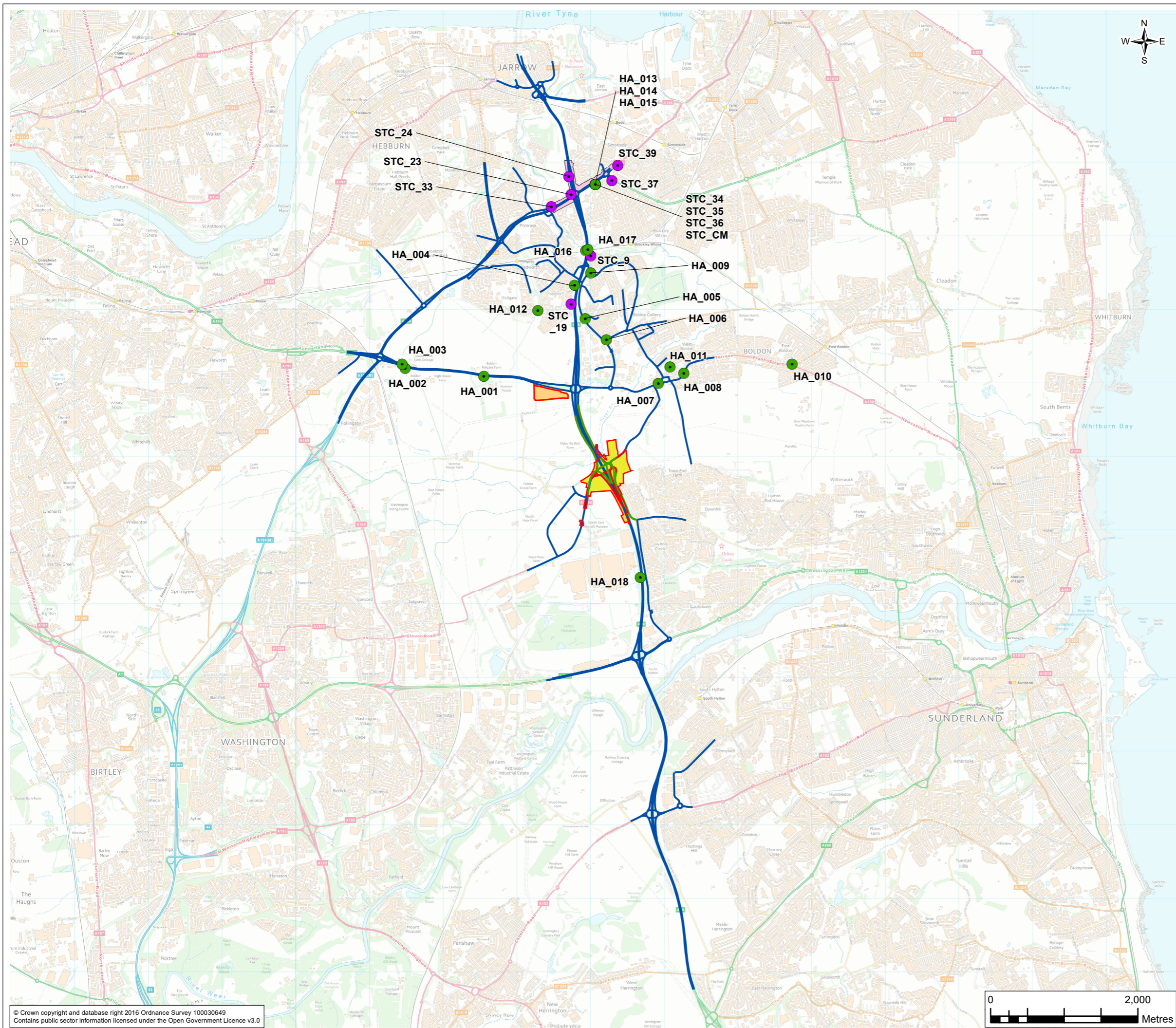


**FIGURE 6.1**



**Legend**

- DCO Boundary
- Land over which rights of way permanently extinguished or reinstated (see Note 1)
- Testo's main site compound – shared use option area
- Permanent and temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
- Modelled Road Network
- Highways England Monitoring Locations
- South Tyneside Council Monitoring Locations

