

GREATER LONDON AUTHORITY

REQUEST FOR MAYORAL DECISION – MD2137

Title: Environment Team work programme 2017-18

Executive Summary:

This MD seeks Mayoral approval for distinct elements of the GLA Environment Team's 2017-18 work programme and associated expenditure of up to a maximum of £903,000.

Decision:

That the Mayor approves the proposed activities and associated expenditure of up to £903,000 to deliver the elements of the Environment Team's 2017-18 work programme (as set out in section 2 of this report).

Mayor of London

I confirm that I do not have any disclosable pecuniary interests in the proposed decision, and take the decision in compliance with the Code of Conduct for elected Members of the Authority.

The above request has my approval.

Signature:



Date:

13/6/17

PART I - NON-CONFIDENTIAL FACTS AND ADVICE TO THE MAYOR

Decision required – supporting report

1. Introduction and background

- 1.1 The Environment Team is required to undertake a range of activities as part of delivering on statutory functions and manifesto commitments as well as supporting the implementation of the London Plan and the forthcoming statutory London Environment Strategy (LES). The team also provide inventories of data (such as the London Atmospheric Emissions Inventory) that other stakeholders can use to deliver Mayoral priorities.
- 1.2 As set out in the Mayor's Vision for London 'A City for All Londoners' The Environment Team's work programme has two objectives: To make London *a resilient, healthier, greener city* and a more *resource efficient city*. These support the mayor's vision of 'Good Growth' in London.
- 1.3 The Environment Team's work programme will assist with achieving the Mayor's vision of London being "one of the greenest cities" through converting Mayoral commitments into policy and delivery. This will include:
- Delivering environmental commitments and strategies, using our strategic perspective and analysis to maximise impact and value for money
 - Delivering on statutory responsibilities, both devolved national responsibilities and statutory strategies
 - Working with key stakeholders to encourage and enable them to work more coherently together to deliver on the Mayor's priorities
 - Providing critical support to mayoral priorities such as tackling air quality and a net zero carbon London
- 1.4 All the elements of the work-programme have been preliminarily authorised through the budget prioritisation process and as such form part of the agreed Environment budget and DE&E Minor Programmes Budget (MD2091)

2. Objectives and expected outcomes

- 2.1 This work programme will contribute to:
- the efficient delivery of LES policies and outcomes
 - support the efficient delivery of London Plan and other Mayoral strategies including the Mayor's Transport and Economic Development policies and targets
 - the transition to a low carbon and green economy, securing investment and creating jobs
 - delivery on wider policy agendas including the Diversity and Inclusion and Health Inequalities Strategy.

Relevant targets will be released alongside the LES, current draft targets include:

A Resilient, Healthier, Greener city:

- London achieving legal compliance with UK and EU limits on air quality as soon as possible
- By 2050, more than half of London's area is green

A resource efficient city:

- By 2030, London will achieve a 65% recycling rate for municipal waste
- By 2050, London will be a net zero carbon city

- 2.2 The table below sets out the main elements of the work programme, overall costs and immediate expenditure related decisions. As the table does not cover the entire Environment budget (e.g. The Green Infrastructure and elements of the Energy for Londoners programme are not included) there will be additional decisions required throughout the financial year, covering other areas. These will utilise all the remaining budget, or may relate to any additional income or expenditure. The table also does not include expenditure that has already been signed off through, for example – MD1288, DD2064, MD2109, or other external funding or carry forwards.

