

Northern Line Extension

Core Community Liaison

Group meeting

26 / 10 / 2016

Delivering the Northern line extension with









Kennington Green Jul – Oct 2016



- 26m deep shafts sunk Kennington Green completed July 2016
- 15m of Sprayed Concrete Lining tunnels Back Shunt at Kennington Green completed August 2016
- 142m of Sprayed Concrete Lining tunnels Front Shunt at Kennington Green due for completion early November 2016



Preparation of Kennington Green running tunnel soft eye and excavation of Back Shunt

Kennington Green Jul – Oct 2016

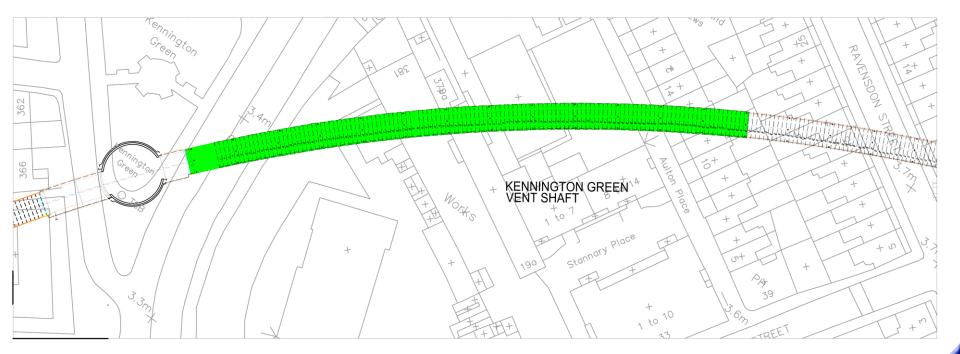






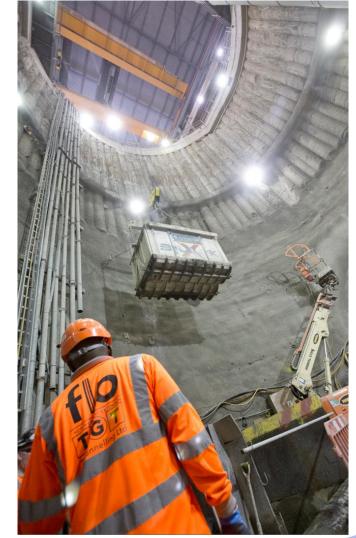
KG tunnel advance Jul – Oct 2016





KG Programme and advance rate

- Finish Spray Concrete Lining (SCL) works
 December 2016
- Start of the Step Plate Junction (SPJ) works January 2017
- Finish SPJ works July 2017



Kennington Park: July - Oct 2016

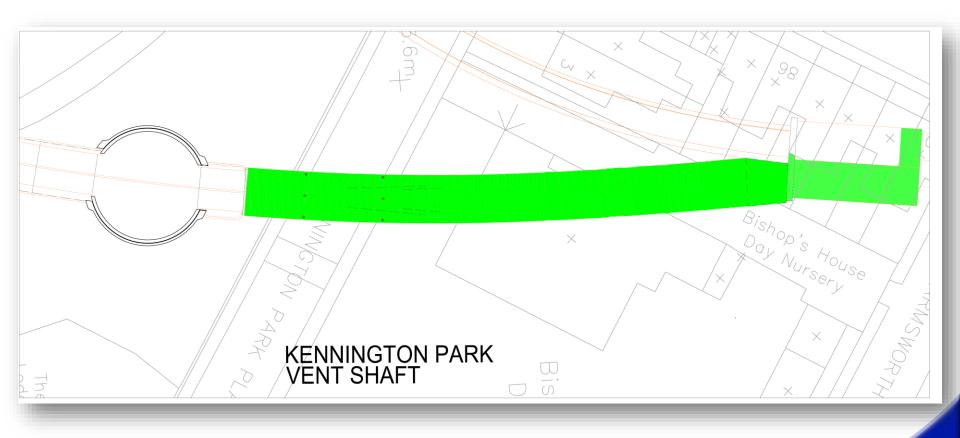


- Finished Temporary Acoustic Shed
- Excavated Full Depth of Shaft
- Excavated Tunnel to Kennington Loop
- Commenced Pilot Tunnel
 Alongside Kennington Loop