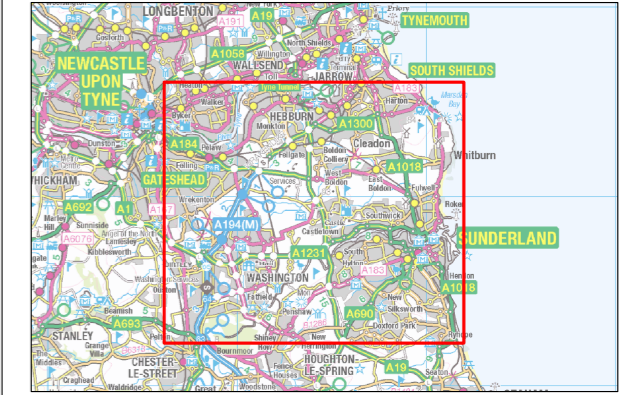
**Affected Road Links**

- Increase in traffic
- Decrease in traffic

**Air Quality Management Areas**

- Lindisfarne Roundabout

**Note:**  
 1. See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.



0	JAN 19	Application Issue	LT	AS	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

**JACOBS**  
 1 City Walk, Leeds, LS11 9DX, UK  
 Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389  
 www.jacobs.com

Client **highways england**

Project **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title **AIR QUALITY STUDY AREA AND MONITORING POINTS**

