A6 I	Manchester Airport Relief Road Risk Status De	SMBC Risk Register escription and Categor	Date: 31 December	Rev: 1				Rick Managama	Post Mitigation Qualitative Assessment														
D (Risk Management Data																		
Ret	Description of the Risk	Cause giving rise to the Risk	Effect and Impact of the Risk	Risk Category		Appoint ed Risk Manage r	Phase	Risk Mitigation Plan	Start Date of Impact	End Date of Impact	Date last Reviewed	Change Status of Residual Risk Allowance	Probability Score	Cost Impact Score	Time Imapct Score	Series / Parallel Delay	Reputation Impact Score	Cost Impact Rating	Time Impact Rating	Reputation Impact rating			
62	High Court Challenge leading to programme delays.	Design phase preparation works and consultation activities	Additional costs and programme delay may occur	Planning	SMBC	Bill Edwards	Design	Seek to minimise land take requirements to mitigate field of objectors. Ensure approval process is followed correctly and all documentation is simply structured and easily followed with all benefits evidenced and full ameliorative measures are included to neutralise any potential negative impact	01/10/2013	31/03/2015	31/12/2014	↔	5	5	5	Parallel	4	25	25	20			
42	Delay in Works by Utility Companies - Statutory Undertakers cannot deliver to the accepted programme of works which impacts on the main construction programme.	Stats may not resource to suit construction programme	Additional costs and programme delay may occur	Statutory Undertakers	SMBC	Paul Lord	Construction	Early meeting to understand and agree programme. Commence works as soon as possible to best utilise float to mitigate delay. In house capability to provide assistance or undertake diversion works directly, where possible. Adopt early warning procedure. Consider accelerated working to mitigate delay.	01/10/2013	31/03/2017	31/12/2014	+	3	5	3	Series		15	9	0			
267	Protester action	Design phase preparation works and consultation activities	Programme delay and potential additional security costs	Third Parties	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	3	5				15	0	0			
83	Additional environmental / ecological mitigation measures required	Environmental and ecological conditions on site	Additional costs and programme delay may occur	Environmental Mitigation	SMBC	Bill Edwards	Construction	Implement Carillion Morgan Sindall JV Change Control procedures. Use Contract Change Management to provide maximum efficiency in following contractual procedures and follow value engineering principles to reduce impact on cost and programme.	01/10/2013	31/03/2017	31/12/2014	+	3	5				15	0	0			
303	Increased Thickness of thin Surfacing required along the length of the scheme.	Design phase preparation works and consultation activities	Scheme delayed and budgets are compromised	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	5	4				20	0	0			
287	Statutory Undertaker diversions cost underestimated	Design phase preparation works and consultation activities	Increased diversion costs	Statutory Undertakers	SMBC	Paul Lord	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2015	31/12/2014	↔	2	5				10	0	0			
292	Construction costs arising from unforeseen live utilities	Design phase preparation works and consultation activities	Increase cost as Compensation Event under the contract.	Statutory Undertakers	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	3	5				15	0	0			
307	Nesting birds delaying the start of the works	Construction start date being driven by the statutory process.	Programme delay and additional cost incurred	Programme Achievability	SMBC	Bill Edwards		All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/03/2015	31/03/2017	31/12/2014	+	4	3				12	0	0			
280		Design phase preparation works and consultation activities	Increase in SMBC payment to NR	Programme Achievability	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	3	4				12	0	0			
312	The ex aircraft landing light that will be located in the new central reserve of the proposed works has to be lowered every week for maintenance checks. This will require traffic management, the provision of which Manchester Airport may object to.		Increased design and construction costs	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	5	3			3	15	0	15			
313	The proposed works clash with the location of an ENWL Sub-Station. The boundary fencing & arcing distances is the issue.	Changing design requirements	Increased design and construction costs	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	4	3			2	12	0	8			
299	Wayleaves and easements cause a delay to the start of the SU works	Requirement for SU wayleaves	The start of the SU works being delayed	Statutory Undertakers	SMBC	Paul Lord	Construction	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	3	3	3	Series		9	9	0			
279	Adverse inquiry result in terms of Compulsory Purchase Order / Revised Side Road Order. Adjustments in process.	Design phase preparation works and consultation activities	Increase in Design Development costs and delay to programme	Planning	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	30/09/2014	31/12/2014	↔	2	5				10	0	0			
