

Applicable requirements identified by Client				Applicable requirements identified by Supplier	
Section	Topic	Other documents / Comments	Y / N	Y / N	Reference to explanation - see Section 2a in attached Guidance Notes
22.4.2	Possessions		Y	Y	
23	Removal of supplier's personnel from LU Premises		Y	Y	
24	Incidents		Y	Y	
25	Notification of regulatory concern or action		Y	Y	
26	Confidential Incident Reporting and Analysis System (CIRAS)		Y	Y	
27	Monitoring		Y	Y	
27.1	LU inspections		Y	Y	
27.2	Monitoring the supply chain		Y	Y	
27.3	Health, safety and environmental surveillance by the supplier's personnel		Y	Y	
27.4	Work location inspection and audit		Y	Y	
27.5	Timescales for rectifying non-compliances		Y	Y	
28	Radio transmitters and transceivers		Y	Y	
29	Mobile phones		Y	Y	
30	Knives		Y	Y	
31	Site health, safety and environment committee		Y	Y	
32	Site housekeeping and security		Y	Y	
33	Accidental damage, obstruction or interference with assets		Y	Y	
34	Delivery of materials		Y	Y	
35	Conveyance of loads		Y	Y	
35.1	Conveyance of loads on lifts and escalators		Y	Y	
35.2	Conveyance of hazardous materials and substances		Y	Y	
36	Asbestos (non asbestos removal projects)		Y	Y	
37	Working in or near lifts and escalators		Y	Y	
38	Work on or adjacent to utilities and High Voltage cables (buried services)		Y	Y	
39	Working on or about the track		Y	Y	
40	Access to electrical sub-stations, working equipment, relay and		Y	Y	

Printed copies of this document are uncontrolled.

Page 5 of 10

Use in conjunction with [S1552](#)



Applicable requirements identified by Client				Applicable requirements identified by Supplier	
Section	Topic	Other documents / Comments	Y / N	Y / N	Reference to explanation - see Section 2a in attached Guidance Notes
	other secure rooms				
41	Entering areas with gaseous fire suppression systems		Y	Y	
42	Fire prevention		Y	Y	
42.1	General requirements		Y	Y	
42.2	Temporary fire points		Y	Y	
42.3	Timber		Y	Y	
42.4	Composites		Y	Y	
42.5	Sheeting materials		Y	Y	
42.6	Gas cylinders		Y	Y	
42.6.1	Use of gas cylinders in below ground locations		Y	Y	
42.6.2	Storage of gas cylinders (above ground)		Y	Y	
42.7	Flammable and highly flammable materials		Y	Y	
42.7.1	Use of flammable and highly flammable materials below ground		Y	Y	
42.7.2	Storage of flammable and highly flammable materials below ground		Y	Y	
43	Hot work and fire hazards		Y	Y	
43.1	Hot work		Y	Y	
43.2	Reasonable notice of works		Y	Y	
43.3	Precautions		Y	Y	
43.3.1	Buildings and assets		Y	Y	
43.3.2	Gas cylinders		Y	Y	
43.3.3	Gas detection		Y	Y	
44	Storage		Y	Y	
44.1	General requirements for storage		Y	Y	
44.2	Trackside storage		Y	Y	
44.3	Hazardous materials and substances		Y	Y	
44.4	Allocation of space on operational property		Y	Y	
45	Plant and equipment		Y	Y	
46	Clearance approvals		Y	Y	

Printed copies of this document are uncontrolled.



Applicable requirements identified by Client				Applicable requirements identified by Supplier	
Section	Topic	Other documents / Comments	Y / N	Y / N	Reference to explanation - see Section 2a in attached Guidance Notes
47	Access equipment		Y	Y	
48	Temporary works		Y	Y	
49	Temporary fences and hoardings		Y	Y	
50	Temporary lighting and power supplies		Y	Y	
50.1	General requirements		Y	Y	
50.2	Lighting in tunnels and shafts		Y	Y	
51	Screening of lights and positioning		Y	Y	
52	Environmental requirements		Y	Y	
52.1	General environmental requirements		Y	Y	
52.2	Environmental nuisance		Y	Y	
52.3	Water		Y	Y	
52.4	Waste management		Y	Y	
52.5	Noise and vibration		Y	Y	
52.6	Archaeology, historical interest and listed buildings		Y	Y	
52.7	Wildlife and Habitats		Y	Y	
52.8	Resource Use		Y	Y	
52.9	Pest control		Y	Y	
52.10	Land and water pollution prevention		Y	Y	
53	Quality requirements		Y	Y	
53.1	Records		Y	Y	
53.2	Retention period		Y	Y	
53.3	Availability of records for inspection		Y	Y	
53.4	Statistical process control, audit and inspection procedures		Y	Y	
53.5	General quality requirements		Y	Y	
53.6	Quality Plan		Y	Y	
53.7	Testing and inspection		Y	Y	
53.8	Certification of conformity		Y	Y	
53.9	Quarantine		Y	Y	

Printed copies of this document are uncontrolled.



Applicable requirements identified by Client				Applicable requirements identified by Supplier	
Section	Topic	Other documents / Comments	Y / N	Y / N	Reference to explanation - see Section 2a in attached Guidance Notes
53.10	Traceability		Y	Y	
53.11	Maintenance and servicing		N	N	
53.12	Design		Y	Y	
53.13	Computer aided design		Y	Y	
53.14	Asset commissioning and handover		Y	Y	



Other requirements / comments



Client/Supplier approval

Client Menu (Invitation to Tender)

Prepared by: _____ Signature: _____

Approved by
(the Client's
representative): _____ Signature: _____

Title: _____

Address: _____

Phone No: _____

Email: _____

Revision of this menu: _____

Supplier Menu (Tender)

Approved by
(the Supplier's): _____

Title: _____

Address: _____ ROAD, _____ CITY, _____, _____

Phone No: _____

Email: _____@DCUKFM. _____

Supplier's
representative
acceptance: _____

SCHEDULE 8 PART B: QUALITY

1. Records

- 1.1 The Supplier shall maintain such records that are specified by the Company, or required under legislation, and this shall include (as a minimum):
- 1.1.1 details of any non-compliance against any Standard;
 - 1.1.2 records of audits and site inspections;
 - 1.1.3 records of the qualifications, competence and training of staff;
 - 1.1.4 quality assurance inspections conducted (including the identity of the inspector concerned);
 - 1.1.5 equipment test calibration and verification checks conducted (including the identity of the inspector or tester concerned);
 - 1.1.6 process and manufacturing data relating to the Contract, including an audit trail for material or component identity, source and status; any process, inspection or test activity so directed by special instructions or any contract quality plan invoked by the Contract (including those set out in paragraph 6.1 of this Schedule 8 Part B (Quality));
 - 1.1.7 non-conforming service or product records;
 - 1.1.8 records of all related incoming and outgoing certificates of conformity and associated release documentation;
 - 1.1.9 records of tender and contract reviews; and
 - 1.1.10 the Supplier's policy with regard to quality.

