	Date Raised	Risk influencer	Through a shall the state of th	The complete of the complete o	Donatation 11	202	(1-4)	(1-4)		owner		impact	Mitigation Score	Date Updated	The best of the second
	23/10/18	Programme	There is a risk that compliance may not be achieved by the 2020 deadline.	The council may be received sanctions including fines for failing to meet compliance in time. Residents and Business in Birmingham still impacted	Reputational damages on Birmingham for non compliance	BCC - Executive	4	4	Robust modelling which identifies interventions which make a big impact. See if there is potential to expand those initiatives to achieve	BCC - transport policy	3	4	12	30/09/18	The traffic and air quality modelling shows that compliance will be achieved in all but 3 locations by 2020, 2 will be met by 2021 and one on Suffolk St
\dashv			There is a risk that JAQU's funding approvals	by poor air quality.	Additional measures are not	BCC -		-	compliance by 2020. Demonstrating to JAQU the impacts of a prolonged approval process	team					O'way in 2022.
5	23/10/18	Funding	process is prolonged for final delivery of preferred option	and failure to meet compliance within the respective timescales.	delivered in time	Transport policy team	4	4	for funding. Revised timeline that reduces the legal limits (e.g. consultation).	BCC - transport policy	3	4	12	19/02/18	
				Not recognising that there is significant local impacts from not having the funding in place						team					
			There is a risk that the current city traffic model (Saturn) does not account for road networks	The consequence would be delays to the overall programme and implementation of CAZ initiatives.	Incorrect assessment of the current impact and preferred option	BCC - Transport			Model contingency plans for traffic data and their impact on Air Quality and devise whether additional measures are required to meet						Still need to be identified,
-010	23/10/18	Modelling	outside of the city centre.	Further funding not available to improve areas outside of City Centre.		policy team	3	4	Air Quality compliance. Updates to the model are underway for the potential cordons	BCC - transport policy	2	2	4		
				Raise issues around validity on the evidence Remodelling = further delays					opulates to the model are underway for the potential condons	team					
			There is a risk that CAZ has an impact on	The consequence would be that lack of engagement	Delay to Implementation	BCC -			Ensure a robust communication and engagement strategy to enable	BCC -					M6 - knock on consequences
011	23/10/18	Consultation	Highways England network resulting in H.E objecting to CAZ	could potentially mean retrospective changes, increasing the cost to the council.		transport policy /	2	3	the most useful and most recent information to be available to inform BCC.	corporate	2	2	4	22/08/17	
			There is a risk that there is insufficient Public	Adverse comments at the consultations phase The consequence would be that it would be more	It will take longer to meet the Air	corporate BCC			Already working with TfWM for certain corridors, and specifically	BCC -					National policy, can anything drive transport issu
012	23/10/18	Programme	Transport Capacity to support modal shift. (programme risk)	difficult to influence people to get the modal shift	Quality requirements.	500	2	3	uplifting mode share, eg extra buses	transport policy team	2	2	4	22/08/17	In terms of compliance the number of patronage level changes are small.
			There is a risk our assumptions from the	The consequence would be that inaccurate modelling		BCC -			Independent verification undertaken on all results and these will be						BCC air quality modelling assumptions
			transport and AQ modelling are incorrect.	results may cause delay to the programme. The consequence would be additional cost for	revaluate the modelling	transport policy			matched with what JAQU has provided as indicative areas of poor air quality.	BCC -					
014	23/10/18	Modelling		interventions as a result of poorer air quality than predicted.			2	3		transport policy team	1	3	3		
				The consequence would be a legal challenge from the Government resulting in cost and delay.											
045	00/40//-	D-100	There is a risk that political members would be unsupportive of CAZ.	The consequence would be unsupportive members may cause the decision making and schedule to be	Programme delays - Cost overruns	BCC - Cabinet Member			Proactive communications and engagement with influential political stakeholders and demonstrate impact to cost and schedule from lack	transport policy				30/09/18	POBC passed through cabinet and scrutiny by a
15	23/10/18	Political		delayed significantly causing. FBC isn't signed off		(Economy)	2	3	of decision making.	team & corportate	1	2	2		political vote, the mayor is also still supportive of scheme.
