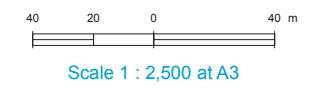
Document Information
Environmental Statement
 Air quality and odour - air quality monitoring sites
 Vol.12 Figure 4.4.1
 1PL03-AQ-10860
 January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key
- Limits of Land to be Acquired or Used
 - H₂S Monitoring Locations



FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Air quality and odour - H₂S monitoring locations
Vol.12 Figure 4.4.2
1PL03-AQ-10861
January 2013



Keyplan:

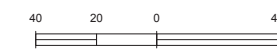


Key

- 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.

- CWDR 1 - Chelsea Academy
- CWDR 2 - Lots Road Power Station North (Proposed)
- CWDR 3 - Lots Road
- CWDR 4 - Chelsea Wharf, Lots Road
- CWDR 5 - Cremorne Gardens
- CWDR 6 - Cremorne Riverside Activity Centre
- CWDR 7 - Thames Path (Proposed)
- CWDR 8 - Lots Road Power Station South (Proposed)
- CWDR 9 - River Thames



Scale 1 : 2,500 at A3

FOR INFORMATION

[Location](#)

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

[Document Information](#)

Environmental Statement

Air quality and odour - modelled air quality receptors
Vol.12 Figure 4.4.3

1PL03-AQ-10862

January 2013

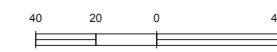
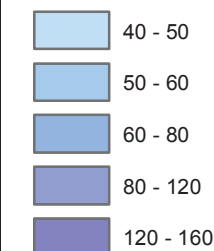
Keyplan:



Key

— Limits of Land to be Acquired or Used

Predicted Annual Mean NO₂ Concentration (µg/m³)



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Air quality and odour - annual mean NO₂ for 2010 baseline
Vol.12 Figure 4.5.1

1PL03-AQ-10863
January 2013

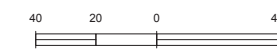
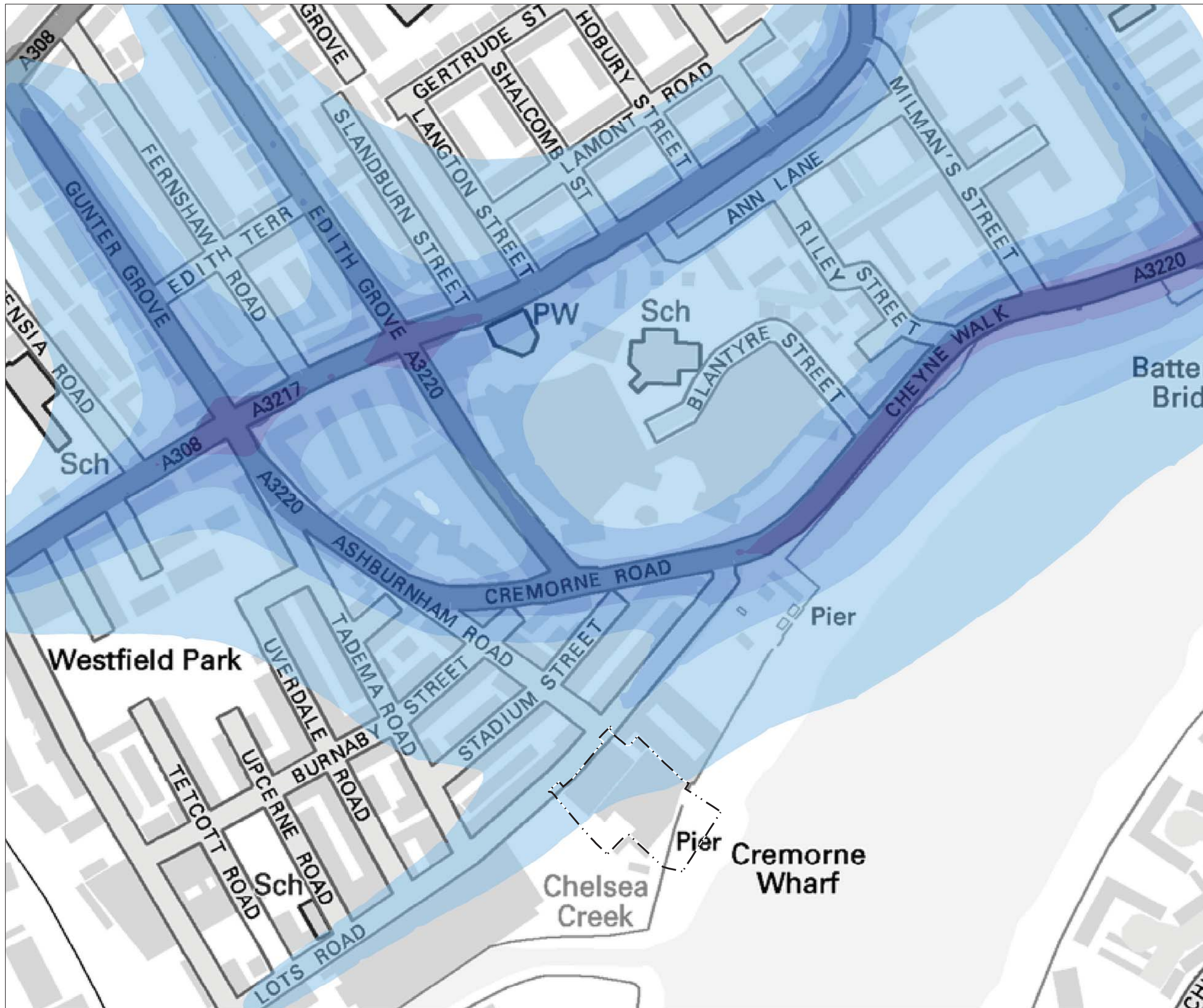
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean NO₂ Concentration (µg/m³)**
- < 40
- 40 - 50
- 50 - 60
- 60 - 80
- 80 - 120



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Air quality and odour - annual mean NO₂ for peak construction year base case
Vol.12 Figure 4.5.2

1PL03-AQ-10864
January 2013



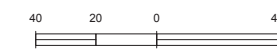
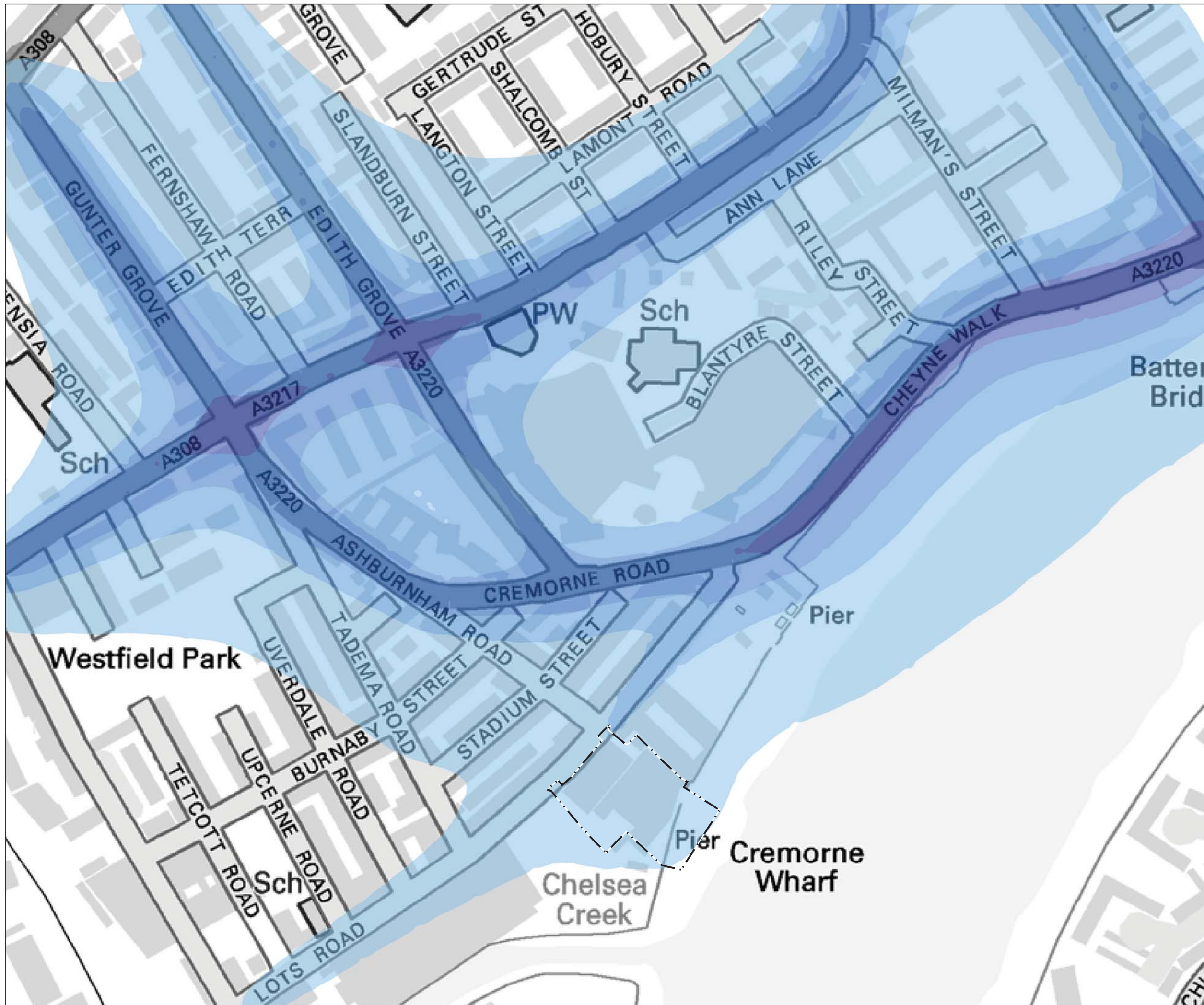
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



Key

- Limits of Land
- - - to be Acquired or Used
- Predicted Annual Mean NO₂ Concentration (µg/m³)
- < 40
- 40 - 50
- 50 - 60
- 60 - 80
- 80 - 120



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement
Air quality and odour - annual mean NO₂ for peak construction year development case Vol.12 Figure 4.5.3

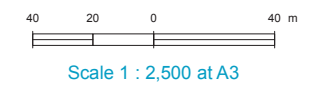
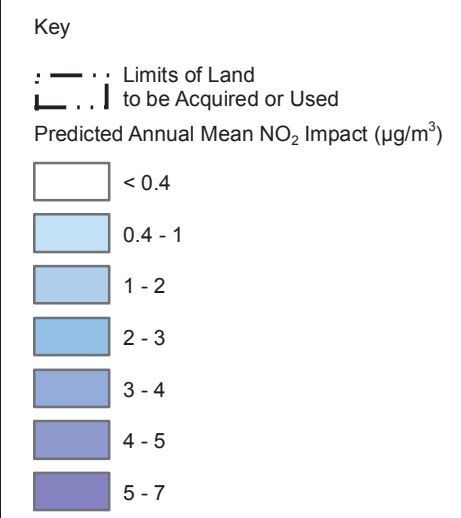
1PL03-AQ-10865
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

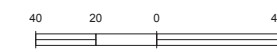
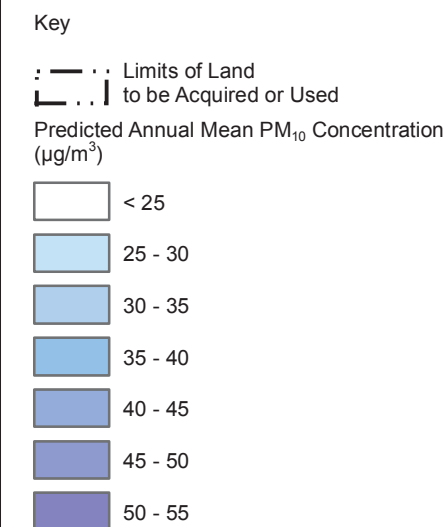


FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Air quality and odour - annual mean NO₂ impact for peak construction year
 Vol.12 Figure 4.5.4
 1PL03-AQ-10866
 January 2013





Scale 1 : 2,500 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀
 for 2010 baseline
 Vol.12 Figure 4.5.5
 1PL03-AQ-10867
 January 2013



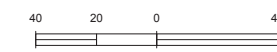
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM₁₀ Concentration (µg/m³)**
- < 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

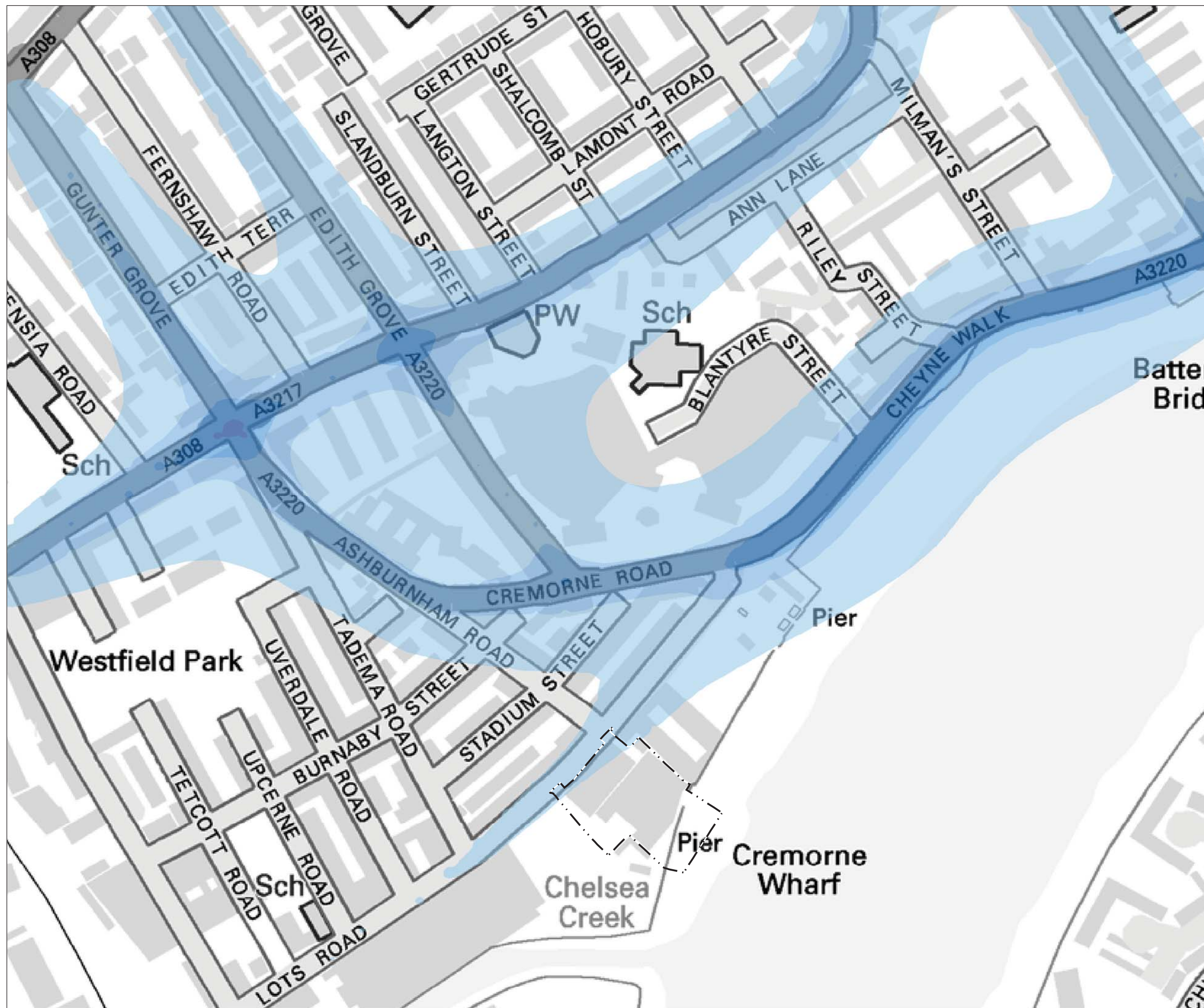
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement
Air quality and odour - annual mean PM₁₀
for peak construction year base case
Vol.12 Figure 4.5.6

1PL03-AQ-10868
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames



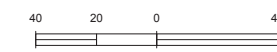
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM₁₀ Concentration (µg/m³)
- < 25
- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

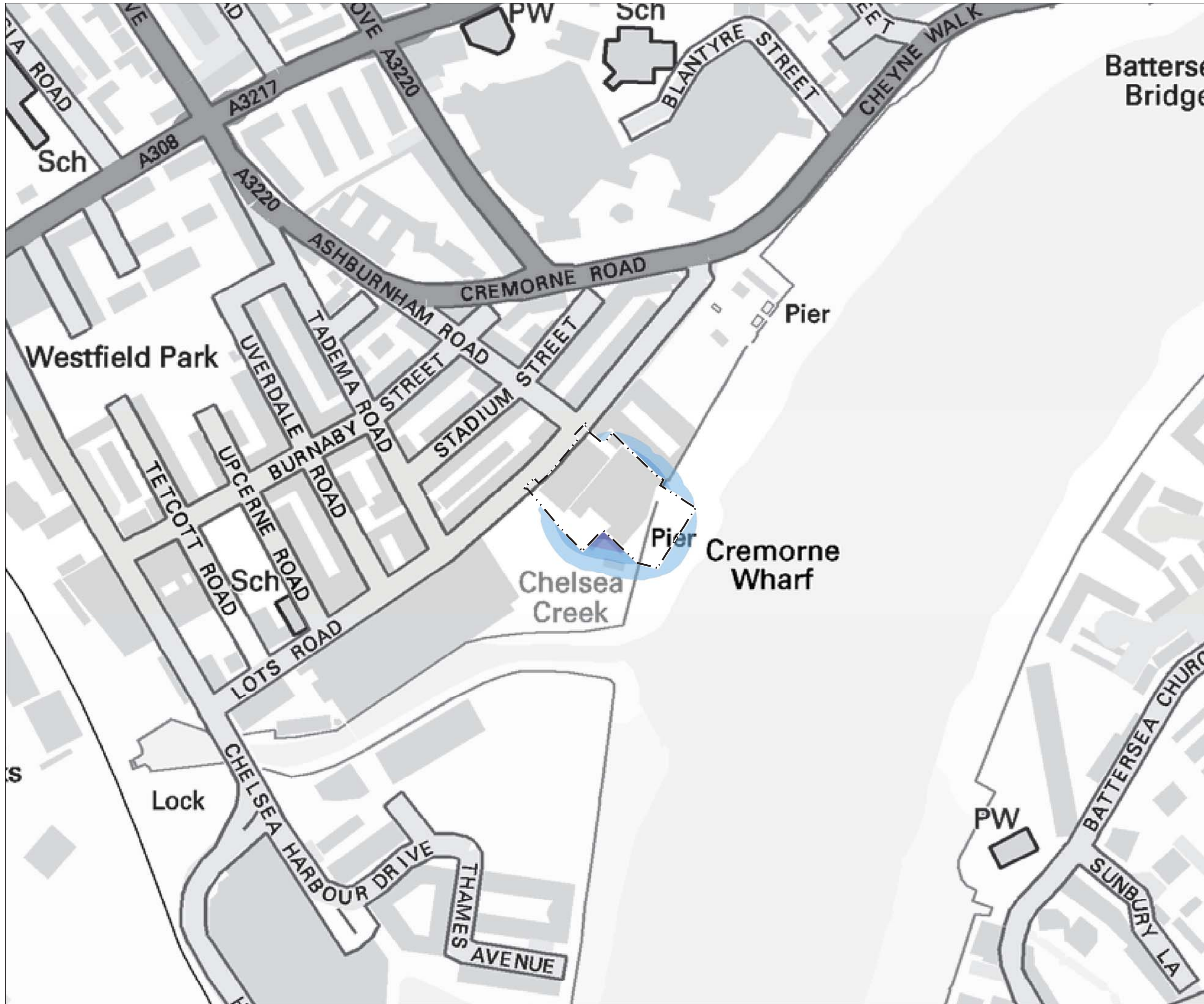
Document Information

Environmental Statement
Air quality and odour - annual mean PM₁₀ for peak construction year development case Vol.12 Figure 4.5.7

