



LONDON LOW EMISSION CONSTRUCTION PARTNERSHIP

23rd June 2015

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10:30	Welcome	Adam Webber
10.35	Review of previous meetings minutes	David Green
10:45	LLECP Website update and launch	Daniel Marsh
11:00	NRMM database and website	Daniel Marsh
11:10	Industry Outreach	Daniel Marsh
11:15	Local Authority Construction Projects	Daniel Marsh
11:30	Project Plan update	David Green
11:45	Finance/Signing off work	David Green
11:50	AOB / Date of next meeting	All
12:00	Lunch / Discussion of MAQS Phase 2 Bid	All
13:00	Finish	All

London Low Emission Construction Partnership Website

LLYNCH

LLECP Website Launch

About



Advice

Projects

Resources

Contact

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What is my legal requirement?

About

From September 2015 the London Mayor will introduce new standards to reduce pollution emissions from the construction industry with tighter standards proposed for the start of the London Ultra Low Emission Zone in 2020.

Read more..



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LONDON LOW EMISSION

Advice

NRMM

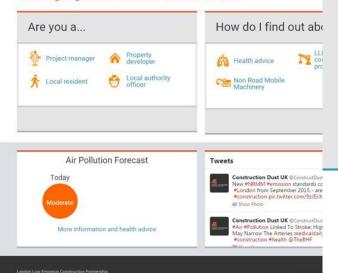
Projects

Resources

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Working together to build a cleaner London



London Low Emission Construction Partnership

The London Low Emission Construction Partnership (LLECP) is a collaboration between the 'Cleaner Air Boroughs' in central London and King's College London. The project is funded by the Greater London Authority (GLA) and aims to reduce emissions from the construction industry.

Read more..



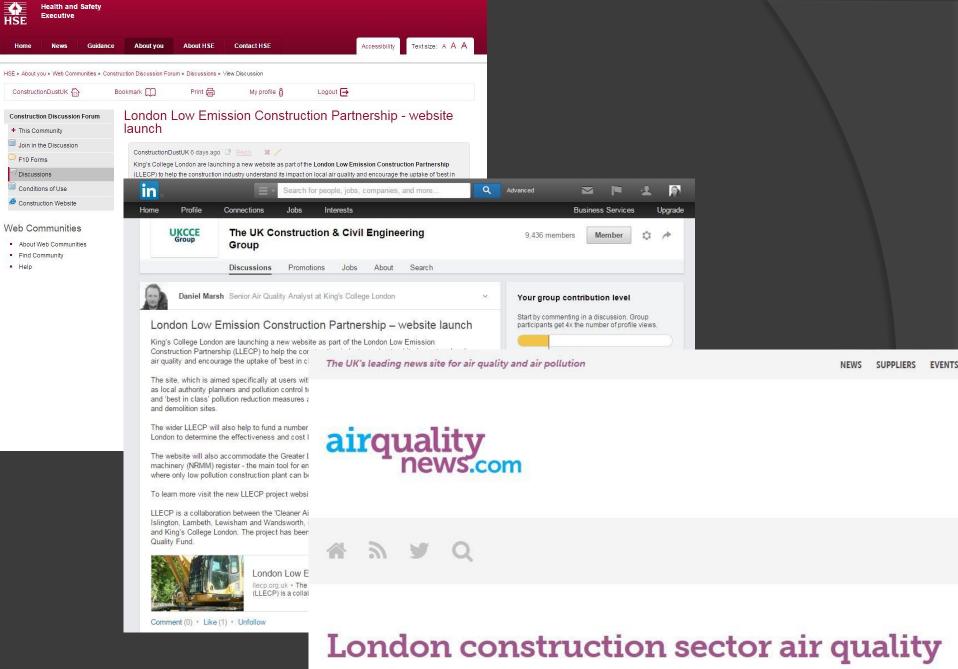
Contact

Working together to build a cleaner London



LLECP twitter, facebook, Google+ LAQN website, facebook, twitter AirMail – email newsletter Air Quality Management Air Quality Bulletin LinkedIn air quality groups inc. IES/IAQM