Activity - AQ	Overall Cost £'000
<p>London Atmospheric Emissions Inventory (LAEI)</p> <p>The GLA's LAEI provides critical baseline information and forward projections on air pollutant emissions/concentrations as well as associated analysis (e.g. exposure and health impacts). This inventory is required to support the implementation, development and monitoring of air quality policies and programmes. The LAEI use a combination of in-house resources, TfL support (for transport sources) and specialist consultancy services. A new LAEI is expected to be published in 2018, and supporting health, exposure and equality assessments will be undertaken using the new data.</p> <p><i>Decision:</i> To facilitate the production and development of the inventories as well as to undertake associated analysis, officers are authorised to procure consultancy support and/or transfer funds to TfL up to a total value of £77,000 to procure appropriate consultancy support themselves.</p>	77
<p>Air quality modelling for the London Environment Strategy and National Air Quality Plan</p> <p>With the publication of the London Environment Strategy and the new National Air Quality Plan, to fulfill its legal duties the GLA is required to undertake additional modelling and analysis. The requirements relating to this have been influenced by the recent Client Earth legal action against the Government where the High Court found that the latest emissions factors should be used and modelling needs to include year of policy introduction.</p> <p><i>Decision:</i> To facilitate the production of modelling for the London Environment Strategy, London Plan and National Air Quality Plan as well as to undertake associated analysis, officers are authorised to procure consultancy support and/or transfer funds to TfL up to a total value of £139,000 to procure appropriate consultancy support themselves.</p>	139
<p>Non-Road Mobile Machinery recognition scheme, database and website</p> <p>To facilitate the successful delivery of the Mayor's Non-Road Mobile Machinery emission standards to address pollution from construction sites it is necessary to develop a new recognition scheme for those who implement the NRMM Low Emission Zone and maintain the existing delivery partnership and supporting website and database.</p> <p><i>Decision:</i></p>	

Officers are authorised to procure consultancy support and/or allocate funds towards promotion of a new recognition scheme up to a total value of £30,000.

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Local Air Quality Management (LAQM) and borough support

Expert technical advice is needed to support the environment team to discharge statutory responsibilities related to the Local Air Quality Management function delegated to the Mayor from the Secretary of State for Environment, Food and Rural Affairs. The expert consultancy support will review the LLAQM annual reports and produces a compendium of all the action being taken by the boroughs, with a focus on best practice. The consultancy also provides a 'helpdesk' which answers technical queries that the boroughs may have when they are producing their annual reports.

Decision:

Officers are authorised to procure and use specialist consultancy support up to a value of £45,000 to assess various reports and other documents as well as to support any other activity which facilitates the effective delivery of the Mayor's statutory LAQM duties and supports activity at borough level to improve air quality.

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Air Quality Alerts and Information

Since being elected the Mayor has introduced a new system of air quality alerts to reduce exposure. These alerts warn Londoners during moderate, high and very high periods of air pollution, providing messages and information through social media, online and on TfL assets like bus countdown signs. The GLA currently obtains forecasts from the existing free services provided by airTEXT and King's College London. These are monitored by GLA staff, including on evenings and over the weekend. Given the growing expectation from Londoners for information on air quality the GLA requires a higher level of technical support and out of hours cover, including a Duty Forecaster, to ensure that the Mayor is issuing the right information in a timely fashion to Londoners on a consistent basis.

Decision:

Officers are authorised to procure and use specialist consultancy or provide grants to third parties such as London boroughs, academic institutions, hospitals or schools up to a value of £20,000 to support the implementation of air quality alerts and the provision of air quality information to the public.

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Please note: there is an additional decision relating to the procurement of a forecasting service (including a duty forecaster) under MD 2096, which sets out the four year spend, the £20K will be drawn from this agreed allocation this year.

Cleaner Vehicle Checker

The latest 'Euro 6' diesel cars still have wildly different emissions performance in real-world conditions depending on the model. While some vehicles now meet the required emission standards in real world conditions, other still emit up to 12 times as much pollution than is legally allowed. Emissions Analytics have undertaken real-world emissions testing of all available Euro 6 car models. They have ranked the cars from A-H, with As meeting the legal standard. The GLA intends to use this data to build and promote a new

website (which will be hosted on the existing GLA website) which will inform consumers about which cars meet legal emission requirements and encourage their purchase.

Decision:

To facilitate the successful implementation of the Cleaner Vehicle Checker, officers are authorised to procure staff support, consultancy support and/or allocate funds towards the procurement/analysis of data, development of the website, or marketing/promotion up to a total value of £122,000.

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Emissions from Buildings and Infrastructure

The Mayor wants to use the planning system to ensure that all new developments meet 'air quality neutral' standards and has asked officers to develop proposals for a new, stronger 'air quality positive' standard to build in reductions in emissions and exposure as part of the opportunity area planning framework process and for Housing Zones etc. These policies require expert technical support to design, implement and monitor. There are also an increasing number of major infrastructure schemes (Silvertown Crossing, Heathrow etc) which require specialist advice and input to inform GLA decision-making. In addition, for specialist consultancy support is required for complex planning applications.

