

Richmond Climate Emergency Strategy 2020-2024 – 2022 Action Plan

| Our Council: Becoming carbon neutral as an organisation by 2030 | | | | | | | | |
|---|---|---|---|---------------|-------------|------------------------|-------------|--|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our estate | | | | | | | | |
| 1. | Decarbonise our buildings | Deliver Phase 1 of the Decarbonisation Strategy | Phase 1 projects delivered, including improvements to: <ul style="list-style-type: none"> • Pools on the Park (insulation and LED) • Civic Centre (BMS System) • Central Depot (LED and heat controls) • Hampton Youth Centre (insulation and heat controls) • Orleans House Gallery (heat pumps, heat controls and underfloor heating) • Heatham House Youth Centre (heat pump) • Queens Road Hostel (improved glazing) • Richmond Library (improved glazing) • 42 York Street (heat pump and LED) • Twickenham Library (improved glazing) | High | High | Innovation and Funding | Q4 2022/23 | Property Services |
| 2. | Decarbonise buildings | Develop Phases 2, 3 and 4 of the Decarbonisation Strategy | Plans for delivery of Phases 2, 3 and 4 in place | Low | Enabling | Innovation and Funding | Q4 2022/23 | Property Services |
| 3. | Decarbonise our buildings | Take forward decarbonisation strategy with heat decarbonisation plan developed to include options for local energy creation projects, electrification, storage, optimised and dynamic usage and plan of what is required to decarbonise heat in buildings | Plan developed including options for local energy creation projects, electrification, storage, optimised and dynamic usage Plan developed for requirements on decarbonising heat in buildings | High | High | Innovation and Funding | Q1 2022/23 | Property Services |
| 4. | Decarbonise our buildings | Ensure use of Climate Change Fund, Carbon Offset Fund and other funding sources such as Salix to deliver estates improvement maximises carbon savings | Develop clear criteria and process for assessing, tracking and monitoring use of carbon offset payments and climate change fund | Existing | Enabling | Innovation and Funding | Q1 2022/23 | Planning and Transport / Property Services / Assistant Chief Executive |
| 5. | Decarbonise our buildings | Review all buildings that we currently lease to ensure that we are using energy efficient properties | Review complete | Existing | Enabling | Innovation and Funding | Q2 2022/23 | Property Services |
| 6. | Decarbonise our buildings | Investigate funding sources and where possible invest in local energy creation projects, such as renewable energy technologies (e.g. PV / solar panels on Council buildings etc.). | Take forward actions arising from pan-London work led by London Councils on decentralised energy networks and additional local options investigated and developed | High | High | Innovation and Funding | Q3 2022/23 | Property services |
| 7. | Decarbonise our buildings | Develop a long-term plan for reducing emissions and improving the energy efficiency in Council owned properties which we currently lease to other organisations or are used by other organisations/tenants | Plan developed | Existing | Enabling | Innovation and Funding | Q4 2022/23 | Property Services |
| 8. | Improve street lighting | Continue with programme to replace all our street lighting with LED and also use photo-electric control unit (PECU) arrays which will accurately calculate energy consumption. | Programme of replacement works completed | High | High | Innovation and Funding | Q4 2022/23 | Traffic and Engineering |
| 9. | Decrease water usage by the Council | Identify and implement water saving measures that can be put in place across the organisation, including technological developments which may help to increase the efficiency of water use and investigate measures to monitor leaks and consumption | Measures installed | Medium | Low | Reduced Waste | Q4 2022/23 | Property Services |
| Our waste | | | | | | | | |
| 10. | Reduce and remove single use plastics from Richmond Council sites | Achieve Single Use Plastic free accreditation for Council operations | Accreditation achieved | Existing | | Reduced Waste | Q4 2022/23 | Property Services / Assistant Chief Executive |

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|---|---|---|--|---------------|-----------------|------------------------|--------------------------|--|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our vehicles | | | | | | | | |
| 11. | Reduce emissions of vehicle fleet | Increase the number of EVs in our fleet to reduce emissions | Increase in number of EVs | High | Medium | Improved Air Quality | Q3 2021/22 | Highways Operations and Streetscene |
| 12. | Reduce emissions of vehicle fleet | Develop a plan for all Council vehicles to be zero emission by 2030 | Plan developed | Existing | Enabling | Improved Air Quality | Q3 2022/23 | Highways Operations and Streetscene |
| 13. | Reduce emissions of vehicle fleet | Ensure appropriate training is provided for new EV drivers and to ensure efficient driving practices | FORS accreditation maintained Identify appropriate training and develop checklist for desirable training. | Existing | Enabling | Improved Air Quality | Q1 2022/23 | Highways Operations and Streetscene |
| Our purchasing | | | | | | | | |
| 14. | Purchase low-carbon energy | Explore options to enter into power purchase agreements for the supply of part or all of the council's energy needs, including existing and new build PPA independently and as part of London-wide purchasing options | Independent options appraisal complete Review of London-wide purchasing options New PPAs established (independently or jointly) where appropriate and feasible | Existing | High | Thriving Green Economy | Q1 2022/23 | Property Services / Assistant Chief Executive |
| 15. | Purchase low-carbon energy | Continue to explore options for low-carbon gas purchasing as part of next energy contract from 2024 including options explored through London-wide purchasing options | Options appraisal complete Low carbon gas included in next energy contract if appropriate | Existing | Enabling | Thriving Green Economy | Q4 2023/24 | Property Services |
| 16. | Promote sustainable and low carbon procurement | Provide training and guidance to staff within Procurement Services and institutions who are involved in purchasing decisions and promote the value of sustainable purchasing to staff and contractors | Training and guidance provided | Existing | Enabling | Thriving Green Economy | Q3 2022/23 | Financial Services |
| 17. | Promote sustainable and low carbon procurement | Explore feasibility of increasing deliveries to the council to be by sustainable methods, such as electric vehicles. | Options investigated and developed | Low | Medium | Thriving Green Economy | Q2 2022/23 | Financial Services |
| 18. | Promote sustainable and low carbon procurement | Ensure procurement frameworks are fit for purpose for net-zero | Take forward West London work on sustainable procurement toolkits and pan-London work on Scope 3 emissions. Review current frameworks to assess whether these are capable of delivering net zero emissions across all contracts by 2030 | Low | High | Thriving Green Economy | Q4 2021/22 Q1 2022/23 | Financial Services |
| 19. | Promote sustainable and low carbon procurement | Work with partners to develop criteria that require disclosure of emissions, promote circular economy and reduce emissions through the supply chain | Criteria developed | Low | High | Thriving Green Economy | Q3 2022/23 | Financial Services |
| 20. | Promote sustainable and low carbon procurement | Identify aspects of social value and sustainable principles in procurements that are relevant for electric vehicles | Consider ethical aspects of battery supply chain and related issues as part of sustainable procurement work, linking to pan-London working group on transport | Low | Enabling/Medium | Innovation and Funding | Q3 2022/23 | Financial Services |
| Our approach to the way we work | | | | | | | | |
| 21. | Developing the climate knowledge of the organisation | Develop and roll out programme of Carbon Literacy training for staff and members. | Achieve Carbon Literacy Silver level by end Q3 2022/23 | Low | Enabling | Low Carbon Behaviours | Q3 2022/23 | Assistant Chief Executive / Corporate Services |
| 22. | Developing the climate knowledge of the organisation | Develop and launch staff climate network | Network set up and active | Existing | Enabling | Innovation and Funding | Q3 2022/23 | Assistant Chief Executive |
| 23. | Support our commissioned services to reduce emissions from their own operations | Contribute to the Achieving for Children (AfC) Climate Change working group and delivery of the AfC Environment Strategy | Delivery of scheduled 2022/23 actions in AfC Environment Strategy | Low | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive / Achieving for Children |