HSE Construction Forum LinkedIn construction industry groups Direct email to industry magazines Working with Considerate Contractors – possible 'Spotlight' on Low Emissions



site launched



Non-road mobile machinery website

London's LEZ for NRMM

1st September 2015

NRMM used across the 'central activity zone' & Canary Wharf will be required to meet stage IIIB of the directive as a minimum

NRMM used on the site of any major development within Greater London will be required to meet stage IIIA of the directive as a minimum

1st September 2020

Tighter emission standards for CAZ, Canary Wharf and Greater London introduced



Non-road mobile machinery website

- Website to inform developers and contractors about which equipment will be compliant for use within the NRMM low emission zone
- Require registration of NRMM details from all major developments within the CAZ and Canary Wharf
- Allow for NRMM LEZ exemption application
- It will allow for local authority remote enforcement of GLA policy

- It will create a unique data resource that will add to the understanding of what NRMM equipment is currently being used and allow later assessment to demonstrate the uptake of higher emission standards
- It will allow for a more accurate London Atmospheric Emission Inventory (LAEI) to be developed
- It will allow for GLA policy change updates

nrmm.london



London's 'Low Emission Zone' for non-road mobile machinery



NRMM Register



- How to use the NRMM register
- How to read engine plates
- San NRMM Exemption policy
- 🗞 Retrofit technology

Does this apply to me?

From 1 September 2015 NRMM of net power between 37kW and 560kW used in London will be required to meet standards.

This will apply to both variable and constant speed engines for both NOx and PM.

These standards will be based upon engine emissions standards set in EU Directive 97/68/EC.

Read more ...

Industry Outreach Programme

24 th March 2015	Anna Carver, Talking Edge Studios	Producing short film promoting GLA/MAQF projects	Released by GLA with second round MAQF information
14 th April 2015	Expanded – Laing O'Rourke Berkeley Homes – City Forum, 250 City Road, Islington	Setting up measurement programme for BC monitoring on NRMM	
April 21 st 2015	CIRIA (construction industry research and information association) Carbon reductions and management in infrastructure	This event aims to clarify approaches to carbon reduction in construction with specific emphasis on the infrastructure sector, discuss various carbon reduction recommendations and to illustrate the benefits of carbon savings through a series of innovative case studies.	
April 22 nd 2015	Dave Rowe, Keltbray – Earls Court	Project update and tour of site	Investigation of potential mitigation trials at Earls Court
May 21 st	Rob , Rebecca Flint – Laing O'Rourke – Nine Elms	Tour of Nine Elms station site	Set up of Lambeth and Wandsworth mitigation trials based on Aggreko diesel generators
11 th June 2015	Environmental Industries Commission	LLECP/NRMM presentation	Highlighting LLECP to retrofit industry
18th & 19th June 2015	London Build 2015	http://www.londonbuildexpo.com/	Networking opportunities, review of low emission technologies

Twitter campaign

- Using 'Buffer' software to schedule message delivery – currently 10 per day
- Analyses Twitter use to send during peak periods and hit larger audience
- Positive response with retweets allowing us to reach larger audience