016	22/40/40	Lociala#!	There is a risk of lack of guidance and legal understanding in how the traffic regulation order	The consequence would be judicial review as a result of objections.	delay on the delivery	BCC - transport	4	4	Engage with the supply chain to procure external support for the drafting of the charging order from specialist resource.	BCC - project			2	20100110	Review before we can accept TRO, we can still gahead and implement, will politicians support that
110	23/10/18	Legislation	approval can be used to implement the scheme.	_		policy	4	4		team	1	3	3	22/08/18	
017	22/40/40	E,:-	complexity and scale involved in BCC	The consequence would be there is the possibility of a delay to agreeing a preferred solution impacting	economy	BCC - transport			Provide JAQU with draft modelling results to prevent delays in achieving a preferred solution.	BCC -			2	20/00/12	Issues with conservative councillors on CAZ charging zone
1/	23/10/18	Funding	completing their Feasibility Study	timescales to achieve compliance.	Impact on deprived areas and smaller businesses	policy	2	3	Keep JAQU informed of developments and progress on the overall Air Quality Programme.	transport policy	1	2	2	22/08/18	
			There is a risk that the capital costs for the CAZ interventions exceed initial forecast spend.	The consequence could be failing to deliver all interventions to improve Air Quality and reach	Delay in compliance	BCC - project team / city			Ensure budget is sufficient to deliver the respective interventions	1005					Implementation risk, procurement strategy before FBC, FBC will finalise costs
020	23/10/18	Funding	interventions exceed initial forecast spend.	compliance resulting in a financial penalty to the council.		finance	2	3	Close monitoring of financial during the delivery of the various interventions.	BCC - project team / city	1	2	2	01/08/17	T BC, T BC will finalise costs
				council.					Appropriate contingencies	finance					
	00/40/40	D	There is a risk that there is a lack of resource in terms of capacity and capability within BCC to	Slippage in the programme which would mean a fine as a result of not being compliant.	Delay in compliance	BCC - project team	_		Create and manage a resource tracker for the overall programme delivery to ensure no project slippage.	BCC - project			2	00/04/40	Resource tracker created, raised awareness of annual leave absences and needs for further
)23	23/10/18	Resources	deliver the project.				1	3	,	team	1	2	2	09/04/18	resources
			There is a risk that there is a delay to scheme approval.	Delay to draft scheme submission and scheme approval could mean that Birmingham City Council	Delay in compliance	BCC - transport			Constant management of the programme plan and review of critical activities to prevent slippage.						Delaying implementation of proposal
			Internal scheme approval - Mitigation, has to	miss the requirements of the proposed secondary legislation to mandate the implantation of a CAZ in		policy				BCC - project					
024	23/10/18	Political	make it work (ministerial direction)	Birmingham resulting in punitive measures. Delay to approval which will result in significant			1	4		team	1	2	2		
			Government led scheme - forced to timescales etc.	delivery pressures for implementation of the CAZ (to be operational by mid 2019).											
				No off the shelf system currently available.	Reputational damage	BCC			Ensure proper testing prior to user roll out.						We don't know what system will be introduced
023	23/10/18	Technological	for the CAZ charging zone are not user friendly.	User complaints about the cashless payment system			1	3		BCC - project	1	1	1	01/08/18	
-020		_	Interoperable system	which may cause additional administration and cost to the city council.						team					
			There is a risk that specialist with technical and air quality knowledge is stretched as the number	Specialist resources will be in the highest demand	A programme delay Don't deliver compliance - to the	BCC - project team			One of the first cities identified to address AQ, therefore ahead of the	1					
026	23/10/18	Resources	of cities identified to address AQ nationally increased from 5 to 45.	Reduced funding Fragmented approach than being led from a national	required standard/guidance	team	4	3	Can provide useful lessons learned to other cities moving forward	BCC - project team	3	4	12	21/06/2018	
			There is a risk that that there is limited time to	level The consequence would be that improper positioning	Deleve to delivery recovers and	BCC - project			Continued collaboration with the design team and the infrastructure						
033	23/10/18	Delivery	undertake detailed site work at design phase	of signs and cameras leads to obscure line of sight and increased street clutter. Potential unsuitability of	rework of tenders.	team	1	4	delivery team to ensure efficiencies and knowledge is shared at all times.	DOO project	1	2	2	21/06/2018	
		-		location.						team					
		_	There is a risk that some of the signage and camera locations are situated on adjacent	The consequence could be that the authority does not agree to the location of the sign/camera.	Delay to programme, additional costs and possible rework of design.	BCC - transport			Communication with JAQU to raise this as an issue, national assurance that authorities such as Highways England are on board	BCC - project					
035	23/10/18	Delivery	authorities or privately owned networks.			policy / project team	3	3	with Clean Air Zone's and have a clear understanding. Communication directly with these authorities where there may be	team / transport policy	2	2	4	21/06/2018	