9	Unforeseen Statutory Undertakers diversions are required due to unchartered services being discovered	Unchartered services being located.	Additional costs and programme delay may occur	Statutory Undertakers	SMBC	Bill Edwards	Construction	Close cooperation with residents, landowners and stakeholders in relation to the phasing and sequencing of the works to be maintained. Facilitate early meetings to discuss, clarify and finalise position with respect to any of their services that require diverting. All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	¢	2	5	3	Series		10	6	0			

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293	Construction costs arising from dead unforeseen utilities	Design phase preparation works and consultation activities	Increase cost as Compensation Event under the contract.	Statutory Undertakers	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	30/09/2014	31/12/2014	+	3	3				9	0	0
305	Changes to earthworks balance due to land procurement not achieved	CPO for additional land fails.	Additional costs incurred	Quantities	SMBC	Bill Edwards	Construction	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	1	5				5	0	0
304	Delay to the Oil Pipeline works	Failure to start on time and or complete on time	Programme delay and additional cost incurred	Statutory Undertakers	SMBC	Bill Edwards	Construction	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	2	4	3	Series		8	6	0
272	Delays during statutory powers stage leading to increase in preparation costs.	Design phase preparation works and consultation activities	Works Costs increased due to inflation caused by delays	Programme Achievability	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2015	31/12/2014	↔	3	3				9	0	0
156	Additional requirements associated with technical approvals from the Natural England	Design phase preparation works and consultation activities	Delays to programme	Environmental Design Development	SMBC	Bill Edwards	Design	Natural England review process will be used to drive and monitor the approvals process.	01/10/2013	31/07/2015	31/12/2014	↔	2	4	3	Series		8	6	0
270	Additional work as a result of the Transport Assessment. Inc. additional mitigation measures.	Design phase preparation works and consultation activities	Possible cost of altering existing junctions	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2015	31/12/2014	↔	1	5				5	0	0
255	Hazel Grove to Buxton rail bridge. The bridge is to be increased in span to future proof for the removal of two rail crossing points	Design phase preparation works and consultation activities	Additional cost and time	Unforeseen Works Instructed by SMBC	SMBC	Bill Edwards	Design	Maintain liaison with Network Rail to ensure only required works are progressed and adopted into the scope of the works.	01/10/2013	31/03/2015	31/12/2014	↔	2	5				10	0	0
90	Air Quality Management Area issues identified after the Design Development assessment work.	Design phase preparation works and consultation activities	Additional costs and programme delay may occur	Strategic	SMBC	Bill Edwards	Construction	Air quality management issues will be closed by the discharge of the planning conditions. All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	1	5				5	0	0
278	Changes to the scheme as a result of the CPO Public Inquiry	Design phase preparation works and consultation activities	Increase in Design Development costs and delay to programme	Planning	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2015	31/12/2014	↔	1	5				5	0	0
285	Additional accommodation works beyond estimate	Design phase preparation works and consultation activities	Increase in design fees and delay to programme	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	2	3				6	0	0
264	Errors in topographical survey information	Design phase preparation works and consultation activities	Increase cost as Compensation Event under the contract.	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	2	3				6	0	0
277	Additional requirements associated with technical approvals from Network Rail	Design phase preparation works and consultation activities	Increase in Design Development costs and delay to programme	Third Parties	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	2	3				6	0	0
276	Additional unknown requirements associated with technical approvals from external authorities (e.g. MAG, CAA)	Design phase preparation works and consultation activities	Increase in Design Development costs and delay to programme	Third Parties	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	2	3				6	0	0
63	Aggregate tax (increase beyond inflation)	Additional taxes and levys or increases in the rates of existing taxes / levies	Additional costs and programme delay may occur	Supply Chain and Commercial Issues	SMBC	Bill Edwards	Construction	Collaborative monitoring of volatility in tax policy. If required CMS would procure material in advance of increase and stockpile to support in mitigating this risk.	01/10/2013	31/03/2017	31/12/2014	+	1	4				4	0	0