2. Retention Period

Records shall be retained by the Supplier for a minimum of twelve years unless otherwise specified by the Company, or for any longer period as required by Applicable Laws.

3. Availability of Records for Inspection

The Supplier shall make all such records available to the Company within three (3) Working Days of any request by the Company.

4. Statistical Process Control, Audit and Inspection Procedures

Where, for quality management purposes, statistical process control procedures, audit or inspection procedures are adopted, full details of the proposed procedures used by the Supplier are to be submitted to the Company for approval prior to implementation.

5. General Quality Requirements

5.1 The Supplier shall:

- 5.1.1 appoint member(s) of its management team who, irrespective of other responsibilities, have defined authority which includes:
 - 5.1.2.1 ensuring that a quality management system is implemented and maintained;
 - 5.1.2.2 reporting to senior management on the performance of the quality management system, including any areas for improvement;
 - 5.1.2.3 ensuring awareness of customer requirements throughout the Supplier; and
 - 5.1.2.4 liaison with customers on matters relating to the Supplier's management system that result from auditing or non conformances;
- 5.1.2 ensure that during internal processing and final delivery of a product or Service to the intended destination, that the identification, packaging, storage, preservation and handling do not affect conformity with that product or Service requirements;
- 5.1.3 not proceed past "hold points" until all the specified activities have been satisfactorily completed and the related documentation is available to and authorised by the Company;
- 5.1.4 following receipt of a rejection, take immediate action to inspect all stocks and work in order to assess risk and loss and advise the Company of the findings;
- 5.1.5 take preventative action to avoid a recurrence of the non-conformities;
- 5.1.6 immediately inform the Company when the Supplier has reason to suspect non-conformities with previously supplied products or Services;
- 5.1.7 be responsible for ascertaining the cause of and responsibility for non-conformance, and for taking suitable corrective action to prevent recurrence;
- 5.1.8 document all corrective actions undertaken by the Supplier;
- 5.1.9 ensure that its supply chain work to correct practices, including accepted documentation defining the techniques to be used, workmanship criteria, safety of others (including the public), health precautions, plant and equipment to be used and training and licensing requirements;

- 5.1.10 ensure that the works comply with any manufacturer's recommendations, instructions and guidelines, unless otherwise directed by the Company;
- 5.1.11 operate and maintain all plant, equipment and processes in accordance with the relevant manufacturer's or supplier's specification or procedures, unless otherwise directed by the Company;
- 5.1.12 take all necessary steps to identify, recall, re-inspect and replace any equipment or parts which have been inspected using inspection, measuring or test equipment whose calibration is found to be defective or unknown;
- 5.1.13 store and protect inspection, measuring and test equipment and materials to prevent misuse, damage and deterioration;
- 5.1.14 ensure that all equipment bears an identification of its calibration or maintenance status, in a manner that clearly indicates it is within the calibration or maintenance period; and
- 5.1.15 deliver all Services, technical and non-technical, in accordance with the Specification and relevant ISO standards.

6. Quality Plan

6.1 The Supplier shall:

- 6.1.1 provide a recognised Quality Management Plan (as required pursuant to Schedule 21 (Contract Management)) and Quality Assurance and Management System applicable to the compliant delivery of the Services, certified to the BS EN ISO 9001 2015 standard, or equivalent, by a United Kingdom Accreditation Service ("UKAS") (or equivalent accredited certification body) or to a level that meets the approval of the Company;
- 6.1.2 have in place a Quality Management Policy to the standard of BS EN ISO 9001, or equivalent or to a level that meets the approval of the Company; ensure the Quality Management Plan and Quality Assurance and Management System applied to this Contract shall be annually and independently audited and verified by a UKAS accredited body. This applies equally to environmental management, health and safety, and any other which may be included in the Contract or which may be introduced at any time;
- 6.1.3 oversee all activities and tasks needed to maintain optimisation and delivery of the Services. This includes creating and implementing quality planning and assurance, as well as quality control and quality improvement. The Supplier shall ensure that the Quality Management Plan demonstrates the Supplier's process control system as required for the Contract. It shall include the practice and fundamental principles of Total Quality Management ("TQM") including: plan, do, check act;
- 6.1.4 ensure the Quality Management Plan shall be operated by the Supplier throughout the duration of the Contract and the Supplier shall maintain and periodically revise the Quality Management Plan as required (and in accordance with Schedule 21 (Contract Management)) and provide it in its amended form to the Company each time it is amended; and

6.1.5 have in place a robust audit regime to ensure optimisation of quality and standards of the delivery of the Services.

6.2 The format of the Quality Management Plan shall be determined by the Company and should be developed in accordance with BS ISO 10005:2005 (Guidance on Quality Plans) or to a level that meets the approval of the Company.

SCHEDULE 8 PART C: ENVIRONMENTAL REQUIREMENTS

Definitions

“**BREEAM**” means the Building Research Establishment Environmental Assessment Method.

“**BREEAM New Construction Infrastructure (Pilot)**” means the Building Research Establishment Environmental method and assessment pilot Scheme

“**CEEQUAL**” means the Engineering Environmental Quality Assessment and Award Scheme.

“**Congestion Charge**” means the fee charged on most motorised vehicles operating within a defined charge zone in London under a scheme managed by TfL.

“**Environmental Management System**” or “**EMS**” has the meaning given to it in paragraph 1.2 of this Schedule 8 Part C (Environmental Requirements).

“**Environmental Management Plan**” or “**EMP**” has the meaning given to it in paragraph 1.3 of this Schedule 8 Part C (Environmental Requirements).

“**Green Infrastructure**” or “**GI**” has the meaning given to it in Schedule 3 (Specification) and is set out within Appendix A (Services Matrix) of Schedule 3 (Specification).

“**LU HSE Policy**” means the policy set out in Appendix 1 to this Schedule 8 Part C (Environmental Requirements).

“**Pollution Response Plan**” or “**PRP**” has the meaning given to it in paragraph 8.5 of this Schedule 8 Part C (Environmental Requirements).

“**Site Noise and Vibration Evaluation and Control**” means the process set out in Appendix 4 to this Schedule 8 Part C (Environmental Requirements).

“**TfL Corporate Environment Framework**” means the policy set out in Appendix 2 to this Schedule 8 Part C (Environmental Requirements).

“**TfL Specialist Services HSE Policy**” means the policy set out in Appendix 1 to this Schedule 8 Part C (Environmental Requirements).

“**Waste Management Plan**” or “**WMP**” has the meaning given to it in paragraph 7.2.1 of this Schedule 8 Part C (Environmental Requirements) and as set out in Appendix 5 to this Schedule 8 Part C (Environmental Requirements).