			There is a risk that the construction works being	CAZ project may be unable to carry out the required	Time and cost escalation.	BCC - project			potential infrastructure on the network. Early engagement with HS2 and BCC traffic management team.	BCC - project					
038	23/10/18	Delivery	undertaken by HS2 will clash with the construction activities being planned by CAZ.	works at the planned time (HS2 is likely to take priority).		team	4	4	Quarterly meetings with HS2 with KB contacts, maximising time on site - using pre dug holes to standardise the hardware. Weekly city	team / traffic manager	2	3	6	02/10/18	
	00/10/17	D.::	Same as above but for the Midland Metro	As above.	Time and cost escalation.	BCC - project		<u> </u>	centre management meeting. As above.	BCC - project				0011011-	
)39	23/10/18	Delivery	extension works.	Dedecing of the CAZ	Time and seek assets.	team	4	4	As about a sale as a	team / traffic manager	2	3	6	02/10/18	
-040	23/10/18	Design	major programmes could impact the design of	Redesign of the CAZ may be required to work around the works being planned by othe rmajor citty centre	rime and cost escalation.	BCC - project team / traffic	2	3	As above early engagement required, where designs can be streamlined to incorporate changes being made by other	BCC - project team / traffic	1	2	2	02/10/18	
			the CAZ.	programmes.		manager			programmes of work then this should be done. Relies on information being provided by the other schemes.	manager					
041	23/10/18	Design		Sign clutter' on the network, reduced space to implement CAZ signage and confusion to drivers.	Some redesign may be result in escalated cost and schedule	BCC - project team / traffic	2	1	Designs have been provided to Jacobs for input into outline design. Will be made available to D&B contractor.	BCC - project	1	1	1	02/10/18	
		J	similar in nature to the CAZ camera signs.	All of the required information will not be available	The target cost subitted by the	manager DfT			Information has been submitted to the DfT for approval.	team	·				
	22/40/40	Danie	DfT in a timely fashion.	upon contract award for the next stage of design.	The target cost subitted by the contractor will contain an element of	511	3		Information has been submitted to the Df1 for approval. Seek to collaborate with other LAs to ensure a consistent approach.	DET/DOO	2	2		00/04/00	
142	23/10/18	Design			uncertainty which could result in escalated cost and time.		3	3	Cook to collaborate with other LAS to ensure a consistent approach.	DfT/BCC	2	2	4	02/01/00	
		Male - 4 - 5	A manager / accountable person has not been	Failure to deliver the mitigation measures and	The mitigation measures and	BCC - SRO			The BCC behavioural change and benefits have been engaged.	Boo + **					
043	23/10/18	Mitigations & Exemptions	assigned within BCC to manage the delivery of the mitigation measures and exemptions.	exemptions in time for the deadline	exemptions may not be available therefore having a negative impact		3	4	Escalated within BCC as a responsible person needs to be identified.	BCC - traffic manager	2	2	4		
		Mitigations &	There is a risk that the marketing campaign for	The target audience of the marketting campaign will		BCC	_		Enagagement with the BCC comms team is underway. Behaviour	BCC -					
)44	23/10/18	Exemptions	the mitigation and exemptions will be unsuccessful.	not be engaged and therefore awareness of the mitigation measures and exemptions will be minimal.	and exemptions will be a failure.		3	4	Change team to take ownership and ensure marketting is started ahead of time.	corporate comms	2	2	4		
		Mitigations &	There is a risk that mitiagation and exemptions will have a negative impact on compliance.	The consequence is the overall delays in reaching the deadline for compliance.	failure and potentially result in fines	BCC - transport			Modelling of the impact to traffic and air quality is being undertaken to ensure the measures being offered will not have a negative	BCC - project					
045	23/10/18	Exemptions	·		for BCC.	policy manager	3	3	impact.	team	1	3	3		
			There is a risk of loss of public and business	Loss of public support for the scheme and the	Reputational damage for BCC and	BCC			As R007. Consultant being employed to respond to queries raised	BCC - project					
)46	23/10/18		support due to a failure to respond to queries	required engagement will not be achieved.	potential failure to deliver key parts of	I	3	3	during the consultation and ensure all reasonable queries are	200 - Project	1 1	2	2		1

RISKS - 14/11/2018

										RISKS - 14/11/2018							
ID.	Date Raised	Risk influencer	Risk Description	Consequence	Effect	Owner	Likelihood (1-4)	Impact (1-4)	Risk Score	Mitigation Action	Mitigation owner	Residual likelihood	Residual impact	Residual Mitigation	Date Updated	Comments	Status
R-047	23/10/18	Delivery & Poilicy	David Harris has resigned from BCC and will be leaving at the end of Nov 18. A lot of knowledge and project history will be lost when he leaves.		The delivered scheme may not match the functional requirements resulting in rework, time and cost increased.	BCC - SRO	4	3		Detailing of requirements and deliverables from DH, ongoing support from Transport Policy, need some continuity and someone to take responsibility for supply chain management.	David H	3	2	6			Open