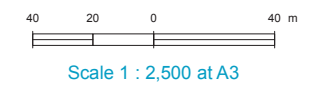
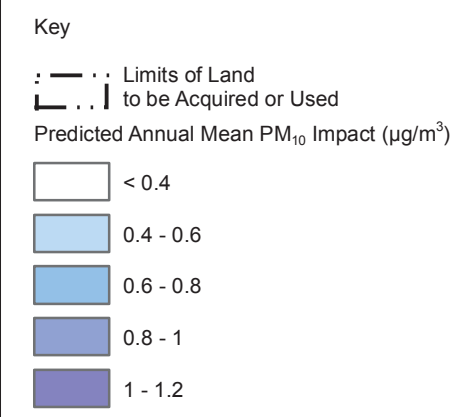
1PL03-AQ-10869
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀ impact for peak construction year
 Vol.12 Figure 4.5.8
 1PL03-AQ-10870
 January 2013



Keyplan:



Key

- Limits of Land to be Acquired or Used
- Sampling Area for Fish and Benthic Invertebrates
- Coordinates of Sampling Area
- CSO (Directly Controlled)
- River Wall
- Habitats**
- Pebbles, Silt/Sand/Shingle
- Pebbles/Gravel, Silt, Sand
- Silt Dominant
- Fish**
- Seine Netting
- ➔ Boat Fish Trawl
- Invertebrates**
- Airlift
- Quadrat
- ▲ Sweep/Kick Sample



Scale 1 : 2,000 at A3

FOR INFORMATION

Location

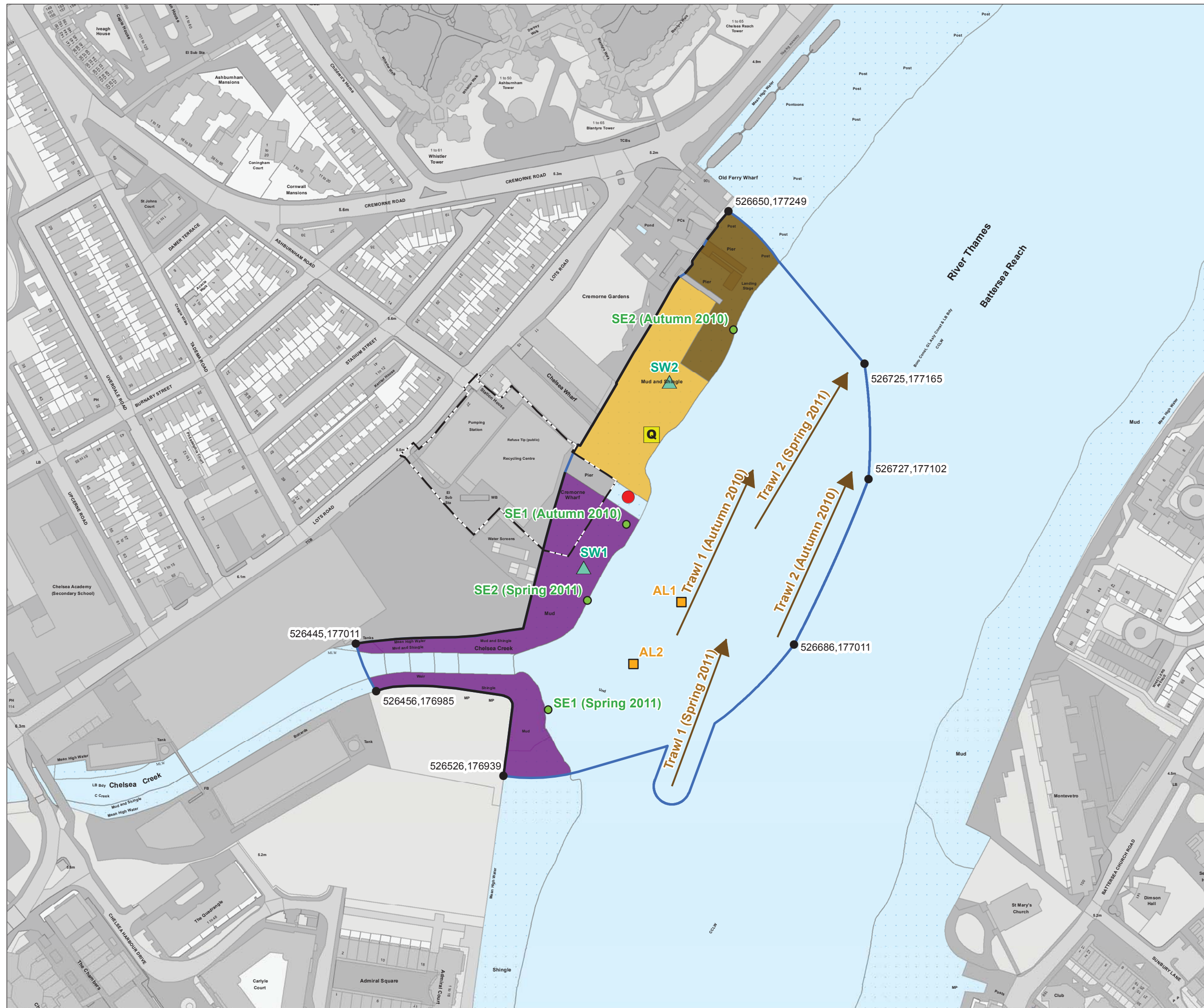
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Aquatic ecology - habitat and sampling locations
Vol.12 Figure 5.4.1

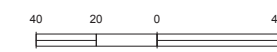
1PL03-AE-20084
January 2013





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

Note:
Aerial Imagery taken in 2010, before assessment.



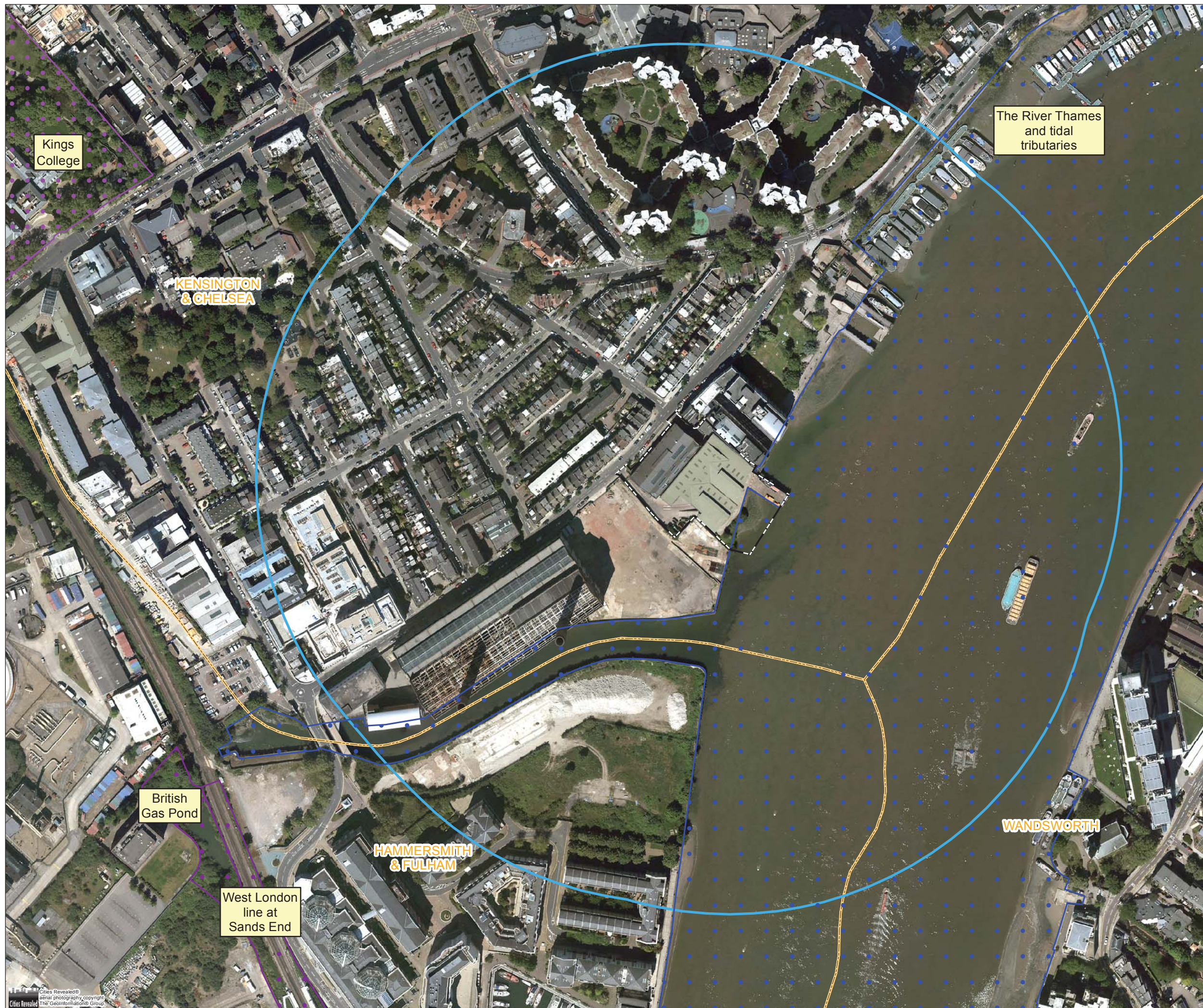
Scale 1 : 2,500 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Terrestrial ecology - designated sites

Vol. 12 Figure 6.4.1
1PL03-TE-40189
January 2013



Keyplan:



Key

- Limits of Land
- to be Acquired or Used
- Survey Area
- Local Authority Boundary
- Intertidal - Mud/Sand
- Running Water
- Bare Ground
- Built-Up Areas - Buildings
- Cultivated/Disturbed Land - Amenity Grassland
- Cultivated/Disturbed Land - Introduced Shrub
- Cultivated/Disturbed Land - Ephemeral/Short Perennial
- Hard Standing
- Scrub - Scattered
- Target Note
- Scattered Trees

30 15 0 30 m

Scale 1 : 2,000 at A3

FOR INFORMATION

Location

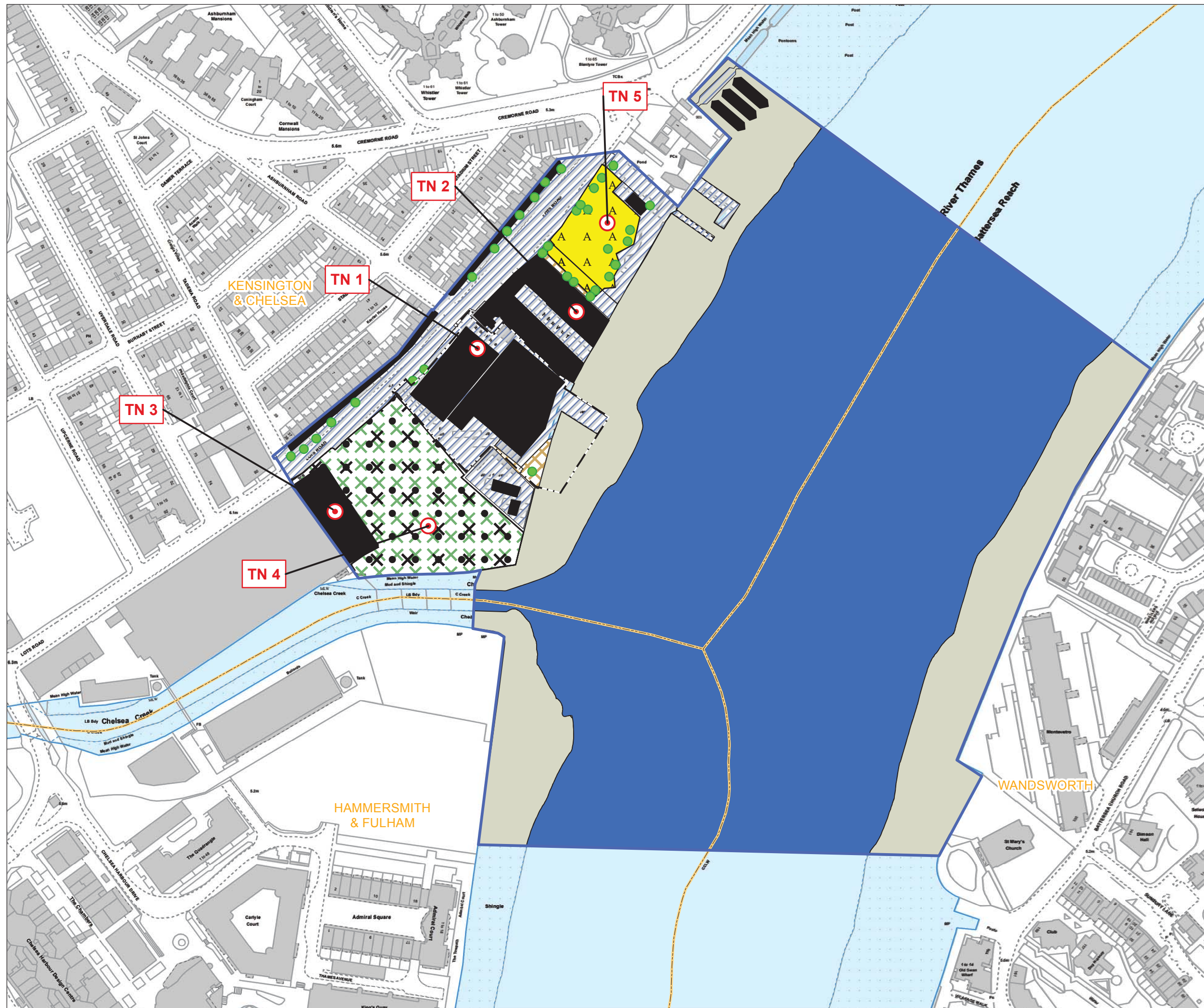
Cremerne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement
Terrestrial ecology – Phase 1 Habitat Survey

Vol. 12 Figure 6.4.2

1PL03-TE-40171
January 2013



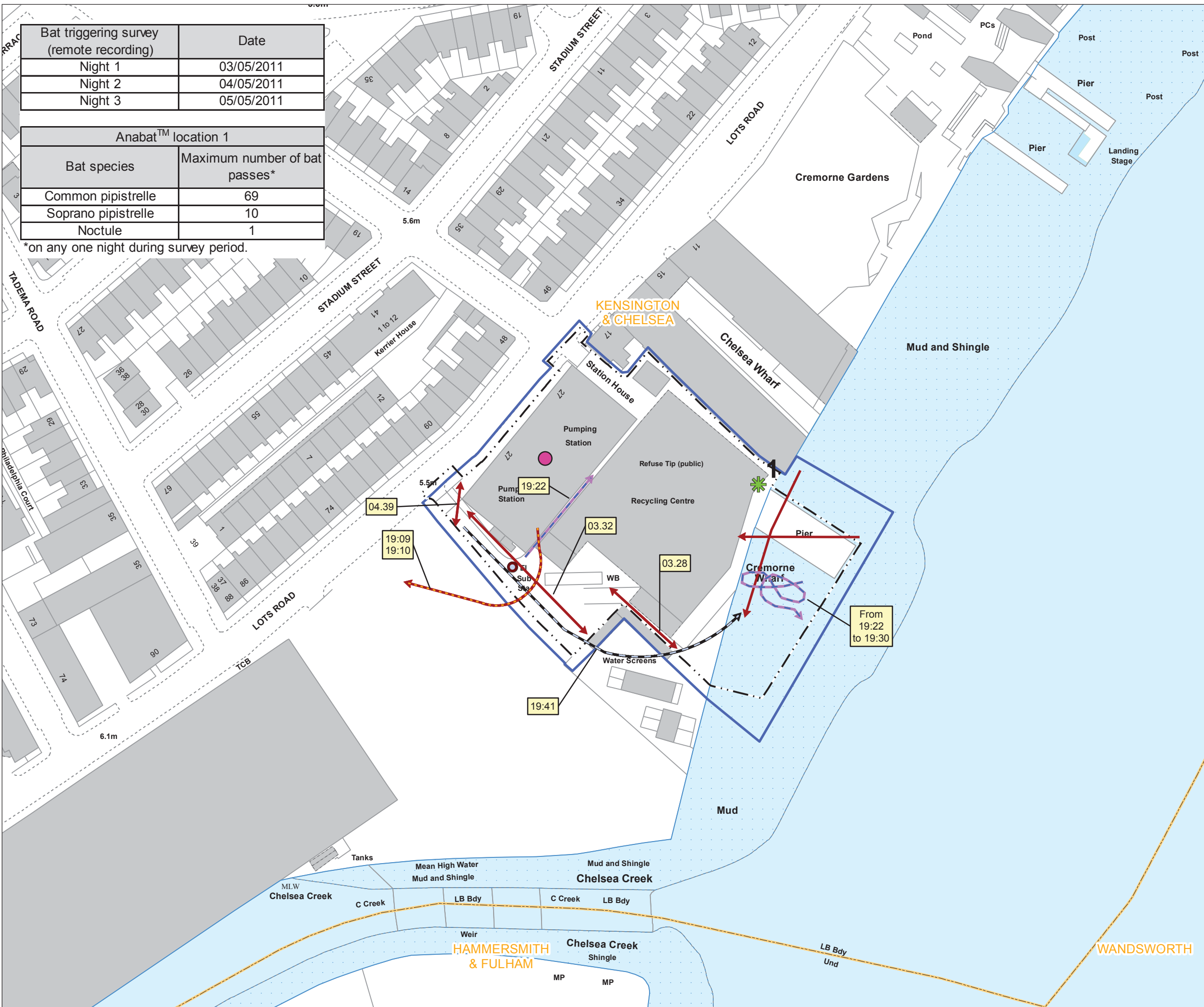
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



Bat triggering survey (remote recording)	Date
Night 1	03/05/2011
Night 2	04/05/2011
Night 3	05/05/2011

Anabat™ location 1	
Bat species	Maximum number of bat passes*
Common pipistrelle	69
Soprano pipistrelle	10
Noctule	1

*on any one night during survey period.



