

Project Risk, Issue and Opportunity Register															Project Risk, Issue and Opportunity Register														
Project Number		N/A		Date register last updated		22/06/2017		F103e		mouchel		building great relationships		N/A		M5 overbridge		Number of Open Issues		0									
Project Title		M5 overbridge		Version Number		1		841150		WSP (Somerset CC)		WSP (Somerset CC)		Number of Open Risks		0		Number of Open Red Risks		0									
Client		WSP (Somerset CC)		Current Risk Status of Project (gross risk)				604800		Yazdi Batki		Yazdi Batki		Number of Open Opportunities		0													
Project		Yazdi Batki		Risk Status of Project if all mitigation successful (net risk)																									
IDENTIFICATION				CURRENT RISK ASSESSMENT				RISK MAN				RESIDUAL RISK				RISK / OPPORTUNITY QUANTIFICATION				RISK FEEDBACK				STATUS		REVIEW			
Risk No (Identifier)	Risk Issue or Opportunity	Description	Impact Description	Risk Type	Risk Source / Reference	Prob Impact	Risk Ranking	Risk Assessment Notes	Risk Owner	Proposed Mitigation	Cost of Mitigation £	Risk Action: Name / Organisation	Target Date for Close out	Prob Impact	Risk Ranking	Agreed Action	Most Likely Cost £	Risk Quantification Comments	Weighted Gross Cost (Pre-mitigation)	Weighted Net Cost (Post-Mitigation)	Did Risk Occur?	If Yes, What Was the Impact?	Lessons Learned for Future	Is Risk still open	Date Risk Last Reviewed	Overdue for review	Top ID		
1	Risk	Since the January date of the options report BD29/04 has been superseded by BD 29/17. There are a number of updated requirements in this version which includes one that may require the structure to be wider than under BD29/04.	Additional width of structure and ramps, leading to higher material costs and land take.	Commercial	Mouchel	5	3	15	Standard has been implemented so this has happened. As options report states that width is tbc it is possible that when decided it would meet both standards anyway	SCC	£2,000	Designer		5	2	10	£300,000	Approx. value of additional materials required to provide wider width and meet increased loading	270000	270000				Select					
2	Risk	Eastern approach in flood risk area from rivers or surface water. Western approach in flood risk area from reservoirs.	Disruption to construction, loss of utility of completed route	Operational	Mouchel	3	4	12	Should be treated as one with EA approval	SCC	£2,500	Designer		2	3	6	£50,000	Additional design and careful phasing	12500	5000				Select					
3	Risk	Location of structure may interface (obscure visibility to or create a clash of foundations) with M5 northbound off ADS sign.	Sign may need to be relocated but agreement with HE required	Commercial	Mouchel	3	3	9		SCC / Designer	£2,500	Designer		3	2	6	£70,000	Cost of design and construction if sign needs moving	35000	35000				Select					
4	Risk	Construction access for arch foundations difficult due to location on motorway embankment with watercourse at toe	enabling works either to temporary bridge the watercourse or access from the motorway will be required	Commercial	Mouchel	5	3	15		SCC/Designer	£3,000	Designer		4	2	8	£65,000	Cost to redesign, resubmit application and delays if contractor is on site	58500	45500				Select					
5	Risk	Environment Agency approval	Additional design to ensure amended flood models and / or policies have no impact on the current feasibility design. Potential re-work before detailed design can commence. Disproportionate costs associated with the construction control measures placed at the Brooks, particularly for the footbridge installation.	Commercial	Mouchel	4	4	16	very similar risk to that identified on route risk register	SCC	£2,500	Designer		3	2	6	£25,000	Lengthy delays and mitigation works required on site if not identified early on in detailed design.	17500	12500				Select					
6	Risk	Difficult ground conditions, particularly for western ramp where space is limited between Black Brook and pond	Programme and cost extension due to reduced output. Worker safety for insitu solution, extended disruption to local business's and residents	Commercial	Mouchel	5	4	20		SCC	£3,000	Designer		3	3	9	£55,000	Much greater risk of extended construction programme if the contract is let without ECI. Estimated delay of 4 weeks based on £5k per week prelims.	49500	27500				Select					
7	Risk	Extensive interface with watercourses / pollution receptors - not just one watercourse crossing	Risk of pollution increased, a greater proportion of the site will need stricter controls on plant and equipment to avoid incident and risk of prosecution	Commercial	Mouchel	4	3	12	water on both sides for parts of western approach ramp	SCC/ Contractor	£3,000	Designer		3	2	6	£100,000	Cost of potential clean up measures if water course is contaminated	70000	50000				Select					
8	Risk	Access points for constructino of foundations and installation of structure not fully identified	Design needs to recognise constraints from the start such that fabricated components can be safely and cost-effectively brought to site	Commercial	Mouchel	3	4	12		SCC / Designer	£1,500	Designer		1	3	3	£25,000	Unmanageable mitigation measures required if not identified early in design. Redesign / Abortive Design.	12500	2500				Select					
9	Risk	Structure and particularly approach ramps will be highly prominent to neighbouring properties west of M5.	High potential for 'feedback' on intrusion / appearance arising leading to multiple sub-options needing to be considered to show that all the options have been considered and the relative benefits of the chosen option	Commercial	Mouchel	4	3	12		SCC	£12,500	Designer		4	2	8	£75,000	Large construction delays possible if re-design required. Stand-down costs.	52500	52500				Select					