Kennington Park: July - Oct 2016 Tunnelling Progress





Kennington Park - SCL Tunnel Excavation

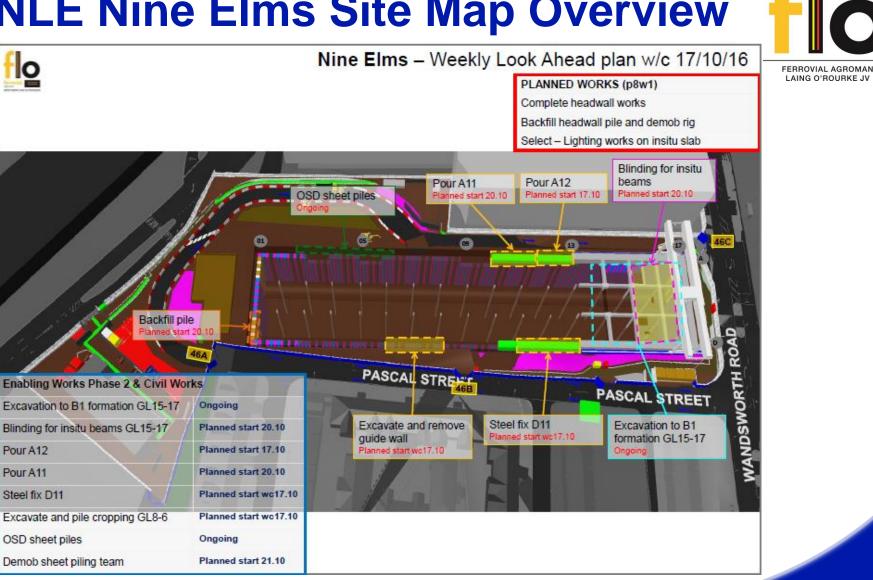






Kennington Sites Oct '16 – Jan '17 FERROVIAL AGROMAN LAING O'ROURKE JV **Completion of Pilot Tunnel** Commencement of Step **Plate Junction Works** 9

NLE Nine Elms Site Map Overview



Nine Elms July - Oct 2016

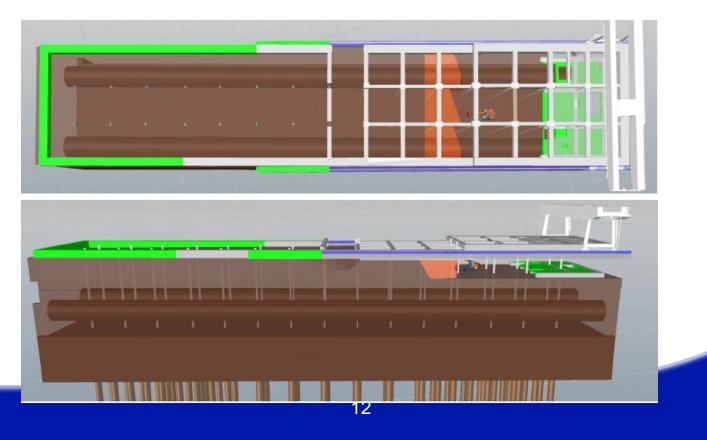
- Piling works completed
- Precast beams installed at ground
 level, including in-situ stitches (links
 between the beams and the columns)
- Concrete slab cast at ground level
- Excavation commenced to Basement
 1 level
- Section of capping beam constructed (beam connecting tops of the piles)





Nine Elms Update Oct – Jan 2017

- Practical completion of the capping beam
- Continue with excavation works to Basement 1 level
- Install more precast beams and construct the in-situ stitch to the columns
- Commence construction of waling beam at Basement 1 level and in-situ beams
- Gantry crane foundation will be extended towards the West





Battersea Update July – Oct 2016



✓ <u>Crossover Box</u>

- 80% of the excavation complete
- Completion of all retaining concrete beams inside around the box
- Installation of all temporary steel struts
- 33% of the concrete base slab complete.