Key

- Limits of Land to be Acquired or Used
- Survey Area
- Local Authority Boundary
- Bat Triggering Survey (remote recording)
- Anabat™ Location (1)
- hh.mm Time of bat registration
- Activity Survey (dawn at 04:43 on 21/06/2011)
- Flight Paths (observed)
- Common pipistrelle
- Dusk Survey (dusk at 18:50 on 25/09/2012)
- Flight Paths (observed)
- Soprano pipistrelle
- Noctule
- Dawn Survey (dawn at 06:20 on 26/09/2012)
- Species heard
- Common pipistrelle (heard only)
- Dusk Survey (dusk at 18:27 on 01/10/2012)
- Flight Paths (observed)
- Common pipistrelle (emerging from building)
- Confirmed Roost
- Common pipistrelle and Soprano pipistrelle

Scale 1 : 1,000 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Terrestrial ecology – bat triggering (remote recording) and bat activity survey
 Vol. 12 Figure 6.4.3
 1PL03-TE-40117
 January 2013

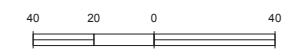
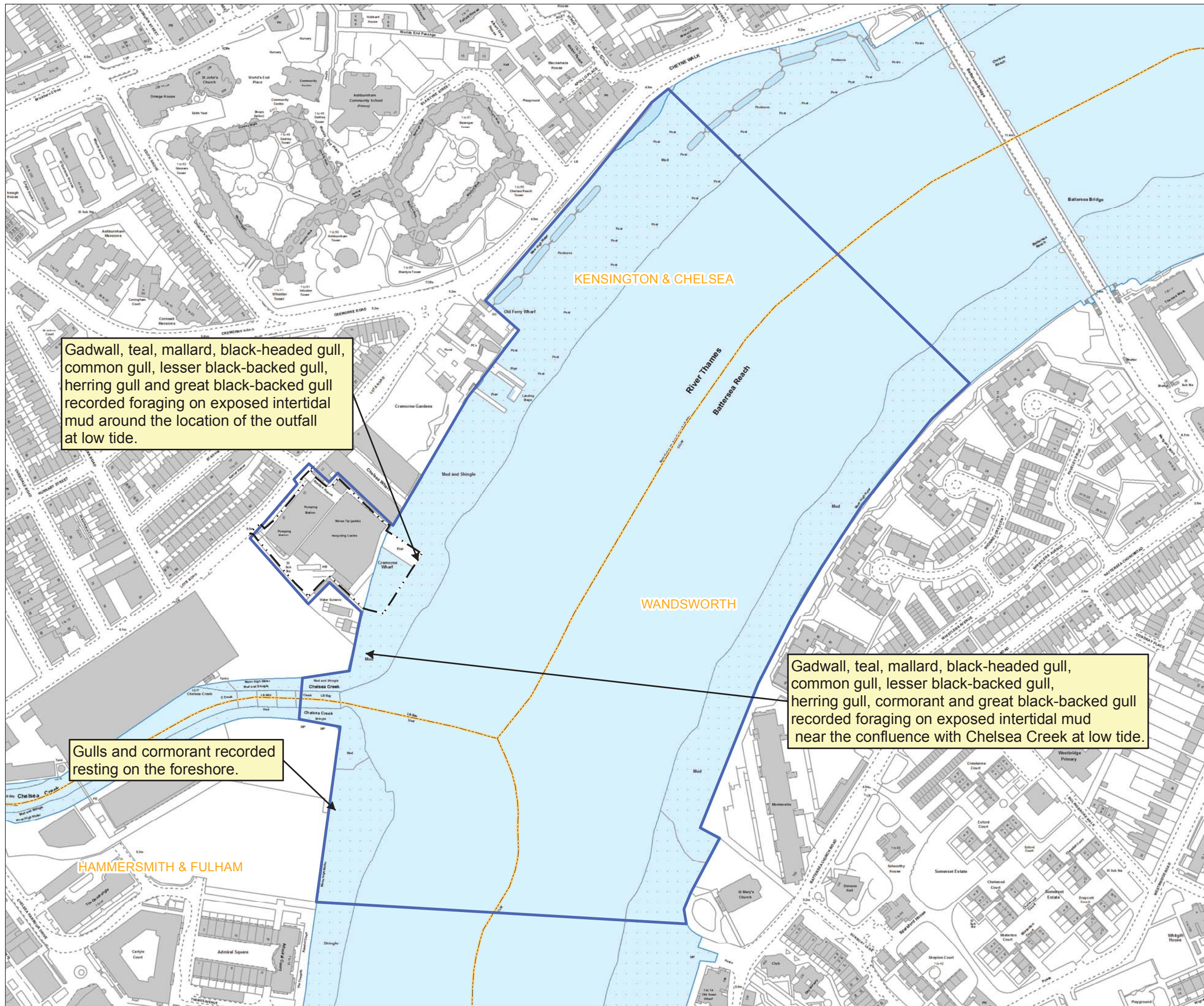


Keyplan:



Key

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



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Terrestrial ecology – wintering birds survey

Vol.12 Figure 6.4.4

1PL03-TE-40069

January 2013





Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:

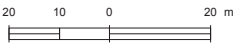


Key

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

Note:

No field signs recorded during survey.



Scale 1 : 1,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

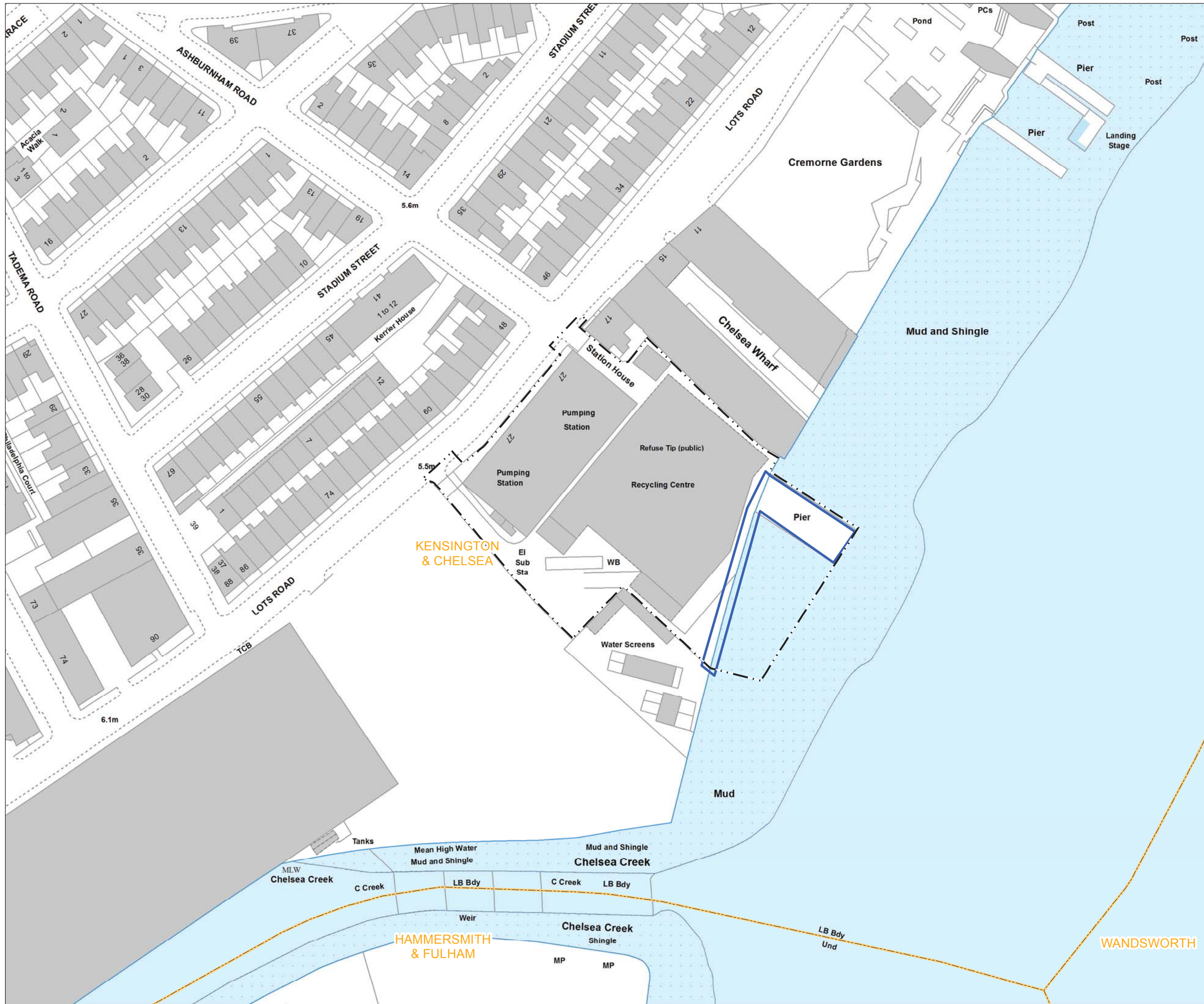
Terrestrial ecology – black redstart survey

Vol. 12 Figure 6.4.5

1PL03-TE-40054

January 2013



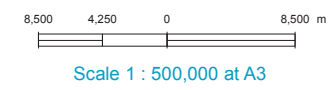


Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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

Note:
No notable invertebrate species recorded during survey



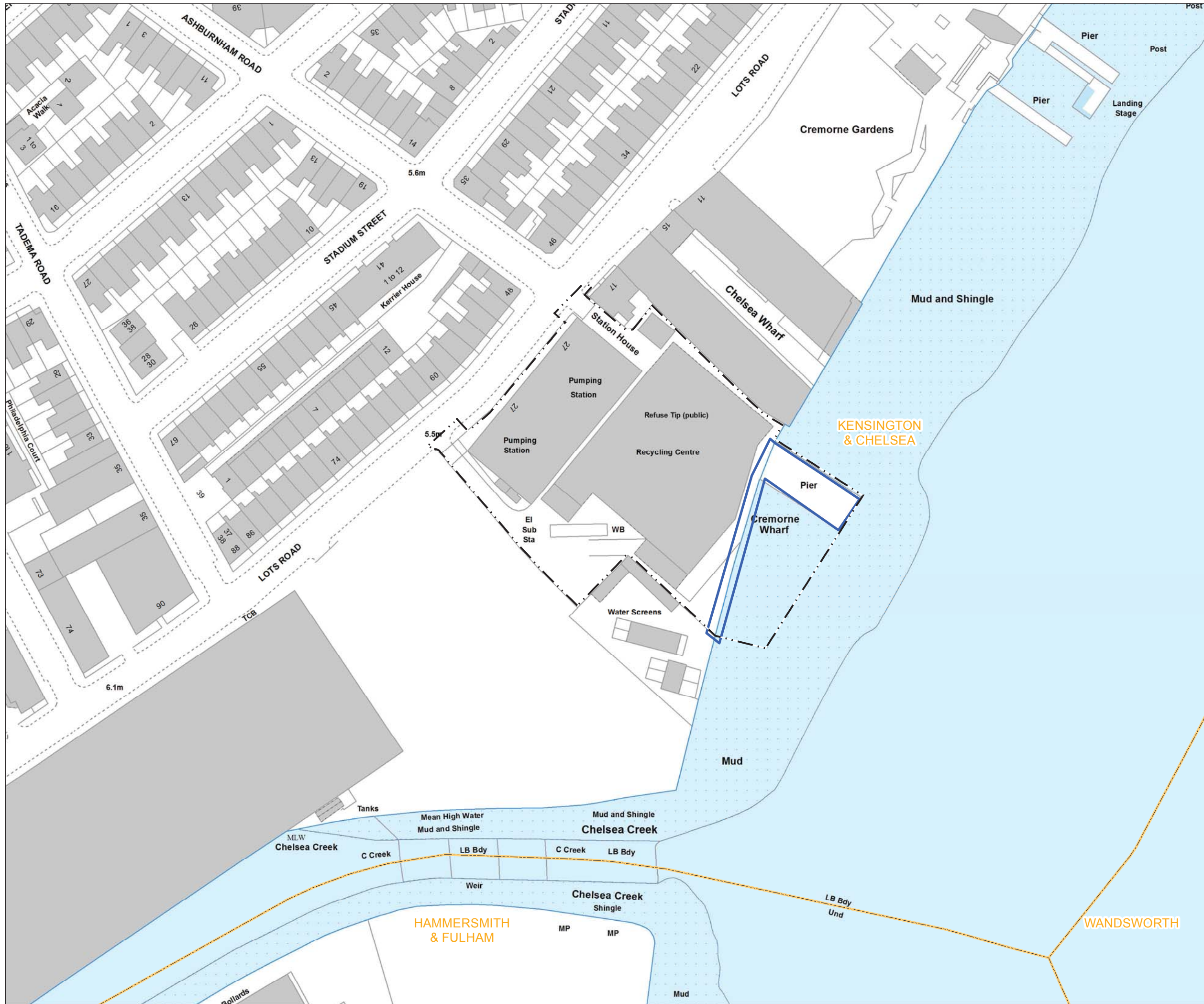
FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Terrestrial ecology – invertebrate survey

Vol. 12 Figure 6.4.6
1PL03-TE-40089
January 2013



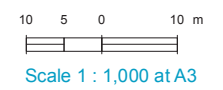


Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



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

Note:
No notable botanical species recorded.



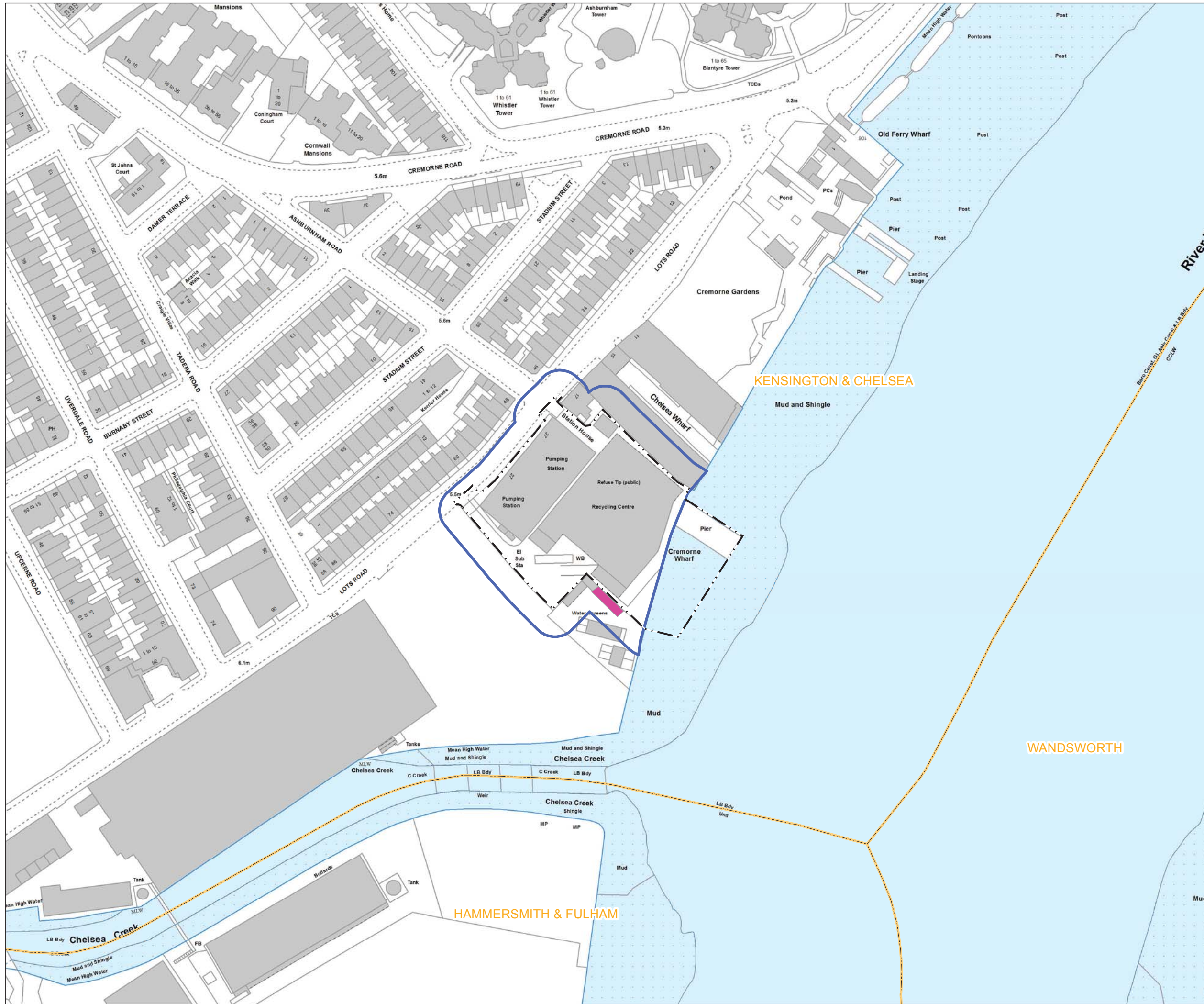
FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Terrestrial ecology – botanical survey

Vol. 12 Figure 6.4.7
1PL03-TE-40089
January 2013

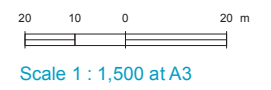




Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key
- Limits of Land
 - to be Acquired or Used
 - Survey Area
 - Local Authority Boundary
 - Entire-leaved Cotoneaster *Conister Integrifolius*



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Terrestrial ecology - invasive plant survey

