

# Northern Line Extension

## Kennington Park & Newington

### Community Liaison Group

#### 4 July 2016

Delivering the Northern line extension with

ferrovial  
agroman



MAYOR OF LONDON



# Kennington Park April - June 2016

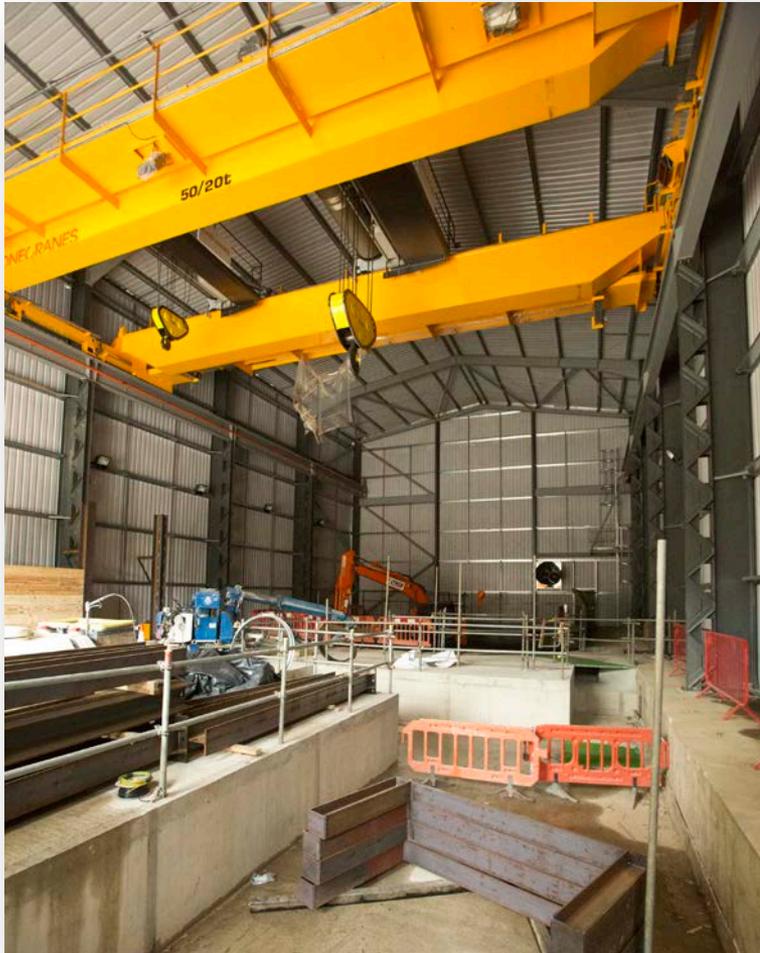
- Installation of de-watering wells around the shafts and basement
- Installation of the acoustic enclosure
- Delivery of the gantry crane and tunnelling equipment
- Completion of capping of the site with concrete



# Kennington Park April – June 2016



FERROVIAL AGROMAN  
LAING O'ROURKE JV



# Look Ahead Jul - Oct 2016

- Completion and commissioning of the acoustic enclosure
- Commence shaft excavation
- Commence Sprayed Concrete Lining (SCL) tunnelling – 24/7 works
- On going monitoring equipment installation and PCD surveys



# Temporary Noise Enclosure



| Receptor | Acoustic Enclosure Noise attenuation predictions $L_{Aeq}$ (dB) |                          |                               |
|----------|---|--------------------------|-------------------------------|
|          | No enclosure  | With door open (daytime) | With door closed (night time) |
| KP1      | 65  | 34                       | 32                            |
| KP2      | 69  | 38                       | 36                            |
| KP3      | 65  | 63                       | 42                            |