Battersea Update July – Oct 2016



✓ <u>Station Box</u>

- 50% of the piling foundations for station columns complete
- 40% of the concrete wall perimetre complete
- Commencement of concrete beam on the west side tying the concrete walls



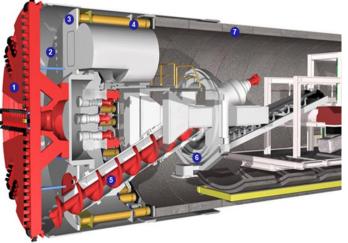


Battersea Update July – Oct 2016



- ✓ Tunnel Boring Machines
 Arriving since September
 - Cuttingwheel
 - Shields
 - Engine main drives
 - Erectors





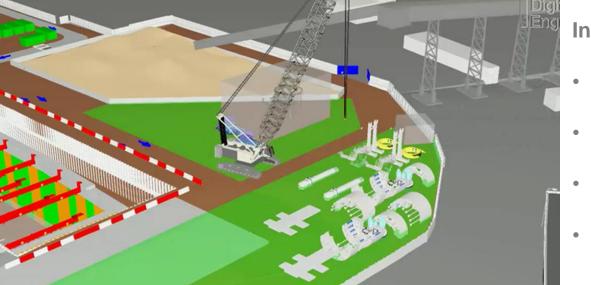
TBM PARTS

- 1 –Cutting wheel
- 2 Muck chamber
- 3 Face Pressure
- 4 Propulsion Force
- 5 Screw
- 6 Erector
- 7 Ring build



Battersea Update Oct – Jan 2017

Tunnel Boring Machines Set-Up:



In total 76 deliveries:

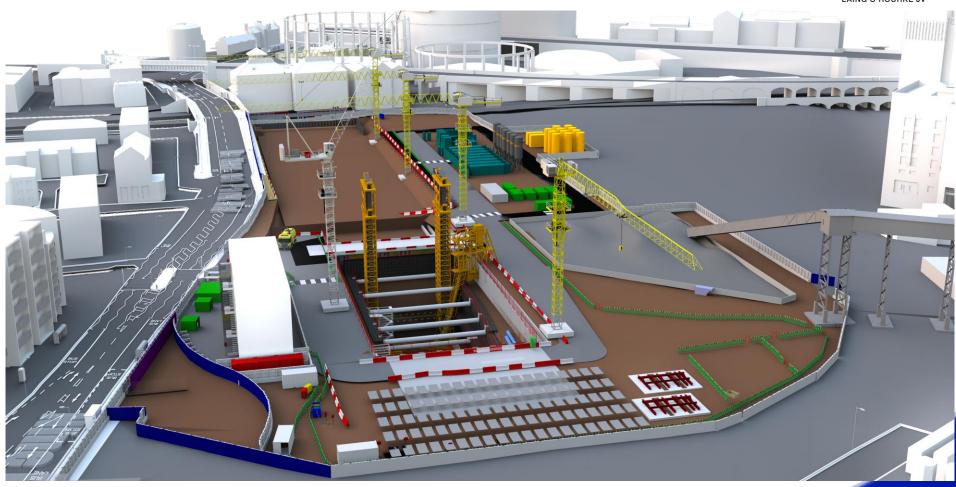
- Northbound shield by 20/10
- Southbound shield by 21/10
- Southbound Back-Up by 2/12
- Northbound Back-Up by 30/3





Battersea Update Oct – Jan 2017









SITE	NOISE TRIGGER	DUST TRIGGER	REASON	GOOD NEWS
KG	0	1 in July	Breaking works	Mitigation of the dust, window cleaning in place
KP	0	0	Acoustic enclosure effective	
NE	0	3	Vehicle movements	No dust triggers in last month
BATT	0	4	Vehicle movements along Battersea Pk Rd	No onsite alerts from real time monitoring.

Kennington Green Environmental Monitoring June - September





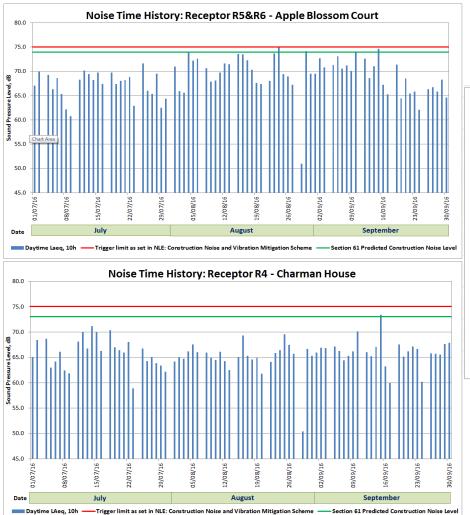
Kennington Park Environmental Monitoring