Vol. 12 Figure 6.4.8
 1PL03-TE-40230
 January 2013



Keyplan:

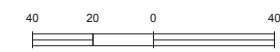


Key

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

The reference numbers for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 12 Appendix E.1

Note: Archaeological Priority Zones/Conservation Areas not shown



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

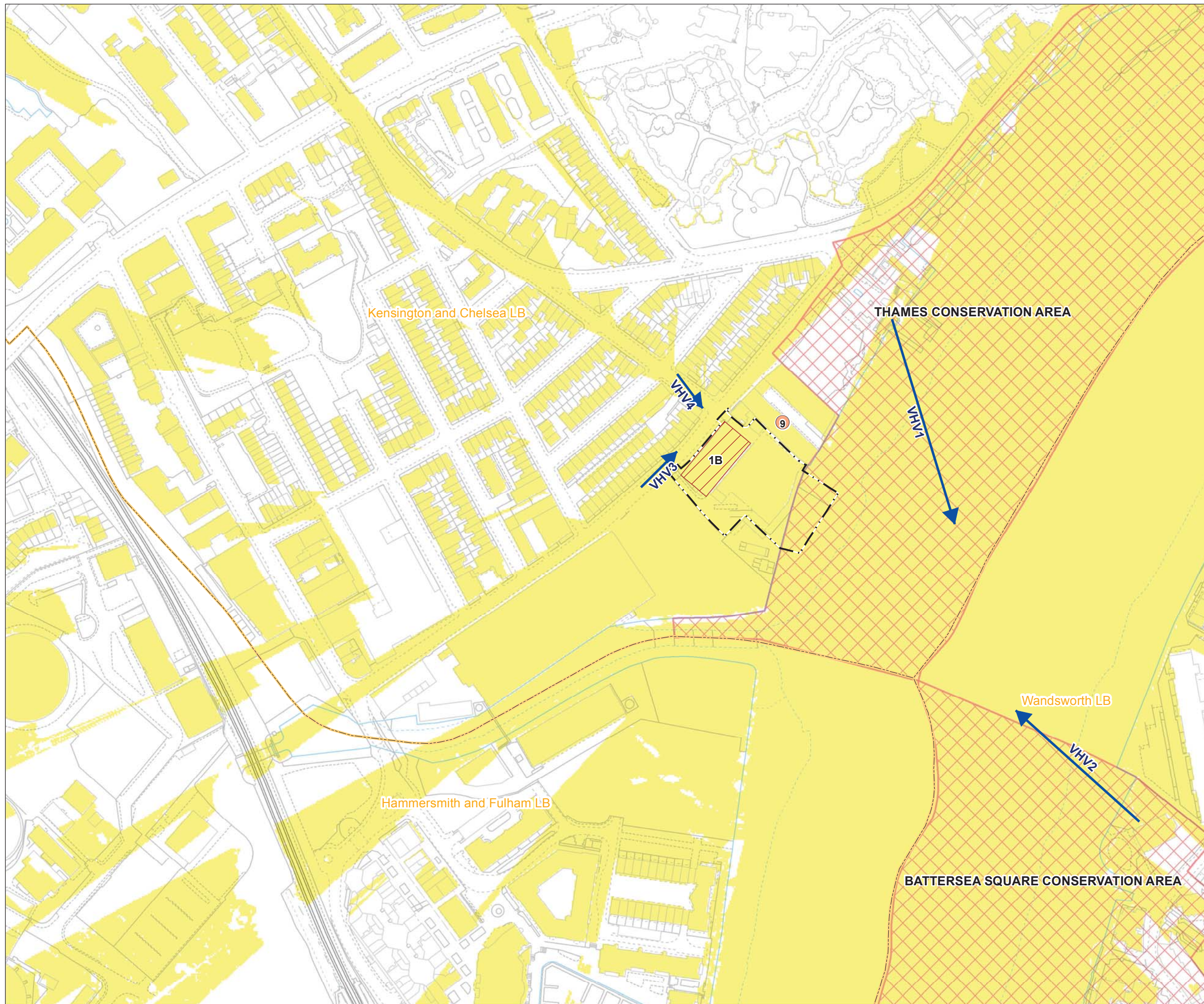
Historic environment -
historic environment features map
Vol.12 Figure 7.4.1

1PL03-HE-60088
January 2013

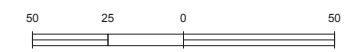




- Key
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
 - Heritage Feature/Findspot
 - Statutorily Listed Building
 - Conservation Areas
 - View of Heritage Value (VHV)
 - Construction phase ZTV



The reference number for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 12 Appendix E.1



Scale 1 : 2,500 at A3

FOR INFORMATION

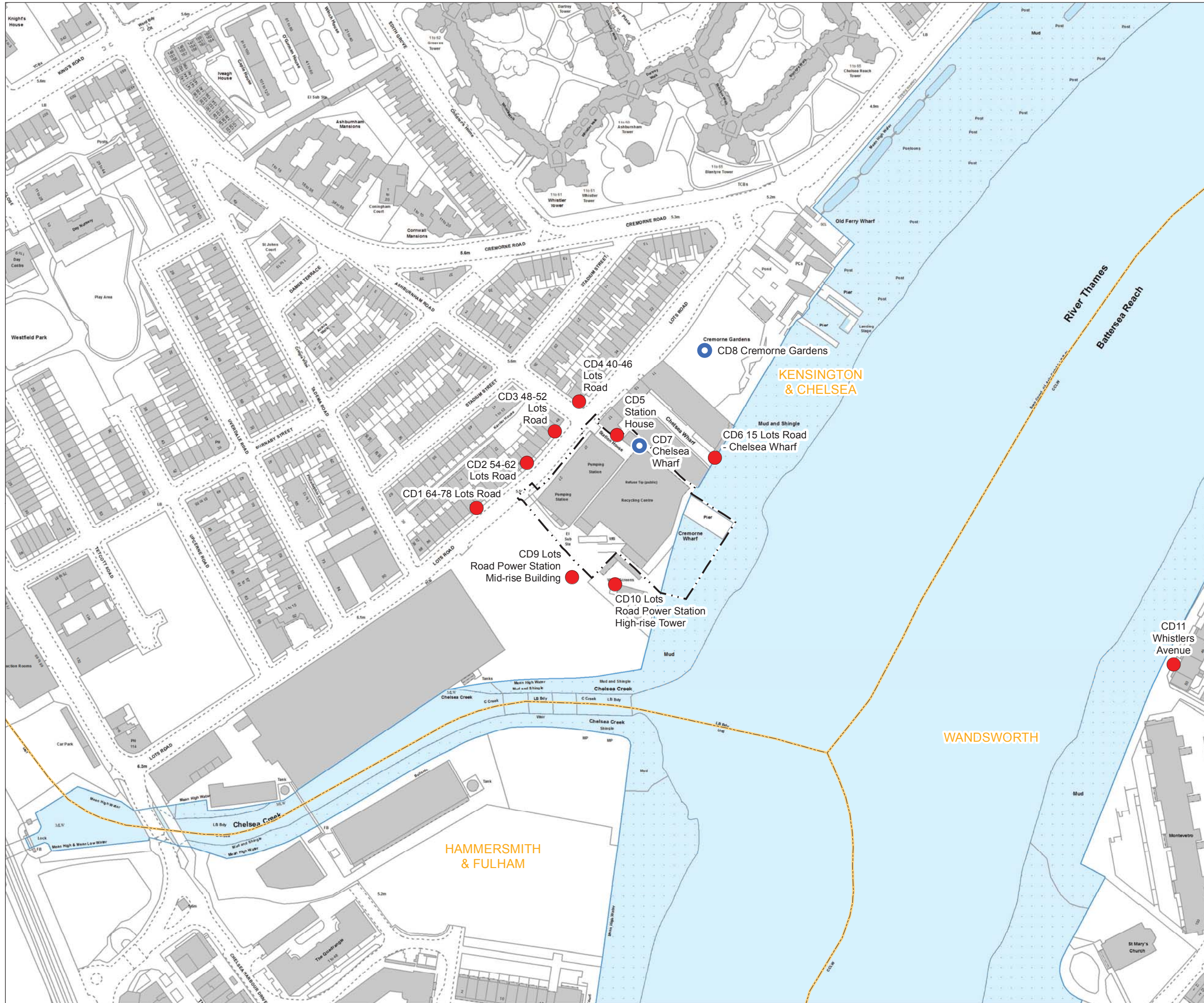
Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Historic environment - historic character and setting of heritage assets
Vol. 12 Figure 7.4.2
1PL03-HE-65207
January 2013

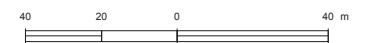




- Key**
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
- Representative Receptor Locations:**
- Residential
 - Non-Residential



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



Scale 1 : 2,000 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement

Noise and vibration - receptor locations

Vol.12 Figure 9.4.1

1PL03-NV-40121
January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345

Keyplan:



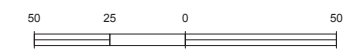
Key

- Limits of Land to be Acquired or Used
- Lots Road Employment Zone, Royal Borough of Kensington and Chelsea Core Strategy
- Thames Path
- National Cycle Route 4
- Receptors and Site Context Features

Receptors and Site Context Features

1. Local Authority Facility
2. Lots Road Pumping Station
3. Chelsea Wharf Workshops/Offices
4. Cremorne Gardens
5. Westfield Park
6. Cremorne Riverside Activity Centre

Note: Residential receptors have been identified on land use plans for this site.



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Socio-economics - context plan

Vol.12 Figure 10.4.1

1PL03-SE-20044

January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

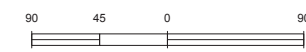


Keyplan:



Key:

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



Scale 1 : 5,000 at A3

FOR INFORMATION

Location

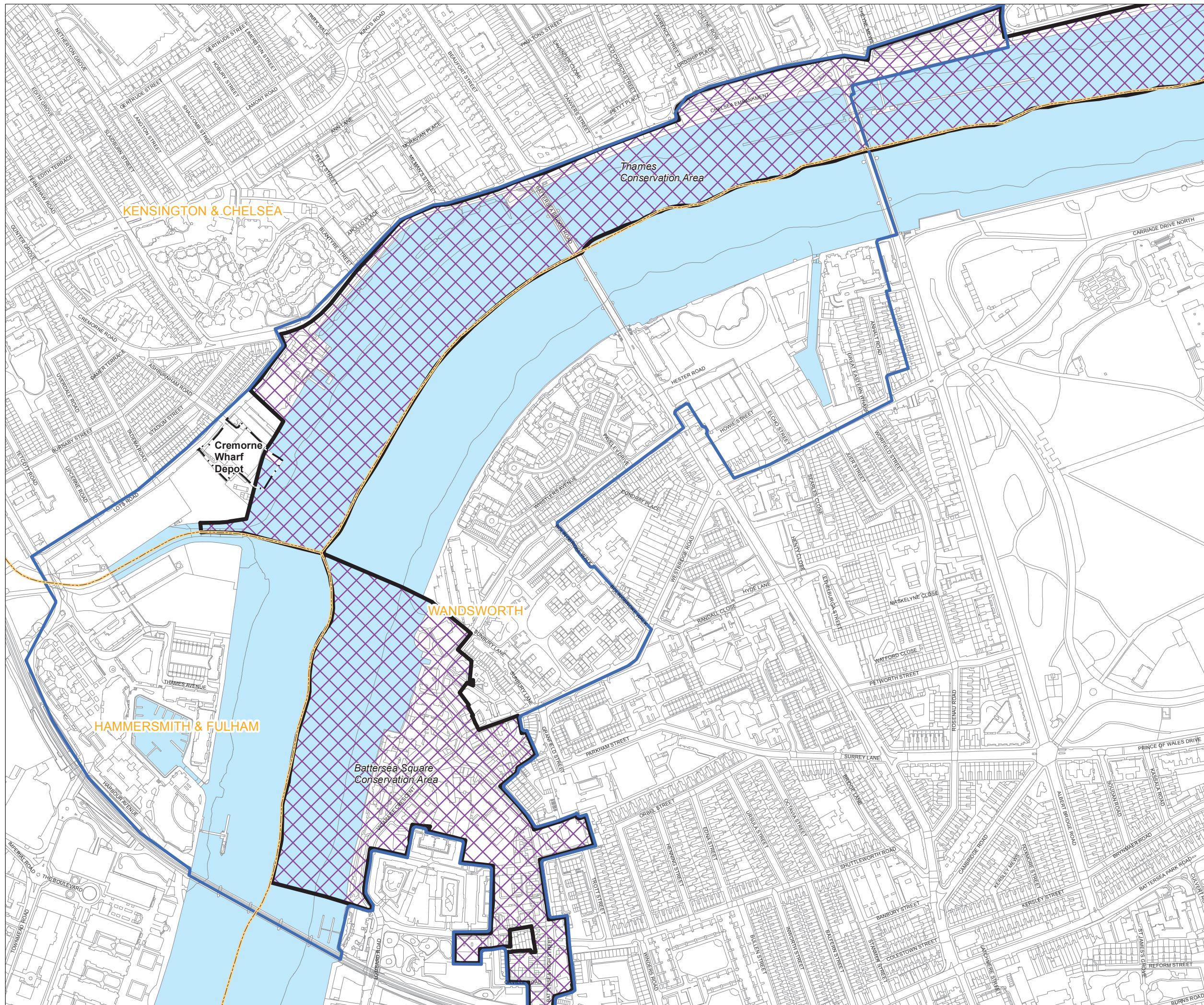
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Townscape and visual
Conservation areas
Vol. 12 Figure 11.4.1

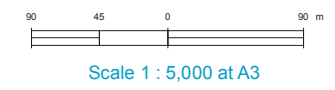
1PL03-TS-40404
January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- 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

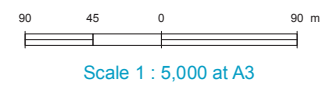
Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Townscape and visual Development pattern and scale
 Vol. 12 Figure 11.4.2
 1PL03-TS-40405
 January 2013





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



FOR INFORMATION

Location
Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
Townscape and visual
Aerial photo showing pattern of vegetation
Vol. 12 Figure 11.4.3
1PL03-TS-40406
January 2013

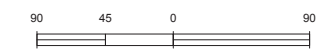
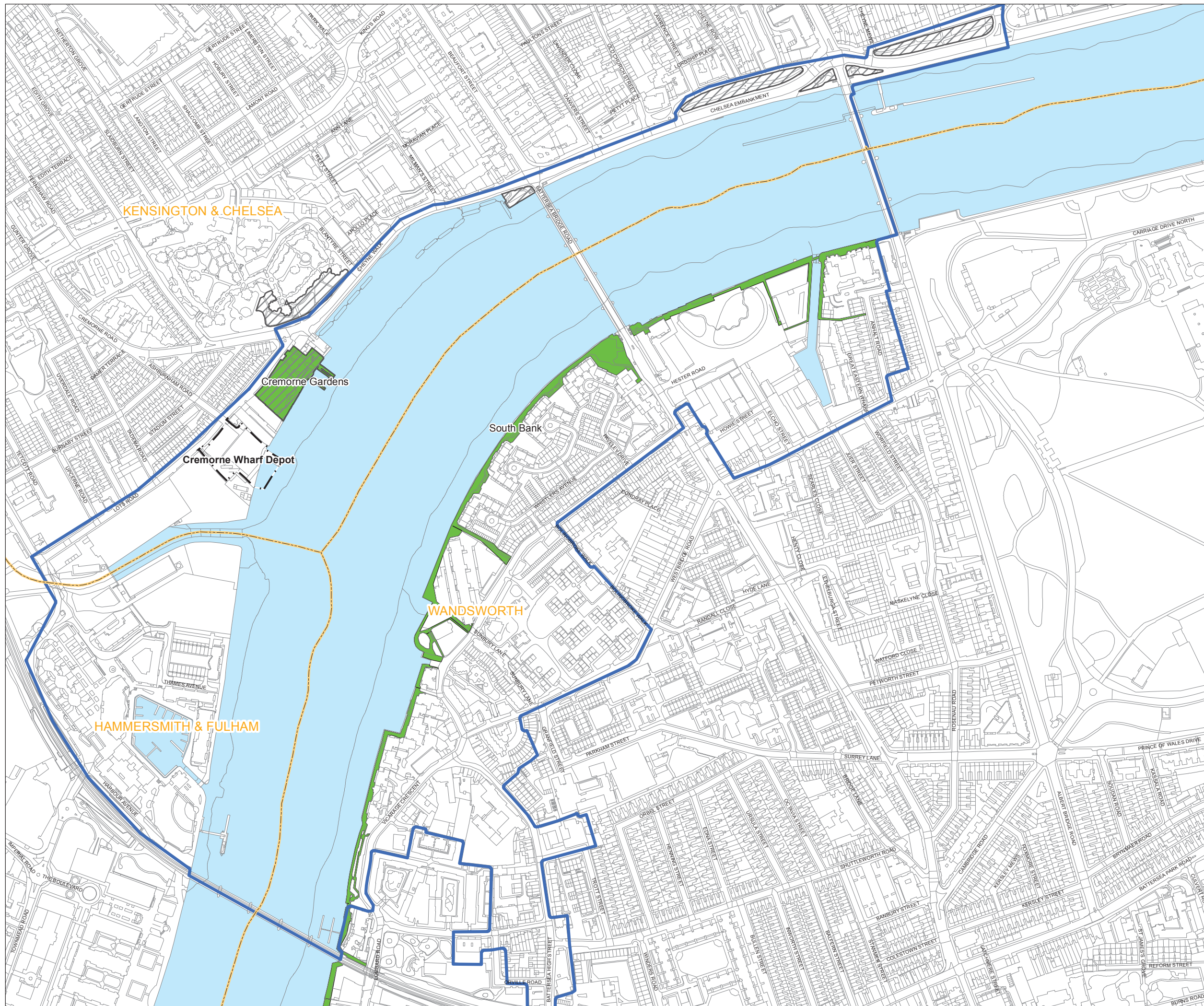


Keyplan:



Key:

- Limits of Land to be Acquired or Used
- Local Authority boundary
- Extents of construction phase townscape assessment area
- Designated open space
- Public open space
- River Thames and tidal tributaries



Scale 1 : 5,000 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Townscape and visual