Seminar Display Pop-up banner





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llecp.org.uk



nrmm.london

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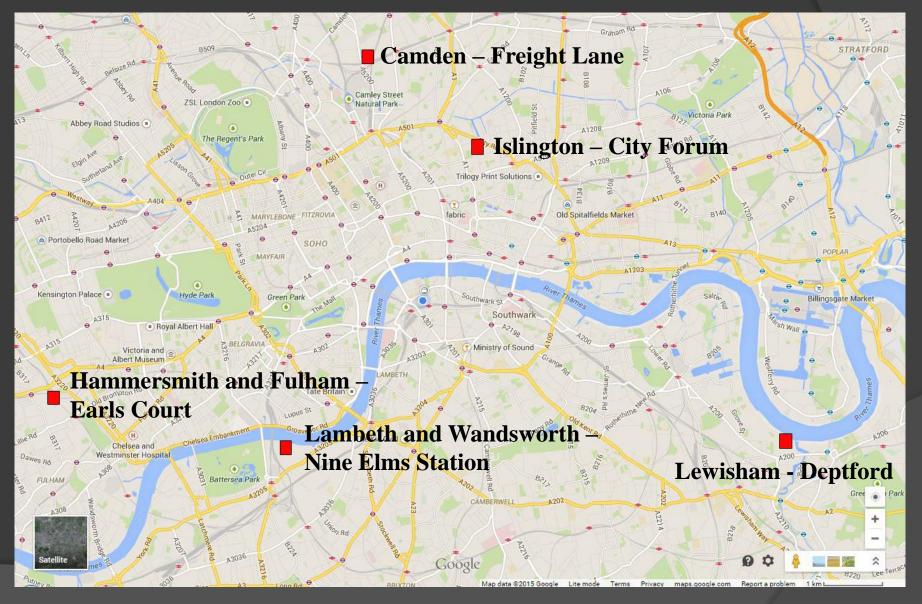


LDN gov | Mayor's Air Quality Fund

https://www.youtube.com/watch?v=z8kiEQOsigE&index=3&list=FL8shc8pJ6J1piXDaj7JJwBA



Targeted construction sites



		Developer/		Jan F	eb Mar	Apr-I	Mav J	un-	Jul-	AugS	ep- O	oct- N	NovD	ec- J	an-F	eb- N	ЛагА	pr-
Local Authority	Project Title	Contractor			15 -15													
	Concrete batching	Hansons/Lafarge																
Camden	Freight Lane	Tarmac																
Hammersmith	Earl's Court - EC1		Phase 1	1														
& Fulham	demolition	Keltbray	Demolition Phase 2 Demolition	2 1														
			Piling															
Islington	City Forum	Berkeley Group/ Laing O'Rourke	Demolitior Piling															
			ГШІ	5														
Lambeth & Wandsworth	Nine Elms	Laing O'Rourke	Phase 1 Demolition Phase 2 Demolition Piling	ר 2 ר														
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Lewisham	Deptford	Lend Lease	Demolitior	า														