# Kennington Park Update March - May 2016

## Environmental Monitoring

### Noise

- 2 unattended continuous noise monitors and attended monitoring

### Dust

- 2 unattended continuous dust monitors
- 6 dust slide locations

### Vibration

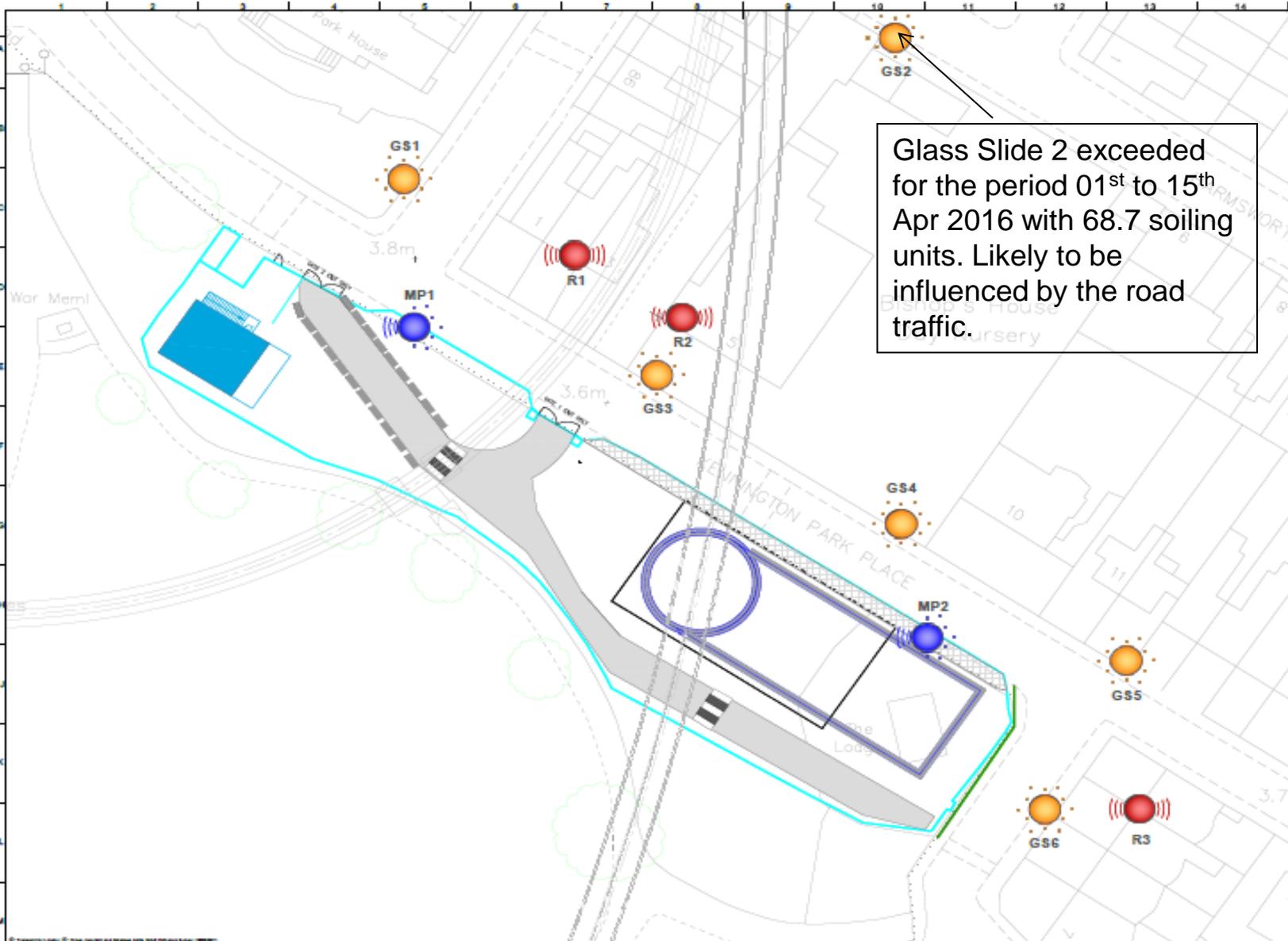
- Piling works completed

## Monitoring Results Summary

- 0 noise exceedances
- 1 dust slide exceedance at GS2

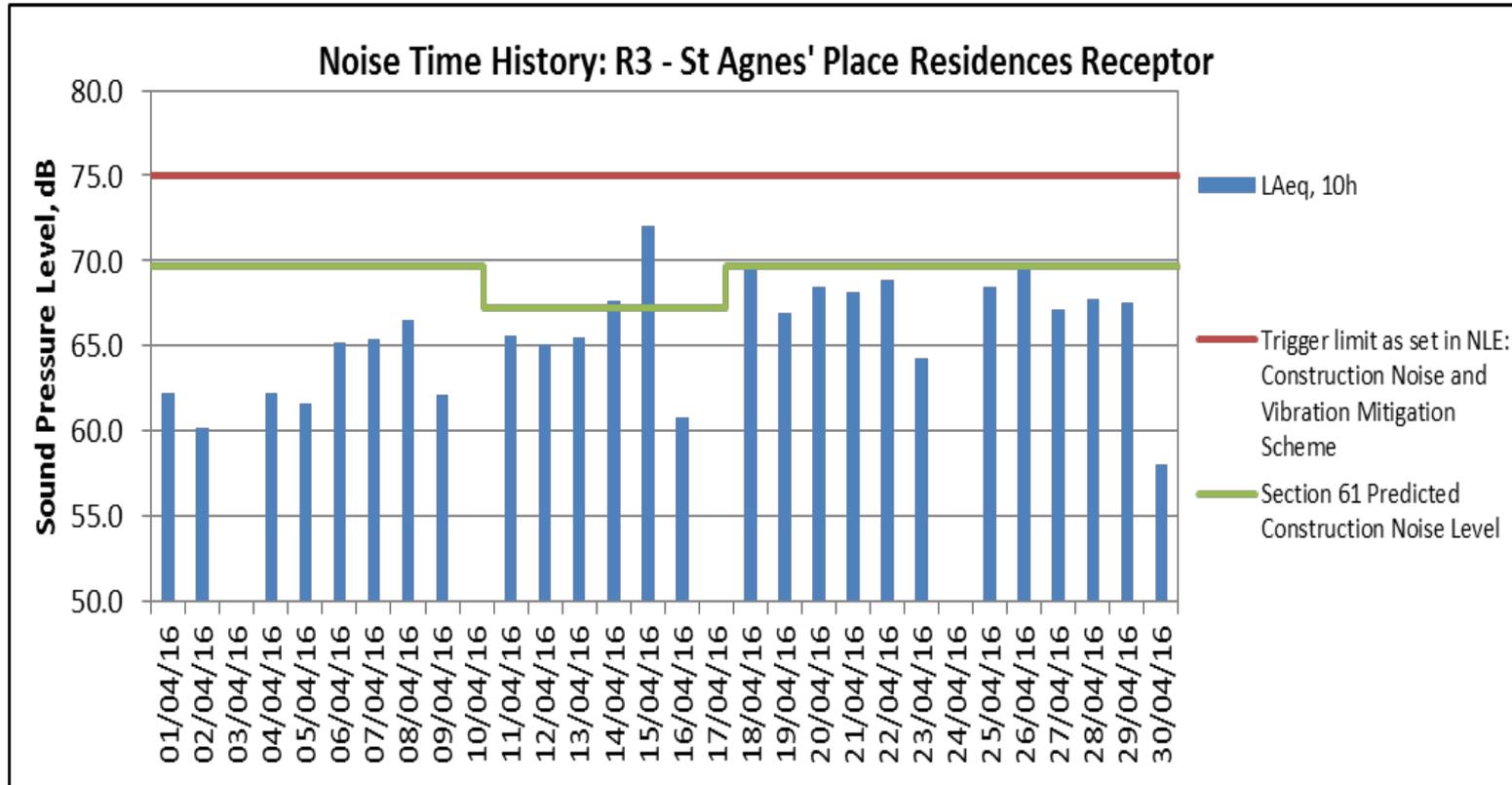


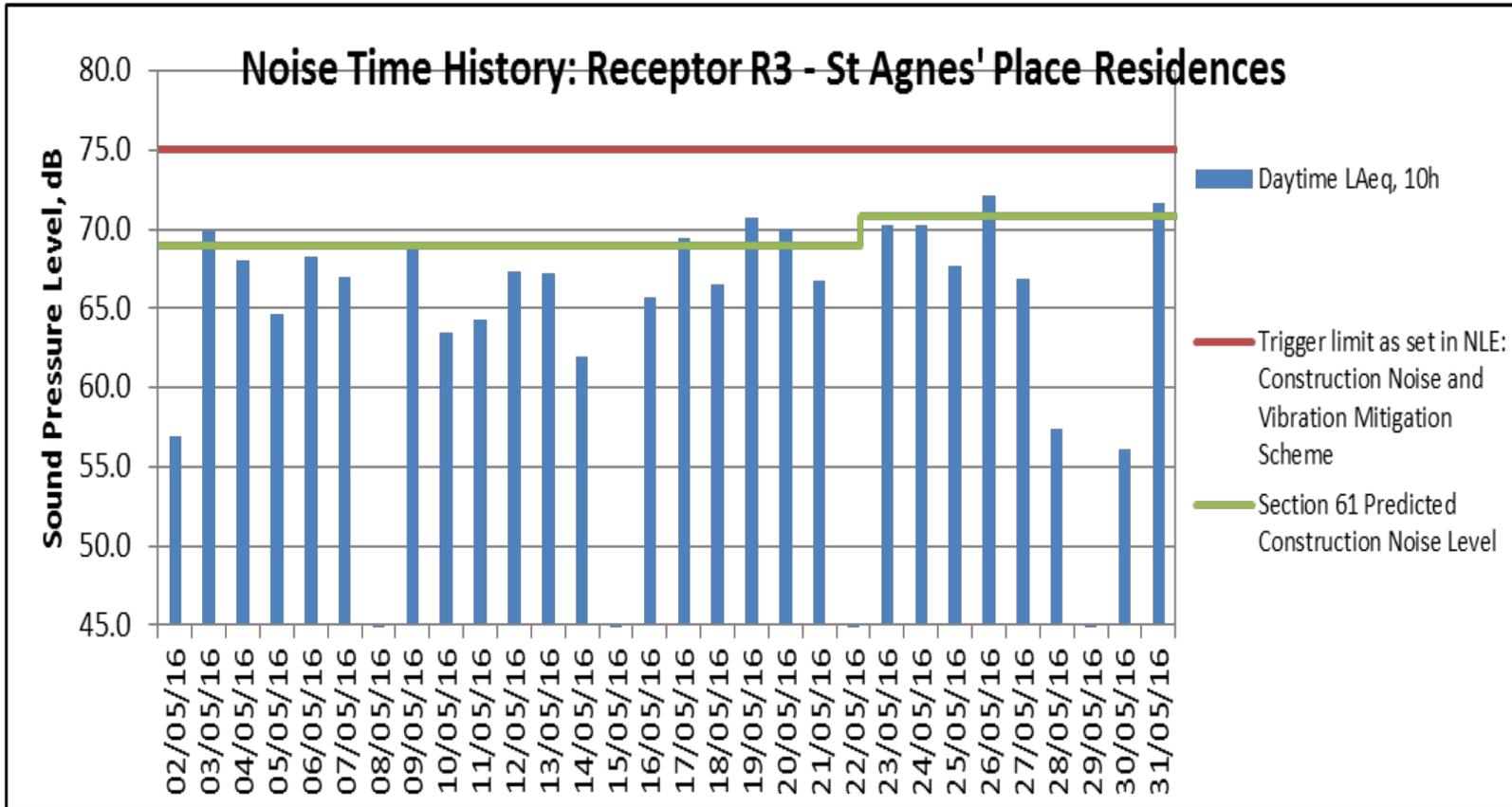
# Monitoring locations



Glass Slide 2 exceeded for the period 01<sup>st</sup> to 15<sup>th</sup> Apr 2016 with 68.7 soiling units. Likely to be influenced by the road traffic.

|  |  |
|--|--|
|  |  |
|  |  |