Open spaces

Vol. 12 Figure 11.4.4

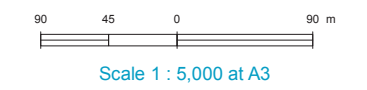
1PL03-TS-40407

January 2013





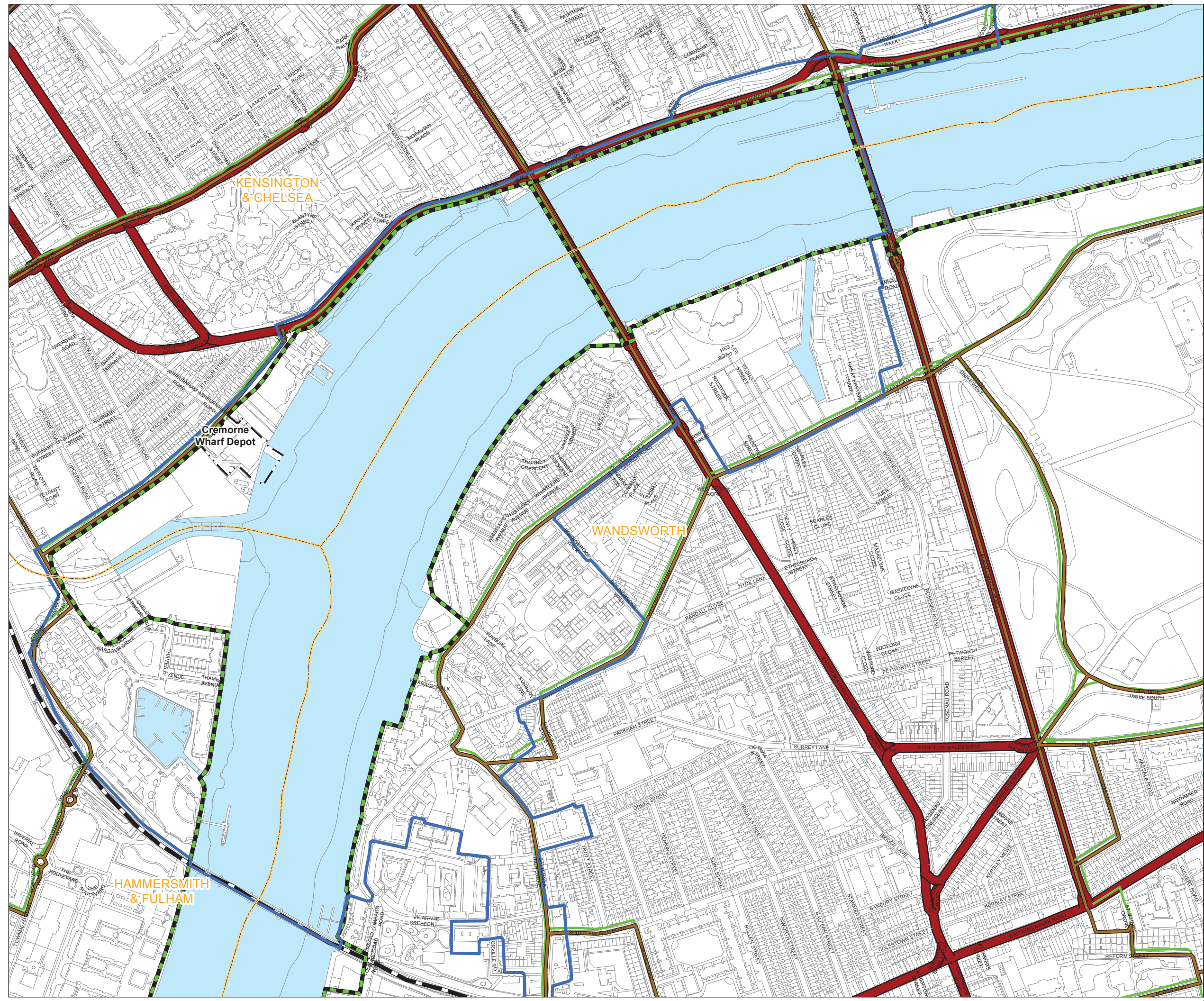
- Key:**
- Limits of Land to be Acquired or Used
 - Local Authority boundary
 - Extents of construction phase townscape assessment area
 - Thames Path
 - Provision for cyclists alongside busy roads
 - London cycle routes
 - Rail
 - A roads
 - River Thames and tidal tributaries



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

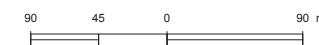
Document Information
Environmental Statement
 Townscape and visual Transport routes
 Vol. 12 Figure 11.4.5
 1PL03-TS-4048
 January 2013





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

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



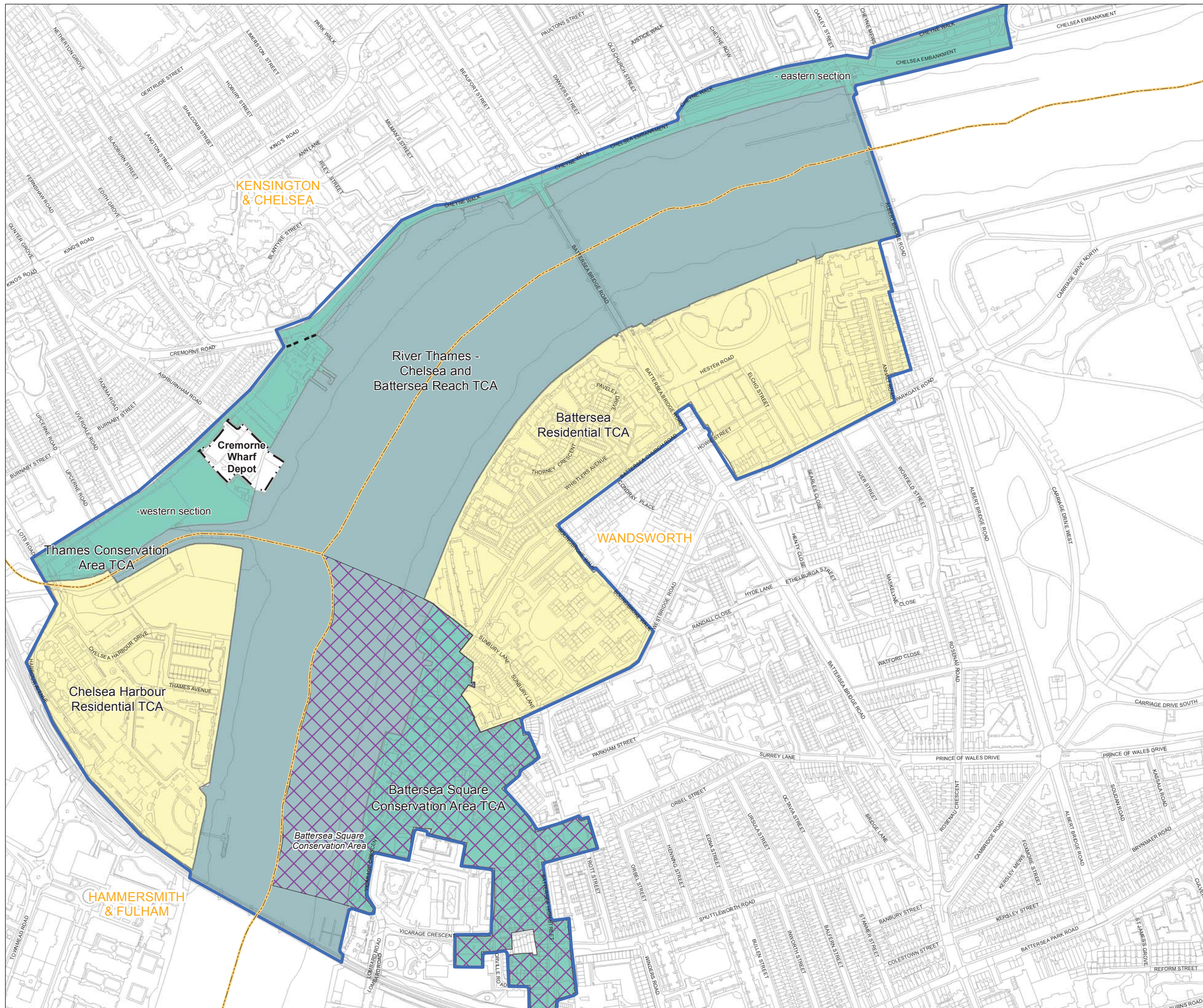
Scale 1 : 5,000 at A3

FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement

Townscape and visual
 Townscape character areas
 Vol. 12 Figure 11.4.6
 1PL03-TS-40409
 January 2013

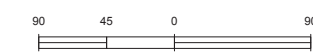


Keyplan:



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



Scale 1 : 5,000 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Townscape and visual

Viewpoints

Vol. 12 Figure 11.4.7

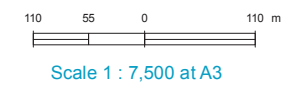
1PL03-TS-40410

January 2013





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

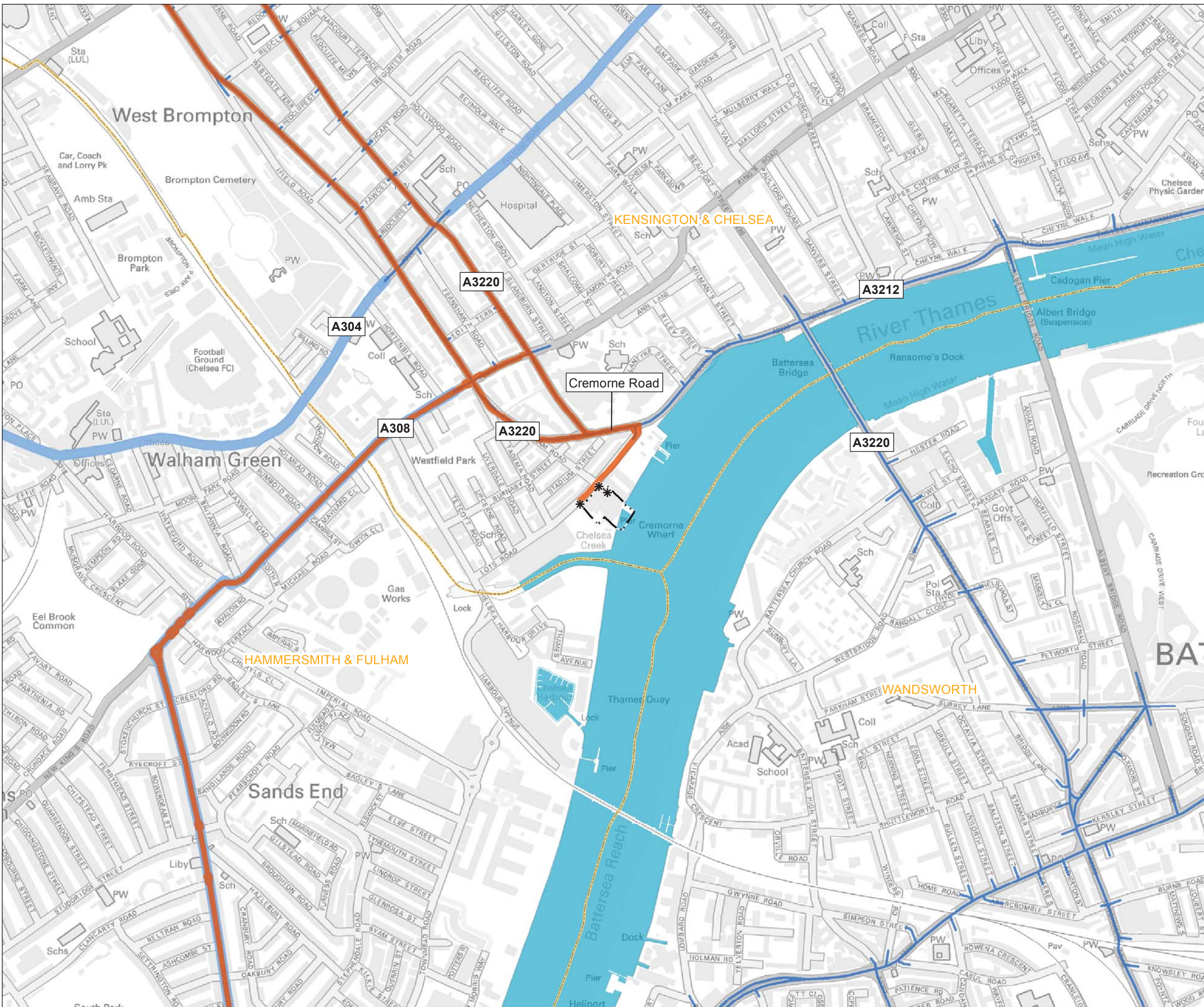


FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Transport - construction traffic routes

Vol.12 Figure 12.2.1
 1PL03-TT-50403
 January 2013



Keyplan:



Key

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

110 55 0 110 m

Scale 1 : 7,500 at A3

FOR INFORMATION

Location

Cremonne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

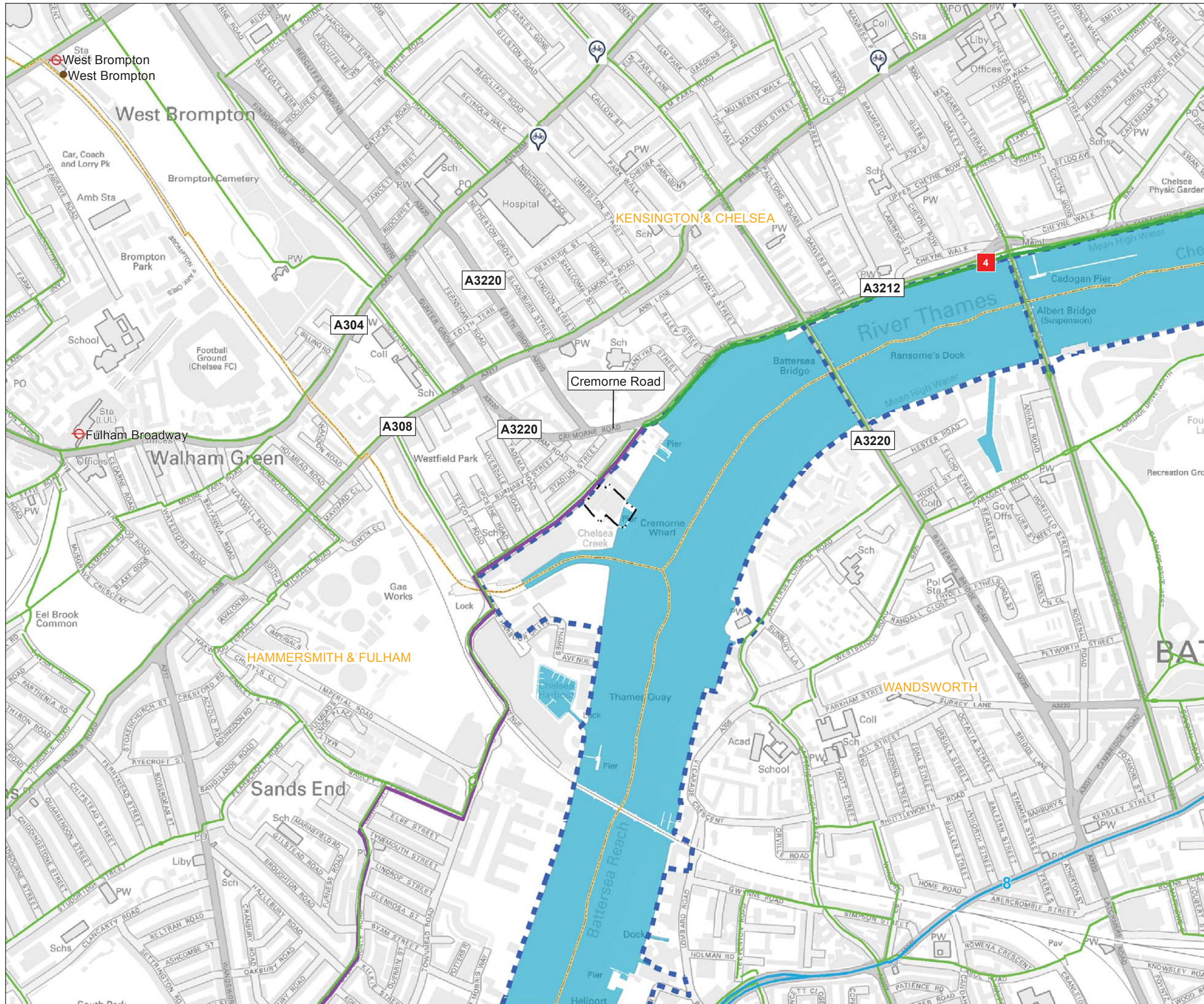
Environmental Statement
Transport - site location plan

Vol.12 Figure 12.4.1

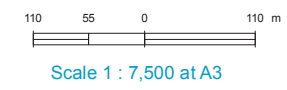
1PL03-TT-50411
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





- Key**
- National Rail stations with cycle parking
 - Underground stations with cycle parking
 - Barclays cycle hire locations
 - Cycle superhighway (open)
 - Thames path
 - London cycle routes
 - National cycle network
 - Route Type
 - Open Traffic Free
 - Open on-road
 - Limits of Land to be Acquired or Used
 - Local Authority Boundary



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Transport - pedestrian and cycle network

Vol.12 Figure 12.4.2
 1PL03-TT-50419
 January 2013



Keyplan:



Key

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

110 55 0 110 m

Scale 1 : 7,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

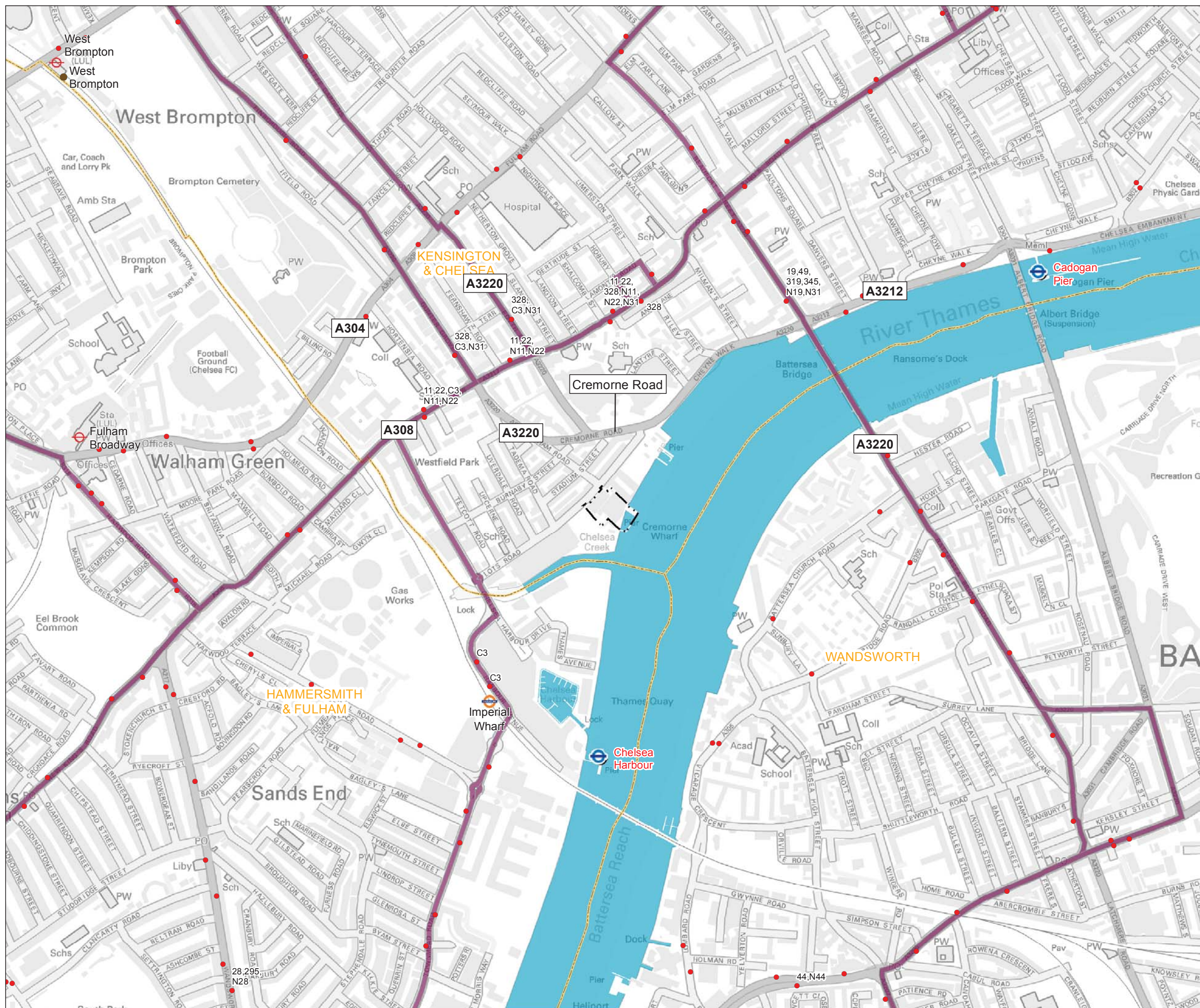
Document Information

Environmental Statement
Transport - public transport

Vol.12 Figure 12.4.3

1PL03-TT-50427
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

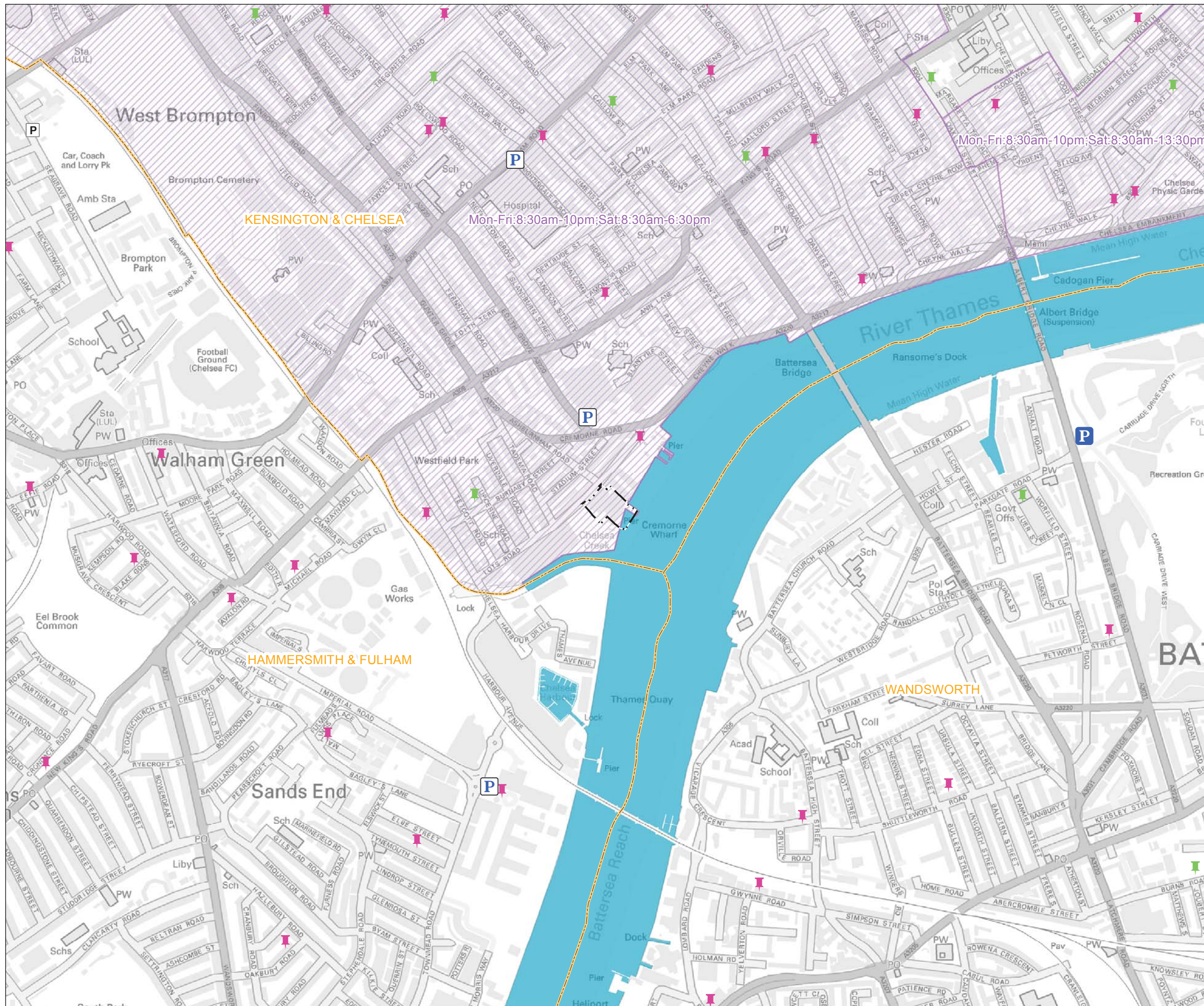


Keyplan:



Mon-Fri: 8:30am-10pm; Sat: 8:30am-13:30pm

Mon-Fri: 8:30am-10pm; Sat: 8:30am-6:30pm



Key

- Council parking
- Private car parking
- Coach Parking
- City Car
- Zip Car
- Controlled parking zones
- Limits of Land to be Acquired or Used
- Local authority boundary

110 55 0 110 m

Scale 1 : 7,500 at A3

FOR INFORMATION

Location

Cremona Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement
Transport - parking

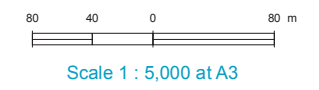
Vol.12 Figure 12.4.4
1PL03-TT-50435
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





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

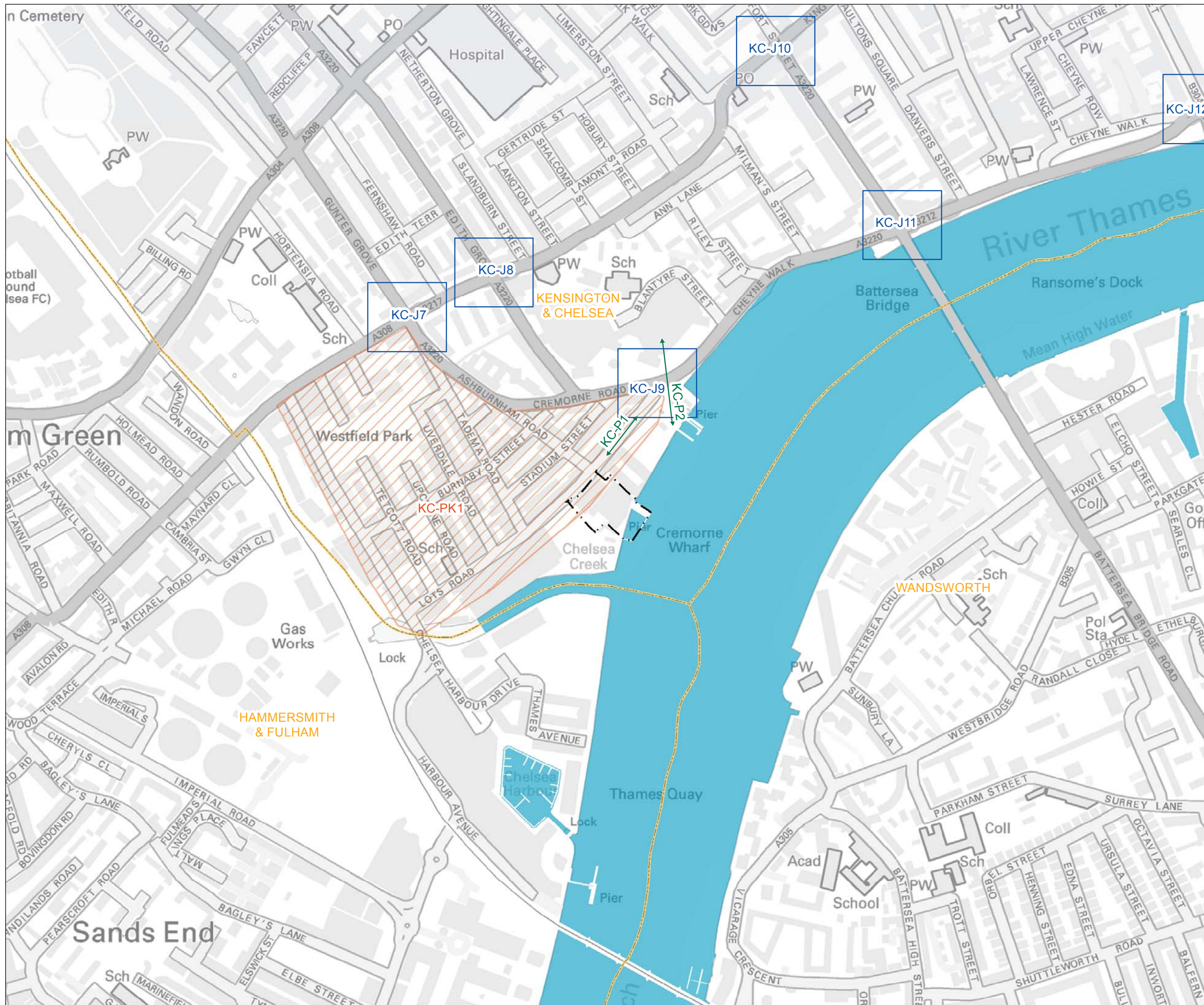


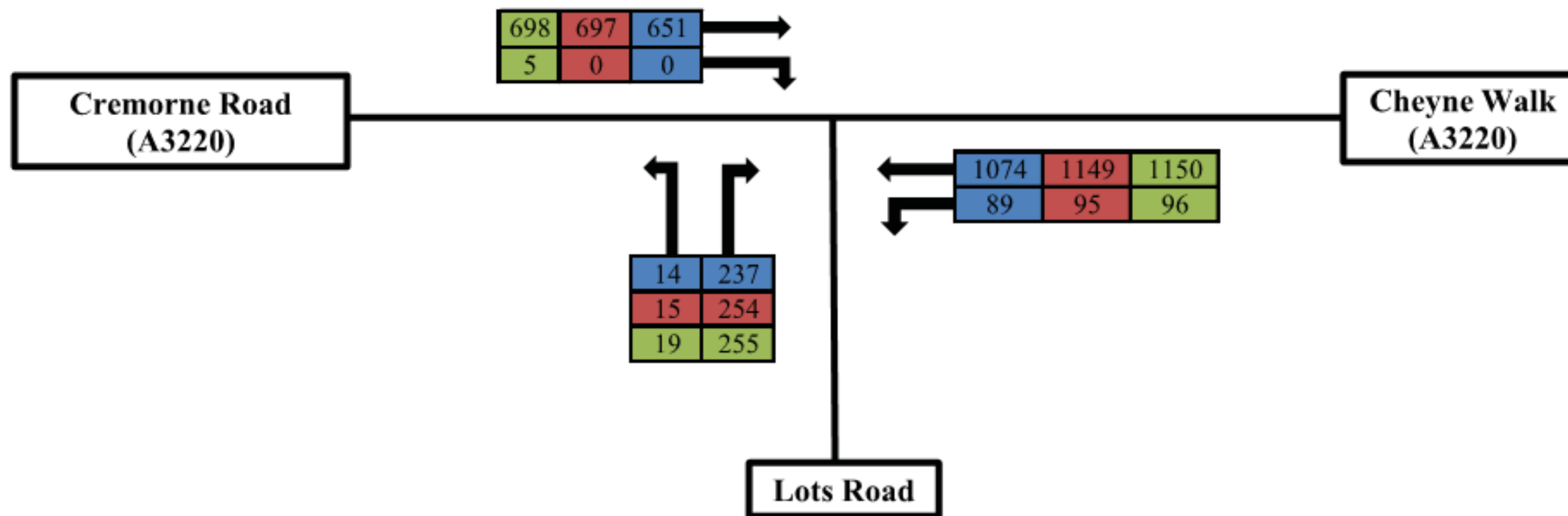
FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Transport - survey locations

Vol.12 Figure 12.4.5
 1PL03-TT-50443
 January 2013





Key

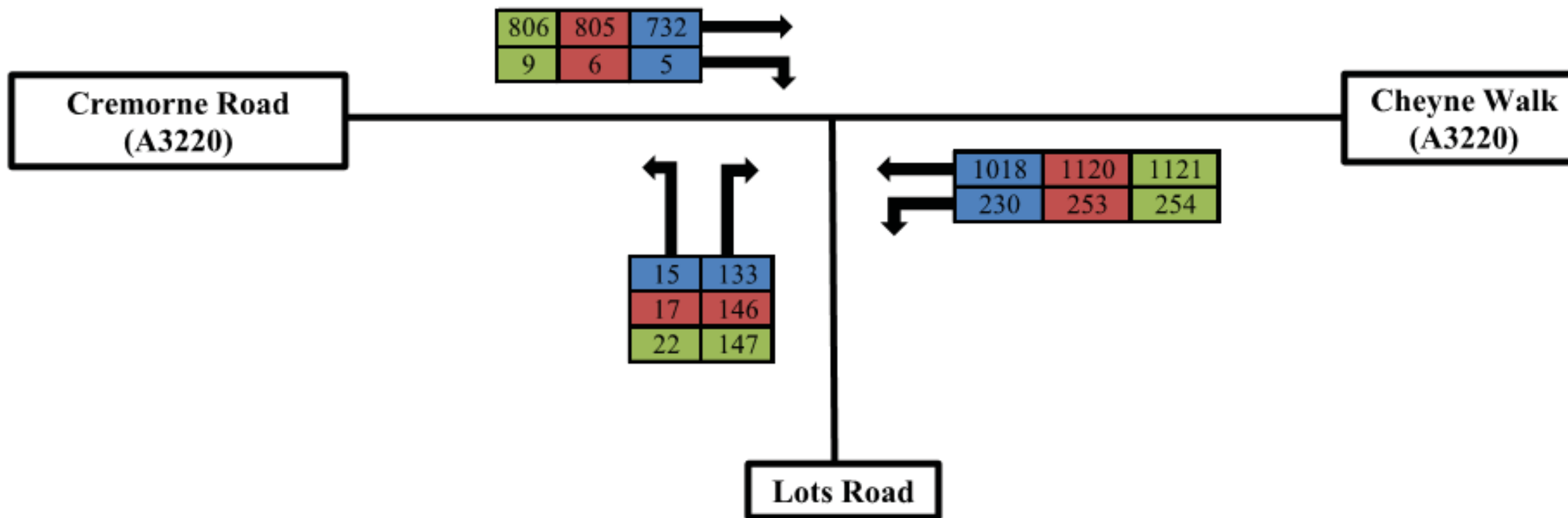
- Base Traffic Flow
- Construction Base
- Development Case

FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Transport - Baseline, Construction and Development case traffic flow (AM peak hour)
 Vol.12 Figure 12.4.6
 1PL03-TT-50854
 January 2013





Key

- Base Traffic Flow (Blue)
- Construction Base (Red)
- Development Case (Green)

FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

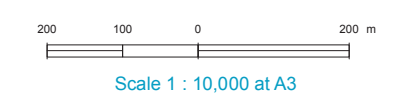
Document Information
Environmental Statement
 Transport - Baseline, Construction and Development case traffic flow (PM peak hour)
 Vol.12 Figure 12.4.7
 1PL03-TT-50878
 January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



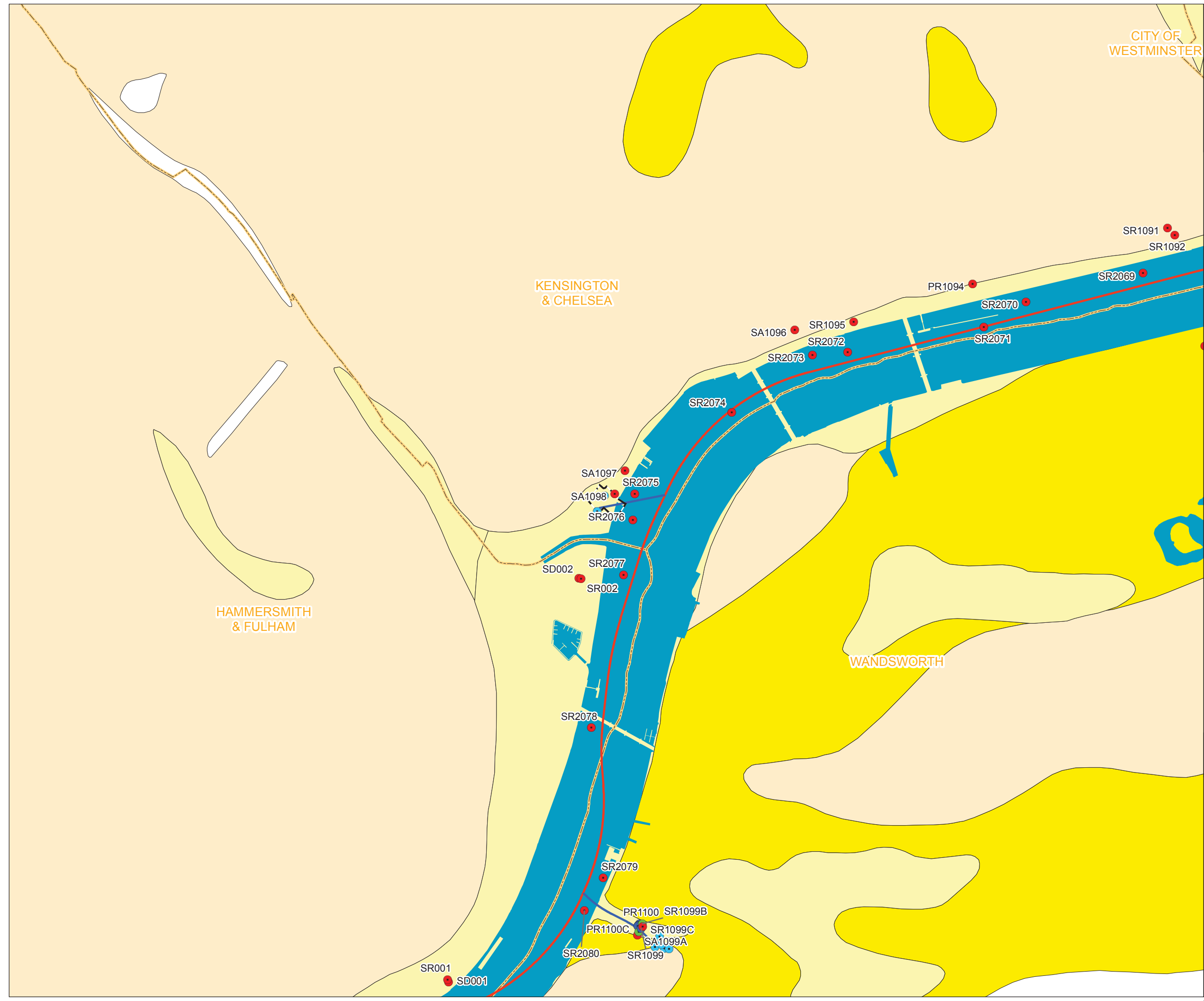
- Key**
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection Tunnel
 - Local Authority Boundary
 - Drilled Boreholes
 - Depth (m)
 - 0 - 10
 - 10 - 30
 - 30+
 - Proposed Boreholes
 - Land
 - Superficial Geology
 - Alluvium
 - Kempton Park Gravel Member
 - Langley Silt Member