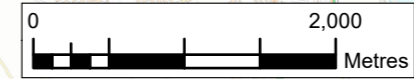
Drawing Status **DCO SUBMISSION**

Scale @ A3 **1:50,000** **DO NOT SCALE**

Jacobs No. **B0140301**

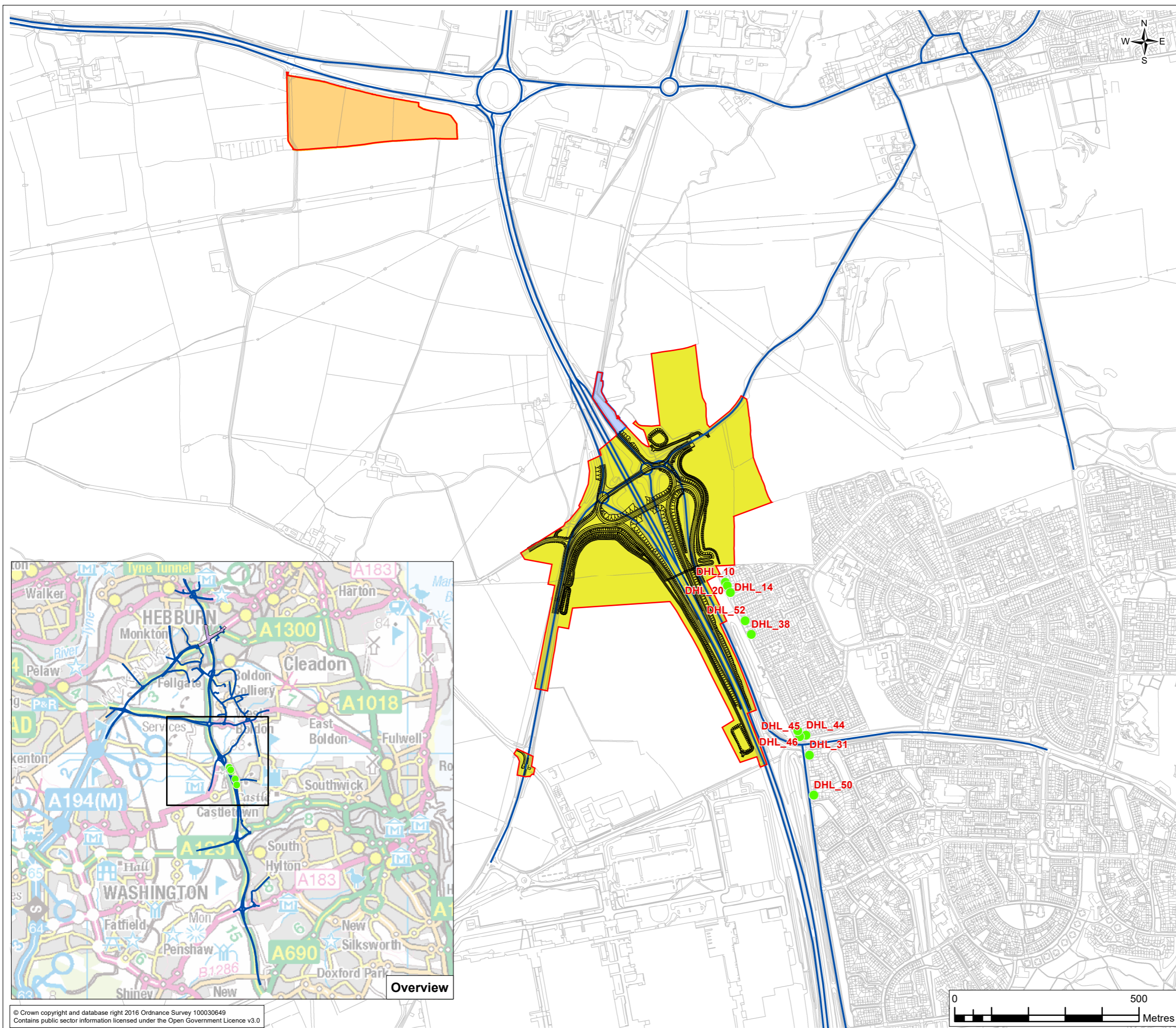
Client No. **B0140301\_DLJ\_ES\_0601**

Drawing No. **B0140301\_DLJ\_ES\_0601**





**FIGURE 6.2**



**Legend**

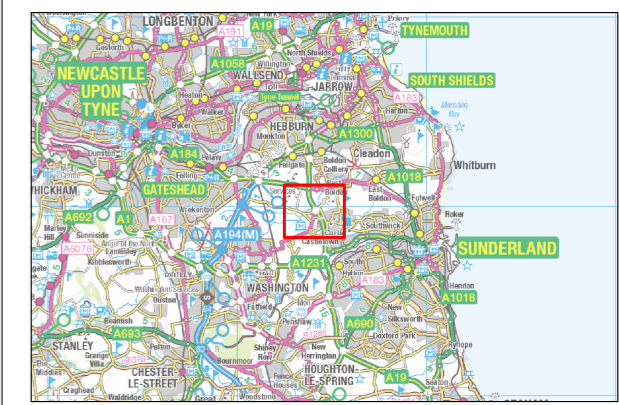
- DCO Boundary
- Land over which rights of way permanently extinguished or reinstated (see Note 1)
- Testo's main site compound – shared use option area
- Permanent and temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
- Preliminary Design
- Modelled Road Network



**Base 2012 Results: Annual Mean NO<sub>2</sub> (µg/m<sup>3</sup>)**

- < 10
- 10 - 20
- 20 - 30
- 30 - 40
- > 40