10	Risk	Co-ordination of option with concept plan - alignment of eastern approach ramp does not co-ordinate with the alignment on the concept plan	Risk of delay and cost increase due to lack of co-ordination between design disciplines leading to repeated design effort	Commercial	Mouchel	4	4	16		Designer	£5,000	Designer		2	2	4	£75,000	Extended programme / inefficient design programme.	52500	15000				Select					
12	Risk	Limited construction space for some foundations (partularly arch foundations) limiting size of equipment that can safely be used	size of equipment that can safely be used may limit size of piles that can be constructed with consequential limits on foundation capacity and need to amend arrangement of option structure	Operational	Mouchel	4	4	16		Designer	£8,000	Designer		3	2	6	£100,000	Extended programme / inefficient design / stakeholder consultation programme.	35000	25000				Select					
13	Risk	Land Constraints	Design programme extension and additional preparation costs associated with land purchase. Potential impact on office block within the existing employment area. Cost increase if there is a need to relocate bridge access points.	Commercial	Mouchel	3	4	12		SCC	£3,000	Designer		2	3	6	£55,000	Approx. value of design, preparation and planning costs if the scheme is pulled due to no land being purchased or insufficient distance from existing structures	27500	11000				Select					
14	Risk	Unsuitable Ground	Eastern bridge foundation appears to be located in wetland area close to watercourse and ponds	Operational	Mouchel	5	4	20		ScC/Designer	£11,000	Designer/ SCC		2	3	6	£55,000	Delays to construction, additional GI required and Engineer carries out re-design	24750	5500				Select					
15	Risk	Statutory Undertaker Equipment / Storm Water drainage	Delay and high third party costs relating to conflict or strikes with shallow private, highway and stats undertaker equipment within the construction site. Larger risk at areas requiring deeper excavation such as bridge foundations / foundations for access controls.	Commercial	Mouchel	2	4	8		SCC / Designer	£2,500	Designer		1	4	4	£12,000	Diversion of stats if struck including delay on site. This value can be much more if comms are known on site but unlikely at this stage.	2400	1200				Select					
16	Risk	Planning Application rejection / objection	Abortive costs associated with the preparation and submission of the application. Programme extension. Re-work required to gain approval.	Commercial	Mouchel	2	4	8		SCC / Planning Consultant	£2,000	Designer & SCC (as Planning Application specialist)		1	3	3	£12,000	Cost to review planning application, redesign and resubmit application.	2400	1200				Select					
17	Risk	Environment Agency approval	Additional design to ensure amended flood models and / or policies have no impact on the current feasibility design. Potential re-work before detailed design can commence. Disproportionate costs associated with the construction control measures placed at the Brooks, particularly for the footbridge installation.	Commercial	Mouchel	4	5	20		SCC	£800	Designer		3	2	6	£18,000	Lengthy delays to programme and additional design works if EA do not approve design in time or request further information/modelling and/or mitigation.	12600	9000				Select					
18	Risk	Buildability and site access	Programme and cost extension. Only 1no. access to the construction site. Potential plant conflict with commuting vehicles and pedestrians. Reduced or anti-social hours of construction to ensure minimal disruption to businesses. Location of river and ponds will require additional H&S measures during construction.	Commercial	Mouchel	5	4	20		SCC	£5,000	Designer		3	3	9	£20,000	Much greater risk of extended construction programme if the contract is let without ECI. Estimated delay of 4 weeks based on £5k per week prelims.	18000	10000				Select					
19	Risk	Extended scope during design	Extended design programme and cost due to iterative design process with landowners, statutory and non-statutory consultees and design changes	Commercial	Mouchel	3	4	12		SCC / Designer	£1,000	Designer		2	3	6	£12,000	Additional design and GI works potentially required if aspects of design continue to change once preliminary design agreed.	6000	2400				Select					

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21	Risk	Local Nature Reserve	Commercial	Mouchel	4	4	16	SCC	Undertake environmental surveys as soon as the red line boundary / scope of works is defined. Early identification of issues can increase the likelihood to fully mitigate within existing programme.	£2,000	Designer		2	3	6	£15,000	Large construction delays possible whilst species are relocated or mitigation constructed	10500	3000				Select			##
22	Risk	Construction Programme	Commercial	Mouchel	4	3	12	SCC	Define the construction programme following liaison with farmers and ECI. Suitable mitigation will be demonstrated within the PCI and subsequently the CPP to safeguard the site.	£500	Designer		2	2	4	£15,000	Extended programme / inefficient construction programme.	10500	3000				Select			##
23	Risk	Construction adjacent to live motorway	Commercial	Mouchel	4	4	16	Contractor/ HE	Thorough planning and design coupled with close liaison with HE and the contractor to ensure all safety protocols are followed and all mitigation is implemented	£2,500	Designer		2	3	6	£80,000	Risk to motorists and vehicles from falling debris or to contractors staff	56000	16000				Select			##
24	Risk	Traffic Regulation Orders	Commercial	Mouchel	3	3	9	SCC	Liaison with HE early in the project to ensure that they are aware of programme and dates.	£1,000	Designer		2	2	4	£10,000	Large construction delays and possible additional negotiations/ design	5000	2000				Select			##
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