R-048	23/10/18	Delivery	Consultations required for the CAZ car park charging additional measures will be extensive and difficult to resolve.	The delivery of the CAZ car park charging will not be delivered in the timescales delaying compliance.	This will effect the duration of the project which will impact the cost, as well as reputational damage.	BCC - project team	4	4		BCC delivery team to utilise information from previous parking schemes to avoid 'error traps'. Consultant to be employed to undertake the outline design asap.	BCC - project team	3	3	9			Open
R-049	23/10/18	Legislation	There is a risk that grants and incentives for taxi drivers for electirc cars infringe on State Aid rules.	The specific mitigation measure could be undeliverable.	Reputational damage for BCC and potential failure to deliver key parts of the scheme.		2	3	6	Consider reducing the value of the package to avoid the regulation. Engage with Sylvia Broadley to understand her involvement.	BCC - project team / transport policy team	, 1	2	2			Open
R-050	23/10/18	Legislation	There is a risk that there are legal challenges from external parties.	Legal challenges could result in the necessity to pause certain elements of work whilst disputes are resolved.	This will effect the duration of the project which will impact the cost, as well as reputational damage.	BCC - SRO	3	3	9	Engage with BCC legal team to start drafting charging orders. Procure external support where possible to help accelerate the	BCC - legal	1	2	2			Open
R-051	23/10/18	Legislation	Exempting drivers based on their personal circumstance or geography may not be possible.	The impact to identified social groups may not be mitigated adequately.	Reputational damage for BCC and potential failure to deliver key parts of the scheme.	BCC - SRO	3	4	12	Engagement with JAQU is ongoing with relation to CAZ exemptions along with BCC legal, Counsel. BCC to engage with the WMCA to get their buy in	BCC - project team	1	2	2			Open
R-052	23/10/18	Delivery	The euro standards database will not be made available in time for CAZ charging infrastructure design and development.	The charging infrastructure for the CAZ will not be operational and therefore the scheme will be unenforceable.	The scheme will not be delivered on time and therefore compliance targets will not be met.	Central Government	4	4		Issue escalated to JAQU. Project initiated with the DVLA to provide the euro emmissions database. BCC require timescales in order to plan delivery.	BCC - project team	3	4	12			Open
R-053	23/10/18	Benefits realisation	Due to the lack of baseline data the impact of the scheme cannot be measured.	e Significance of the CAZ will be unknown.	Benefits cannot be realised.	BCC - SRO	1	2	2	AQ monitoring units are being installed across the CAZ to collect date, the delivery of these units is being accelerated (pending JAQU approval).	BCC - project team	1	1	1			Open
R-054	23/10/18	Delivery	Lighting collumns will not be suitable for the installation of the CAZ signs.	New poles/collumns may be required which werent originally priced for by the contractor.	Time and cost escalation.	BCC - project team	3	3	9	Send the sign schedule to Amey and engageent with Amey to assess the suitability of the existing collumns.	BCC - project team	2	2	4			Open
R-055	23/10/18	Procurement	The BCC FBC will not be submitted in line with the programme (Jan 19)	Procurement of contractor will not be possible.	This will effect the duration of the project which will impact the cost.	BCC - project team	4	3	12	Understand whether the design elementof the contract can be accelerated using BCC funding. Phase the FBC's to increase the chances of getting them through the	BCC - project team	2	2	4			Open
R-056	23/10/18	Delivery	The charging order is not produced in time for delivery due to challenges.	The scheme would be non-enforceable.	Compliance would not be achieved.	BCC - project team / legal	3	4		Engage with BCC legal team to start drafting charging orders. Procure external support where possible to help accelerate the	BCC - project team / legal	2	2	4			Open
R-057	23/10/18	Delivery & Cost	There is a risk that the target cost is over budget	. The consequence is that there may not be enough budget to complete the implementation of CAZ.	Cost escalation.	BBC - project team	3	4		Quantify this risk register where possible, leave in the optimisim bias where possible and use a framework contractor to ensure value for money.	BCC - project team	2	2	4			Open
R-058	23/10/18	Procurement	Supply chain unable to cope with the demand for ANPR cameras.	Not be enough cameras to implement CAZ which would require either a redesign of the project resulting in a less efficeent CAZ or delays to implementation.	This will effect the duration of the project which will impact the cost.	BCC - project team	3	4		Engage with the supply chain to establish whether they are planning for the surge in demand. Consider a collaborative approach with other LA's to manage the demand.	BCC - project team	2	2	4			Open
R-059	23/10/18	Delivery	Procurement governance is lengthy	Procurement of the necessary services cannot be concluded in a timely fashion.	The programme will be delayed and costs will escalate.	BCC - project team	3	3	9	Engagement with the procurement team early, group approvals and get delegated authorities in place to expedite procurement.	BCC - project team	2	2	4			
R-060	23/10/18	Delivery	BCC do not have the resources available to deliver the CAZ.	The management of the delivery of the CAZ will be inefficient and some areas of the programme could slip.	This will effect the duration of the project which will impact the cost.	BCC - SRO	3	4	12	BCC are recruiting. Consider the use of consultants to minimise the demand on internal resources.	BCC - SRO	2	2	4			Open