1. Section 1

1.1. Introduction

- 1.1.1. The Mayor wants London to be recognised as a world leader in improving the environment, locally and globally. The Greater London Authority (“GLA”) has published a number of detailed strategic aims on air quality, water, waste, climate change adaptation, and climate change mitigation and energy. These build on the GLA’s “Leading to a Greener London” document¹, published in 2009, which sets out London’s aim to be one of the greenest cities in the world. There is an ambition to cut London’s carbon emissions by 60% by 2025.
- 1.1.2. More specifically, the Company has set the following targets within the TfL Corporate Environment Framework (set out in Appendix 2 to this Schedule 8 Part C (Environmental Requirements)), to help achieve the Mayoral goals:
 - 1.1.2.1. the Company will contribute towards achieving the Mayor’s target of a 60 per cent reduction in CO₂ emissions by 2025 (against a 2013 baseline) by aiming for a 40 per cent cut in TfL CO₂ emissions;
 - 1.1.2.2. the Company will further reduce the amount of carbon emitted per passenger journey by cutting emissions of CO₂ per passenger kilometre by 40 per cent by 2025 (against a 2013 baseline);
 - 1.1.2.3. the Company will seek to support the Mayor’s air quality targets for London by delivering a 50 per cent reduction in NOx emissions from the bus fleet by 2020, against a 2013 baseline;
 - 1.1.2.4. the Company will reduce particulate matter (“PM”) emissions from the bus fleet by 25 per cent by 2020, against a 2013 baseline; and
 - 1.1.2.5. the Company will reuse, recover and recycle 99 per cent of non-hazardous waste by 2031. The Company will set interim targets to achieve this and will use 30 per cent of non-hazardous waste specifically for energy from recovery.
- 1.1.3. The Company expects the Supplier to play a leading role in helping the Company achieve its current and future environmental objectives and targets, to ensure the delivery of all current and future Mayoral policies and strategies relevant to the Company.

¹ <http://www.london.gov.uk/priorities/environment/vision-strategy/leading-to-a-greener-london>

1.2. Environmental Management System

- 1.2.1. The Supplier shall have in place an environmental management system ("EMS") that is bespoke to the Contract and which, as a minimum, meets the requirements set out below:
 - 1.2.1.1. the EMS shall be certified to the BS EN ISO14001 standard, or equivalent standard, by a United Kingdom Accreditation Service ("UKAS") (or equivalent) accredited certification body or to a level that meets the approval of the Company or the Supplier shall have an environmental management policy, and also an independently audited EMS to the standard of BS EN ISO14001, or equivalent;
 - 1.2.1.2. the Supplier shall carry out environmental aspect and impact assessments to identify all potential environmental aspects and impacts related to its activities, products and services it delivers and the Supplier shall provide details of any necessary environmental control measures to the Company. These are included in risk and benefit identification, control and mitigation measures outlined in designs and safe systems of work for any element of the works forming part of the Services;
 - 1.2.1.3. the Supplier shall review the environmental aspect and impact assessments as a minimum once a year, but must ensure they, and any associated control and mitigation measures, remain pertinent to the works forming part of the Services; and
 - 1.2.1.4. the EMS shall be consistent with and support the principles of the Rail and Underground HSE Policy, set out in Appendix 1 and the Company's Corporate Environment Framework set out in Appendix 2 to this Schedule 8 Part C (Environmental Requirements).

1.3. Environmental Management Plan

- 1.3.1. As part of the EMS, the Supplier shall develop, implement and maintain a contract specific environmental management plan ("EMP") (in accordance with the requirements of Schedule 21 (Contract Management)) for the delivery of the Services, to be submitted to and approved by the Company's Representative within three (3) months of the Commencement Date.
- 1.3.2. The EMP shall be updated annually and not later than on each anniversary of the Commencement Date.
- 1.3.3. The Supplier shall make the EMP available to the Company for regular review (but not less than annually) at the Quarterly Review meetings and Annual Strategic Review meetings held in accordance with Schedule 21 (Contract Management).
- 1.3.4. Within the EMP, the Supplier shall demonstrate its contribution towards delivering the Company's environmental objectives including, but not limited to, how the Supplier shall:

- 1.3.4.1. ensure environmental aspects are considered and incorporated in to its activities;
- 1.3.4.2. use partnership working on environmental matters (for example, regulators, environmental bodies, industry groups, client and supply chains);
- 1.3.4.3. identify all potential environmental aspects and impacts of the Contract, specific to its activities (from planning to delivery) demonstrating how the Supplier intends to minimise the potential risks and impacts;
- 1.3.4.4. ensure its environmental key performance indicators and targets contribute to the objectives and targets set out in the Company's Corporate Environment Framework (set out in Appendix 2 to this Schedule 8 Part C (Environmental Requirements)) in relation to:
 - **carbon, energy and climate resilience:** demonstrating that the Supplier is actively minimising use of energy derived from fossil fuels in performing its obligations under the Contract; setting and achieving a target/reduction in CO₂ emissions, in line with the Company's environmental objectives and targets;
 - **reduction of air pollutants:** setting and achieving targets for reduction in air pollutants (PM and nitrogen oxides) in line with the Company's environmental objectives and targets from sources under the control of the Supplier, and demonstrating how the Supplier is meeting the Company's vehicle emissions requirements;
 - **reduction of noise, nuisance and vibration:** setting and achieving a target/reduction in noise in line with the Company's environmental objectives and targets;
 - **materials, resources and waste management:** demonstrating a reduction in use of resources, such as water, minimising the generation of waste, avoiding the use and production of hazardous materials and the prevention of pollution, and achieving a % of waste diverted from landfill rate of 99% (or an equivalent reuse and recycling rate); and
 - maintaining and, where possible, enhancing the quality of the built and natural environment;
- 1.3.4.5. demonstrate that the Supplier is meeting the requirements of the Company's Sustainable Timber Policy; and
- 1.3.4.6. provide the Company with an environmental staffing plan, setting out the Supplier's environmental management organisation structure, identifying roles, accountabilities and responsibilities, and points of liaison with the Company. The environmental staffing plan must

demonstrate resources are appropriate to the scale and nature of the relevant Services.

1.4. Report on Progress

1.4.1. The Supplier shall provide the Company's Representative with an environmental performance report, including information on the performance of the EMS. The report shall be submitted annually and not later than on each anniversary of the Commencement Date, and shall contain, but shall not be limited to:

1.4.1.1. any updates to previous EMPs;

1.4.1.2. a summary of the environmental statistics for the previous year, including inter alia, environmental reviews;

1.4.1.3. a summary of findings and trends from audits, inspections and evaluations of compliance with legal and with other requirements;

1.4.1.4. a summary of any changing circumstances, including developments in legal and other requirements; and

1.4.1.5. proposed environmental improvement targets, together with commentary on the previous year's improvement targets, including status of corrective and preventative actions undertaken by the Supplier.

1.5. Environmental Planned General Inspections

1.5.1. As part of the EMP and within six (6) weeks of the Commencement Date, the Supplier must review and update the current Environmental Planned General Inspection ("EPGI") template (set out in Appendix 3 to this Schedule 8 Part C (Environmental Requirements)) with current legislation and other requirements, relevant to this Contract. The template must be kept up to date by the Supplier at all times.