| <p>Project: Northern Line Extension</p> <p>Phase: Preliminary</p> <p>Client: CCL</p> <p>Location: Kennington Park</p> <p>Monitoring Locations: KENNINGTON PARK ENVIRONMENTAL MONITORING LOCATIONS</p>  |  |
| <p>Scale: 1:1000</p> <p>Date: 2015/10/02</p> <p>Author: [Name]</p> <p>Check: [Name]</p> <p>Drawn: [Name]</p> <p>By: LONDON SURVEY GRID</p> <p>UTM: 28QKQ</p> <p>Scale: 1:1000</p> <p>Sheet: 1 of 1</p> <p>Example: FLD-4025-28QKQ-CON-394-0247</p> <p>Rev: PD1/1</p> | <p>AT MICROFILM REF. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</p> |





# Your Feedback



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| You Suggested   | We Did   |
|---|--|
| Reversing alarms are very loud and disturbing                                       | This was a non-compliance on a new piece of plant. All construction vehicles are now fitted with white noise alarms and subcontractors have been re-briefed on the correct processes for bringing plant onto site. |
| Provision of information on effectiveness of acoustic enclosure                     | Provided visual and audio presentation at CLG's and Drop In Sessions.  |
| Residents not receiving notifications or newsletters                                | The distribution area for all notifications has now been extended.   |
| Liaison with new Kennington Park Road Resident's Association                        | TfL representative attended meeting and contact established.   |
| More information about Notice of Intention letters and General Vesting Declarations | All information is on the NLE website and the General Vesting Declaration letters have a covering letter explaining the process for compensation.  |