| Our Council: Becoming carbon neutral as an organisation by 2030 | | | | | | | | |
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| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| 24. | Support our commissioned services to reduce emissions from their own operations | AfC to deliver the actions set out in their Environment Strategy | Action Plan delivered | Low | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive / Achieving for Children |
| 25. | Reduce the Council's IT energy consumption | Review the disposal of IT equipment to ensure maximum circularity of approach | Review completed | Low | Medium | Reduced Waste | Q4 2022/23 | Corporate Services |
| 26. | Measuring progress on delivery of Climate Emergency Strategy | Submit to Carbon Disclosure Project to achieve outside accreditation for climate work | Submission complete and minimum B grade achieved | Existing | Enabling | Innovation and Funding | Q3 2022/23 | Assistant Chief Executive |
| 27. | Measuring progress on delivery of Climate Emergency Strategy | Complete annual reporting on Council's carbon emissions | Annual carbon emissions reported | Existing | Enabling | Innovation and Funding | Q4 2022/23 | Assistant Chief Executive |
| 28. | Measuring progress on delivery of Climate Emergency Strategy | Develop emissions pathway reduction analysis for Council emissions | Pathway reduction analysis produced | Existing | Enabling | Innovation and Funding | Q3 2022/23 | Assistant Chief Executive |
| 29. | Measuring progress on delivery of Climate Emergency Strategy | Work with West London Climate Emergency Group and London Councils on developing Council Scope 3 emissions measurement | Emissions guidelines and tools available | Existing | Enabling | Innovation and Funding | Q2 2022/23 | Assistant Chief Executive |
| 30. | Measuring progress on delivery of Climate Emergency Strategy | Work with West London Climate Emergency Group and London Councils on developing borough-wide emissions measurement and reduction pathways | Emissions methodology and reporting agreed | Low | Enabling | Innovation and Funding | Q3 2022/23 | Assistant Chief Executive |
| 31. | Encourage staff to switch to active travel | Develop a Staff Travel Plan which promotes alternative modes of transport | Staff Travel Plan in place Increase in % of staff using car club and electric vehicles Assess grey fleet taking into account actions and methodologies developed by London Councils Task and Finish Group on carbon accounting and Transport working group. | Existing | Low | Improved Health Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 32. | Encourage staff to switch to active travel | Assessment of impact of changing working patterns and increased interest in cycling and improve cycle storage, shower facilities and drying rooms | Increase in % of those staff commuting to work travelling by sustainable modes of travel | Low | Low | Improved Health Low Carbon Behaviours | Q2 2022/23 | Property Services |

| Our legacy: Climate change mitigation and energy efficiency | | | | | | | | |
|---|---|--|--|---------------|-------------|--|-------------|---------------------------|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our communities | | | | | | | | |
| 33. | Lobbying and campaigning around climate change related issues | Work with London Councils to support progress and delivery of the agreed 7 climate ambitions | Demonstrable input and progress on the 7 ambitions | Existing | Enabling | Innovation and Funding | Q4 2022/23 | Assistant Chief Executive |
| 34. | Increased communication and engagement around climate change | Develop and deliver a communications plan to support and promote the actions being carried out by the Council in delivering the RCES. | Plan developed and delivered Increased knowledge and awareness of | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 35. | Increased communication and engagement around climate change | Deliver regular communications campaigns to increase climate knowledge of communities and residents, highlighting what communities are doing to take action | Regular campaigns delivered | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 36. | Increased communication and engagement around climate change | Ensure there is a climate presence at fairs and festivals in the borough throughout the year, working in partnership with Habitats & Heritage and other local environmental groups | Increased number of climate engagement events | Low | Enabling | Low Carbon Behaviours | Q3 2022/23 | Assistant Chief Executive |
| 37. | Increased communication and engagement around climate change | Deliver a programme of engagement events throughout the year to increase climate knowledge and understanding of residents and communities | Increased number of climate engagement events | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 38. | Increased communication and engagement around climate change | Work with local BIDs to deliver engagement and outreach for local businesses to encourage action on climate change | Increased number of climate engagement events | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 39. | Increased communication and engagement around climate change | Investigate the creation of temporary 'pop-up' climate drop in centres to allow more direct engagement on climate change in localities | Options developed for drop in centres | Low | Enabling | Low Carbon Behaviours | Q1 2022/23 | Assistant Chief Executive |
| 40. | Increased communication and engagement around climate change | Develop a network of individuals to support community and voluntary organisations to develop and deliver action on climate and reduce emissions. | Network developed and active | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 41. | Increased communication and engagement around climate change | Work in partnership with Community Ambassadors Programme and South West London Energy Advice Partnership to increase information, advice and engagement on energy efficiency and fuel poverty. | Increased number of climate engagement events | Existing | Enabling | Low Carbon Behaviours | Q4 2022/23 | Assistant Chief Executive |
| 42. | Increased communication and engagement around climate change | Engage and work with Richmond Youth Council around their priorities around climate change, including supporting them with funding for their climate commissioning work. | Commissioned projects being delivered | Low | Enabling | Low Carbon Behaviours | Q3 2022/23 | Assistant Chief Executive |
| 43. | Supporting and encouraging the green economy | Work with South London Partnership to establish a Green Skills Academy Hub with a focus on retrofit | Green Skills Academy Hub launched | Existing | Enabling | Resilient Infrastructure and Communities | Q3 2022/23 | Assistant Chief Executive |
| 44. | Supporting and encouraging the green economy | Promote sustainability and carbon reduction programmes to local businesses | Promote the Better Future scheme to local businesses Sign up to the scheme by 5 local businesses | Existing | Enabling | Low Carbon Behaviours | Q2 2022/23 | Assistant Chief Executive |
| Our buildings | | | | | | | | |
| 45. | A new Local Plan | Develop a new Local Plan which places climate mitigation and adaption at its heart, with zero-carbon policies embedded across planning. This will, but is not limited to: | Publication consultation on the Council's version of the Local Plan and final SA report: expected Q3 2022/23 | Low | Enabling | Resilient Infrastructure | Q3 2024/25 | Planning and Transport |