1.5.2. Frequency of EPGIs must conform to the requirements of Schedule 12 (Performance Measurement) for Supplier audits but shall be suitable and sufficient to ensure all risks are mitigated.

1.6. General Requirements

Without prejudice to its other obligations contained in this Contract, the Supplier shall ensure that it carries out its obligations in response to any environmental incidents and their reporting in a manner approved by the Company.

2. Section 2

2.1. Sustainable Design and Operations

2.1.1. The Supplier shall address, as a minimum, the following principles to maximise the sustainable performance of its activities including, but not limited to:

2.1.1.1. using principles that consider the longer-term design life of the building and assets and that will offer solutions that will remain state of the art;

2.1.1.2. designing systems and installing and maintaining equipment that will reduce energy use and the operational cost of the buildings and assets. In particular the Supplier shall:

- ensure energy efficiency measures (including lighting, HVAC, building management systems) are utilised;
- ensure that the new systems are compatible with the energy system and load requirements at the existing Site;
- investigate the feasibility of incorporating renewable or decentralised energy;
- ensure designs provide natural ventilation, rather than mechanical, where possible; and
- ensure passive design measures remove heat from the asset, rather than using mechanical cooling;

2.1.1.3. designing systems and installing and maintaining equipment that minimises water use during installation and operation of the asset. Maintenance of water consuming equipment will include, but shall not be limited to, low volume taps/showers, dual flush toilets, waterless urinals, low volume urinal flush controls, rainwater and grey water recycling systems, green infrastructure irrigation systems and cooling towers.

2.2. CEEQUAL and BREEAM

2.2.1. Where the Company has already arranged for the activity to be part of CEEQUAL, BREAAAM New Construction Infrastructure (pilot), and/or BREEAM the Supplier shall compile and provide relevant evidence to support CEEQUAL, BREAAAM New Construction Infrastructure (pilot), and/or BREEAM submissions to the Company. The Supplier shall use the CEEQUAL or BREEAM processes to aid the consideration of environmental sustainability and to drive improvements in performance during the design development, installation and maintenance phases of the Services.

3. Section 3

3.1. Climate Resilience

- 3.1.1. The Supplier shall ensure that any design, installation and maintenance work it performs as part of the Services takes into account the climate parameters over the whole design life in which the building and asset must perform, to support resilience to extreme weather.
- 3.1.2. The Supplier shall ensure that the building and asset remains fit-for-purpose for the Company's needs during its design life period, taking into account the range of extreme weather and climate parameters that may occur during that time. This shall include, but shall not be limited to:
 - 3.1.2.1. keeping the buildings and assets within specified temperature tolerances as defined in the Company's standards relevant to the building and asset type applicable to this Contract; and
 - 3.1.2.2. all refits including measures to assist with keeping buildings and assets resilient during their design life including, but not limited to, water efficiency, natural ventilation and shading, greening, and sustainable drainage.

4. Section 4

4.1. Reducing Carbon Emissions and water usage

4.1.1. The Supplier shall:

- 4.1.1.1. ensure that when replacing assets, the Supplier selects assets with more energy efficient equipment. The Supplier shall notify the Company's Representative where this is not technically feasible, for example, in relation to a heritage feature;
- 4.1.1.2. measure and report on carbon emissions and develop plans to reduce carbon emissions and energy usage that supports the Company in delivering its programme to improve energy efficiency, helping decrease emissions and lower costs;
- 4.1.1.3. make use of the Company's automated Monitoring and Targeting ("aM&T") software to analyse site performance, control out of hours consumption and also suggest, measure and verify efficiency enhancement projects;
- 4.1.1.4. maintain and run on site generation equipment (including PV, wind, solar thermal, combined heat and power and absorption chillers) to reduce and optimise building carbon emissions; and
- 4.1.1.5. maintain the Company's assets in accordance with all ozone depleting substances and fluorinated greenhouse gas legislation compliance, including statutory air conditioning inspections, to optimise efficiency of cooling equipment, for current, pending and future legislation.

5. Section 5: Air Quality and Dust

5.1. Control of Vehicle Emissions

- 5.1.1. The Supplier shall ensure that in the procurement or leasing of vehicles for use in the delivery of the Services:
 - 5.1.1.1. consideration is given to CO₂, air quality and noise impacts; and
 - 5.1.1.2. a technology neutral approach is adopted.
- 5.1.2. All vehicles used in the delivery of the Services shall meet or exceed the following CO₂ limits and European emission standards at the Commencement Date:
 - 5.1.2.1. cars - maximum certified CO₂ emissions of 105 g/km and a minimum of Euro V emission standards;
 - 5.1.2.2. vans equal to or less than 1205 kg kerb weight – maximum certified CO₂ emissions of 115 g/km CO₂ and a minimum of Euro V emission standards;
 - 5.1.2.3. vans between 1205 and 1660 kg kerb weight – maximum certified CO₂ emissions of 155 g/km CO₂ and a minimum of Euro V emission standards;
 - 5.1.2.4. vans greater than 1660 kg kerb weight – maximum certified CO₂ emissions of 215 g/km CO₂ and a minimum of Euro V emission standards; and
 - 5.1.2.5. heavy duty vehicles greater than 3500 kg kerb weight – Euro V emission standards.
- 5.1.3. If any vehicles used in the provision of the Services are due for replacement before the Expiry Date, the Supplier shall ensure that the replacement vehicle/engine meets or exceeds the European emission standards and CO₂ limits (if applicable) for the year in which it is introduced into the fleet. Standards and the years in which they apply are set out in paragraph 5.3.3 below. If compliant vehicles/engines are not available by the specified deadline, the Company may (at its sole discretion) consider acceptance of an alternative standard proposed by the Supplier until such time as those vehicles become available.

5.2. European Emission Standards for Road Vehicles

- 5.2.1. In line with Mayoral environmental strategy and the Company's commitments to reduce CO₂ emissions, the Supplier is encouraged to include zero or ultra low carbon vehicles such as electric or plug-in hybrid or bio methane vehicles in its fleet, wherever possible.
- 5.2.2. Any necessary recharging/refuelling infrastructure required for low carbon vehicles to be supplied by the Supplier on the Company's Sites will only be permitted subject to the Company's written acceptance and by separate agreement on maintenance, installation and running costs. Where the Supplier operates such vehicles, operating experience and data will be shared with the Company on request.
- 5.2.3. The Supplier shall select vehicles for the performance of the Services which meet the highest environmental criteria and will be eligible for a 100% discount from the Congestion Charge. The Supplier shall be solely responsible for payment of any

Congestion Charge and the Company does not accept any claims for reimbursement of Congestion Charges.

5.2.4. The Supplier shall ensure that all vehicles used in the performance of the Services are operated in such a way to ensure that environmental impacts are reduced as far as reasonably practicable. Operating data for all vehicles will be shared with the Company when requested.