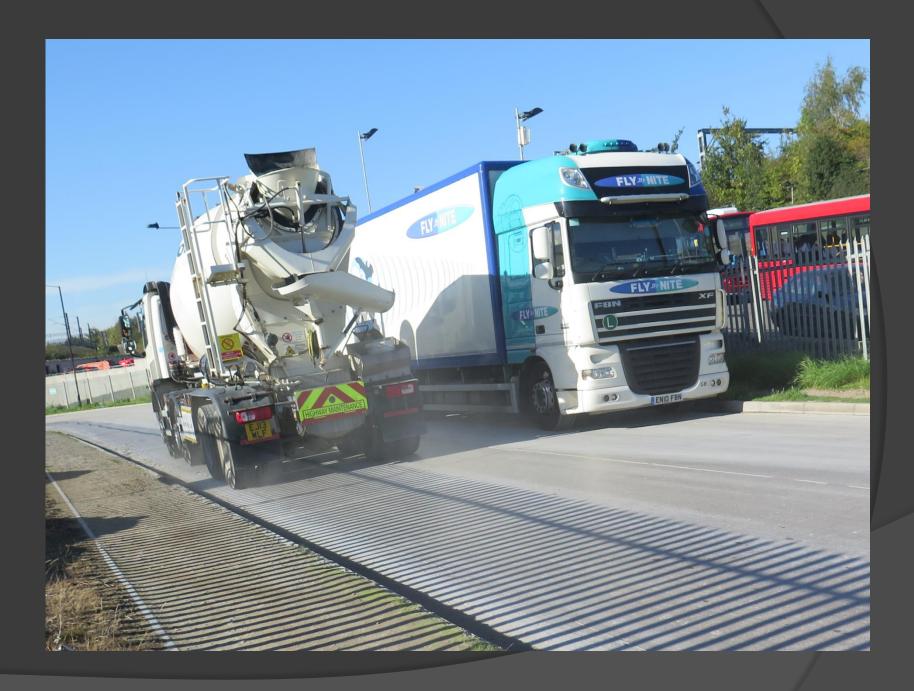
London Borough of Camden

- Reducing trackout at two Cement Batching Plants using Calcium Magnesium Acetate (CMA) as a dust suppressant
- Assessing impact of CMA application
- Assessing seasonal variation on CMA impacts



Use of Calcium Magnesium Acetate (CMA) chemical dust suppressant to reduce resuspension of particulate matter from trackout around cement batching sites in Camden