**DHL\_ Sensitive Receptor**

**Note:**  
 1. See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.



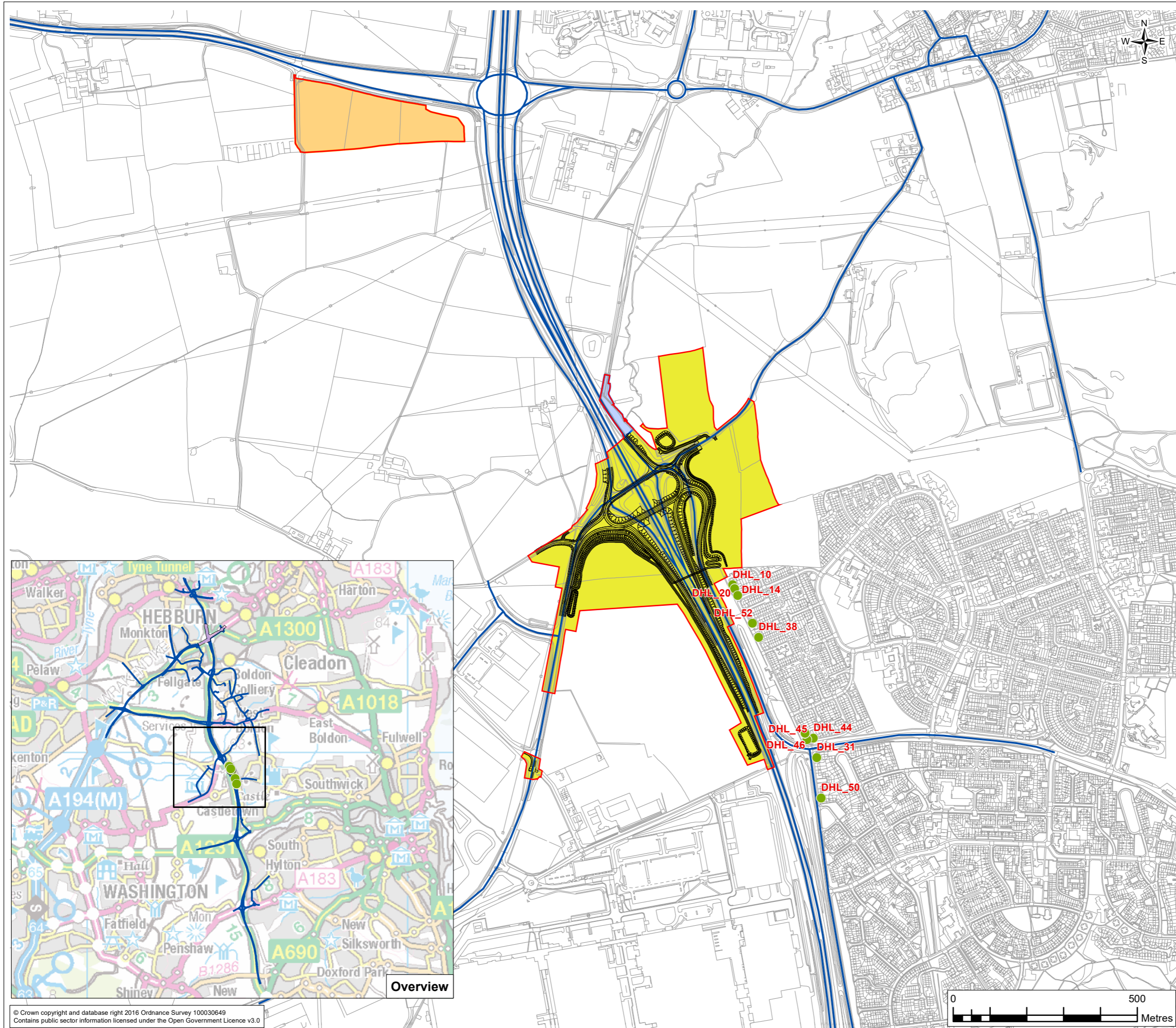
0	JAN 19	Application Issue	LT	AS	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
 1 City Walk, Leeds, LS11 9DX, UK. Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389 www.jacobs.com						
Client						
Project		A19 DOWNHILL LANE JUNCTION IMPROVEMENT				
Drawing Title		AIR QUALITY ASSESSMENT BASE 2012 NO <sub>2</sub> ANNUAL MEAN CONCENTRATION AT SENSITIVE RECEPTORS				
Drawing Status		DCO SUBMISSION				
Scale @ A3	1:10,000	DO NOT SCALE				
Jacobs No.	B0140301					
Client No.						
Drawing No.	B0140301_DLJ_ES_0602					
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