5.2.5. The Supplier shall:

5.2.5.1. ensure vehicles used in connection with the Services are regularly serviced in line with the Manufacturers recommendations;

5.2.5.2. ensure all faults or problems on such vehicles are repaired/addressed as soon as practicable; and

5.2.5.3. monitor and record all vehicle fuel and mileage in connection with the performance of the Services.

5.2.6. The Supplier shall report the following information to the Company on a Quarterly basis in advance of each Quarterly Review as set out in Schedule 21 (Contract Management):

5.2.6.1. vehicle make and model;

5.2.6.2. vehicle servicing frequency;

5.2.6.3. vehicle fuel (fuel type and litres used);

5.2.6.4. vehicle mileage (excluding hire vehicles); and

5.2.6.5. percentage of the fleet on hire.

The Company reserves the right to include additional monitoring requirements if required.

5.2.7. The Supplier shall ensure that all driving staff undertake a fuel efficient and safe driver training course within three (3) months of commencing performance of the Services. The Supplier shall ensure that the training course consists of theoretical training and practical implementation skills and is a minimum duration of one (1) hour.

5.2.8. The Supplier shall provide the driver training records to the Company as instructed by the Company's Representative.

5.3. Equipment and Non-Road Mobile Machinery

5.3.1. The Supplier shall ensure that the adverse impacts of emissions from equipment used in the performance of the Services are minimised. Measures to be considered for limiting emissions and avoiding nuisance will include any one or more of the following as appropriate (and as far as reasonably practicable):

5.3.1.1. ensuring that the engines of all vehicles and equipment used in connection with the Services are not left running unnecessarily;

- 5.3.1.2. using low emission vehicles and equipment fitted with catalysts, diesel particulate filters or similar devices;
 - 5.3.1.3. using ultra low sulphur fuels in plant and vehicles;
 - 5.3.1.4. requiring equipment and vehicles to be well maintained, with routine servicing to be completed in accordance with the manufacturers' recommendations and records maintained for the work undertaken;
 - 5.3.1.5. requiring all vehicles, including off-road vehicles, to hold current MOT certificates, where required by Applicable Laws (or tested to an equivalent standard) and requiring them to comply with exhaust emission regulations for their class;
 - 5.3.1.6. using routes and operating equipment away from potential receptors such as houses, schools and hospitals;
 - 5.3.1.7. avoiding the use of diesel or petrol powered generators and instead using mains electricity or battery powered equipment;
 - 5.3.1.8. maximising energy efficiency (this may include using alternative modes of transport, maximising vehicle utilisation by ensuring full loading and efficient routing); and
 - 5.3.1.9. providing all operating data which complies with the schedules, deadlines and timelines as required to the Company as part of the Supplier's Quarterly reporting obligations (as set out in Schedule 21 (Contract Management)).
- 5.3.2. All of the Supplier's non-road mobile machinery ("NRMM") must meet or exceed the emission standards relevant at the Commencement Date, which are as follows:
- 5.3.2.1. NRMM of net power between 19 and 36 kW –Stage IIIA of EU Directive 97/68/EC (as amended) emission standards;
 - 5.3.2.2. NRMM of net power between 37 and 55 kW –Stage IIIA of EU Directive 97/68/EC (as amended) emission standards;
 - 5.3.2.3. NRMM of net power between 56 and 560 kW –Stage IIIB of EU Directive 97/68/EC (as amended) emission standards; and
 - 5.3.2.4. from 1 September 2020: NRMM of net power between 37kW and 560kW used on any site within Greater London – Stage IIIB of EU Directive 97/68/EC (as amended) emission standards.
- 5.3.3. In addition, where the requirements of "The control of dust and emissions during construction and demolition - Supplementary Planning Guidance (SPG) Greater London Authority (2014)" are applicable, all of the Supplier's NRMM must comply with the following additional requirements for the NRMM Low Emission Zone detailed in the SPG:
- 5.3.3.1. NRMM used on any site within the Central Activity Zone or Canary Wharf will be required to meet Stage IIIB of EU Directive 97/68/EC (as amended) emission standards as a minimum; and

5.3.3.2. from 1 September 2020: NRMM used on any site within the Central Activity Zone or Canary Wharf must meet Stage IV of EU Directive 97/68/EC (as amended) emission standards as a minimum.

5.3.4. All NRMM must meet the applicable standards unless it can be demonstrated that the machinery is not available or that a comprehensive retrofit to meet PM10 and NOx emission standards is not feasible. In this situation, every effort must be made by the Supplier to use the least polluting equipment available, including retrofitting technologies to reduce particulate emissions.

5.3.5. The Supplier must comply with the GLA's NRMM exemption policy (which can be found at nrmm.london) for any NRMM which cannot meet the emissions requirements, The Supplier shall seek exemption from the Company's Representative for any NRMM of net power between 19 and 36 kW that cannot comply with the emissions standards.

5.3.6. The Supplier shall also:

5.3.6.1. maintain an inventory of all on-site NRMM using the GLA's nrmm.london database; and

5.3.6.2. regularly service all machinery and keep records on Site.

5.4. Dust

5.4.1. The Supplier shall use the best practicable means to reduce dust and other emissions at all times during performance of the Services and shall not to create a dust nuisance.

5.4.2. If the Company's Representative decides that the Supplier is not dealing adequately with the control of dust or other emissions, the Company's Representative may instruct the Supplier to carry out such additional measures as the Company's Representative considers necessary. Such measures are not subject to the Contract variation procedure set out in Schedule 6 Part A (Contract Variation Procedure) of the Contract.

6. Section 6: Noise and Vibration

6.1. General

6.1.1. The Supplier shall:

- 6.1.1.1. use the best practicable means to control and limit noise and/or vibration levels so that affected properties, and other sensitive receptors, are protected from excessive or prolonged noise and vibration associated with all activities;
- 6.1.1.2. develop and maintain a Noise and Vibration Management Plan, as part of the EMP, for activities with the potential to generate noise and/or vibration. The Noise and Vibration Management Plan shall set out how noise and vibration requirements shall be managed and the Supplier shall undertake the Services in strict adherence to this plan;
- 6.1.1.3. apply the best practicable means to reduce noise and vibration at all times having regard to the provisions of the latest edition of BS5228 (Code of Practice for Noise and Vibration Control) or other relevant Good Industry Practice;
- 6.1.1.4. stipulate and ensure adherence to behavioural conditions for workers in relation to minimising impacts to neighbours, such as conduct when arriving and leaving the Company's Sites during any night works; and
- 6.1.1.5. employ a trained and competent person to undertake noise and/or vibration monitoring if required and comply with any additional measures required including relocation or modification of equipment to reduce noise and vibration. The monitoring scope shall be agreed with in advance with the Company's Representative and monitoring results shall be provided to the Company on request.

6.1.2. In its performance of the Services, the Supplier shall comply with the requirements of the Company's Pathway Site Noise and Vibration Evaluation and Control (set out in Appendix 4 to this Schedule 8 Part C (Environmental Requirements)).