# NLE Engagement Opportunities



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- CLG meetings
- One to one meetings
- Drop in sessions
- School Engagement (TBM naming)
- Stakeholder Activities
- LEAP group meetings
- Cycling safety Events
- Careers fairs



# Ways to contact us

- It is important that calls are logged through the NLE 24/7 helpdesk on 0343 222 2424 (Option 1)
- Email [nle@tfl.gov.uk](mailto:nle@tfl.gov.uk)
- Drop In sessions
- Please visit:

<https://tfl.gov.uk/northern-line-extension>

# Kennington Park

## Step Plate Junction and Logistics

### Update

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# Tunnelling Works



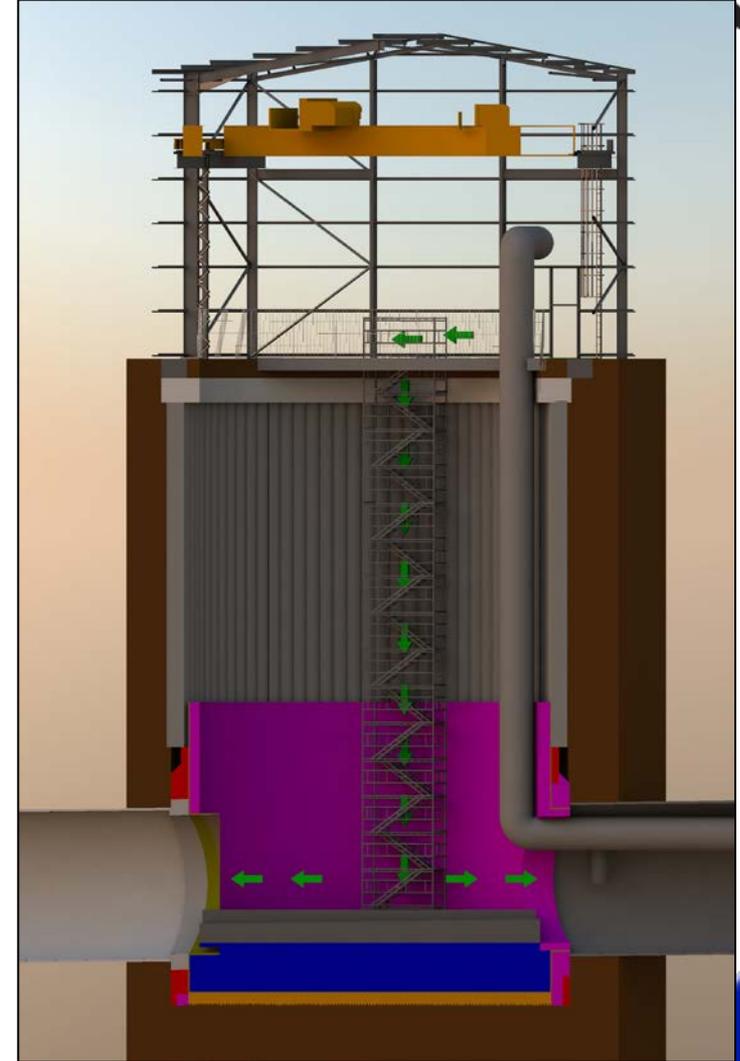
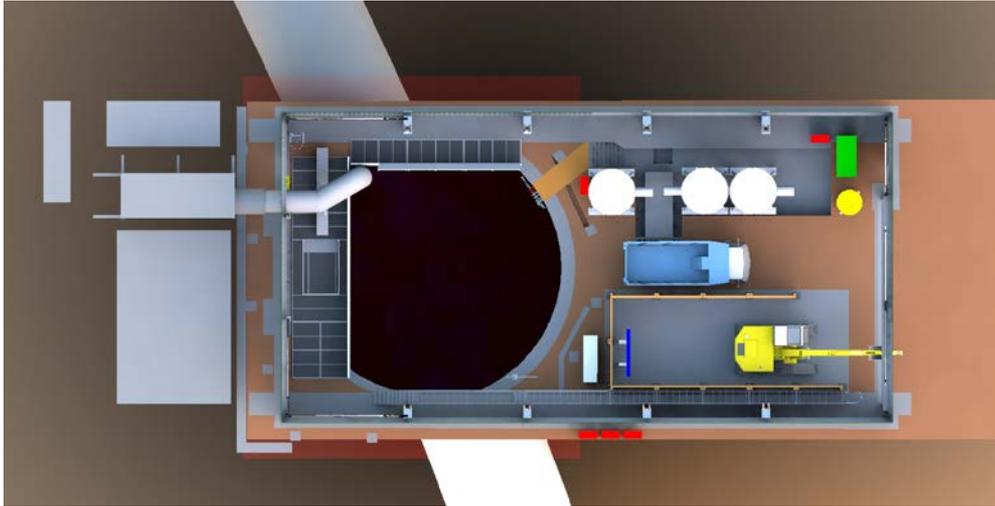
- Works will take place 24/7
- All work will be undertaken by small mechanised plant and hand tunnelling techniques.
- Things that will be monitored while we tunnel:
  - Noise
  - Vibration
  - Dust
  - Ground movement
  - Excavation profile control