| Our legacy: Climate change mitigation and energy efficiency | | | | | | | | |
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| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| | | <ul style="list-style-type: none"> - Encourage circular economy - Explore going beyond London Plan standards for carbon neutral developments, with offsetting a last resort - ensure developments are climate resilient and require the use of sustainable drainage and other flood management systems - maximise opportunities for on-site renewable energy generation and retrofit - use placemaking that prioritises sustainable travel and considers a 15-minute city approach to development - ensure green infrastructure is a key component of planning and results in biodiversity net gain - provide for monitoring of the effectiveness of the Local Plan through regular performance assessment against a series of quantitative indicators - require development to be 'air quality neutral' during construction and operation - require whole lifecycle emissions assessment from developers, circular economy statements and contributions to the costs of monitoring energy efficiency in line with the GLA's 'be seen' hierarchy and monitoring guidance. | <p>Submission to Planning Inspectorate of draft Local Plan: Q2 2022/23</p> <p>Independent examination in public, report due Q2 2023/24</p> <p>Adoption of New Local Plan: Q2 2023/24</p> | | | and Communities | | |
| Our streets | | | | | | | | |
| 46. | Changing our approach to parking | Change our parking policies to persuade people to use less polluting vehicles and to lower the number of vehicles on the road | Policies reviewed again in light of COVID-19 situation | Existing | Enabling | Improved Air Quality | Q2 2022/23 | Traffic and Engineering |
| 47. | Changing our approach to parking | Exploring increased differential parking permit charges to discourage higher polluting and carbon emitting vehicles | New proposals on differential charging produced | Existing | Enabling | Improved Air Quality | Q2 2022/23 | Traffic and Engineering |
| 48. | Increasing and improving electric vehicle infrastructure | Build on EV infrastructure, install additional lamppost and other points subject to resourcing, commissioning and approvals required | Install more EV chargepoints | High | High | Improved Air Quality Low Carbon Behaviours | Q4 2022/23 | Planning and Transport |
| 49. | Increasing and improving electric vehicle infrastructure | Develop borough-wide EV infrastructure plan | EV infrastructure plan developed | Low | Enabling | Improved Air Quality Low Carbon Behaviours | Q3 2022/23 | Planning and Transport / Assistant Chief Executive |
| 50. | Improving access to car clubs | Working with car club providers to improve availability of car club vehicles subject to the market and any approvals required | Increased number of Richmond car club members Assess impact of pandemic on changes in use and prepare new approach | Existing | Low | Improved Air Quality | Q4 2022/23 | Planning and Transport |
| 51. | Encouraging e-transport (e-bikes, e-cargo bikes and e-scooters) | Understand impact of e-mobility shifts and projects | Assess carbon reductions from e-mobility projects to feed in to carbon emissions pathway for borough. | Low | Enabling | Resilient Infrastructure and Communities | Q4 2022/23 | Planning and Transport / Assistant Chief Executive |
| 52. | Encouraging e-transport (e-bikes, e- | Support and promote the use of cargo bikes to transport children and freight across the borough, including investment in infrastructure and provision of services to | Implement cargo bike action plan to: <ul style="list-style-type: none"> - Improve the accessibility of cargo bikes | Medium | Medium | Resilient Infrastructure | Q4 2022/23 | Planning and Transport / |

| Our legacy: Climate change mitigation and energy efficiency | | | | | | | | |
|---|---|---|--|----------|---------------|--|------------|---|
| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| | cargo bikes and e-scooters) | continue to make cargo bikes a convenient mode of travel for families and businesses and ensure their accessibility. | <ul style="list-style-type: none"> - Provide opportunities for residents and businesses to increase their knowledge and confidence of cargo bikes as a mode of transport - Improve the accessibility of the borough to cargo bikes and other adapted bikes - Identify opportunities to scale up the infrastructure for cargo bikes - Engage residents and businesses in a shared bike scheme, carry out consultation. - Continue work under local authority insetting to scale up cargo bike offering and share best practice | | | and Communities | | Assistant Chief Executive |
| 53. | Reduce last mile emissions | Enhance work on e-cargo bikes with review of possible consolidation hubs in the borough | <p>Work with SLP to assess consolidation hub options.</p> <p>Review pilot studies happening through SLP network and prepare recommendations for local options.</p> | Low | Enabling | Improved Health Low Carbon Behaviours | Q2 2022/23 | Planning and Transport |
| Our partners | | | | | | | | |
| 54. | Improving the energy efficiency of homes in the borough | Work with key housing partners, including the Greater London Authority (GLA), Private Registered Providers (PRPs) and other social landlords/providers to explore options around the large scale retrofit of social rented housing stocks to improve energy efficiency and reduce target emissions. | Options developed | Existing | Enabling | Resilient Infrastructure and Communities | Q4 2022/23 | Strategy and Development/ Assistant Chief Executive |
| 55. | Improving the energy efficiency of homes in the borough | Monitor the outcome of the Government consultation on raising the minimum energy efficiency in the private rented sector to C with a view to developing options to encourage landlords to improve the energy efficiency of their properties. | Outcome of consultation considered. Options for landlord engagement developed. | Existing | Medium | Resilient Infrastructure and Communities | Q2 2022/23 | Regulatory Services / Assistant Chief Executive |
| 56. | Improving the energy efficiency of homes in the borough | Deliver Phase 1 of Green Homes Grant Local Authority Delivery Scheme | Phase 1 delivery complete to deliver 53 retrofits. | Existing | Medium | Resilient Infrastructure and Communities | Q4 2021/22 | Assistant Chief Executive |
| 57. | Improving the energy efficiency of homes in the borough | Deliver Phases 2 and 3 of the Green Homes Grant Local Authority Delivery Scheme. | Phase 2 and 3 delivery complete to deliver improvements to 100 homes. | Existing | Medium | Resilient Infrastructure and Communities | Q4 2023/24 | Assistant Chief Executive |
| 58. | Improving the energy efficiency of homes in the borough | Support the fifth phase of Solar Together London and liaise with the GLA to ensure all homeowners signed up to receive solar panels under phase 4 of Solar Together have received these. | Completed installations | Existing | Medium | Innovation and Funding Resilient Infrastructure and Communities | Q4 2022/23 | Assistant Chief Executive |
| 59. | Improving the energy efficiency of homes in the borough | Working with South London Partnership boroughs, develop a communications and promotional resource targeted at the able to pay market to help support homeowners in navigating the retrofit process and support available. | Resource developed and promoted | Existing | Enabling | Resilient Infrastructure and Communities | Q3 2022/23 | Assistant Chief Executive |
| 60. | Promoting sustainable transport | Work with schools to encourage use of public transport, walking and cycling to school. | Increased number of pupils using sustainable and active travel to get to school, incorporating recommendations within the School Resources Hub and working with organisations including previous partners in Climate Week, such as Global Action Plan | Existing | Low | Improved Air Quality | Q4 2022/23 | Traffic and Engineering/Planning and Transport |