6.2. Prior Consent

6.2.1. If activity with the potential to generate noise and vibration is to be carried out outside of normal working hours, and/or the noise and vibration generated is likely to cause significant disruption or harm, the Supplier shall:

- 6.2.1.1. liaise with the Company to determine whether a Section 61 consent (under the Control of Pollution Act 1974), or other form of noise agreement, will need to be in place prior to commencing the relevant works;
- 6.2.1.2. provide the Company with the following information to enable a decision to be made on whether a Section 61 Consent, or other form of noise agreement, is required:

- the nature of the activity being undertaken;
- the time of day the activity will be undertaken;
- the duration of the activity;
- the proximity of neighbours; and
- the sensitivity of neighbours (for example, residents, schools, hospitals and places of worship) that would likely be considered more sensitive to noise than industrial areas); and

6.2.1.3. be responsible for obtaining the consent prior to commencing the relevant works, and for complying with all aspects of the consent.

6.3. Notifications

6.3.1. The Supplier shall take a proactive approach to notifying neighbours and other relevant stakeholders in advance of the commencement of any construction or maintenance works being performed by the Supplier as part of the Services that will affect them in any way, including noise and vibration impacts, impacts from staff noise, access and welfare or staff parking and travel.

6.3.2. The Supplier shall submit to the Company's Community Relations representative (via communityrelations@tfl.gov.uk) the draft notification letters for approval no less than 14 days prior to the works commencing.

6.3.3. Notification letters shall include details of the:

6.3.3.1. location of works;

6.3.3.2. reason for the works;

6.3.3.3. information about potential impacts: noise and vibration, parking, staff access and welfare locations;

6.3.3.4. duration of the works;

6.3.3.5. working hours; and

6.3.3.6. TfL customer services details.

6.3.4. Letters shall be produced on TfL letterhead and the Company shall provide a template when required.

6.3.5. Once the details of the notification letters have been accepted by the Company's Community Relations representative, the letters shall be distributed to all properties potentially affected by the proposed works no less than 10 days prior to works commencing. In most instances, distribution will be arranged by the Company. For smaller areas of impact, the Supplier will be directed to undertake the distribution directly. In ascertaining the distribution area, the Supplier shall carefully consider potential noise and vibration, areas affected by staff parking, access or welfare requirements, delivery and loading of equipment.

6.3.6. A briefing note about work activities that could potentially affect the community shall be provided by the Supplier to the Company's Community Relations representative in advance of the commencement of the works. This briefing note will be used to brief key stakeholders to address any complaints or enquiries. The briefing note shall contain a copy of the notification letter, the recommended distribution area of the letter, a location map of the works, best practicable means used to mitigate potential adverse impacts and the name and contact details (for internal use only) of the Supplier's Representative, who is required to provide further information where requested in accordance with the Supplier's complaints handling process.

6.4. Noise Complaints Handling

6.4.1. The Supplier shall develop a complaints handling process agreed with the Company's Representative. As a minimum, the complaints handling process shall include the following:

6.4.1.1. TfL's customer services details on all public facing communication;

6.4.1.2. information on how complaints and enquiries will be responded to when passed on by TfL customer services;

6.4.1.3. details of the emergency response system that will be employed for dealing with emergency issues; and

6.4.1.4. reporting all complaints/enquiries and their responses within 24 hours of receipt to the Company using TfL customer services and to the Company's Community Relations representative.

7. Section 7: Waste and Resources Management

7.1. Waste Electronic and Electrical Equipment

With regard to the latest version of the Waste Electrical and Electronic Equipment Regulations 2006 ("WEEE 2006"), the Supplier shall indemnify and keep indemnified the Company as a result of any losses which it incurs as a result of any failure on the part of the Company or the relevant producer to comply with the requirements of WEEE 2006.

7.2. Waste Other

7.2.1. The Company requires the Supplier to promote recycling, minimise its waste and play a leading role in helping the Company achieve its environmental targets. The Supplier shall develop, implement and maintain a Waste Management Plan ("WMP"), as part of the EMP, to cover the waste arisings it is responsible for, support the Company's objective to use materials more efficiently and reduce waste to landfill in order to achieve the following target:

"the Company will reuse, recover and recycle 99 per cent of non-hazardous waste, with interim targets by 2031 and 30 per cent for specifically for energy from recovery".

7.2.2. The Supplier's WMP shall document how the Supplier will:

7.2.2.1. implement the waste hierarchy;

7.2.2.2. comply with current legislation in relation to the storage, handling, treatment, transfer and disposal of all waste materials produced in the performance of the Services. As a carrier of waste, the Supplier shall be registered as a Waste Carrier with the Environment Agency and shall provide evidence of registration within the WMP and on renewal of the registration;

7.2.2.3. set waste reuse, recovery and recycling targets that meet or exceed the Company's targets;

7.2.2.4. monitor and report waste arising in line with the Supplier's reporting requirements under Schedule 21 (Contract Management) each Period in advance of the Period Progress Meeting;

7.2.2.5. ensure all Supplier Personnel are trained in waste minimisation and management techniques;

7.2.2.6. increase recycled content of materials used in construction and any other materials purchased; and

7.2.2.7. document all decisions taken during any design work to reduce waste, and ensure this information is passed to Company.

7.2.3. The Supplier shall implement and update the Waste Management Plan, maintain records throughout the duration of this Contract and make available these records for review by the Company on request.

7.2.4. The Supplier is responsible for the management and removal of all waste arisings as

soon as practicably possible in accordance with Good Industry Practice.

- 7.2.5. The Supplier shall make available to the Company, within 3 Working Days of request, any waste records (such as Consignment notes and transfer notes).
- 7.2.6. Where involved in project work, the Supplier shall comply with the requirements of the TfL Pathway Waste Management Plan (set out in Appendix 5 to this Schedule 8 Part C (Environmental Requirements)).
- 7.2.7. All works being carried out at Company office buildings must use this template TfL Facilities: Small Projects Waste Proforma to record and submit waste data.

7.3. Recycled Content of Materials

The Supplier shall ensure a minimum of 20% of the total material value of products and materials selected for the works being performed as part of the Services derives from reused and recycled content. The Supplier shall submit proposals to the Company's Representative in relation to the areas of opportunity to exceed this target figure. The Supplier shall provide a detailed explanation and justification in the WMP to the Company's Representative for any failure to achieve the 20% target figure. Performance shall be reported, as part of the EMP, in the annual environmental performance report referred to in paragraph 1.4 (Report on Progress) of this Schedule 8 Part C (Environmental Requirements).

8. Section 8: Pollution Prevention

- 8.1. The Supplier shall comply with all Applicable Laws and Good Industry Practice to prevent pollution and environmental nuisance.
- 8.2. The Supplier shall ensure that the EMP and aspect and impact assessments for specific tasks and activities adequately identify all potential pollution sources, pathways and sensitive receptors.
- 8.3. The Supplier shall ensure that the EMP will detail how pollution risks will be managed including specific controls to be put in place, which must be strictly complied with.
- 8.4. The Supplier shall ensure that all controls identified will be included in safe systems of work and briefed to all Supplier Personnel.
- 8.5. The Supplier shall ensure that a Pollution Response Plan ("PRP") and all necessary pollution response equipment required to reduce risks to as low as reasonably practicable are in place within one (1) month of the Commencement Date. The PRP shall set out actions to be taken in the event of an environmental incident. The Supplier shall ensure all Supplier Personnel are familiar with the plan and trained in actions to take if an incident occurs.