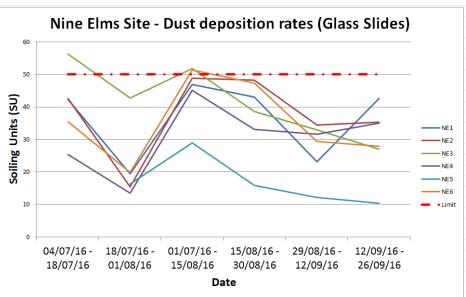


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Nine Elms Monitoring Jul – Oct 16







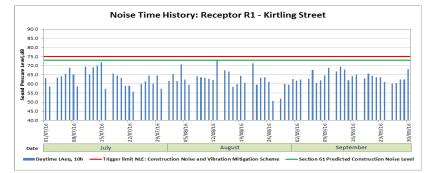
Glass slide number 3 exceeded twice during the monitoring period. It is located in front of 55 Bramley Crescent and it is mainly influenced by lorry movement exiting the site.

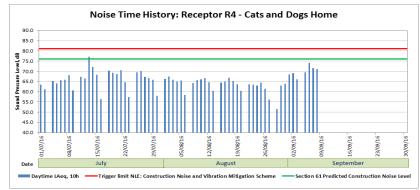
Glass slide number 6 exceeded once. It is located far away of the Nine Ems site and it is mainly influenced by road traffic and other construction sites e.g. Barrats building.

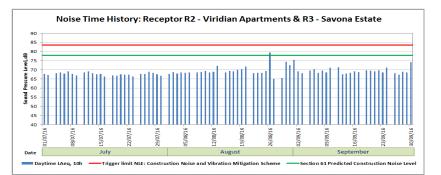


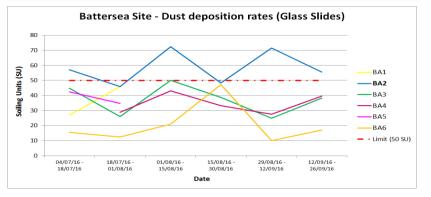
Battersea Environmental Monitoring June - September 2016











NLE Environment and Sustainability



1 BARGE = 50 WAGONS





Excavated material is being sent to Goshems Farm by barge to restore this formal landfill site to high grade arable farm land. NLE have taken wagons off the streets of London, reducing local contaminants in the air.