| Our legacy: Climate change mitigation and energy efficiency | | | | | | | | |
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| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| | | | | | | Improved Health | | |
| 61. | Promoting sustainable transport | Encourage visitors to our leisure centres to arrive by active travel methods where possible, including a campaign, exploration of potential reward mechanisms and improving safety of bike storage. | Increased number of visitors using sustainable and active travel to get to leisure centres | Low | Low | Improved Air Quality Improved Health | Q4 2022/23 | Contracts and Leisure |
| 62. | Promote energy efficiency in schools | Develop and rollout factsheet for schools on steps they can take to increase energy efficiency and reduce carbon emissions | Factsheet developed and promoted on schools hub | Existing | Enabling | Resilient Infrastructure and Communities Low Carbon Behaviours | Q1 2022/23 | Assistant Chief Executive / Property Services |
| 63. | Promote energy efficiency in schools | Encourage schools to improve their energy efficiency and reduce their carbon emissions | Schools working group established | Existing | Enabling | Resilient Infrastructure and Communities Low Carbon Behaviour | Q2 2022/23 | Assistant Chief Executive |

| Our waste: Waste, plastics and the circular economy | | | | | | | | |
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| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our waste | | | | | | | | |
| 64. | Improve our waste collection offer | Roll out food waste collection to all suitable flats not covered by the 2019/20 trial. Approach informed by completed Food Waste Stream Value Mapping process work. | Completion of roll out and engagement. | Existing | Low | Reduced Waste | Q3 2022/23 | Contracts and Leisure |
| 65. | Improve our waste collection offer | Commercial food waste collection service | Food waste service operational | Existing | Low | Reduced Waste | Q3 2022/23 | Contracts and Leisure |
| 66. | Improve our waste collection offer | As part of West London Waste grouping, lead work to explore the future potential of West London sites. | Options developed | Existing | Low | Reduced Waste | Q4 2022/23 | Contracts and Leisure |
| 67. | Improve our waste collection offer | Improving options for kerbside collection of recycling materials. | Ensure delivery of WEEE collection at kerbside as per contract arrangements. | Existing | Low | Reduced Waste | Q2 2022/23 | Contracts and Leisure |
| 68. | Improve our waste collection offer | Explore viability of more on street recycling for textiles | Implement two new sites by December 2023 | Low | Low | Reduced Waste | Q3 2022/23 | Contracts and Leisure |
| 69. | Improve our waste collection offer | Explore alternatives to on-street split bins for recycling given the high levels of contamination. | Options developed | Existing | Low | Reduced Waste | Q3 2022/23 | Contracts and Leisure |
| 70. | Discouraging littering and flytipping | Explore increased enforcement and fines for littering | Monitor performance of littering enforcement contractor and consider additional options | Existing | Low | Reduced Waste | Q3 2021/22 | Highways Operations and Streetscene |
| Our plastic | | | | | | | | |
| 71. | Working with the community to reduce single use plastic | Lead plastics workstream for London-wide One World Living Programme aimed at reducing consumption emissions | Action Plan developed Actions delivered | Existing | Enabling | Reduced Waste Low Carbon Behaviours | Q3 2022/23 | Assistant Chief Executive |
| 72. | Working with the community to reduce single use plastic | Raise awareness across Richmond of the ten most common consumer single use plastics items and how to reduce their use | Information published | Existing | Enabling | Reduced Waste | Q2 2022/23 | Assistant Chief Executive |
| 73. | Working with the community to reduce single use plastic | Work with local groups and champions to support plastics free community campaigns | Campaigns launched | Existing | Enabling | Reduced Waste | Q4 2022/23 | Assistant Chief Executive |
| 74. | Working with the community to reduce single use plastic | Work with businesses to encourage refill points in shops to reduce single use plastic | Refill points established | Existing | Enabling | Reduced Waste | Q2 2022/23 | Assistant Chief Executive |
| 75. | Working with the community to reduce single use plastic | Support schools with information and action they can take around reducing plastic use | Information provided | Existing | Enabling | Reduced Waste | Q2 2022/23 | Assistant Chief Executive |
| 76. | Reducing plastic from events | Encourage community events to have a 'green' plan – for waste / recycling / single use plastics | Green Plan template developed and published | Existing | Enabling | Reduced Waste | Q2 2022/23 | Assistant Chief Executive |
| 77. | Reducing plastic from events | Working with pubs in the borough to participate in cup deposit scheme to replace single use plastic cups | All pubs using plastic cups part of the scheme | Existing | Low | Reduced Waste | Q2 2022/23 | Assistant Chief Executive |
| 78. | Public water fountains | Continue the roll out of public drinking fountains on-street | Increase in number of drinking fountains installed on-street | Low | Adaptation | Improved Health Reduced Waste | Q3 2022/23 | Traffic and Engineering |
| Our parks | | | | | | | | |