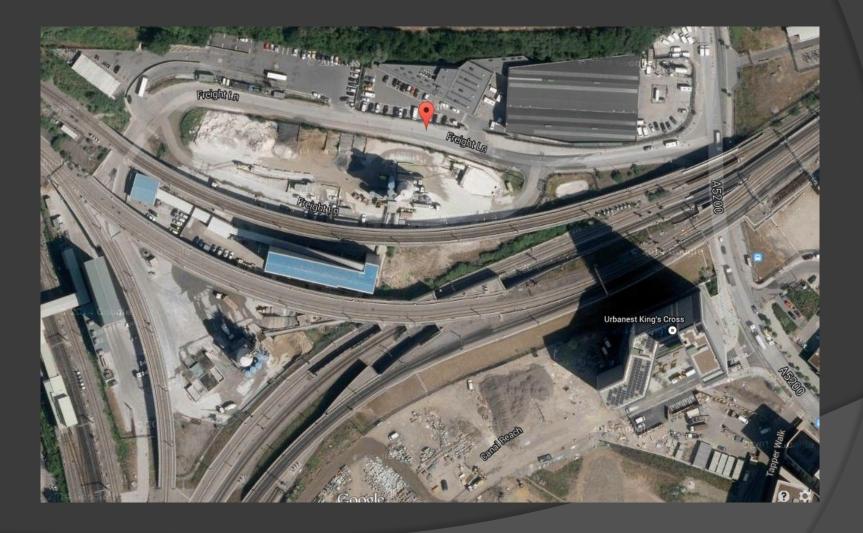


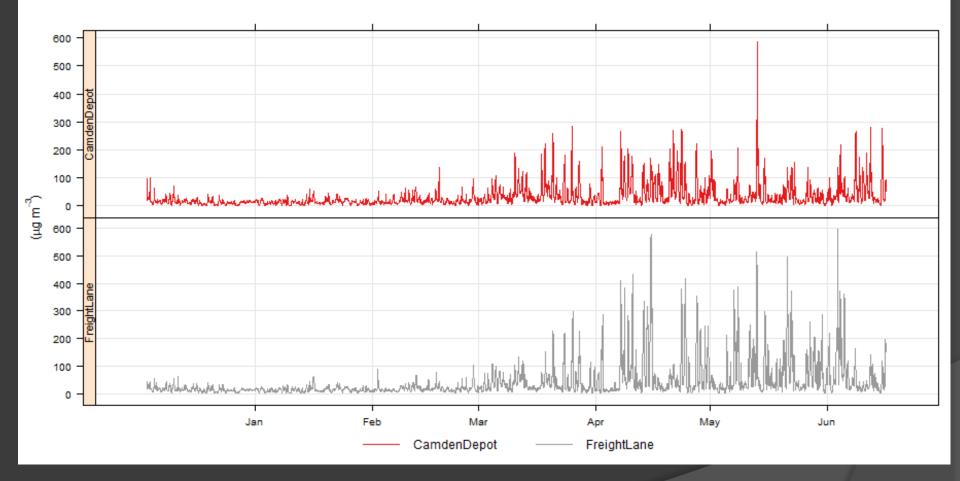


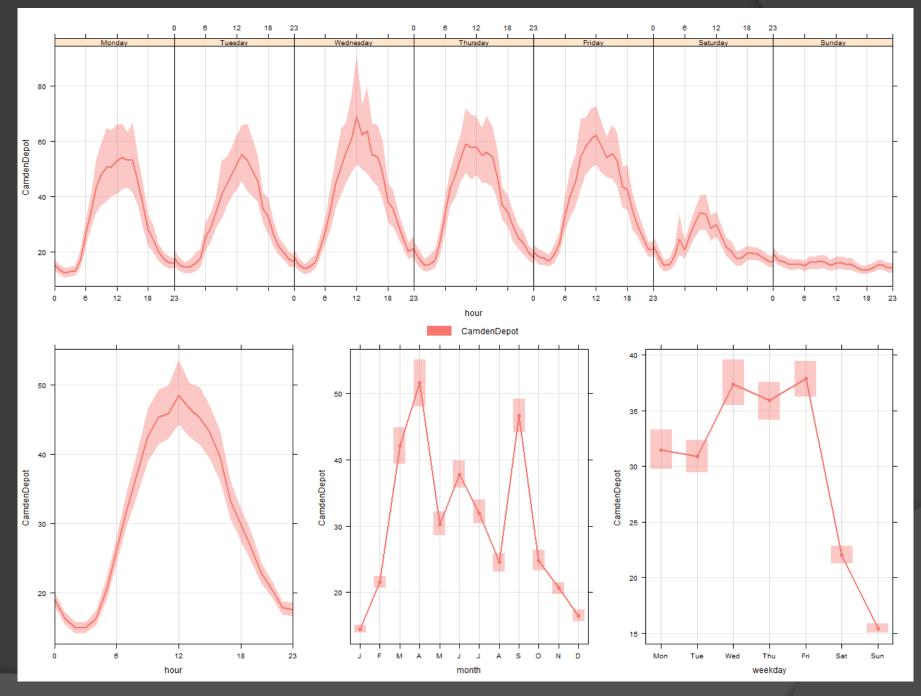
Trial method

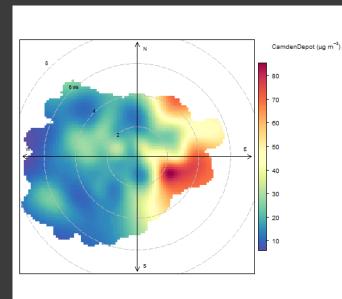
- Targeted CMA application over an 10 week period (week on/week off)
- 3 months baseline monitoring completed
- Measurements made using two Osiris instruments on Freight Lane
- First phase of CMA trial ran in March 2015, the second phase currently running during June and early July.