AWAY TONNES OF SPOIL

EMISSIONS SAVINGS 357C02

C02

NLE Environment and Sustainability





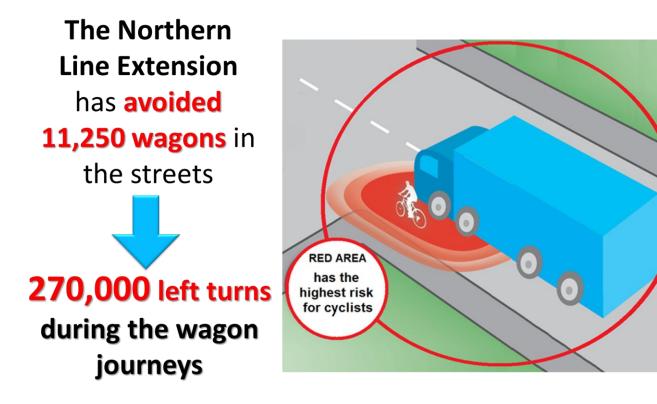
NLE Environment and Sustainability

Indirect Benefits





Large lorries are involved in half of the cyclist deaths in London



Kennington Green Monitoring

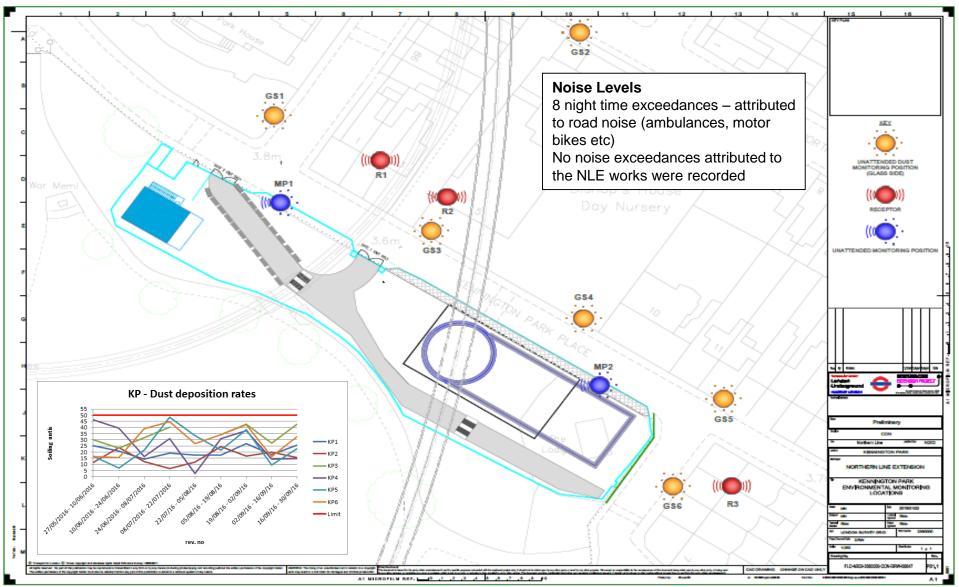


15 KG3 EET4 KG2 KEY 0 R3 MP1 UNATTENDED DUST (GLASS SIDE) ACCESS PION ((())) KG4 RECEPTOR TENDED MONITOP R4 KG1 0 ((())) MP2 R2 ORTHERN LINE EXTENSIO KENNINGTON GREEN ENVIRONMENTAL MONITORING LOCATIONS R1 KG5 A1

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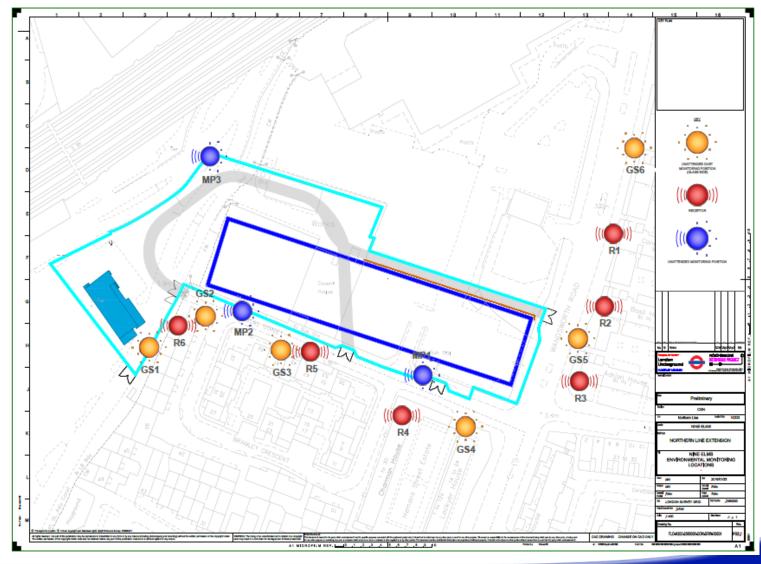
KP Environmental Monitoring June to August 2016