| Our waste: Waste, plastics and the circular economy | | | | | | | | |
|---|--|---|--|----------|---------------|--|------------|---|
| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| 79. | Improving waste collection and recycling in parks | Review Events Policy in parks to restrict hirer use of single use plastics and promote sustainable practices | Implementation of revised policy | Existing | Enabling | Reduced Waste | Q2 2022/23 | Contracts and Leisure |
| Our communities | | | | | | | | |
| 80. | Encouraging recycling and waste reduction | Encourage reduction in waste through education, improved communication materials and campaigns | A reduction in household waste arisings (kg/household) compared to pre-Covid levels* <i>*It should be noted this is an ongoing ambition as at present household waste arisings are still at Covid levels.</i> | Existing | Low | Reduced Waste Low Carbon Behaviours | Q4 2022/23 | Contracts and Leisure |
| 81. | Work with schools to reduce waste | Encourage reduction in waste through education, improved communication materials and campaigns for schools that will be passed on to households | Promotional materials and campaign produced and disseminated via schools hub/schools working group | Existing | Low | Reduced Waste | Q4 2022/23 | Contracts and Leisure / Assistant Chief Executive |
| 82. | Reducing food based emissions | Implement actions from the food workstream of the London-wide One World Living Programme aimed at reducing consumption emissions | Deliverable actions identified Actions delivered | Existing | Low | Reduced Waste | Q4 2022/23 | Assistant Chief Executive |
| 83. | Encouraging the circular economy | Be partner and hold events to coincide with London Circular Economy Week to encourage resident knowledge, interest and take up of the circular economy. | Partnership status achieved and events held | Existing | Enabling | Low Carbon Behaviours Thriving Green Economy | Q2 2022/23 | Assistant Chief Executive |
| 84. | Encouraging the circular economy | Implement actions from consumption-based emissions working groups | Take forward agreed London wide action plan and recommendations from working groups in areas of textiles, plastics, electricals, food. | Existing | Enabling | Low Carbon Behaviours Thriving Green Economy | Q4 2022/23 | Assistant Chief Executive |
| 85. | Encouraging the circular economy | Implement actions from West London Encouraging the Circular Economy Action Plan | Implement actions | Low | Medium | Low Carbon Behaviours Thriving Green Economy | Q4 2022/23 | Assistant Chief Executive |
| 86. | Encouraging the circular economy | Work with ReLondon to encourage sign up to circular matchmaker platform so circular economy businesses can meet people interested in purchasing products and services | Council and businesses signed up to circular matchmaker platform | Existing | Low | Innovation and Funding Thriving Green Economy | Q3 2022/23 | Assistant Chief Executive |
| 87. | Creating the infrastructure for a circular economy | Establish a 'Library of Things' in the borough | Library of Things operational | Medium | Medium | Innovation and Funding Thriving Green Economy | Q4 2022/23 | Assistant Chief Executive / Contracts and Leisure |
| 88. | Creating the infrastructure for a circular economy | Explore options for implementing a Circular Economy Hub in the borough | Approach and funding for Circular Economy Hub developed | Low | Medium | Innovation and Funding Thriving Green Economy | Q2 2022/23 | Assistant Chief Executive / Contracts and Leisure |
| 89. | Creating the infrastructure for a circular economy | Work with South London Partnership boroughs to create a digital engagement tool to support residents to make informed consumer choices that reduce waste and support the circular economy | Engagement tool launched | Existing | Enabling | Thriving Green Economy | Q2 2022/23 | Assistant Chief Executive |

| Our air: Improving local air quality | | | | | | | | |
|--------------------------------------|---|---|---|----------|---------------|----------------------|------------|---|
| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| 90. | Deliver the Air Quality Action Plan | Deliver the actions in the Richmond Air Quality Action Plan 2019-24 | Air Quality Action Plan delivered | Existing | Low | Improved Air Quality | Q4 2023/24 | Highways Operations and Streetscene / Traffic and Engineering |
| Our data | | | | | | | | |
| 91. | Maintain and improve our air quality monitoring | Maintain extensive monitoring regime in the borough and present quarterly updates through the air quality action plan | Monitoring updates presented quarterly including across new PM2.5 sites and multi-pollutant sites co-located with traffic monitoring | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Regulatory Services |
| 92. | Maintain and improve our air quality monitoring | Invest in new monitoring equipment as new technology moves forward | New equipment installed | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Regulatory Services |
| 93. | Maintain and improve our air quality monitoring | Undertake study to assess impact of wood burning on local PM2.5 levels, subject to funding and results of other PM2.5 monitoring | Assess need for additional study in light of IoT project, commission study if additional work needed. | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Regulatory Services |
| 94. | Maintain and improve our air quality monitoring | Assess and influence impact of proposed regulations under the Environment Act, in particular relating to new requirements for specific pollutants | Keep track of Environment Act regulations and consultations, likely coming forward from Q4 2021/22. Respond to consultations if applicable | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Regulatory Services |
| 95. | Maintain and improve our air quality monitoring | Expand PM2.5 monitoring borough-wide. | Install network of PM2.5 sensors to measure levels throughout the days, weeks and seasons. | Existing | Enabling | Improved Air Quality | Q4 2021/22 | Regulatory Services |
| 96. | Encourage and support citizen science activities that identify and tackle air pollution | Positively encourage and support citizen science activities where these actively contribute to identifying and tackling air pollution in the borough, including the provision of Diffusion Tubes and hand-held monitoring | Support up to four new projects each year | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Regulatory Services |
| 97. | Creating long-lasting, data-driven policy on air quality | Monitor baseline data and policy interventions to inform new policies with greatest impact | Install network of co-located traffic and air quality monitoring to understand how traffic impacts local air quality throughout the days, weeks and seasons using the Internet of Things. | Medium | Enabling | Improved Air Quality | Q4 2022/23 | Planning and Transport / Regulatory Services |
| 98. | Creating long-lasting, data-driven policy on air quality | Assess policy interventions and develop new policies with greatest impact | Develop policy recommendations from assessment of pilot phase of Internet of Things project | Medium | Enabling | Improved Air Quality | Q2 2023/24 | Regulatory Services / Planning and Transport |
| Our streets | | | | | | | | |
| 99. | Reducing air pollution from public transport | Lobby TfL for cleaner, less polluting models of buses | Lobbying approach agreed | Existing | Medium | Improved Air Quality | Q4 2022/23 | Planning and Transport |
| 100. | Reducing air pollution from deliveries | Develop plans to place restrictions on delivery vehicles in busy high streets. | Building from success of Clean Air Villages, consider lessons learned to identify other areas and plans for these areas | Low | Medium | Improved Air Quality | Q4 2022/23 | Planning and Transport |
| 101. | Reducing air pollution from deliveries | Investigation options for consolidation hubs | Identify potential solutions for consolidation hubs and partners. Prepare proposals for new hubs including through SLP partners. | Low | Medium | Improved Air Quality | Q4 2022/23 | Planning and Transport |
| 102. | Reducing air pollution from deliveries | Eliminate diesel emissions from non-itinerant food trading, including ice cream vans. | Electrify all relevant trading sites. Make it a condition at annual license renewal in 2022 to plug into an electrical source. | Medium | Medium | Improved Air Quality | Q4 2022/23 | Planning and Transport / Regulatory Services |
| Our communities | | | | | | | | |

| Our air: Improving local air quality | | | | | | | | |
|--------------------------------------|-----------------------------|---|--|----------|---------------|----------------------|------------|---|
| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| 103. | Opposing Heathrow expansion | Continue opposition to Heathrow expansion by working with other councils, Greenpeace and the Mayor of London. | Continue to engage public around opposition to Heathrow | Existing | Enabling | Improved Air Quality | Ongoing | Assistant Chief Executive |
| Our pollution | | | | | | | | |
| 104. | Target idling vehicles | Raise awareness and promote behaviour change around idling | Deliver four anti-idling campaigns, including at least one in-person event per year | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Traffic and Engineering / Assistant Chief Executive / Regulatory Services |
| 105. | Target idling vehicles | Raise awareness and promote behaviour change around wood burning impacts and alternatives | Deliver communications campaign around idling, drawing from monitoring data where possible | Existing | Enabling | Improved Air Quality | Q4 2022/23 | Assistant Chief Executive / Regulatory Services |
| Our schools | | | | | | | | |
| 106. | Install Green Walls | Assess air pollution exposure reduction installations around nurseries and primary schools in the borough to identify impact and feasibility of wider rollout | Assess the impact of green walls or similar measures installed during 2021 and identify other possible locations | Low | Low | Improved Air Quality | Q3 2022/23 | Traffic and Engineering |