Decision:

Officers are authorised to procure and use specialist consultancy support up to a value of £30,000 to support the development of new policy for the London Plan, to review and update air quality neutral benchmarks, to review planning applications and provide advice on major infrastructure schemes.

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Activity – Waste

Circular economy knowledge sharing.

Moving to circular economy (which extracts as much value as possible from resources, through their use and re-use, before they become waste) could save London £5billion in waste management costs between 2016 & 2050, create 12,000 net new jobs per annum by 2030 and boost London's economy by £7bn per annum by 2036. Funding will be combined with London Waste and Recycling Board (LWARB) funding to enable London to take part in the Ellen MacArthur Foundation (EMF) CE100 Cities Programme. The activity will support the delivery of the route map for the Circular Economy, through EMFs partnership with McKinsey and ARUP. The Route Map (which is being developed by LWARB) identifies recommended short, medium and longer term actions and policy options that will facilitate the transition for five focus areas - built environment, food, textiles, electricals and plastics. The action plan will support the Environment Strategy, London Plan, Economic Development Strategy, Food Strategy and Housing Strategy achieve their aims while increasing reuse and recycling.

Decision:

Authorise officers to pay £ 17,500 in grant funding, matched by the same amount from LWARB, to enable the GLA to continue to be a member of the Ellen MacArthur Foundation Circular Economy 'Cities and Government's' programme for a third year and authorise officers to allocate up to £12,500 in grant funding. This will support the delivery of the actions set out in London's circular Economy Route map produced by LWARB and the focus on built environment, food, textiles, electricals and plastics.

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<p>Circular SMEs – SMEs are key to accelerating the transition to a circular economy as they have the ability to adapt and can benefit from first mover advantage. The GLA has supported circular SMEs on a three year programme and this is the final year of support. The work with the London SMEs has improved their profile, supported their business development and opened up market opportunities to enable growth.</p> <p><i>Decision:</i> <i>Authorise officers to allocate up to £15,000 of grant funding to support the growth of low carbon and circular economy SMEs in London with the view to accelerating the transition to a low carbon circular economy.</i></p> <p>As part of the Mayor’s Emission Performance Standard and the delivery of statutory duties related to waste – funding is required to monitor emissions from waste management operations and to produce updates to the LES.</p> <p><i>Decision:</i> <i>Authorise officers to procure and use specialist consultancy services up to a value of £15,000 to monitor the progress of London’s waste and resources sectors in reducing their carbon emissions in line with achieving a zero carbon city by 2050.</i></p>	<p>15</p> <p>15</p>
<p>Activity – Adaptation</p>	
<p>Heat risk modelling</p> <p>London is getting hotter. Extreme hot weather events are occurring more frequently and changing demographics and increased urban development are increasing heat risk in London. In order to understand the impact of increased development in London on the urban heat island and current building efficiency requirements further modelling is required. The outcome of this modelling will inform London Plan policy affecting new development requirements, including in particular measures required to mitigate the urban heat island effect. This modelling will complement modelling undertaken by UCL that considers the vulnerability of existing buildings and their residents and the urban heat island effect.</p> <p><i>Decision:</i> <i>Officers are authorised to procure and use specialist consultancy support up to a value of £25,000 to carry out modelling that will inform new development and retrofitting requirements to mitigate the urban heat island effect in London.</i></p>	<p>25</p>
<p>Activity - Energy Programme</p>	
<p>Green House Gas emissions reporting</p> <p>The GLA’s London Energy and Greenhouse Gases Inventory (LEGGI) provides critical baseline information on energy use and greenhouse gas emissions. The LEGGI supports the implementation, development and monitoring of energy and climate change mitigation programmes and policies. It provides a robust and consistent method for assessing London’s greenhouse gas emissions reductions year on year and progress against the Mayor’s emission reduction targets. LEGGI uses a combination of in-house resources and specialist consultancy services. This financial year we will undertake further work on LEGGI to consistently capture emissions required to track progress against the Mayor’s zero carbon ambition.</p>	

Decision:

procurement and award of contracts for services up to £50,000 to improve the verification of London's CO2 emissions, update London's greenhouse gas inventory for 2015/16, develop a multi-year dataset for PAS2070 scope 3 emissions, and investigate specific actions the GLA can take to encourage the reduction of indirect emissions in key sectors.