64	Landfill tax (increase beyond inflation)	Additional taxes and levys or increases in the rates of existing taxes / levies	Additional costs and programme delay may occur	Supply Chain and Commercial Issues	SMBC	Bill Edwards	Construction	Collaborative monitoring of volatility in tax policy. CMS will explore exemptions and maximise material on site as current methodology to mitigate this risk.	01/10/2013	31/03/2017	31/12/2014	↔	1	4				4	0	0
22	Condition of existing drainage (incl land and road) not serviceable for connection into as required by the design. Existing network not in a sufficiently serviceable condition or of sufficient capacity.	Design phase preparation works and consultation activities	Additional costs and programme delay may occur	Civil Design Development	SMBC	Rosie Simon	Design	Carry out early validation surveys and advise the Authority accordingly. Carry out early condition surveys and include appropriate measurement contingency. Undertake earliest jetting and CCTV surveys of existing network. Agree scope of works and mitigation measures if unacceptable with LA. Obtain survey information for A34 outfall, Manchester Airport outfall.	01/10/2013	31/03/2017	31/12/2014	¢	2	2				4	0	0
294	Defined Cost greater than target	Design phase preparation works and consultation activities	Increased payment by SMBC as pain share	Supply Chain and Commercial Issues	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	+	2	3				6	0	0

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297 SU diversion works affected by resources pulled off due to the emergency works	Emergency works occurring.	Increased costs and possible programme delay	Statutory Undertakers	SMBC	Bill Edwards		All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	\leftrightarrow	2	2			4	0	0
151 LA resources unavailable for consultation and to deal with approvals	Lack of / over stretched LA resources	Additional costs and programme delay may occur	Programme Achievability	SMBC	Bill Edwards		Engage with LA and identify all elements requiring LA approval and hold workshops to fast track approvals. Possible mitigation employ/fund authority approvals resource as a partner, so local authority resource/budget issues do not become an issue. (Being considered for Northern Hub) Costs less likely to change.	01/10/2013	31/03/2017	31/12/2014	+	1	3			3	0	0
300 Design interfaces with 3rd parties design e.g. Network rail parapet extent affects utility design	Third party requirements	Increased costs and possible programme delay	Statutory Undertakers	SMBC	Bill Edwards		All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	1	3			3	0	0
310 Design of clay lane access. Liability has to be Cheshire East.	Current design proposal.	Additional costs incurred	Civil Design Development	SMBC	Bill Edwards		All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	2	2			4	0	0
164 Environment Agency Approvals:	Design phase preparation works and consultation activities	Delays to programme awaiting approval or re- work	Statutory Consultees	SMBC	Jamie Bardot		Early engagement and regular dialogue in agreeing proposals in principle before submitting formally. Ensure approval process is followed is correctly followed and all benefits are evidenced with full ameliorative measures to neutralise any potential negative impact		31/03/2017	31/12/2014	↔	2	1			2	0	0
281 Local flooding problems exacerbated by the scheme or post construction disturbance of existing land drainage systems	Design phase preparation works and consultation activities	Rework required, additional compensation to land owners, disruption to local transport network.	Civil Design Development	SMBC	Bill Edwards	Design	All changes to be identified by the change control procedure and challenged as part of the change approval process.	01/10/2013	31/03/2017	31/12/2014	↔	1	2			2	0	0
124 Additional works resulting from liaison with the Highways Agency. Signage is the only area that remains an issue.	Design phase preparation works and consultation activities	Additional costs and programme delay may occur	Civil Design Development	SMBC	Bill Edwards		Liaison using the project teams experience and relationships with the HA to be maintained to ensure all agreements are achieved in a timely manner in accordance with the programme requirements.	01/10/2013	31/03/2017	31/12/2014	↔	1	2			2	0	0
129 Failure to identify / ensure that all local access requirements are resolved / met including rights of way diversions and private means of access	Design phase preparation works and consultation activities	Additional costs and programme delay may occur	Construction Issues	SMBC	Bill Edwards		Through our approach to Stakeholder management as described in Question 4, details of requirements of stakeholders will be identified early in KS4, allowing clarification of exposure and time to value engineer design to mitigate the risk. The team have demonstrated the ability to do this on previous ECI projects (A1D2B) and expertise available through KS4.	01/10/2013	31/03/2017	31/12/2014	↔	1	2			2	0	0