| Our nature: Green infrastructure and biodiversity | | | | | | | | |
|---|---|---|--|---------------|-------------|---|-------------|---|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our biodiversity | | | | | | | | |
| 107. | Encouraging biodiversity in the borough | Support the delivery of the Local Biodiversity Action Plan (LBAP). | Actions in LBAP delivered | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2024/25 | Contracts and Leisure |
| 108. | Encouraging biodiversity in the borough | Deliver communication focused on the importance of biodiversity and actions that can be taken to help (e.g. not concreting over front gardens, planting native species in gardens, encouraging wildlife) | Communications delivered and information maintained on website | Existing | Adaptation | Improved Biodiversity and Green Spaces Low Carbon Behaviours | Q1 2022/23 | Assistant Chief Executive |
| 109. | Encouraging biodiversity in the borough | Work with Habitats and Heritage to support schools to 'rewild' areas of their grounds e.g. parts of their playing fields | Delivery of project by Habitats and Heritage | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure |
| 110. | Encouraging biodiversity in the borough | Deliver the two biodiversity focused projects under the South London Partnership Internet of Things programme. The two projects are wildlife monitoring and mink rafts. | Delivery of projects and analysis of data | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure |
| 111. | Minimise impact of lighting on biodiversity | Limit our own use of floodlighting at Council controlled sports venues and work with local sports venues to reduce their use of floodlighting | Policy position on floodlighting developed | Existing | Low | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure / Assistant Chief Executive Planning and Transport |
| 112. | Minimise impact of lighting on biodiversity | Review our street lighting approach to ensure minimal impact on biodiversity | Review completed | Existing | Low | Improved Biodiversity and Green Spaces | Q1 2022/23 | Highways and Streetscene |
| 113. | Develop options for non-chemical weed treatments. | Continue to monitor and explore new methods of non-chemical treatments for street cleansing following limited success with foam-based treatments. | Options presented to Members for consideration. | Existing | Low | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure |
| Our communities | | | | | | | | |
| 114. | Deliver Cultural Reforesting Programme | The cultural reforesting programme aims to renew our relationship with nature. The programme aims to be solutions focussed and will work with a range of artists and partners carrying out research on Orleans House Gallery grounds and across the borough. The second year of the programme includes developing an ecosystem plan for Orleans House and projects involving artists and young people | Second year of programme delivered | Existing | Enabling | Improved Biodiversity and Green Spaces Low Carbon Behaviours | Q4 2022/23 | Contracts and Leisure |
| Our trees | | | | | | | | |
| 115. | Take an informed approach to tree planting | Identify key impact areas for tree planting, with a focus on mitigation of climate change effects | Complete identification of areas | Low | Enabling | Resilient Infrastructure and Communities Improved Biodiversity | TBC | Contracts and Leisure |

| Our nature: Green infrastructure and biodiversity | | | | | | | | |
|---|---|---|---|---------------|------------------|--|-------------|--|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| | | | | | and Green Spaces | | | |
| 116. | Take an informed approach to tree planting | Deliver ecosystems services study and engage local groups in study | Commence ecosystems service study | Low | Enabling | Resilient Infrastructure and Communities Improved Biodiversity and Green Spaces | Q1 2022/23 | Contracts and Leisure |
| 117. | Take an informed approach to tree planting | Implement tree planting strategy informed by ecosystems services study | Tree planting strategy developed | Low | Enabling | Resilient Infrastructure and Communities Improved Biodiversity and Green Spaces | Q1 2023/24 | Contracts and Leisure |
| 118. | Plant more trees | Plant additional trees across the borough | Tree planting targets met each year | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2024/25 | Contracts and Leisure |
| 119. | Plant more trees | Encourage planting of appropriate trees in private gardens | More trees planted | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q3 2022/23 | Assistant Chief Executive |
| 120. | Plant more trees | Monitor the delivery of the RHP estates tree planting programme which is part funded by the Council. | 250 trees planted | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Housing Services |
| 121. | Protect our existing trees | Utilise Friends Groups to help the community support and nurture trees in their local area. | Ongoing feedback from Friends Groups. | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure |
| 122. | Protect our existing trees | Encourage new Friends Groups that protect trees, including a Friends of Street Trees group. | Friends of Street Trees group established Street trees in at least two locations covered by new group(s) | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Assistant Chief Executive / Contracts and Leisure |
| 123. | Protect our existing trees | Identify and celebrate Veteran and Heritage trees through link to great London trees and include in educational material and walks. | Materials published | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Contracts and Leisure |
| 124. | Protect our existing trees | Conduct lobbying to strengthen Tree Protection Orders, with more emphasis on climate and ecological benefits of trees | Identification of areas where TPOs can be strengthened Campaign carried out | Existing | Adaptation | Improved Biodiversity and Green Spaces | Q4 2022/23 | Assistant Chief Executive / Contracts and Leisure |
| Our parks | | | | | | | | |
| 125. | Improving environmental practices in parks operations | Increase the area of native meadows in parks | Area coverage increased | Low | Adaptation | Improved Biodiversity | Q4 2021/22 | Contracts and Leisure |

| Our nature: Green infrastructure and biodiversity | | | | | | | | |
|---|---|---|---|---------------|------------------|--|-------------|------------------------|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| | | | | | and Green Spaces | | | |
| 126. | Improving environmental practices in parks operations | Reduce usage of peat in parks by trialling peat-free hanging baskets | Reduction in quantities of peat used | Existing | Medium | Improved Biodiversity and Green Spaces | Q3 22/23 | Contracts and Leisure |
| Our green infrastructure | | | | | | | | |
| 127. | Putting climate change at the heart of the Local Plan | <p>Develop a new Local Plan which places climate mitigation and adaption at its heart, with zero-carbon policies embedded across planning. This will, but is not limited to:</p> <ul style="list-style-type: none"> - Explore going beyond London Plan standards for carbon neutral developments, with offsetting a last resort - ensure developments are climate resilient and require the use of sustainable drainage and other flood management systems - maximise opportunities for on-site renewable energy generation and retrofit - use placemaking that prioritises sustainable travel and considers a 15-minute city approach to development - ensure infrastructure is a key component of planning and results in biodiversity net gain - provide for monitoring of the effectiveness of the Local Plan through regular performance assessment against a series of quantitate indicators - require development to be 'air quality neutral' during construction and operation - require whole lifecycle emissions assessment from developers, circular economy statements and contributions to the costs of monitoring energy efficiency in line with the GLA's 'be seen' hierarchy and monitoring guidance. | <p>New Local Plan developed and agreed in line with timetable for consultation and approval:</p> <p>Q4 2021/22: Consultation on the 'Pre-Publication' Draft Local Plan</p> <p>Q3 2022/23: Revise draft and consult on Publication draft Local Plan</p> <p>Q1 2022/23: Submission to Planning Inspectorate of draft Local Plan</p> <p>Q1 2024/25: Independent examination in public, report due Q1 2024/25</p> <p>Q3 2024/25: Adoption of New Local Plan</p> | Low | Enabling | Resilient Infrastructure and Communities | Q3 2024/25 | Planning and Transport |