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Solar and community energy grants

Up to £75k to deliver a pilot Community Energy Assistance Programme for London. We intend to provide small grants (under £10,000 per grant) to support the development stages of around ten community energy projects. Organisations providing local and renewable energy will be required to bid for the funding through a competitive process and will be judged against an agreed set of criteria. These funds will be available for the early stages of project development to provide expertise to develop the project business cases. This includes, for example, the conduct of preliminary viability studies, identification of suitable technologies and implementation sites. The objective of the Programme is to support the increase of local and renewable energy generation and reduce energy demand across London. The success of the pilot scheme will be evaluated in 2017/18. We will progress grant funding letters with each successful recipient.

Decision: award of, entry into and execution of grant funding agreements, with a total of up to £75,000 in 2017/18.

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London Solar Map

Deliver a rooftop solar map for London which is a key action in the Mayor's forthcoming Solar Action Plan and LES. The mapping exercise will quantify the opportunity for solar PV and thermal energy at a building level in London. Following this analysis the map will be made publicly accessible in the form of a visually appealing platform offering information on potential energy production and an easy to use arena for guidance on installing rooftop solar. The objective of this tool is to allow Londoners and businesses to identify the benefits that solar energy can offer them and facilitate them in installing solar technologies to contribute to the Mayor's ambition for a zero carbon London.

Decision: allocation and expenditure of revenue funding of up to £100,000 for procurement and award of a contract to design a rooftop solar map for London.

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Supply chain

To support research and advocacy to enable implementation of Energy for London (EfL) work streams through the stimulation and development of a London-based supply chain. Key objectives include ensuring EfL delivery programmes are implemented smoothly (not held up by supply chain delays) and that London-based energy efficiency, retrofit and renewables supply chains are developed with improved skills and enable job creation, in the low carbon goods and services sector. This will include the development of an evidence base on London's supply chain through commissioning external analysis and a report. The work will directly support the Economic Development Strategy and the development of the Low Carbon Environment Goods and Services sector.

Decision: procurement and award of contracts for services up to £45,000 to

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<i>commission a report on the maturity, and growth opportunities in respect to London's low carbon supply chains.</i>	
Activity – Cross Cutting	
<p>Smart Energy - Smart Meters and Demand Side Management</p> <p>Deliver a domestic smart meter enabled demand side management demonstrator, including building-level electricity generation and storage. This will directly support and complement the commitment to roll out smart metres. Activity will include an innovation competition approach aimed at supporting the best ideas to cut energy bills and reduce consumer demand for grid electricity and gas, focussed on up to five specific London house-types. Funded projects will demonstrate and evaluate the feasibility and performance of smart metered in-home automation and self-generation based on solar PV and battery storage.</p> <p><i>Decision:</i> <i>Officers are authorised to procure consultancy support and/or allocate funds towards demonstrator competition winners up to a value of £85,000</i></p>	85
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3. Equality comments

- 3.1 Under Section 149 of the Equality Act 2010, as a public authority, the Mayor of London must have 'due regard' of the need to eliminate unlawful discrimination, harassment and victimisation as well as to advance equality of opportunity and foster good relations between people who have a protected characteristic and those who do not.
- 3.2 Gender Equality and Equal Opportunities are enshrined within the GLA's programmes and activities according to the Mayor's Framework for Equal Life Chances (June 2014) and the new mayor's forthcoming Diversity and Inclusion Strategy. The framework aims to bring Londoners together rather than dividing them. It promotes outcomes for a diverse range of communities that seek to bring real changes to the quality of life for all Londoners. The Environment projects and programmes stem from the current work on the LES which is informed by a full Integrated Impact Assessment, which includes a consideration of equalities.
- 3.3 As a result Environment programmes and projects look to maximise their positive impact on all Londoners, through for example: reducing the health impact of air quality, reducing fuel poverty, maximising energy security while keeping bills down, through to ensuring the resilience of London's critical infrastructure and most vulnerable communities

4. Other considerations

- 4.1 *Key risks and issues*
- 4.1.1 Delays in undertaking any of the activities listed above (due to not having budgets or contracts in place) are likely to lead to an interruption in service provision that may have a negative reputational impact on the Mayor. Mitigation: The timelines and expected costs for all activities have been reviewed. In addition, risk registers will be drawn up for individual projects (where appropriate) to identify and monitor risks. High value / high risk projects will be monitored through the Environment Delivery Board (see below) and lower value / lower value risks will be monitored through the Environment team's monitoring and review process.