8.6. Deliveries and Storage

8.6.1. Where the Supplier manages bulk fluid deliveries (over 25 litre drums) it shall:

8.6.1.1. ensure that a spill kit of appropriate size and content, commensurate with the risk, is located in an open access location immediately adjacent to the risk; and

8.6.1.2. seek written assurance from the supplier that the third party delivery operatives are trained, competent and familiar with making deliveries to the Sites and if not, they shall be accompanied by the Supplier's Representative until such time they become so.

8.6.2. Where bulk storage tanks (above 55 gallon/250 litres) are provided and maintained by the Supplier, the Supplier shall ensure they are fitted with serviceable engineering controls, appropriate to site risk, to prevent environmental harm, such as fitting and maintaining alarms and other notification systems.

8.6.3. The Supplier shall manage the testing, licensing and other regulatory regimes related to the tanks on the Sites as required by the Company from time to time.

8.7. Site set-up

8.7.1. The Supplier shall ensure that, where reasonably practicable and appropriate, its activity will be designed to prevent pollution arising including, but not limited to:

8.7.1.1. Sites secured and screened using existing features where appropriate;

- 8.7.1.2. storage sites, any plant and machinery equipment and temporary staff facilities located to limit environmental impacts, as far as reasonably practicable, having due regard to neighboring accommodation, as far as allowed by the constraints of each Site;
- 8.7.1.3. security cameras (if required) sited and directed so that they do not intrude into occupied residential properties;
- 8.7.1.4. site plant and facilities powered from mains electrical sources wherever practicable;
- 8.7.1.5. the Supplier shall display a contact name, telephone number and address, and the helpline number at appropriate locations on the boundaries of the Sites;
- 8.7.1.6. the extent and height of hoarding or fencing at a particular location will be selected to maintain effective security and achieve appropriate noise attenuation and visual screening;
- 8.7.1.7. all vehicle access and egress points with gates positioned such that no gate will be permitted to open out onto the highway. As far as reasonably practicable, gates will be located to allow vehicles to drive clear of any public highway. Where provided for noise control, gates will be of a similar material and construction to the boundary in which they are situated and will be closed except when being used for access; and
- 8.7.1.8. disturbance of environmental features such as vegetation and watercourses will be minimised.

8.8. Monitoring and reporting

- 8.8.1. The Supplier shall employ a trained and competent person(s) to undertake environmental monitoring. The Supplier shall comply with any additional measures required by the Company's Representative including relocation or modification of equipment to reduce noise, vibration, nuisance, light, dust, pollution and other disturbances.
- 8.8.2. The Supplier shall report all complaints/enquiries and their responses within 24 hours of receipt to the Company using TfL customer services, the Company's Representative and the Company's Community Relations representative.

8.9. Effluent discharge consents

- 8.9.1. When providing maintenance of drains and interceptors, the Supplier shall ensure that it maintains effluent discharge within the legal effluent discharge consent limits.
- 8.9.2. When required by the Company, the Supplier shall also support the maintenance of effluent discharge consent within legal limits, by providing ad-hoc maintenance of drains and interceptors.

8.10. Contaminated land

8.10.1. The Supplier shall comply with all relevant statutory requirements and Good Industry Practice in relation to contaminated land.

8.10.2. The Supplier shall notify the Company if any contaminated land or water has been discovered.

9. Section 9: Natural Environment

9.1. Green Infrastructure

9.1.1. Within the EMP, the Supplier shall demonstrate that it meets the most current version of the following industry standards, when delivering maintenance services (as part of the Services) on the Green Infrastructure (“GI”):

9.1.1.1. Construction Industry Research And Information Association (CIRIA) Sustainable Urban Drainage System (SUDS) Manual C753;

9.1.1.2. CIRIA Building Greener: Guidance on the use of green roofs, green walls and complimentary features on buildings C644;

9.1.1.3. CIRIA Retrofitting to manage surface water C713;

9.1.1.4. CIRIA Biodiversity Benefits of Green Infrastructure C711; and

9.1.1.5. Gro Green Roof Code 2014.

9.1.2. The Supplier shall check all storage areas on roofs to ensure they meet the structure’s loading capacity prior to commencement of the Works.

9.1.3. For any roof works that have an interface with members of public, Supplier Personnel or assets, a debris net must be installed to separate the area and prevent any debris coming into contact with members of public, Supplier Personnel or assets.

9.2. Pest Control

Within one (1) month of the Commencement Date, the Supplier shall demonstrate how the principles of Integrated Pest Management, as defined by the British Pest Control Association or the Royal Society of Public Health, will be implemented.

9.3. Biodiversity Management

9.3.1. The Company has a legal duty to have due regard to biodiversity, as well as duties from the Mayor of London to improve biodiversity. Therefore, when providing services to the Company, the Supplier shall:

9.3.1.1. take into account relevant Company and London Borough biodiversity plans;

9.3.1.2. preference the use of native plant species appropriate to the location and maintenance requirements of the site as a minimum; and

9.3.1.3. when selecting control methods, ensure they prevent harmful effects to any other species other than those intended for treatment.

10. Section 10: Reducing the environmental impact of materials

10.1. VOCs and chemicals with adverse environmental impacts

The Supplier shall develop a plan within the first year of the Commencement Date to identify all products used in the performance of the Services and then risk assess and propose the phased replacement of high VOC products or similar e.g. paints, aerosols, degreasers, adhesives, sealants etc. herbicides, drain cleaners pesticides, biocides and other similar products with a “lower” environmental impact. The intention of the plan is to remove over time all high impact or high risk products over the first three years of the period of the Contract.

Appendix 1: Health Safety and Environment Policies

TfL Health, Safety and Environment Policy

April 2018

Our commitment

Our customers, users, employees and suppliers have an expectation that when using or delivering our services or assets they will remain harm free. Our vision is "Everyone home safe and healthy every day". We are committed to meeting our vision and these expectations.

We want to ensure that:

- every journey is a safe journey for our customers and users
- the security of our customers and employees is assured
- our employees, agency staff and contractors go home safe and healthy every day
- we maintain our assets and deliver projects safely
- we fulfil our commitments to prevent pollution and nuisance; protect biodiversity; improve air quality; and reduce waste and carbon emissions
- we are inclusive and accessible to all customers and users, including those with disabilities.

How we go about this

We have put in place health, safety and environment rules and procedures, including emergency procedures that are regularly updated. These are for you to use. If you do not know where to find them ask your line manager or your Health, Safety and Environment (HSE) manager.