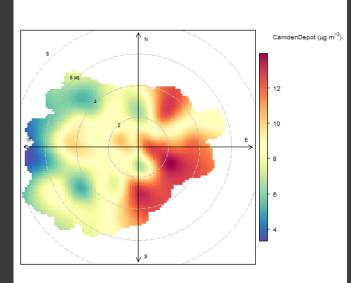
Freight Lane, Camden

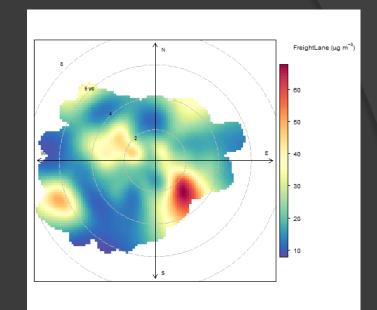


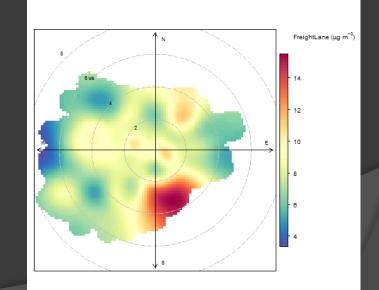




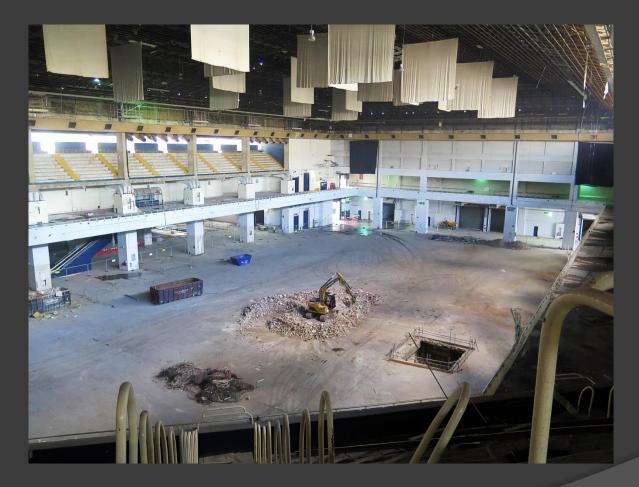




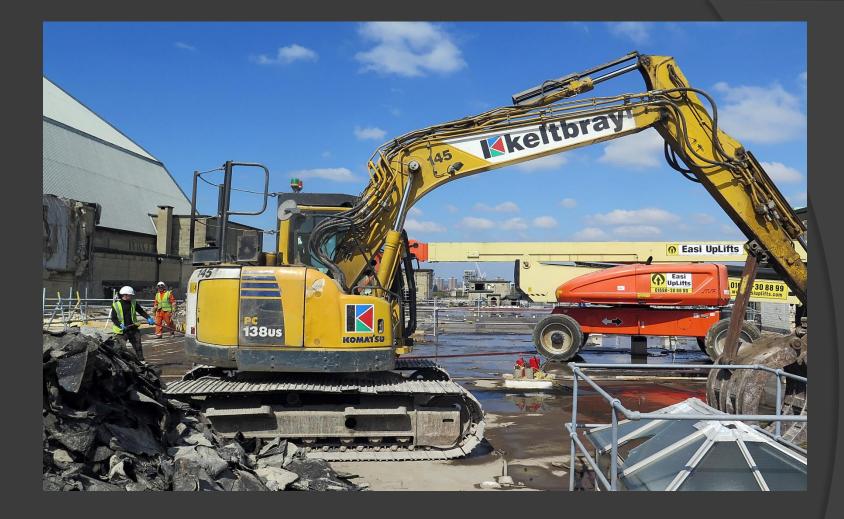




London Borough of Hammersmith and Fulham



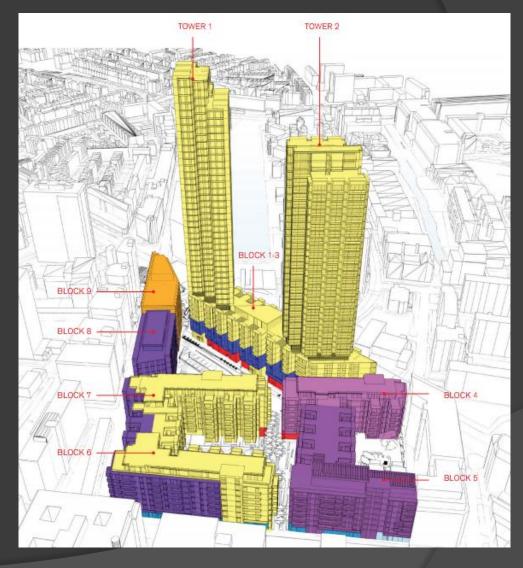
Earls Court demolition



Black carbon measurements correlated with Komatsu on-board 'Komtrax' engine performance software during enforced antiidling, eco-mode use and diesel fuel additive application during demolition at Earls Court, Kensington