© Crown copyright and database right 2016 Ordnance Survey 100030649  
 Contains public sector information licensed under the Open Government Licence v3.0





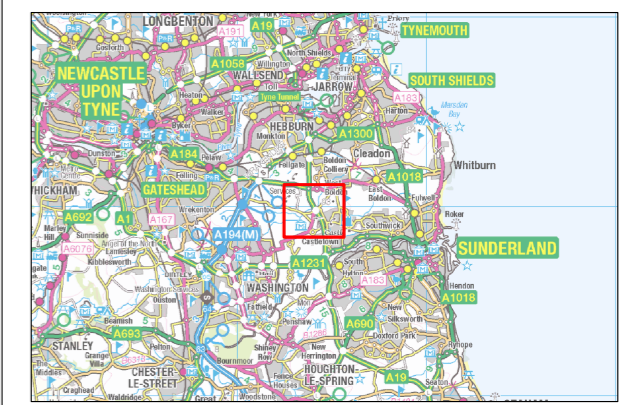
**FIGURE 6.3**



- Legend**
- DCO Boundary
  - Land over which rights of way permanently extinguished or reinstated (see Note 1)
  - Testo's main site compound – shared use option area
  - Permanent and temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
  - Preliminary Design
  - Modelled Road Network
- Do Minimum 2021 Results: Annual Mean  $NO_2$  ( $\mu g/m^3$ )**
- < 10
  - 30 - 40
  - 10 - 20
  - 40 >
  - 20 - 30
- DHL\_** Sensitive Receptor

**Note:**

- See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.
- The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.