We assess risks and introduce HSE measures to ensure risks remain as low as reasonably practicable. We tell you the risks and the measures we have taken to control risks. We will comply with legislation. There is regular review of safety, health and environment statistics to identify positive and adverse trends and their root causes, so necessary action can be taken. We also assure ourselves that our suppliers maintain a good health, safety and environment record.

Each year we develop detailed HSE improvement plans to enhance what we do. These plans are regularly reviewed by the Directors in your part of the business.

When working for TfL or one of its companies you will receive the necessary training and equipment to ensure that you can

undertake your job safely, ensure the safety of customers and protection of the environment.

As an employee, your physical and mental health and wellbeing is also important and we provide occupational health services to help you stay healthy and in work and provide suitable welfare facilities at your work place.

We want to maintain a fair culture and employees or their representatives are consulted on health and safety matters as they arise, in a meaningful way through scheduled health and safety meetings or more regularly where needed.

What we can all do

We all need to look out for each other and speak up if anything is unsafe or damaging to health or the environment.

We all have a duty to follow our HSE rules and procedures. Do not take shortcuts. If you think rules or procedures are unhelpful let your manager know. Where necessary rules and procedures can be changed.

We can learn from the past, so always report and investigate accidents, incidents and near misses/close calls.

Demonstrate the TfL behaviours in everything we do.

In this way we can work together so that our vision for a safe and healthy environment is achieved.

Mike Brown MVO
Commissioner



Gareth Powell
Managing Director
Surface Transport



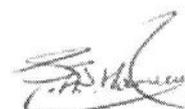
Mark Wild
Managing Director
London Underground
and TfL Rail


MARK WILD - LU & TfL

Graeme Craig
Director of Commercial
Development



Stuart Harvey
Director of Major
Projects



Appendix 2



TfL Corporate Environment Framework

MAYOR OF LONDON



**TRANSPORT
FOR LONDON**
EVERY JOURNEY MATTERS

Contents

- 1 Introduction – setting the context
- 2 Linking the framework to our goals
- 3 Managing environmental impacts, current and future performance
 - Carbon, energy and climate resilience
 - Air quality
 - Noise
 - Materials and resources management
 - Pollution prevention
 - The built environment
 - The natural environment

Introduction

Setting the context

At Transport for London (TfL) we play an important role in supporting the Capital's economy and quality of life. We run a large operation; our services accommodate 30 million journey stages every day. We provide vital transport services and promote sustainable options that keep our city moving. In doing this, we have a responsibility to manage the environmental impacts of our activities.

London's population is increasing, and our services are growing to meet this need – we're delivering new services, greater frequency, more capacity and improved reliability.

There are challenges to be met in terms of rising costs, legal pressures and also opportunities to use good practice, innovation and smart technology.

However, we start from a good position – our environmental performance has some world class examples of good practice and we have already met some of our previous targets.

Environmental issues present us with both opportunities and challenges. Some enable us to manage costs more effectively through, for instance, reducing energy and water use. We are also improving the potential of habitats that are around our networks, so contributing to London's quality of life. Some of the challenges relate to changes in legislation, public health issues, provision of stable energy supply and planning for the impacts of extreme weather on service delivery.

This framework describes our vision and ambition for environmental performance over the longer term. It clarifies our priorities and explains how they will be delivered in a way that meets stakeholders' needs. The important environmental areas for us are set out along with objectives and targets. They illustrate why these issues are important, what we want to achieve, how they will be achieved and how we will measure progress.

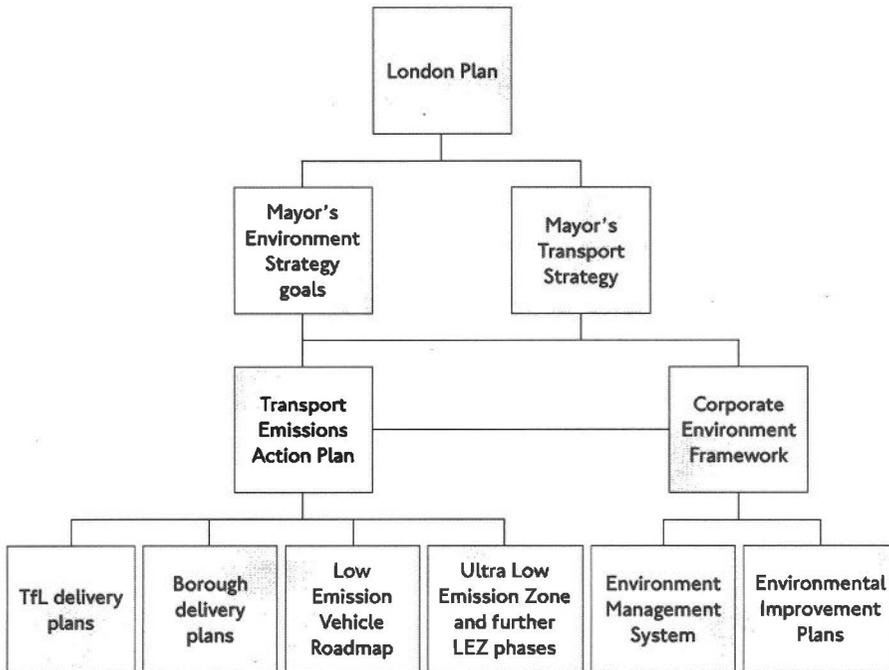
The framework covers the environmental impacts of our directly managed activities and operations, for example, delivery and operation of transport services, projects, maintenance and office functions. It also describes measures that will help us to deliver, and where possible improve, environmental legal compliance and meet other needs, for example, national requirements.

One of the principal aims of this framework is to show the contribution that our directly managed activities can make towards achieving the Mayor's environmental goals. Other elements of the Mayor's environmental aims that affect private transport across the city, are covered by other work we do, such as encouraging a reduction in emissions from vehicles in London.

It is designed to support our Business Plan and the Mayor's transport and environmental strategies. It is not intended to change existing priorities, but is focused on maximising the benefit of current and future plans.

About us

The figure below shows how this framework fits into a programme of work that we are doing to help achieve Mayoral environmental strategies and policy.



We are the integrated transport authority for the Capital and part of the Greater London Authority (GLA). We deliver the Mayor's Transport Strategy in partnership with London's boroughs and other transport providers, such as Network Rail and the train operating companies.

We comprise the following business areas:

- London Underground (LU) – operates London's Tube network, which sees more than 3.5 million passenger journeys a day. LU has 11 lines covering 402km and serving 270 stations. During peak hours, more than 500 trains operate

- Surface Transport – provides and manages a broad range of sustainable transport services and choices, including buses, cycling and walking. Bus passenger kilometres reached 8.2 billion in 2012/13. There were also 500,000 cycling journeys and six million walking trips taking place each day. We also carry 30 per cent of the Capital's road traffic on the Transport for London Road Network (TLRN)

- London Rail – responsible for Tramlink, the Docklands Light Railway (DLR), London Overground, Emirates Air Line and the development of Crossrail