# Tunnelling scope of works



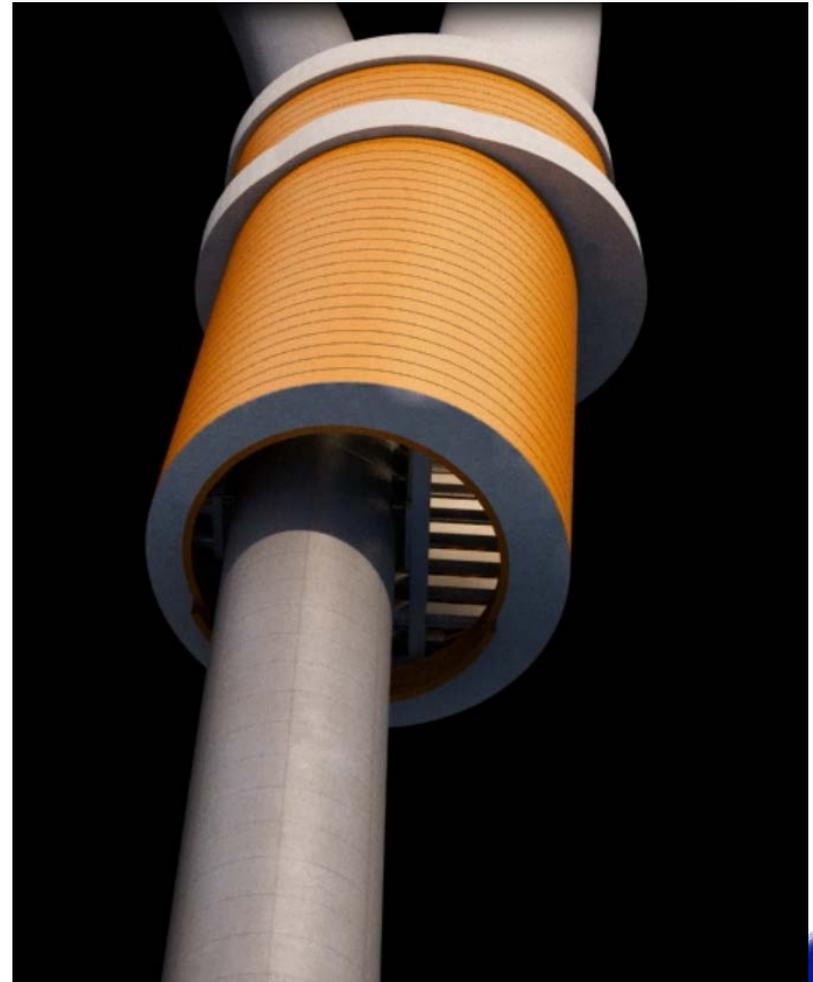
# Tunnelling Set-up



# Sprayed Concrete Lining Technique



# Step plate junction



# Step plate junction



# Programme and advance rate



- Commence SCL shaft July 2016
- Commence SCL tunnelling September 2016
- Commence SPJ February 2017
- Typical SCL advance a day is 1.5 meters a day
- Works take approximately 1 week to pass under a residential property



# Kennington Logistics



|        | Per month |        | Daily rate (approx) |        |
|--------|-----------|--------|---------------------|--------|
|        | K Green   | K Park | K Green             | K Park |
| Apr-16 | 240       | 80     | 10                  | 3      |
| May-16 | 240       | 80     | 10                  | 3      |
| Jun-16 | 240       | 80     | 10                  | 3      |
| Jul-16 | 270       | 160    | 11                  | 7      |
| Aug-16 | 640       | 880    | 26                  | 35     |
| Sep-16 | 260       | 320    | 11                  | 13     |