London Borough of Islington

City Forum 250 City Road





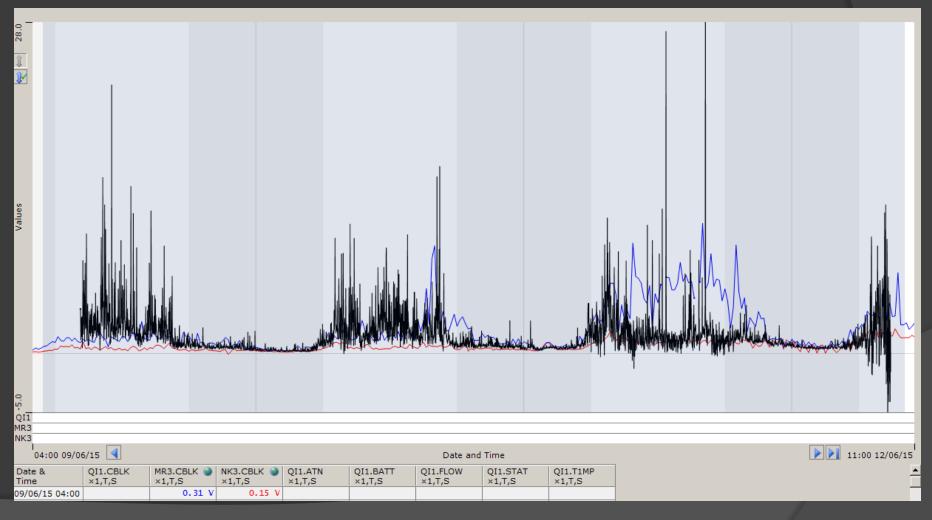
Black carbon concentrations being recorded with a microAeth attached to NRMM in Islington to measure the percentage reduction attainable through using a diesel fuel additive (DPF assist)



Trial method

- Baseline BC measurements taken from NRMM running under constant load
- Addition of Cerium Oxide as a diesel fuel additive
- Ongoing measurements to assess impacts and rate of reduction
- Potential to bring emission reductions to NRMM that is exempt from the GLA LEZ (piling rigs/tower cranes)

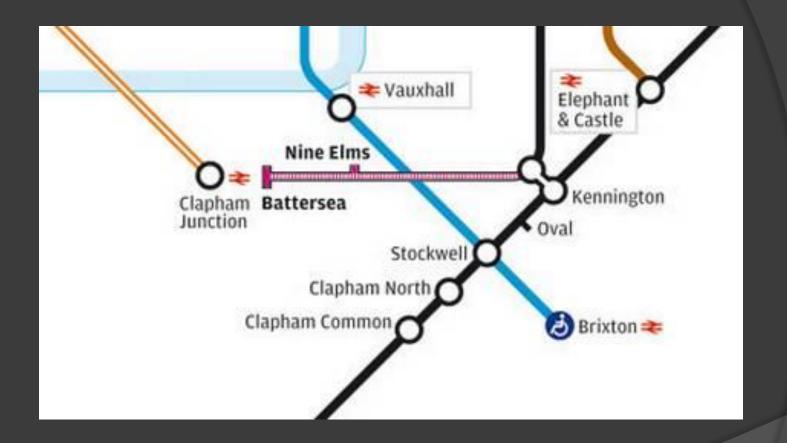
Uncorrected BC concentrations from baseline monitoring week 1



London Borough of Lewisham

- Deptford based demolition and development of two tower blocks
- Pre-planning access start mid 2015
- Site is under one developers control, Lend Lease, and they are still keen to assist the project
- Possible trialling of new JCB hybrid NRMM for BC reduction with comparison to older NRMM

