## Appendix 3 Progress on Gateway 2 programme

Item	Progress summary	Outputs to date	Indicativ e Cost (£)	Spend to date (committ ed end Jan 2022)
Framework Development	Project plans have been developed for year 1 and years 2/3	Project Plan Cool Streets & Greening – Year 1 Project Plan Cool Streets & Greening – Year 2/3	£50K	7K
Resilience measures catalogue	Beta version of the resilience measures catalogue in use for site prioritisation  Resilient planting catalogue scoping and evaluation of existing sites underway	Beta version of resilience measures catalogue listing 34 measures with indicative costs and benefits	£10K	10K
Smart sensors & monitoring	Collaboration with Kings College London and COL Boys' School - sensors installed, data gathering underway	Temperature, humidity, soil moisture and air quality sensors installed and gathering data. Weather station installed on roof of Boys' School and gathering data	£85K	£12K
Smart sensors & monitoring	Urban Controls Mesh connected sensors  – order to be placed by end Feb 2022 installation due by summer 2022	Specification and quotes for Mesh network connected sensors		£33K
Smart sensors & monitoring	10 Gully sensors  – order to be placed by end Feb 2022 installation due by summer 2022	Specification and quotes for gully sensors		£29K

Data collection & analysis	Climate Action Strategy dashboard has been developed to provide an overview of the progress on all CAS projects.  Data collection and analysis from sensor	Climate Action Strategy dashboard  Specification for sensor outputs to be analyses via Azure IOT hub	£20K	
	network will be through an Azure IOT hub allowing outputs in Power BI or via the Free-station public access website	Free-station outputs for Cheapside sunken garden and Boys' School weather station		
Opportunity mapping & data gap analysis	Cubic Mile partnership project underway with British Geological Survey (BGS) funded by NERC. Project completion Nov 2022	Data sources spreadsheet and collation of existing mapping	£75K	£20K
Site identification & prioritisation	Year 1 Complete Year 2 Complete	Year 1 – six projects identified - 9 sites 4 sites implementation & monitoring 5 sites – monitoring only	£30K	5K
	Year 3 Projects underway to identify further sites	Year 2 – six projects identified – 6 sites 4 sites implementation & monitoring 2 sites – monitoring only New sites – Areas of search defined		
Staff costs site identification & prioritisation	Public Realm Team and Open Spaces team staff costs for sites designs		£50K	7K
Staff costs CS&G workstream management	Environmental Resilience team staff costs	Environmental Resilience Officers	£100K	tba
			£320K	£123K

## Appendix 4 Progress on Year 1 Projects

Site	Proposed measures	Progress summary	Outputs	Indicati ve Cost (£)	Spend to date
Bevis Marks	Installation of rain garden permeable paving trees and climate resilient planting	In design Gateway 5 approval early 2022 delegated Construction Start date April 2022 Completion June 2022	Measures included in the design for Bevis Marks  SuDS – raingardens with channels and reprofiled footways  Permeable paving Trees Climate resilient planting  Monitoring planned  Temperature, humidity, and soil moisture – Urban controls – connected to mesh network Gully sensors - supplier tba	250K	Subject to Gateway 5 approval
Jubilee Gardens	Installation of Sustainable Drainage System (SuDS) green wall trees and climate resilient planting	In design Gateway 5 approval April 2022 delegated to chief officer Construction Start date summer 2022 Completion Autumn 2022	Measures included in the design for Jubilee Gardens  SuDS soakaways Green wall Trees Climate resilient planting  Monitoring planned  Temperature, humidity, and soil moisture Urban Controls – connected to mesh network Gully sensors - supplier tba	150K	Subject to Gateway 5 approval
Greening Cheapside	Installation of SuDS, permeable	In design	Measures included in the design for Greening Cheapside site:     SuDS soakaways – reprofiling footways to drain to landscaping around trees	180K	Subject to Gateway 5 approval

	paving and climate resilient planting	Gateway 5 approval Jan 2022 Construction Start date April 2022 Completion June 2022	<ul> <li>permeable paving – bound gravel for all paved surfaces</li> <li>Climate resilient planting</li> <li>Monitoring In collaboration with Kings College London and Ambiotek the following sensors are in place:         <ul> <li>Temperature &amp; humidity</li> <li>Soil moisture</li> <li>Air quality</li> <li>Weather station (on Boys' School Roof)</li> </ul> </li> </ul>		
Riverside Planters City of London School	Climate resilient planting in water retentive soils, removal of artificial irrigation, retention of existing trees	In design Planting date spring/ autumn 2022 Completion November 2022	Measures included in the design for the Riverside Planters  Alternative planting mediums – water retention Retention of existing trees Climate resilient planting  Monitoring planned in conjunction with Kings College London & Ambiotek  Temperature & humidity Soil moisture Chlorophyl leaf monitoring sensors  Plus comparison with commercial sensors	55K	Subject to Gateway 5 approval
Climate Resilient Planting	Climate resilient planting at four pedestrian priority sites	Planting complete monitoring programme in design	Planting for these sites was completed in 2021      Monitoring planned     Temperature, humidity and soil moisture – Urban Controls connected to the mesh network     Chlorophyl leaf monitoring sensors	20K	See Gateway 2 update

35 Vine Street	Tree planting (6 trees- 3 species)	Planting date Spring/ Autumn 2022 Completion Nov 2022	Eight trees of 2 different species     Monitoring     Temperature, humidity and soil moisture Urban Controls connected to mesh network     Chlorophyl leaf monitoring sensors	5K	See Gateway 2 update
Total	Capital costs			660K	Nil
Maintenance and monitoring of all sites	To evaluate the effectiveness of the measures for combating climate risks and identify any additional operational costs	To be met by Climate Action Strategy revenue funds		114K funded from CAS revenue – not to be included in total	
Total	Capital and revenue costs			774K	Nil