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

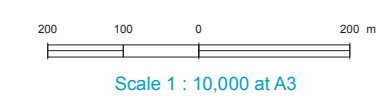
Document Information
Environmental Statement
 Water resources – groundwater - superficial geology
 Vol.12 Figure 13.4.1
 1PL03-WR-20135
 January 2013



Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key**
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection Tunnel
 - Local Authority Boundary
 - Drilled Boreholes
 - Depth (m)
 - 0 - 10
 - 10 - 30
 - 30+
 - Proposed Boreholes
 - Land
 - EA Chalk Piezometric Level (mATD) - Jan 11
 - Solid Geology
 - London Clay Formation



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

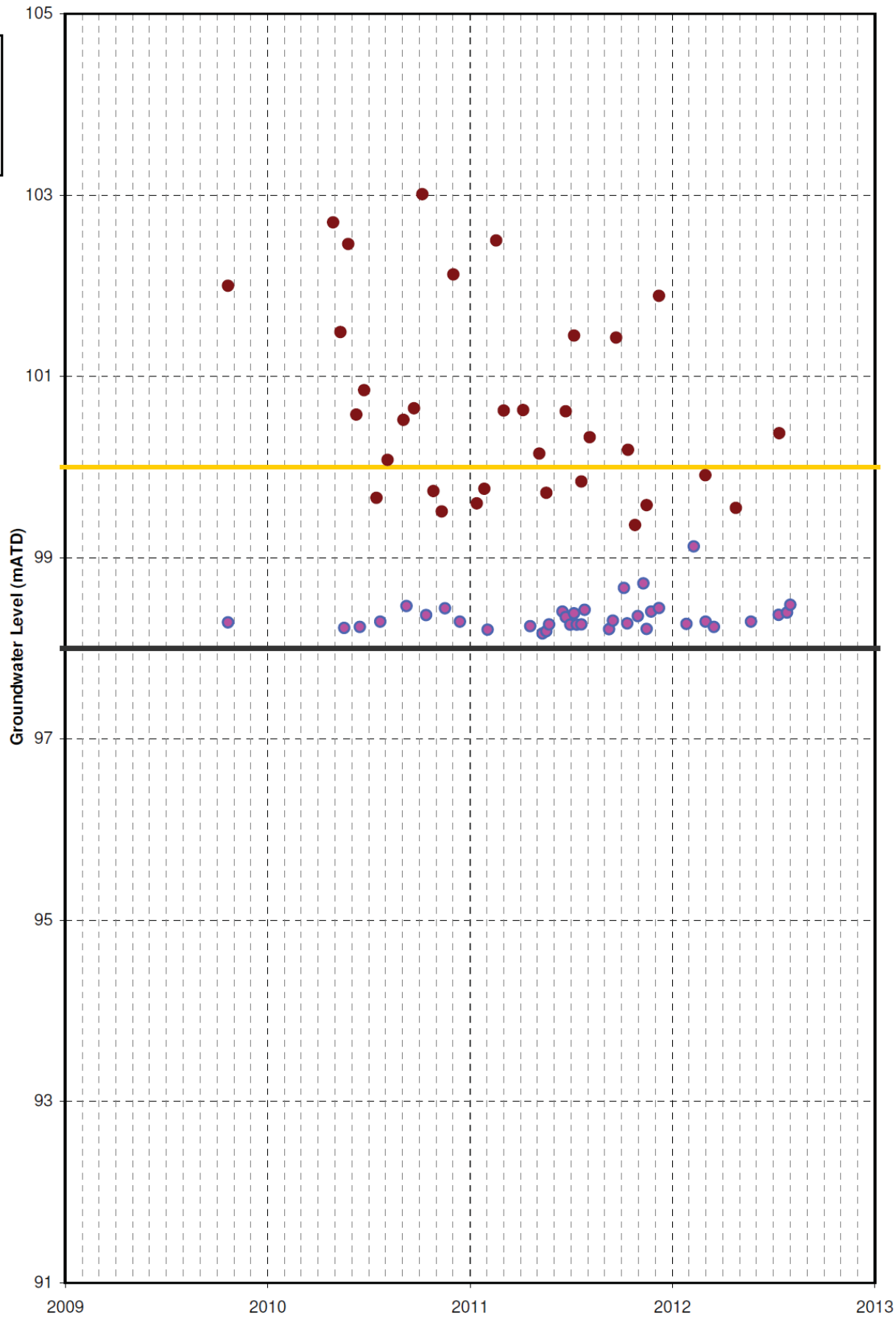
Document Information
Environmental Statement
 Water resources – groundwater - solid geology
 Vol.12 Figure 13.4.2
 1PL03-WR-20136
 January 2013



Geology at the Shaft Site

River Terrace Deposits

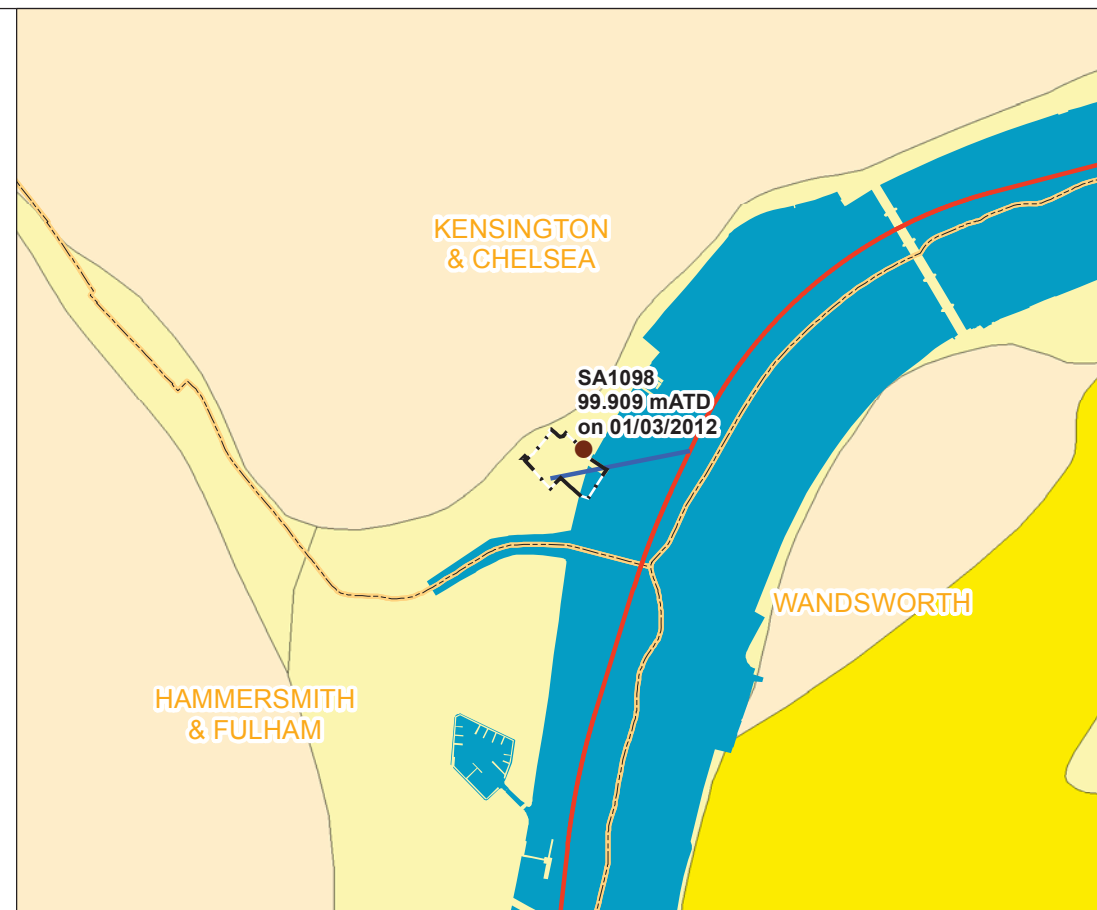
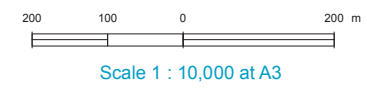
London Clay



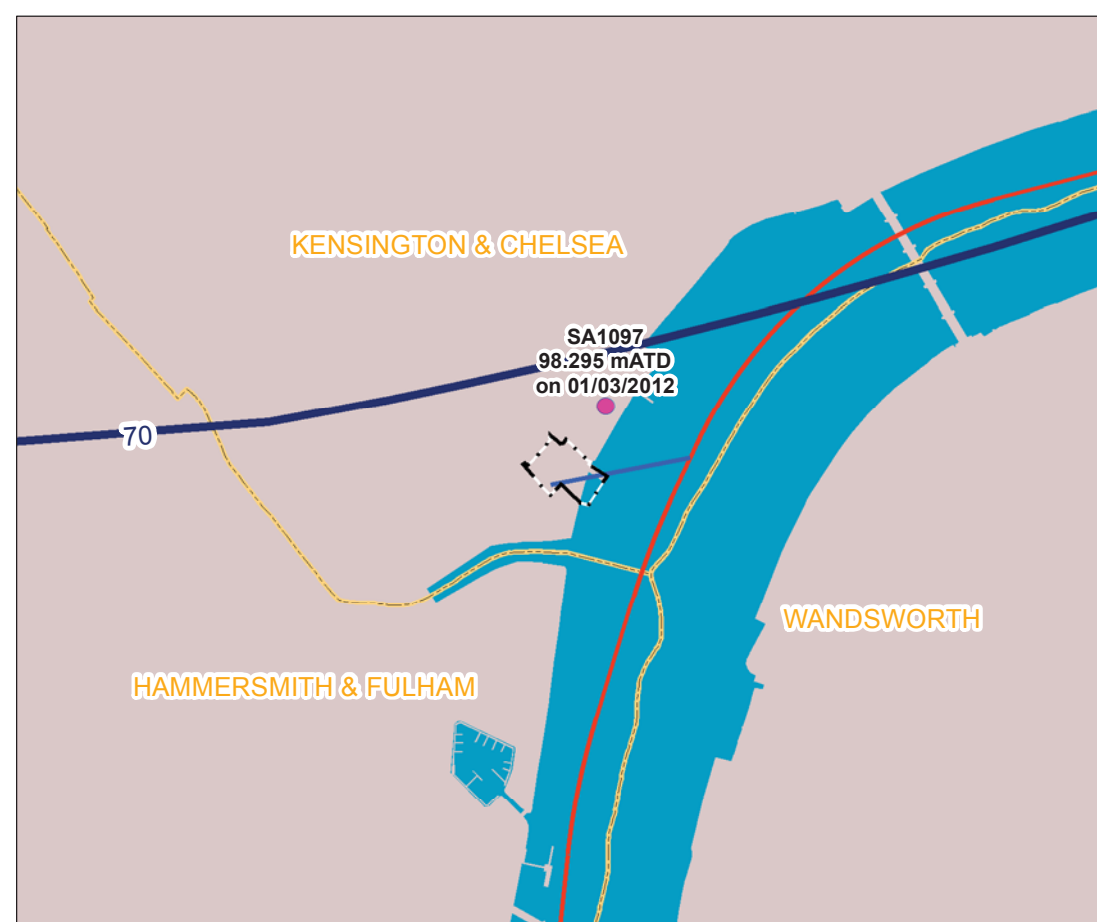
Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection Tunnel
 - Local Authority Boundary
 - Drilled Boreholes Upper Aquifer Water Levels
 - SA1098
 - Drilled Boreholes Lower Aquifer Water Levels
 - SA1097
 - EA Chalk Piezometric Level (mATD) - Jan 11
 -
 - Superficial Geology
 - Alluvium
 - Kempton Park Gravel Member
 - Langley Silt Member
 - Solid Geology
 - London Clay Formation



Upper aquifer monitoring locations



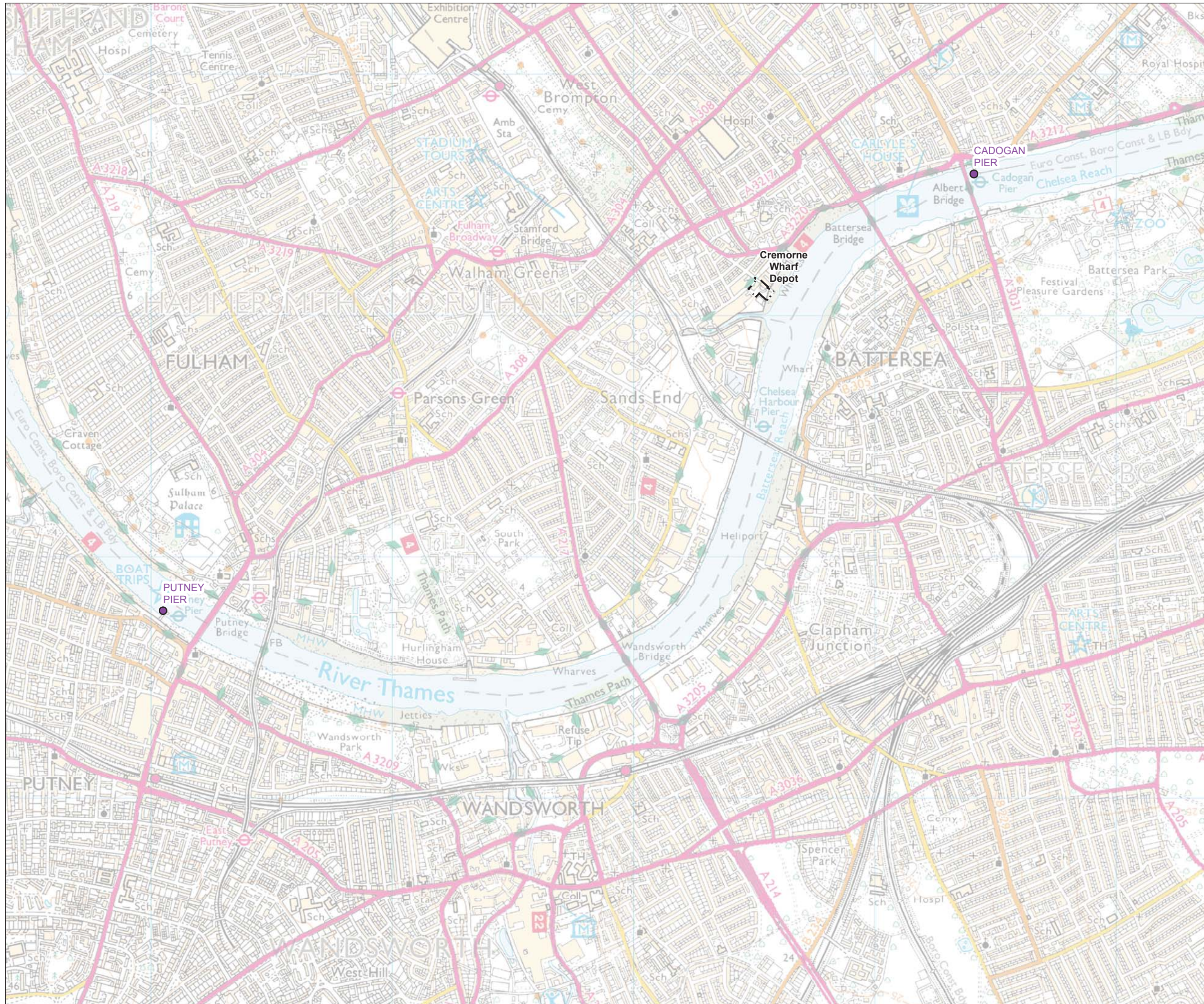
Lower aquifer monitoring locations

FOR INFORMATION

Location
 Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Water resources – groundwater - monitoring locations
 Vol.12 Figure 13.4.3
 1PL03-WR-20137
 January 2013

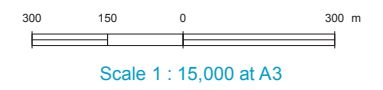




Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- Key
- Limits of Land to be Acquired or Used
 - Automatic Quality Monitoring Station Locations