0	JAN 19	Application Issue	LT	AS	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd



Client: **highways england**

Project: **A19 DOWNHILL LANE JUNCTION IMPROVEMENT**

Drawing Title: **AIR QUALITY ASSESSMENT DO MINIMUM 2021:  $NO_2$  ANNUAL MEAN CONCENTRATION AT SENSITIVE RECEPTORS**

Drawing Status: **DCO SUBMISSION**

Scale @ A3: **1:10,000** DO NOT SCALE

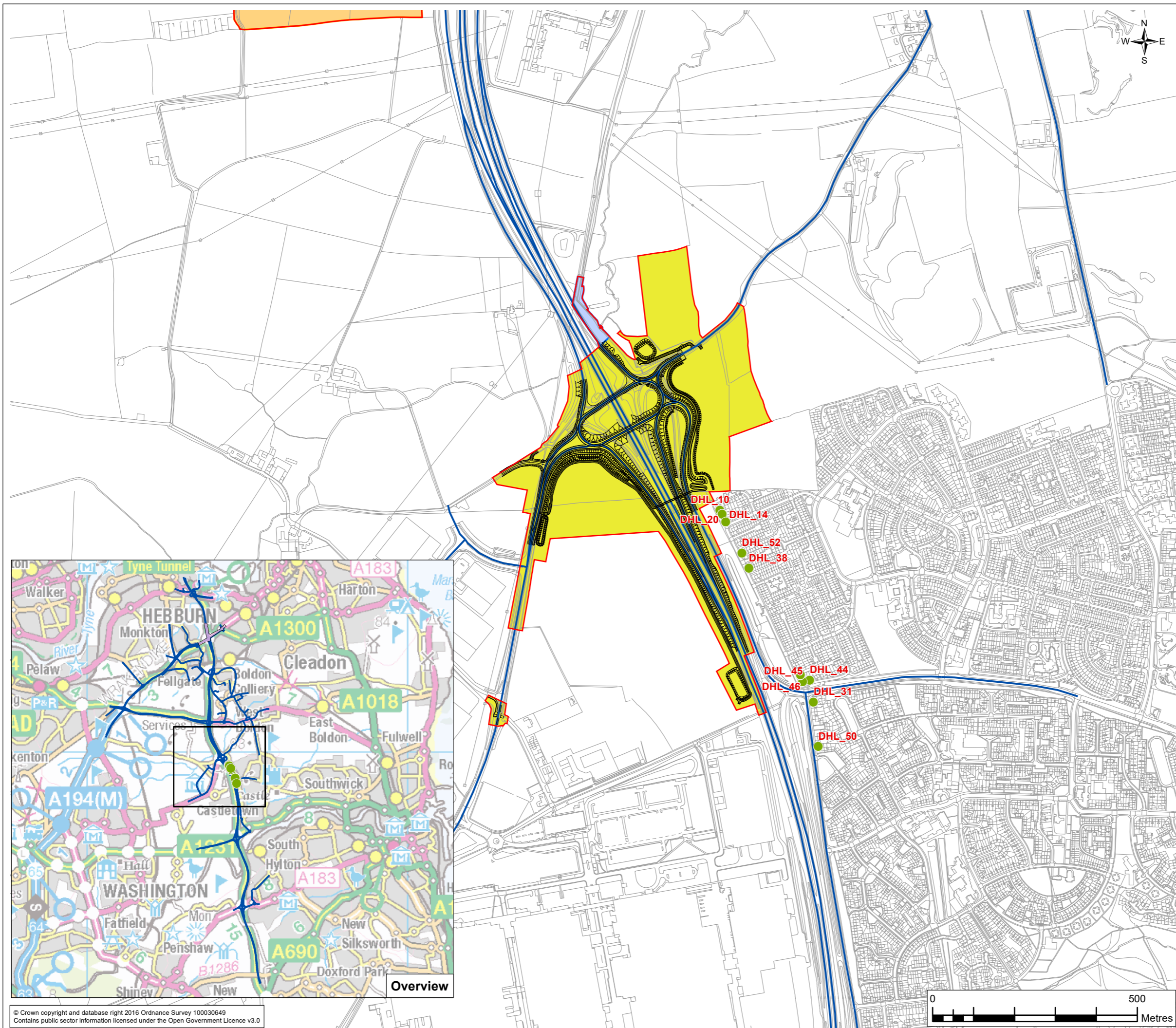
Jacobs No.: **B0140301**

Drawing No.: **B0140301\_DLJ\_ES\_0603**

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



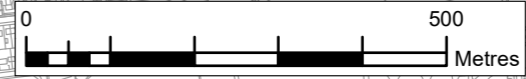
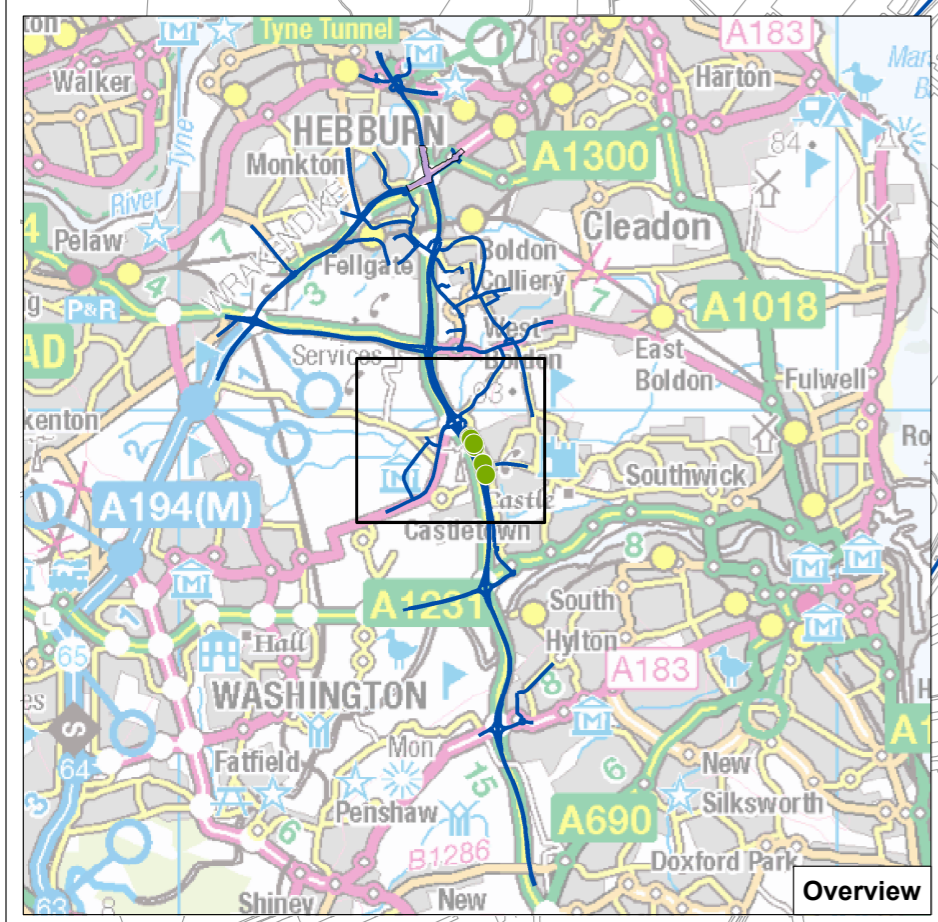
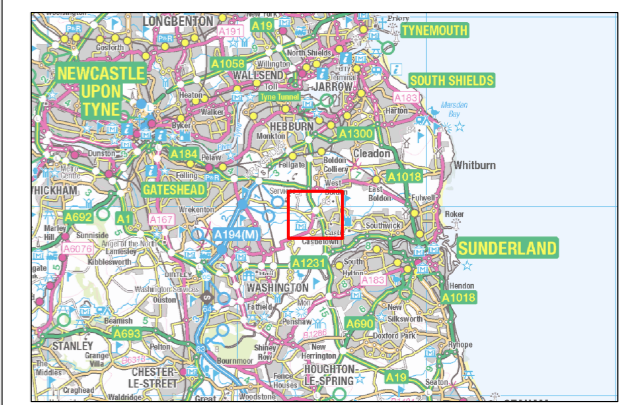
**FIGURE 6.4**





- Legend**
- DCO Boundary
  - Land over which rights of way permanently extinguished or reinstated (see Note 1)
  - Testo's main site compound – shared use option area
  - Permanent and temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
  - Preliminary Design
  - Modelled Road Network
- Do Something 2021 Results: Annual Mean NO<sub>2</sub> (ug/m<sup>3</sup>)**
- < 10
  - 30 - 40
  - 10 - 20
  - 40 >
  - 20 - 30
- DHL\_ Sensitive Receptor**

**Note:**

- See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.
- The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.