| Our resilience: Climate resilience and flooding | | | | | | | | |
|---|----------------------------------|---|--|---------------|-------------|-----------------|-----------------|---|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| Our resilience | | | | | | | | |
| 128. | Public Health | Integrate Public Health work into corporate Climate change plans (Mapping against existing PH work and identifying future areas of work against climate change agenda) | Map all current areas of Public Health work including commissioning work to identify areas that incorporate climate adaptation and mitigation. Identify future PH areas of work including commissioning and procurement that would contribute to the climate change agenda. This mapping exercise will help develop a robust Public Health Climate Change action plan. | Existing | Enabling | Improved Health | Q1 & Q2 2022/23 | Public Health |
| 129. | Public Health | Improve collaboration and partnership across the health and social care system by forging links with internal and external partners to streamline climate change agenda. | Form cross-borough connections and links with internal and external organisations and agencies such UKHSA , GLA, Office for Health Improvement and Disparities (OHID) , SWL CCG and other London-wide groups. to contribute into each other's Climate Change agendas. Develop ways of sharing knowledge, tools and resources, including mapping tools. Identify linkages between council and Greener NHS teams as part of SWL CCG Integrated Care Systems. (This action is dependent on NHS teams being established in the area.) Establish coordinated approach with Adult Social Care and Children's Services in supporting vulnerable groups to mitigate the impacts of climate change. Integrate climate change impacts into emergency preparedness planning and Air Quality agenda. | Existing | Enabling | Improved Health | Q4 2022/23 | Public Health/Adult Social Care |
| 130. | | Use Public Health core skills such as surveillance , intelligence , data analysis, Health Needs and Impact Assessment , strategy and policy development , sharing best practice and system leadership to influence the Corporate Climate Change agenda. | The actions may include: Undertake borough-wide analysis of climate change impacts and vulnerabilities: Surveillance of climate change data to inform PCN's/primary care , health messaging re prevention/mitigation for people with a higher risk Mapping hotspot areas and identify issues to support effective adaptation work , incorporating air quality issues and including wider determinants of health e.g. poverty, income levels and inequalities overlaid with climate impacts. Identify residents with the highest need and at highest risk due to the impacts of climate change and act collaboratively to mitigate the risks to support those groups. Share insights on vulnerable populations with voluntary sector and other community partners. | Low | Enabling | Improved Health | Q4 2022/23 | Assistant Chief Executive / Public Health / Highways Operations and Street scene/Adult Social Care/Environmental Health |
| 131. | Addressing the climate emergency | Identify residents at highest risk of the impacts of climate change. | Undertake borough-wide analysis of climate impacts and vulnerabilities: map hotspot areas and identify issues specific to each area to support effective adaptation work, incorporating air quality issues and including | Low | Enabling | Improved Health | Q2 2022/23 | Assistant Chief Executive |

| Our resilience: Climate resilience and flooding | | | | | | | | |
|---|------------------------------|--|--|-----------------|-----------------------|--|-------------|--|
| Outline action | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) | |
| | as a health emergency | | | | | | | |
| 132. | Identifying flooding threats | Develop and install SuDS across highway network and in conjunction with Parks teams, considering habitat preservation. | | | | | | |
| | | e.g. health impacts, poverty, income levels and inequalities overlaid with climate impacts. This action is in part dependent on the publication of the census, awaited in 2022. Ensure flooding impacts are incorporated into borough-wide analysis, reflecting results of Surface Water Management Plan. Map hotspot areas and identify issues specific to each area to support effective adaptation work. | | | | | | |
| 132. | Identifying flooding threats | Develop and install SuDS across highway network and in conjunction with Parks teams, considering habitat preservation. | Continue to develop options, seek funding, prioritise locations for shovel-ready projects and install SuDS | Medium | Enabling | Resilient Infrastructure and Communities Improved Biodiversity and Green Spaces | Q4 2022/23 | Planning and Transport / Traffic and Engineering / Assistant Chief Executive |
| 133. | Identifying flooding threats | Update Local Flood Risk Management Strategy following completion of Surface Water Management Plan following action plan of tasks and priority ranking for managing surface water across the borough through the following timeframes: short term (1 – 2 years), medium term (2 – 5 years and long term (5 – 10 years) | SWMP and Strategy updated | Existing | Enabling / Adaptation | Resilient Infrastructure and Communities | Q3 2022/23 | Traffic and Engineering |
| 134. | Addressing flooding threats | Carry out an economic appraisal for each proposed mitigation option for the shortlisted high risk hotspots, and revise the ranking given to reflect its economic viability | The economic appraisal should include a cost benefit analysis of the scheme over its lifetime A programme should be produced outlining how and when viable schemes will be taken forward. Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond | Low | Enabling / Adaptation | Resilient Infrastructure and Communities | Q4 2022/23 | Traffic and Engineering |
| 135. | Identifying flooding threats | Undertake detailed flood risk modelling if required to better assess the benefits of the options with the highest priority ranking. Consider taking forward the most promising options for further appraisal and cost refinement, and preparing and submitting a business case to obtain funding to deliver a viable option. | Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond Investigate increasing the surface water pipe diameter in St. Margaret's Road to reduce flooding in Richmond. | Low | Enabling / Adaptation | Resilient Infrastructure and Communities | Q4 2024/25 | Traffic and Engineering |
| 136. | Addressing flooding threats | Investigate repeat or significant flooding incidents which have occurred in Hotspots and Flood Incident Areas to determine potential cause(s) and recommendations for future actions | Identify key 'at risk' communities, develop resources in Richmond | Low | Enabling / Adaptation | Resilient Infrastructure and Communities | Q4 2022/23 | Traffic and Engineering |
| 137. | Addressing flooding threats | Deliver Defra-funded Beverley Brook project | Secure remaining tranches of funding of £6million scheme. Deliver innovative actions in the Beverley Brook river catchment to improve resilience to flooding through this project using a blend of nature-based solutions and integrated water management measures, working cooperatively with a wide range of partners and stakeholders to achieve this. | Existing (High) | Enabling / Adaptation | Resilient Infrastructure and Communities | Q4 2025/26 | Traffic and Engineering |
| 138. | Resilient infrastructure | Investigate resilience of key transport infrastructure across the borough including the strategic highway network, railway lines and public transport assets | Develop and keep up to date a list of all critical infrastructure and work with relevant departments to ensure the resilience of this infrastructure against flood risk now and in the future | Existing | Enabling / Adaptation | Resilient Infrastructure and Communities | Q4 2022/23 | Traffic and Engineering |