- 4.1.2 Staff resources have been identified within the GLA Environment team to manage and take forward the projects set out in 2.3. These are set out in the Environment Team's business plan and will be monitored and reviewed by the Environment Team's management team.
- 4.1.3 The Environment Team is establishing a new internal Environment Delivery Board specifically to ensure the delivery of all high value projects.

4.2 Links to Mayoral strategies and priorities

- 4.2.1 The Environment Team's 2017-18 work programme will contribute towards:
- The efficient and effective delivery of Mayoral commitments
 - The diversification of the economy (principally through supporting the transition to the Low carbon economy), driving investment and job creation
 - The efficient and effective delivery of policies and targets in the London Plan and commitments in the forthcoming LES.

Relevant Mayoral Commitments include:

Climate change mitigation and energy

- Commit London to an ambitious target of becoming a net zero carbon city by 2050
- Establish Energy for Londoners, a not-for-profit company
- Provide a comprehensive range of energy services to help Londoners generate more low-carbon energy and increase their energy efficiency
- support local and community energy enterprises
- making the most of the city's roofs, public buildings and land owned by TfL for energy generation by producing a solar energy strategy

Air quality

- London will achieve legal compliance with UK and EU limits on air quality as soon as possible

Waste

- Reinvigorate efforts to increase the amount London recycles, so that we get back on track with hitting the 65 per cent target by 2030, including seeing waste as an opportunity to create jobs in reuse, repair, remanufacturing and materials innovation.

4.3 Impact Assessments and consultations

- 4.3.1 The LES, from where much of the Environment Team's work programme has been drawn, has been through a pre consultation exercise and integrated impact assessments have been undertaken. A formal consultation will take place in the summer.

5. Financial comments

- 5.1 This Mayoral Decision paper is seeking approval for the expenditure of Environment team's 2017-18 programme budget totalling £903,000, as detailed in the main body of this report. £145,000 of this request will be funded from DE&E Minor Programmes Budget 17/18.

- 5.2 If budget is required for new projects or there is an increase in expenditure then officers should use the Environment programme budget approved in this MD as the first port of call and should consider re-prioritisation of projects before making any more budget bids.
- 6. Legal comments**
- 6.1 The foregoing sections of this report indicate that:
- 6.1.1 the decisions requested of the Mayor fall within the GLA's statutory powers concern the exercise of the GLA's general powers, falling within the GLA statutory powers to do such things considered to further or which are facilitative of, or conducive or incidental to the promotion of economic and social development, wealth creation or the promotion of the improvement of the environment in Greater London. In formulating the proposals in respect of which a decision is sought officers have complied with the GLA's related statutory duties to:
- a. pay due regard to the principle that there should be equality of opportunity for all people;
 - b. consider how the proposals will promote the improvement of health of persons, health inequalities between persons and to contribute towards the achievement of sustainable development in the United Kingdom; and
 - c. consult with appropriate bodies.
- 6.2 In taking the decisions requested, the Mayor must have due regard to the Public Sector equality Duty; namely the need to eliminate discrimination, harassment, victimisation and any other conduct prohibited by the Equality Act 2010, and to advance equality of opportunity between persons who share a relevant protected characteristic (race, disability, gender, age, sexual orientation, religion or belief, pregnancy and maternity and gender reassignment) and persons who do not share it and foster good relations between persons who share a relevant protected characteristics and persons who do not share it) section 149 of the Equality Act 2010). To this end, the Mayor should have particular regard to section 3 (above) of this report.
- 6.3 Section 2 of this report indicates that there may be contributions towards the costs of third party projects which amount to the provision of grant funding and not payment for works, supplies or services. Officers must ensure that:
- 6.3.1 the funding is distributed fairly, transparently, in accordance with the GLA's equalities and in manner which affords value for money in accordance with the Contracts and Funding Code; and
- 6.3.2 appropriate funding agreements are put in place between and executed by the GLA and the recipient of the funding before any commitment to fund is made.
- 6.4 All other services or supplies required must be procured by Transport for London Procurement (who will determine the detail of the procurement strategy to be adopted) in accordance with the GLA's Contracts and Funding Code. Officers must liaise with Transport for London Procurement in this regard and ensure that appropriate contracts are put in place between and executed by the GLA and the successful bidders before the commencement of any such services or supplies.
- 6.5 Officers must ensure that they comply fully with all GLA HR/Head of Paid Service protocols in respect of any staffing proposals, in particular the need to gain all necessary approvals for the creation of any new posts.