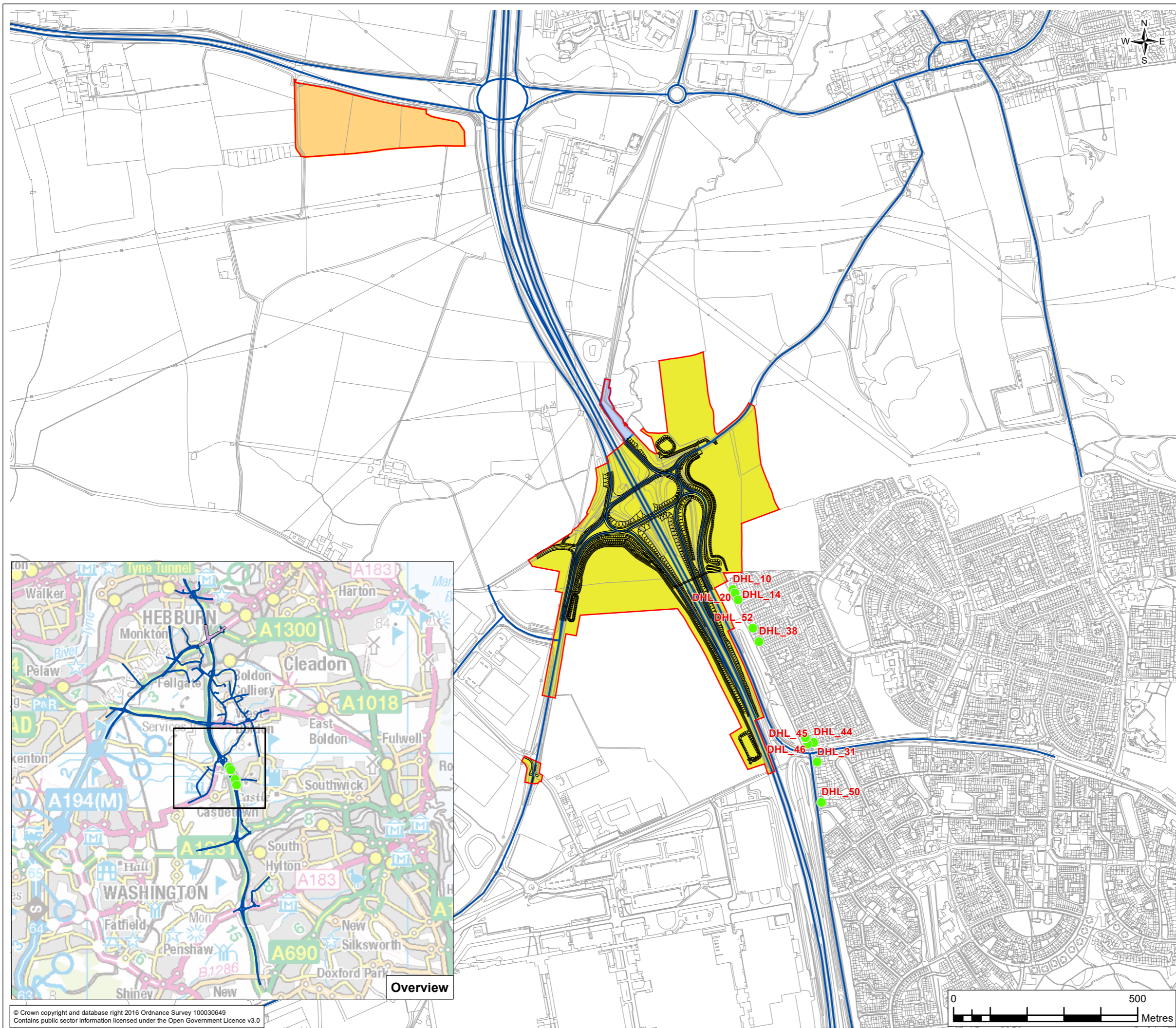


© Crown copyright and database right 2016 Ordnance Survey 100030649  
Contains public sector information licensed under the Open Government Licence v3.0

0	JAN 19	Application Issue	LT	AS	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
 1 City Walk, Leeds, LS11 9DX, UK Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389 www.jacobs.com						
Client						
Project						
A19 DOWNHILL LANE JUNCTION IMPROVEMENT						
Drawing Title						
AIR QUALITY ASSESSMENT DO SOMETHING 2021: NO <sub>2</sub> ANNUAL MEAN CONCENTRATION AT SENSITIVE RECEPTORS						
Drawing Status						
DCO SUBMISSION						
Scale @ A3		1:9,000	DO NOT SCALE			
Jacobs No.		B0140301				
Client No.						
Drawing No.		B0140301_DLJ_ES_0604				
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						