London Boroughs of Lambeth and Wandsworth



Nine Elms Station – Northern Line Extension

Intelligent power solutions to reduce particulate matter, black carbon and CO2 emissions as well as reducing fuel costs at Nine Elms Northern Line Extension





Trial method

- Baseline BC and particulate measurements taken from Aggreko generator running under constant load
- Utilises microAeth and Osiris analysers
- Firefly Cygnus 4 Hybrid Power Generator controls load and reduces diesel generator use during low load periods and overnight
- Week on/week off trial to measure emission reduction
- HPG diagnostics of load/fuel use operational hours etc supplied



Project plan / Finance

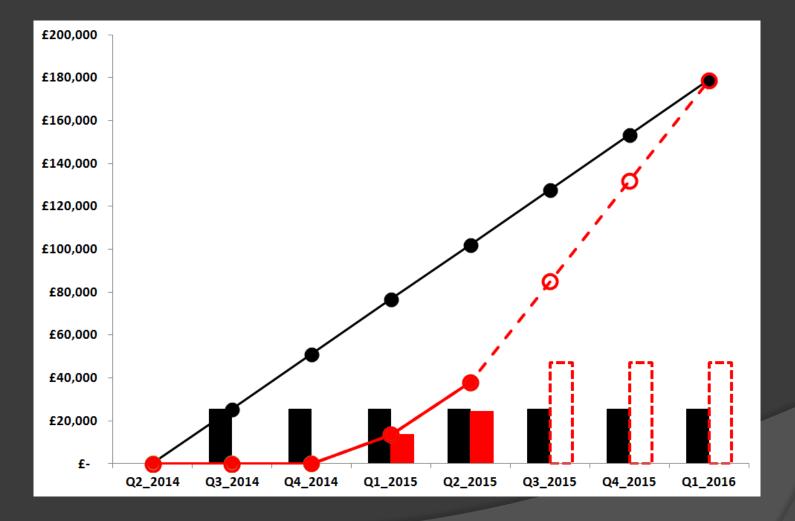
Updated Project Plan

		May-14	-14	2014	2014	2014	2015	2015	2015	2015	2016	2016
Area	Name	Ma	Jun-14	8	8	8	8	8	8	8	8	8
Project Monitoring	Kickoff meeting GLA/TfL											
Project Monitoring	Project Team Meeting											
Project Monitoring	Develop/review communications strategy for stakeholders											
Project Monitoring	Risk Mapping / review											
Measures	Identification and review evidence (ongoing)											
Measures	Prepare / update developer comms material											
Measures	Developer meetings											
Measures	Measurement site identification and installation											
Measures	Data collection and management											
Measures	Equipment maintenance											
Measures	Application Programme - Planning and management											
Measures	Application Programme											
Measures	Evaluation of impact											
Construction Hub	Scoping											
Construction Hub	Content											
Construction Hub	Build and test											
Construction Hub	Launch											

Q2 2014 Invoice

Q2_2015	Bud	dget	For	recast	F¢	orecast Variance	Bu	dget to Date	Ac	tual to Date	Va	riance to Date
Monitoring Staff	£	10,448	£	10,448	£	-	£	71,719	£	71,719	£	
IT Staff	£	375	£	375	£	-	£	18,667	£	18,667	£	
Developer communications materia	£	1,146	£	64	-£	1,082	£	2,292	£	866	-£	1,425
Equipment maintenance	£	4,000	£	138	-£	3,862	£	8,000	£	2,946	-£	5,054
Emissions abatement measures	£	25,563	£	24,425	-£	1,138	£	102,250	£	38,029	-£	64,221
Total	£	41,531	£	35,450	-£	6,082	£	202,927	£	132,227	-£	70,700

Projected Spend on measures



Any other business?

LLECP high-vis vests

• Date of next meeting