7. Planned delivery approach and next steps

7.1 Approval given at June 5th 2017 CIB.

8. Planned delivery approach and next steps

	Milestones, deliverables and promotional activity	GLA lead	Planned date
1	Submit MD for approval to commit expenditure for agreed work programme	P Feehily	June 5 th
2	Full project initiation documents developed for each project – establishing KPIs	Environment Management Team	Q1
3	Internal Environment Delivery Board Established	P Feehily	Q1
4	MD setting out Mayor's Plans for a London to be a National Park City	Andrew Jones	Q1
5	London Environment Strategy Published	P Feehily	Q2
6	Launch solar and community energy grants	Matt Thomas	Q2
7	MD setting out Mayor's new Energy Efficiency plans	James Hardy	Q2
8	New forecasting system for AQ alerts with duty forecaster in place	Elliot Treharne	Q2
9	Non-Road Mobile Machinery revised website	Elliot Treharne	Q2
10	London solar map published on-line	Matt Thomas	Q3
11	London low carbon supply chain report complete	Chris Grainger	Q3
12	Smart Demonstrator launched	Daniel Barrett	Q3
13	Cleaner Vehicle Checker launched	Elliot Treharne	Q3
14	Air quality modelling for the final London Environment Strategy	Elliot Treharne	Q3
15	LEGGI published	Matt Thomas	Q4
16	Review and modelling against Emissions Performance Standard	Doug Simpson	Q3/Q4
17	Modelling to inform new development and retrofitting requirements to mitigate the urban heat island effect in London	Annette Figueiredo	Q4
18	Building Emissions – SPG on Air Quality Positive published	Elliot Treharne	Q3
19	LLAQM reports received from boroughs	Elliot Treharne	Q4
20	New London Atmospheric Emissions Inventory published	Elliot Treharne	Q4

Appendices and supporting papers:

Public access to information

Information in this form (Part 1) is subject to the Freedom of Information Act 2000 (FOI Act) and will be made available on the GLA website within one working day of approval.

If immediate publication risks compromising the implementation of the decision (for example, to complete a procurement process), it can be deferred until a specific date. Deferral periods should be kept to the shortest length strictly necessary. **Note:** This form (Part 1) will either be published within one working day after approval or on the defer date.

Part 1 Deferral:

Is the publication of Part 1 of this approval to be deferred? YES

The MD makes specific reference to targets contained within the London environment Strategy. Therefore publication date is deferred until after its launch.

Until what date: (see above – likely 30 July 2017)

Part 2 Confidentiality: Only the facts or advice considered to be exempt from disclosure under the FOI Act should be in the separate Part 2 form, together with the legal rationale for non-publication.

Is there a part 2 form – NO

ORIGINATING OFFICER DECLARATION:

Drafting officer to confirm the following (✓)

Drafting officer:

Patrick Feehily has drafted this report in accordance with GLA procedures and confirms the following:

✓

Sponsoring Director:

Fiona Fletcher Smith has reviewed the request and is satisfied it is correct and consistent with the Mayor's plans and priorities.

✓

Mayoral Adviser:

Shirley Rodrigues has been consulted about the proposal and agrees the recommendations.

✓

Advice:

The Finance and Legal teams have commented on this proposal.

✓

Corporate Investment Board

This decision was agreed by the Corporate Investment Board on the 5th June 2017

✓

EXECUTIVE DIRECTOR, RESOURCES:

I confirm that financial and legal implications have been appropriately considered in the preparation of this report.

Signature

Date

Tom Middleton ON BEHALF OF *MARTIN CLARKE*
08.06.17

CHIEF OF STAFF:

I am satisfied that this is an appropriate request to be submitted to the Mayor

Signature

Date

D. Bellamy

8/6/2017.