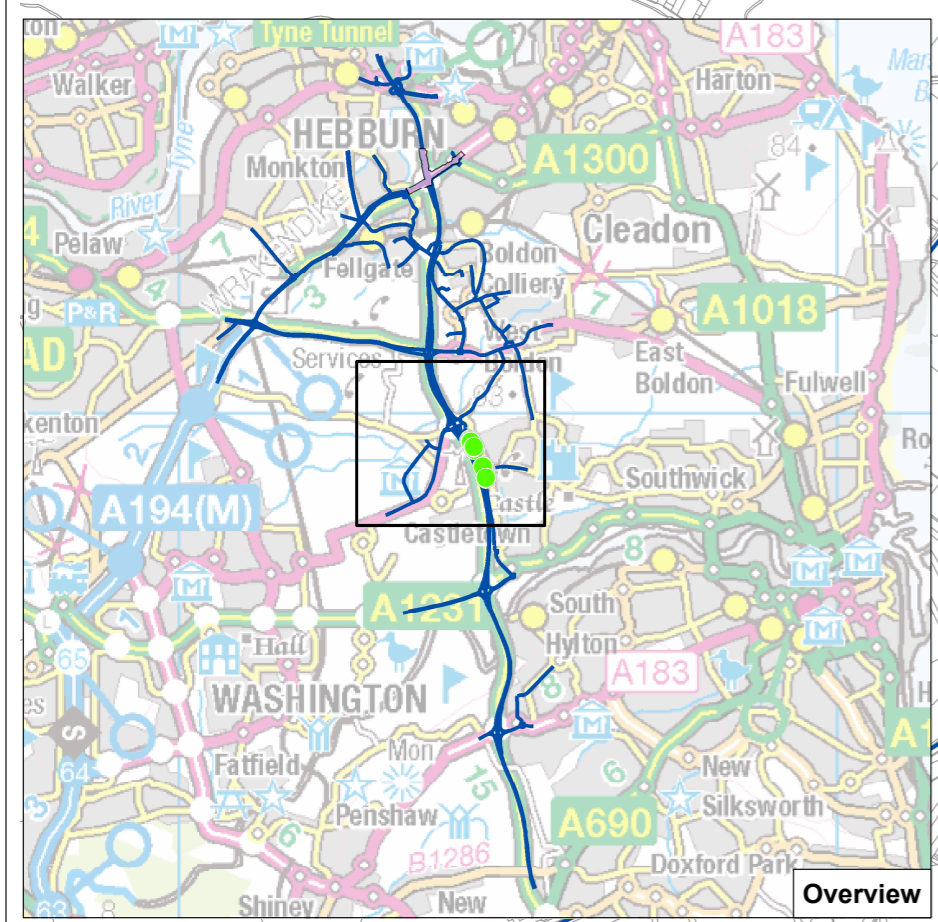
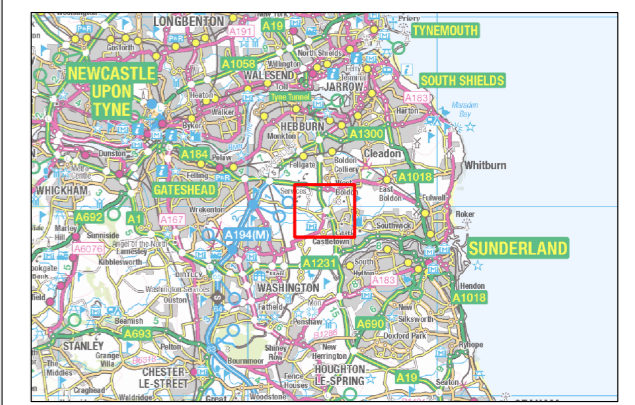
**FIGURE 6.5**



- Legend**
- DCO Boundary
  - Land over which rights of way permanently extinguished or reinstated (see Note 1)
  - Testo's main site compound – shared use option area
  - Permanent and temporary land take excluding Testo's compound and Testo's B46 NMU areas (see Note 1)
  - Preliminary Design
  - Modelled Road Network
- Change in Annual Mean NO<sub>2</sub> (ug/m<sup>3</sup>)**
- < -4
  - 0.4 - 2
  - -4 - -2
  - 2 - 4
  - -2 - -0.4
  - > 4
  - -0.4 - 0.4
- DHL\_ Sensitive Receptor**

**Note:**



- See section 1.5 in document TR010024/APP/6.1 (Volume 6) and document TR010024/APP/7.5.
- The Ordnance Survey background displayed in this drawing has been modified to show the neighbouring Testo's and IAMP One consented schemes. This reflects the most likely baseline scenario for the opening year of the Downhill Lane scheme.



**Overview**

© Crown copyright and database right 2016 Ordnance Survey 100030649  
Contains public sector information licensed under the Open Government Licence v3.0



0	JAN 19	Application Issue	LT	AS	MR	GW
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
 1 City Walk, Leeds, LS11 9DX, UK Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389 www.jacobs.com						
Client						
Project		A19 DOWNHILL LANE JUNCTION IMPROVEMENT				
Drawing Title		AIR QUALITY ASSESSMENT CHANGE IN NO <sub>2</sub> ANNUAL MEAN CONCENTRATION AT SENSITIVE RECEPTORS (DM V DS)				
Drawing Status		DCO SUBMISSION				
Scale @ A3	1:10,000	DO NOT SCALE				
Jacobs No.	B0140301					
Client No.						
Drawing No.	B0140301_DLJ_ES_0605					
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						