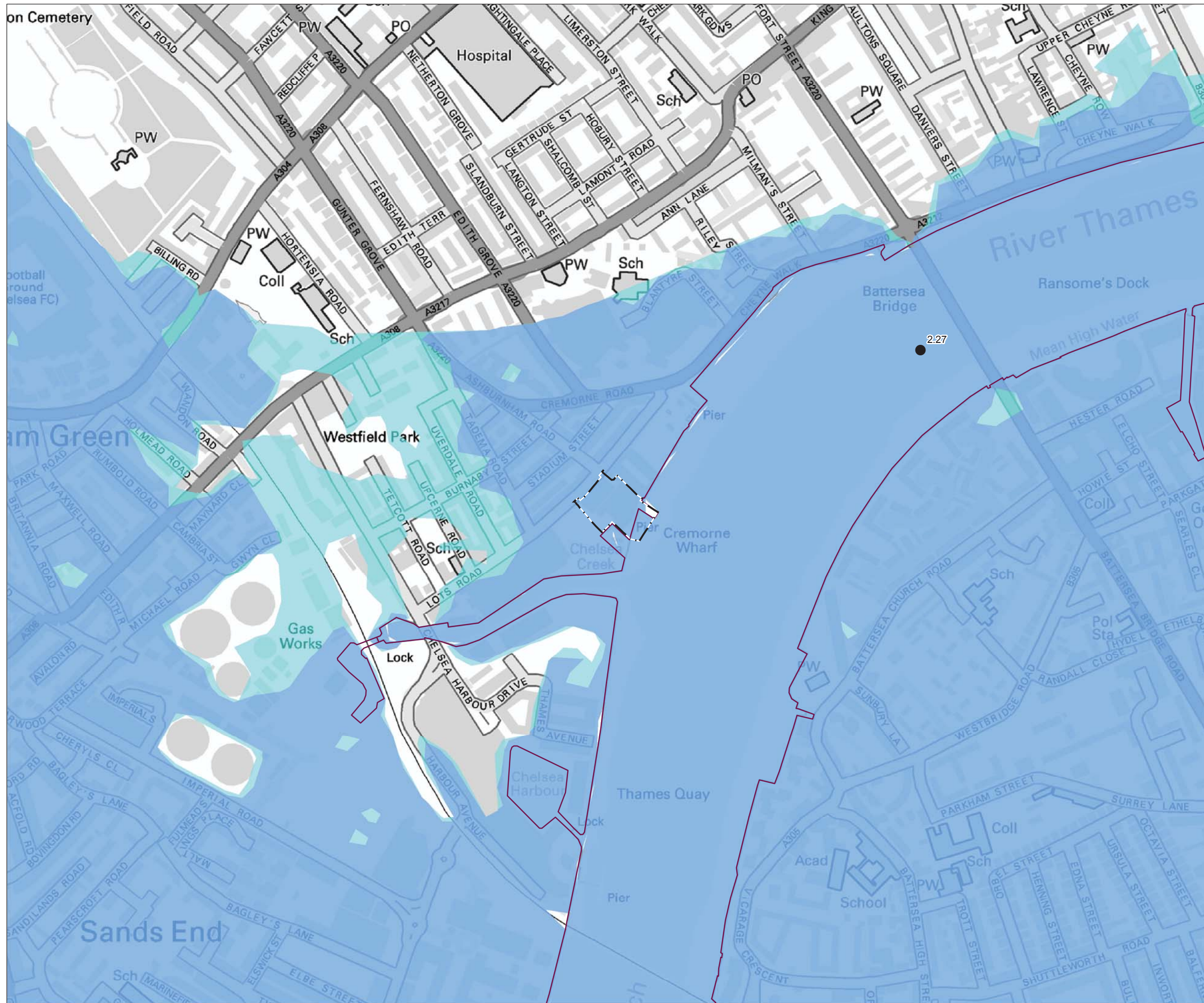


FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Water resources - surface water - water quality monitoring points
 Vol.12 Figure 14.4.1
 1PL03-WR-21009
 January 2013

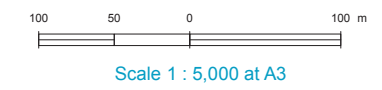




Mapping reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown Copyright and Database right 2012. All rights reserved. Ordnance Survey licence number 100019345



- 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
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

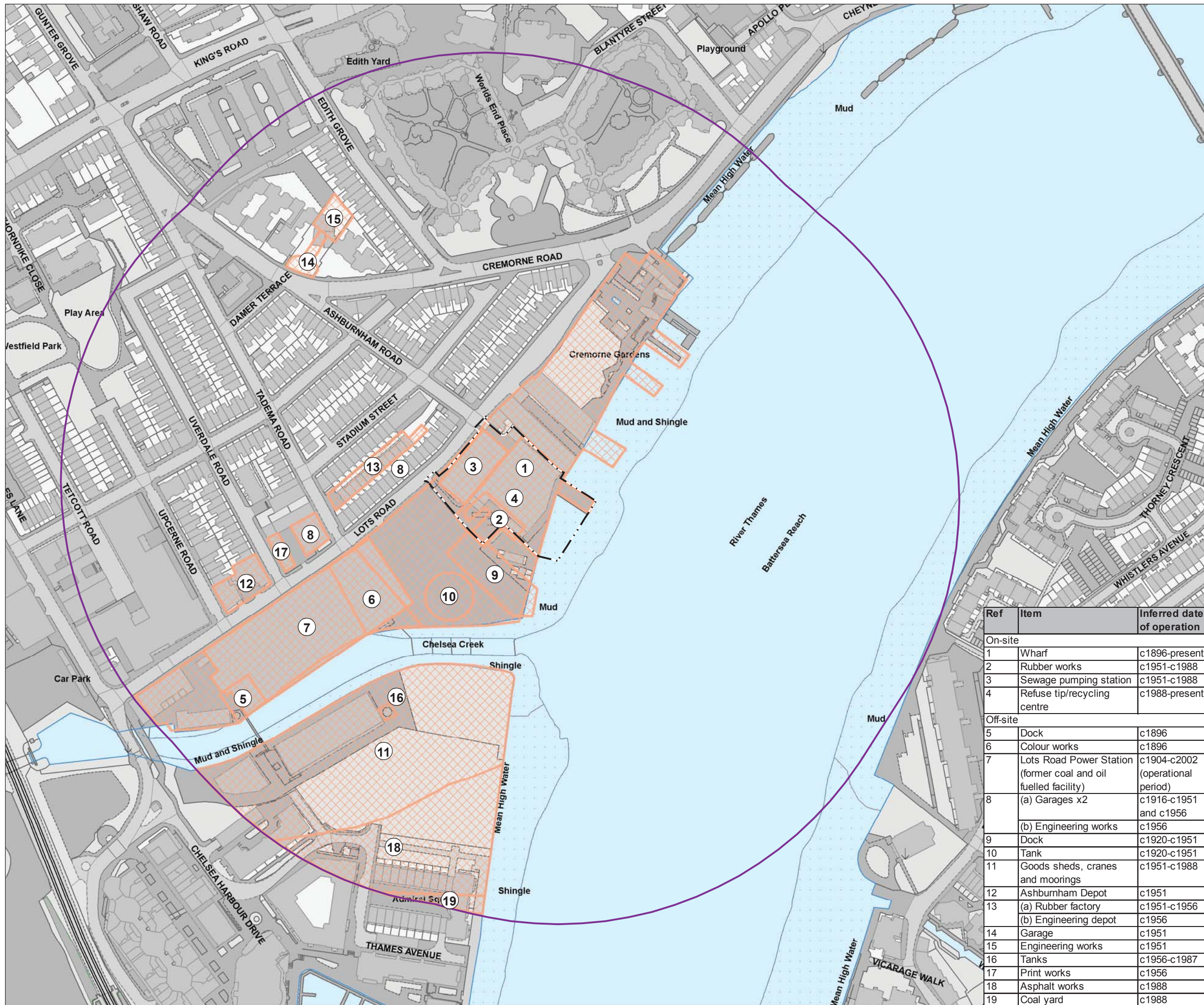
Document Information
Environmental Statement
 Flood risk - EA flood zones

Vol.12 Figure 15.3.1
 1PL03-FL-20136
 January 2013

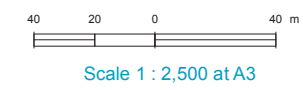




- Key**
- Limits of Land
 - - - to be Acquired or Used
 - Limit of Land 250m Buffer
 - ▨ Potentially Contaminating Land-Uses



Ref	Item	Inferred date of operation
On-site		
1	Wharf	c1896-present
2	Rubber works	c1951-c1988
3	Sewage pumping station	c1951-c1988
4	Refuse tip/recycling centre	c1988-present
Off-site		
5	Dock	c1896
6	Colour works	c1896
7	Lots Road Power Station (former coal and oil fuelled facility)	c1904-c2002 (operational period)
8	(a) Garages x2	c1916-c1951 and c1956
	(b) Engineering works	c1956
9	Dock	c1920-c1951
10	Tank	c1920-c1951
11	Goods sheds, cranes and moorings	c1951-c1988
12	Ashburnham Depot	c1951
13	(a) Rubber factory	c1951-c1956
	(b) Engineering depot	c1956
14	Garage	c1951
15	Engineering works	c1951
16	Tanks	c1956-c1987
17	Print works	c1956
18	Asphalt works	c1988
19	Coal yard	c1988



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Land quality - potentially contaminating land-uses
 Vol.12 Figure F.1.1
 1PL03-LQ-30079
 January 2013



Keyplan:



Key

Drilled Boreholes

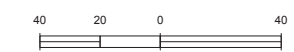
Depth (m)

- 0 - 10
- 10 - 30
- 30+

--- Limits of Land

--- to be Acquired or Used

□ Limit of Land 250m Buffer



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

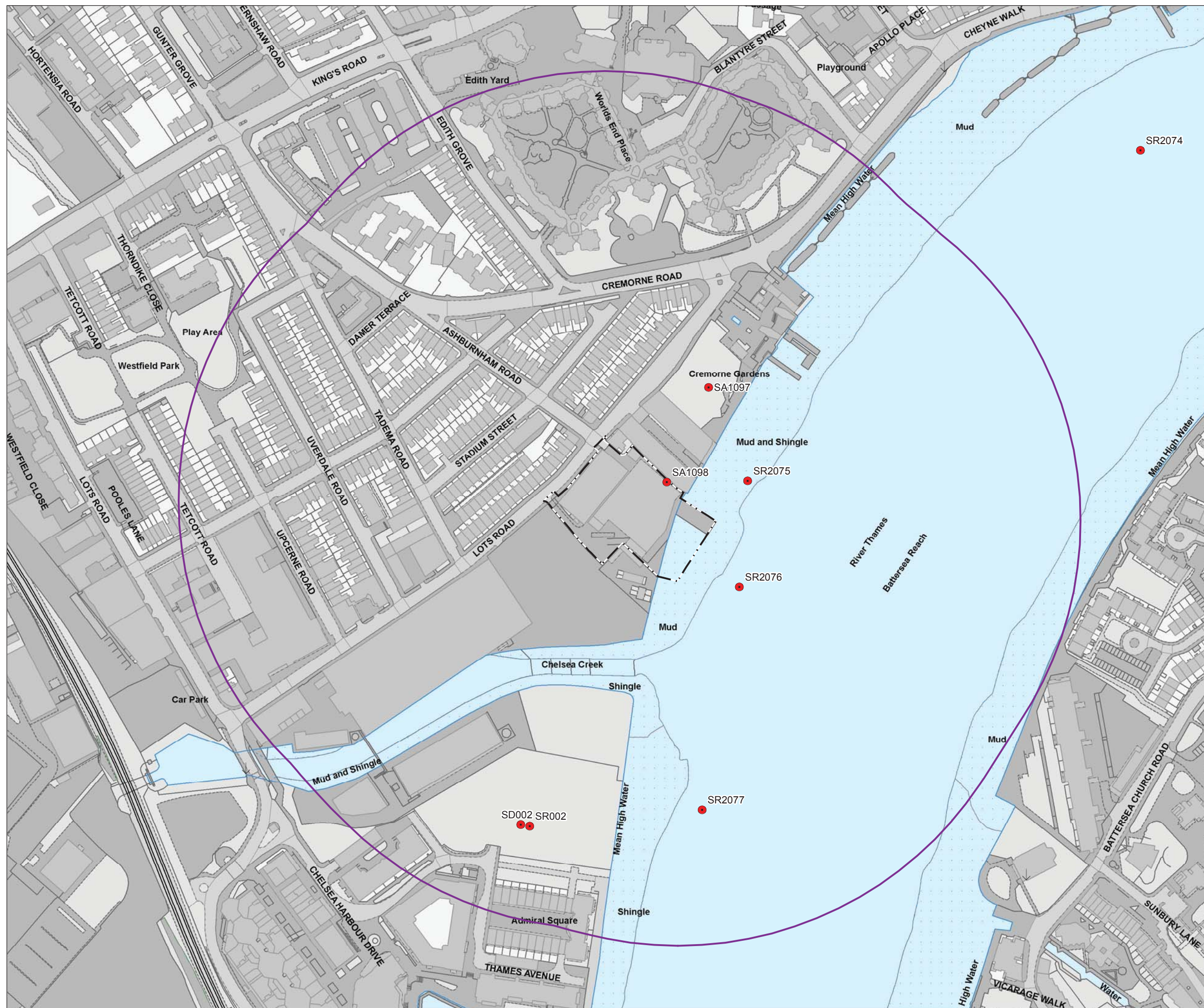
Environmental Statement

Land quality - borehole locations

Vol.12 Figure F.1.2

1PL03-LQ-30080

January 2013



Keyplan:



Key

- Limits of Land to be Acquired or Used
- Limit of Land 250m Buffer

Waste

- Licensed Waste Management Facilities
- 🗑️ Registered Landfill Sites
- ⚠️ Past Potential Contaminated Industrial Uses
- 🚚 Historical Landfill Sites

Hazards

- Pollution Incidents to Controlled Waters
- LA Pollution Prevention & Controls
- ⚠️ Past Potentially Contaminated Industrial Uses



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Cremorne Wharf Depot
Royal Borough of Kensington and Chelsea

Document Information

Environmental Statement

Land quality - hazard and waste sites

Vol.12 Figure F.1.3

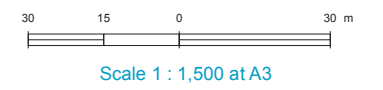
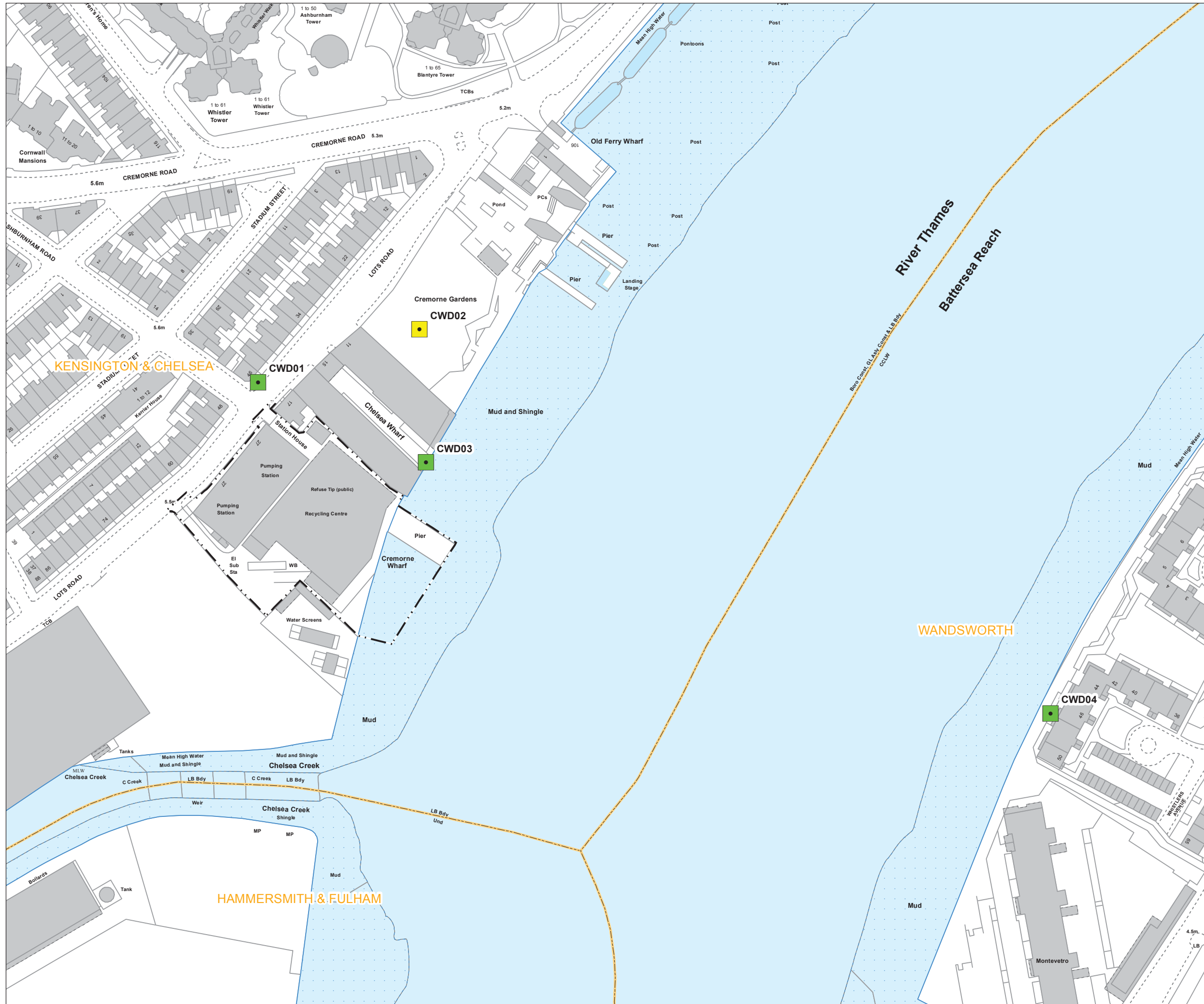
1PL03-LQ-30081

January 2013





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



FOR INFORMATION

Location
Cremorne Wharf Depot
 Royal Borough of Kensington and Chelsea

Document Information
Environmental Statement
 Noise and vibration - noise survey locations

Vol.12 Figure G.1
 1PL03-NV-40108
 January 2013



This page is intentionally left blank

Copyright notice

Copyright © Thames Water Utilities Limited January 2013.
All rights reserved.

Any plans, drawings, designs and materials (materials) submitted by Thames Water Utilities Limited (Thames Water) as part of this application for Development Consent to the Planning Inspectorate are protected by copyright. You may only use this material (including making copies of it) in order to (a) inspect those plans, drawings, designs and materials at a more convenient time or place; or (b) to facilitate the exercise of a right to participate in the pre-examination or examination stages of the application which is available under the Planning Act 2008 and related regulations. Use for any other purpose is prohibited and further copies must not be made without the prior written consent of Thames Water.

Thames Water Utilities Limited

Clearwater Court, Vastern Road, Reading RG1 8DB

The Thames Water logo and Thames Tideway Tunnel logo are © Thames Water Utilities Limited. All rights reserved.

DCO-DT-000-ZZZZZ-060212