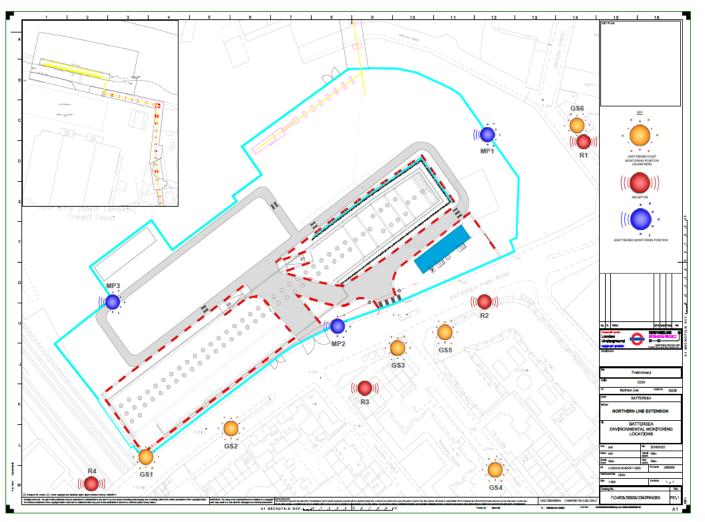


Nine Elms Monitoring



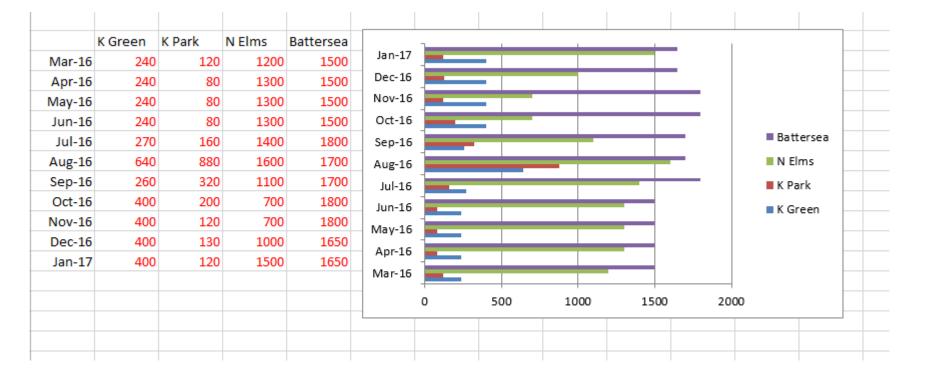


Monitoring Locations Battersea





FERROVIAL AGROMAN LAING O'ROURKE JV



Helpline / Complaints Stats

KENNINGTON GREEN

Between 01/06/2016 and 13/10/2016:

Total cases logged:	36
Cases still active:	11 (30.56%
Resolved cases:	25 (69.44%

Case type:

Complaint:	17 (47.22%)
Enquiry:	18 (50.00%)
Observation	1 (2.78%)

Complaint categories (17 in total):

17.65%)
5.88%)
(17.65%)
(23.53%)
(5.88%)
(5.88%)
23.53%)

Between 01/06/2015 and 09/10/2015:

Total cases logged:	59
Cases still active:	0 (0.00%
Resolved cases:	59 (100%)

Case type:

Complaint:	34 (57.63%)
Enquiry:	23 (38.98%)
Non-valid contact:	2 (3.39%)

Complaint categories (34 in total):

Archaeology/Heritage:	1 (2.94%)
Behaviour:	2 (5.88%)
Construction Strategy:	2 (5.88%)
Dust:	2 (5.88%)
Miscellaneous:	1 (2.94%)
Noise and Vibration:	11 (32.35%)
Site Management:	2 (5.88%)
Traffic Management:	13 (38.24%)

KENNINGTON PARK

Enquiry:

Observation

 Total cases logged:
 22

 Cases still active:
 5 (22.73%)

 Resolved cases:
 17 (77.27%)

 Case type:
 12 (54.55%)

Between 01/06/2016 and 09/10/2016:

Complaint categories (12 in total):

8 (36.36%)

2 (9.09%)

2 (16.67%)
6 (50.00%)
2 (16.67%)
1 (8.33%)
1 (8.33%)

Between 01/06/2015 and 09/10/2015:

Total cases logged:	25
Cases still active:	0 (0.00%
Resolved cases:	25 (100%)

Case type:

 Complaint:
 17 (68.00%)

 Enquiry:
 6 (24.00%)

 Non-valid contact:
 2 (8.00%)

Complaint categories (17 in total): Construction Strategy: 1 (5.88%) Noise and Vibration: 4 (23.53%) Public Utilities: 2 (11.76%) Traffic Management: 10 (58.82%)

NINE ELMS

Between 01/06/201	6 and 13/10/2016:
Total cases logged Cases still active: Resolved cases:	l: 15 6 (40.00%) 9 (60.00%)
Case type: Complaint: Enquiry: Non-Valid Contact:	7 (46.67%) 7 (46.67%) 1 (6.67%)
Complaint categor Noise and Vibration Public Utilities: Site Management: Traffic Management Working Hours:	: 3 (42.86%) 1 (14.29%) 1 (14.29%)

Between 01/06/2015 and 13/10/2015:

Total cases logged:	3
Cases still active:	0 (0.00%
Resolved cases:	3 (100%)

 Case type:

 Complaint:
 2 (66.67%)

 Enquiry:
 1 (33.33%)

Complaint categories (2 in total):Noise and Vibration:1 (50.00%)Site Management:1 (50.00%)

BATTERSEA

Between 01/06/2016 and 10/10/2016:

Total cases logged:	18
Cases still active:	2 (11.11%)
Resolved cases:	16 (88.89%)

Case type: Complaint:

Enquiry:

12 (66.67%) 6 (33.33%)

Complaint categories (12 in total):

 Noise and Vibration:
 2 (16.67%)

 Site Management:
 5 (41.67%)

 Traffic Management:
 1 (8.33%)

 Working Hours:
 4 (33.33%)

Between 01/06/2015 and 10/10/2015:

Total cases logged:	3
Cases still active:	0 (0.00%
Resolved cases:	3 (100%)

Case type:

Complaint:	1 (33.33%)
Enquiry:	1 (33.33%)
Non-valid contact:	1 (33.33%)

Complaint categories (1 in total): Noise and Vibration: 1 (100%)

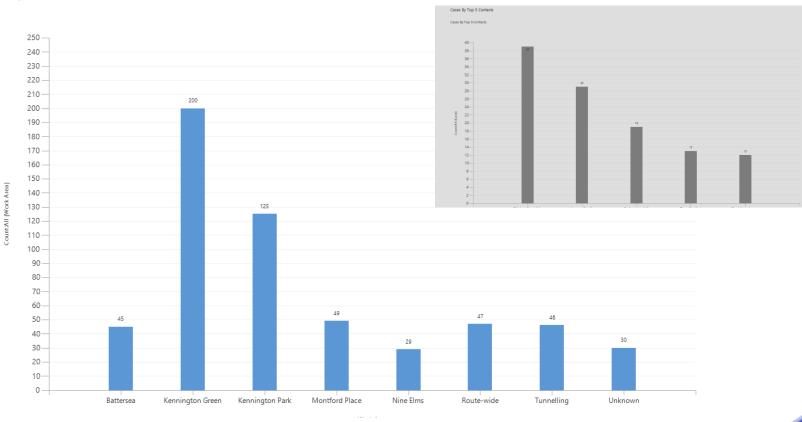


Helpline / Complaints Stats



Cases by Work Area

Cases by Work Area



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Your Feedback



You Suggested	We Did
Opportunities for local organisations	NLE hosted a meet the buyer event in June with over 30 local business in the area.
More information to residents	Weekly email bulleting is now delivered every Friday
Light Pollution	NLE redirected the lights on the hoardings and site lighting is under review.
Integrated meetings with major developments in the area	NLE and Tideway are joining their CLG meetings. BPSDC on same date every 6 months
Keep Roads Clean	Road sweepers are working permanently Battersea Park Road Wheel washer being organised
Request from a resident to start noisy work later on Saturdays.	The site team accommodated the most noisy activity to start later on Saturday. Also the road sweeper was instructed to start after 9 am on Saturday.
Petition to assist with the cleaning of the Silver Birch close top Battersea site	FLO got together with Tideway and commissioned an specialist company to clean the both Bridges.

Your Feedback



	LAING /
You Suggested	We Did
Fencing at Kennington Park had been contaminated with grease	The anti-climb paint was quickly cleaned away by FLO and the fence line was repositioned so as to block the opening in the fence, making it safer for everyone. Neighbours expressed their thanks.
More information and engagement about works	Provided visual and audio presentation at CLG's and Drop In Sessions. Last one at Kennington Park 28 September
Dust and noise mitigation	Jet Spray equipment moved and noise mitigated where possible. Extra acoustic blankets have been installed on site. Redirection of the dust extractor at Kennington Park.
Light pollution from Kennington Sites	Affected residents where visited and lights have been redirected and shielded where possible.
Integrated meetings with major developments	NLE and Tideway are joining their CLG meetings. BPSDC on same date every 6 months
Engagement with Local Schools	Visit to three primary schools to name the NLE TBMs
Lights causing light pollution.	CRR replied and arranged for lights to be switched off when not required / investigating options
	34

NLE Engagement Opportunities

- CLG meetings
- One to one meetings
- Drop in sessions
- School and Youth
 Engagement
- Stakeholder Activities
- LEAP group meetings
- Cycling safety Events



FERROVIAL AGROMAN LAING O'ROURKE JV





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Ways to contact us



- It is important that calls are logged through the NLE 24/7 helpdesk on 0343 222 2424
- Email <u>nle@tfl.gov.uk</u>
- Regular Drop In sessions
- Please visit:

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