| Our resilience: Climate resilience and flooding | | | | | | | | |
|---|---|--|---|----------|-----------------------|--|--------------------------|---|
| Outline action | | Specific Action(s) | Measure / Target | Cost | Carbon Impact | Co-benefits | Timeline | AD Lead (s) |
| | | | | | | Clean Water | | |
| Our communities | | | | | | | | |
| 139. | Working with residents and businesses to reduce water wastage | Consider output of climate risk mapping to identify priority areas for reducing runoff and improving storage capacity and highlight to businesses and residents. | Options investigated and developed | Existing | Enabling / Adaptation | Resilient Infrastructure and Communities Clean Water | Q4 2022/23 | Traffic and Engineering / Assistant Chief Executive |
| 140. | Working with residents and businesses to reduce water wastage | Identify sources of funding and assistance for retrofitting roofs on residential and commercial buildings with green or blue roofs | Communicate local flood risks to support the uptake of property-level mitigation measures: use a catchment-based approach to work closely with communities and landowners in Richmond Identify key 'at risk' communities, develop resources in Richmond, bring in funding where this is made available. | Existing | Enabling / Adaptation | Resilient Infrastructure and Communities Innovation and Funding | Q4 2023/24 | Assistant Chief Executive |
| 141. | Working with residents and businesses to reduce water wastage | Campaign for water waste meters for all households and businesses | Campaign launched | Existing | Adaptation | Clean Water | Q4 2022/23 | Assistant Chief Executive |
| Our partners | | | | | | | | |
| 142. | Working with internal partners | Provide training for other Council officers to increase the potential for partnership working through improved education about SuDS and to improve public informing exercise | Training provided to Planning and other relevant teams | Existing | Enabling | Resilient Infrastructure and Communities | Q4 2023/24 | Traffic and Engineering |
| 143. | Working with water partners | Work closely with the South West London Flood Group, the Environment Agency, the Local Resilience Forum and the Drain London Forum on flooding developments | Relationships maintained and improved. Continue to hold quarterly flood group meetings in Richmond Work together with the Environment Agency to understand the fluvial and tidal interactions and the operation of the Thames Barrier in Richmond Work together with Thames Water to understand the interaction between the sewer system and fluvial/tidal flooding in Richmond. | Existing | Enabling | Resilient Infrastructure and Communities Clean Water | Q4 2022/23 | Traffic and Engineering |
| 144. | Provide Sustainable Drainage Systems | Provide Sustainable Drainage Systems (SuDS) using identified funding from Thames Water | Publish and begin implementing a programme of flood alleviation schemes which mitigate local flood risks, utilising a catchment-based approach in Richmond. Identify potential funding contributors and securing funding for scheme options to enable delivery. SUDs delivered. | Existing | Adaptation | Resilient Infrastructure and Communities | Q4 2022/23 Q4 2024/25 | Traffic and Engineering |

Definitions

Q1 is April to June. Q2 is July to September. Q3 is October to December and Q4 is January to March.

Costs and carbon impacts have been estimated and categorised, as set out in the table below. Co-benefits of the actions have also been identified, with a list of co-benefit areas set out in the table. An explanation of the co-benefits is set out below.

Carbon impact is based on the potential carbon savings that will occur if the project or approach is delivered. The impact is based on carbon data where it is available, where this data is not available it is based upon proxy data or estimates of the likely impact.

| Costs | Carbon Impact | Co-benefits |
|---|--|--|
| <ul style="list-style-type: none"> • Existing – to be met from existing and already identified resource • Low – under £50k required for the project or approach • Medium – Between £50k and £200k required for the project or approach • High – Over £200k required for the project or approach | <ul style="list-style-type: none"> • Enabling – action will not save carbon directly but will help create an environment where other actions can take place to save carbon or create climate resilience • Low – reduce carbon emissions in this area by under 10% • Medium – reduce carbon emissions in this area by between 10% and 25% • High – reduce carbon emissions in this area by over 25% • Adaptation – action will help adapt to current and/or future impacts of climate change | <ul style="list-style-type: none"> • Thriving Green Economy • Resilient Infrastructure and Communities • Improved Health • Improved Air Quality • Innovation and Funding • Low Carbon Behaviours • Improved Biodiversity and Green Spaces • Reduced Waste • Clean Water |

Co-benefits: an explanation

Climate co-benefits are beneficial outcomes from action that are not directly related to climate change mitigation. Such co-benefits include cleaner air, green job creation, health benefits from active travel, and biodiversity improvement through expansion of green space. Planning climate action that also delivers co-benefits can enable us to maximise opportunities to address multiple social, environmental, and economic challenges. We have identified the co-benefits of our actions throughout our Climate Emergency Strategy Action Plan. An expansion and explanation of what we mean for each co-benefit is set out below:

- **Thriving Green Economy:** Action supports the development of the green economy. This can include green jobs, green skills, investment in business and the circular economy. A green economy can lead to secure jobs, lower carbon emissions from business and provide improved low carbon choices for residents in what they buy and consume.
- **Resilient Infrastructure and Communities:** Action supports our places and communities to be ready for the impacts of climate change such as flooding, heat waves or other extreme weather events.
- **Improved Health:** Action supports improved health of the population.
- **Improved Air Quality:** Action reduces air pollution and improves air quality.
- **Innovation and Funding:** Action supports new approaches, ideas or ways of working that are innovative and a move away from traditionally used approaches. Action attracts new or additional funding to the organisation or the borough, or reduces costs over the long term.
- **Low Carbon Behaviours:** Action promotes changes in the way people act and the choices they make so they are acting in low carbon ways.
- **Improved Biodiversity and Green Spaces:** Action supports increased biodiversity in the borough, increased plant or animal life or supports the promotion, improvement or preservation of green spaces.
- **Reduced Waste:** Action supports a reduction in waste materials being generated or supports generation of materials that can be reused within a circular economy approach.
- **Clean Water:** Action supports the preservation of clean water in the borough by reducing water demand and/or reducing potentially polluting water run off.