TAG Water Environment Impacts Worksheet

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Description of study area/	Key environmental	Features	Quality	Possible Measures	Assessment data availability	Scale	Rarity	Substitutability	Importance	Magnitude	Significance
summary of potential impacts	resource	i catules	Quanty	rossible Measures	Assessment data availability	Scale	Karity	Substitutability	importance	wagiiituue	Significance
Study area: 1 km buffer from the ro			ļ.	!	!	!	<u>!</u>				
Potential Impacts:											
Potential for highway drainage to be	River Avon	Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	(Feature ID: MR09)		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.						
can likely be minimised through mitigation.	MR09)		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
mugation.	WFD reported		Crieffical water quality	objective under the WFD.	Chemical objective: Good (2015)	Regional	Commonplace	Replaceable	LOW	WIIIO	msigninoani
Potential for the new bridge	reach: Avon			Likelihood of a change in classification arising	No information available to indicate direction of change						
structure to cause shading resulting	(Brist) conf R			(+ve or -ve)	· ·						
in the simplification of the riparian	Marden to conf	Transport and	Presence of surface water	Location and number of discharge points	The Envirocheck report lists discharges into the River Avon associated	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
zone.	Semington Bk	dilution of waste	discharge points	\/-\	with WWTW.						
Crossing structures can cause a loss of bank structure and riparian	(GB1090530274 40)	products		Volume of effluent discharged	No information available. Indicator of quality and measure not used in assessment						
vegetation due to abutments.	40)		Contribution of discharge to	Proportion of flow made up by effluent at	No information available. Indicator of quality and measure not used in						
Potential for change in flow and			total river flow	different times of the year	assessment.						
sediment transport dynamics in		Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Moderate (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
channel and across floodplain due				objective under the WFD	Objective: Good (2027)						
to new piers/embankments.					No information available to indicate direction of change						
These impacts can likely either be Potential for highway drainage to be	Unnamed drain	Water supply	Use of water supply (potable,	(+ve or -ve) Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	(Feature ID:	water supply	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
can likely be minimised through	DR25)		,	Use of water (potable most important)							
mitigation.	•		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
	WFD reported			objective under the WFD.	Chemical objective: Good (2015)						
Culverts will lead to a permanent	reach: No				No information available to indicate direction of change						
loss of natural watercourse morphology, and processes and	Within Avon (Brist) conf R	Transport and	Presence of surface water	(+ve or -ve) Location and number of discharge points	No discharge consents information available at the time of reporting						
loss of in channel and riparian	Marden to conf	dilution of waste	discharge points	Volume of effluent discharged	Indictor of quality and measures not used in assessment.						
habitat at the culvert location, but	Semington Bk	products	Contribution of discharge to	Proportion of flow made up by effluent at	maister of quality and medical content accomment.						
can also alter natural processes	(GB1090530274	ľ	total river flow	different times of the year							
such as erosion and sediment	40) waterbody	Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Moderate (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
transport upstream and				objective under the WFD	Objective: Good (2027)						
downstream.					No information available to indicate direction of change						
These impacts can likely either be Potential for highway drainage to be	Unnamed drain	Water supply	Use of water supply (potable,	(+ve or -ve) Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	(Feature ID:	water supply	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
can likely be minimised through	DR08) &		maderial of agricultural)	Use of water (potable most important)	maiotics of quality not account a account nit.						
mitigation.	unnamed		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
	watercourse			objective under the WFD.	Chemical objective: Good (2015)						
Culverts will lead to a permanent	(Feature ID:			Likelihood of a change in classification arising	No information available to indicate direction of change						
loss of natural watercourse morphology, and processes and	WC35)	Transport and	Presence of surface water	(+ve or -ve) Location and number of discharge points	No abstraction licence information available at the time of reporting.						
loss of in channel and riparian	WFD reported	dilution of waste	discharge points	Volume of effluent discharged	Indicator of quality not used in assessment.						
habitat at the culvert location, but	reach: No	products	Contribution of discharge to	Proportion of flow made up by effluent at							
can also alter natural processes	Within Clackers		total river flow	different times of the year							
such as erosion and sediment	Bk - source to	Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Poor (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
transport upstream and	conf R Avon			objective under the WFD	Objective: Moderate (2021)						
downstream. These impacts can likely either be	(Brist) (GB1090530219			(+ve or -ve)	No information available to indicate direction of change						
Potential for highway drainage to be	Unnamed	Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	watercourse	Trator supply	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
can likely be minimised through	(Feature ID:		,	Use of water (potable most important)							
mitigation.	WC13)		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
				objective under the WFD.	Chemical objective: Good (2015)						
Culverts will lead to a permanent loss of natural watercourse	WFD reported reach: No			(+ve or -ve)	No information available to indicate direction of change						
morphology, and processes and	Within Forest	Transport and	Presence of surface water	Location and number of discharge points	No abstraction licence information available at the time of reporting.						
loss of in channel and riparian	Brook	dilution of waste	discharge points	Volume of effluent discharged	Indicator of quality not used in assessment.						
habitat at the culvert location, but	(GB1090530219	products	Contribution of discharge to	Proportion of flow made up by effluent at	' · ·						
can also alter natural processes	40) waterbody		total river flow	different times of the year							
such as erosion and sediment		Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Poor (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
transport upstream and downstream.				objective under the WFD	Objective: Good (2015) No information available to indicate direction of change						
These impacts can likely either be				(+ve or -ve)	No illiornation available to indicate direction of change						
Potential for highway drainage to be	Unnamed	Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	watercourse	,	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
can likely be minimised through	(Feature ID:			Use of water (potable most important)							
mitigation.	WC07)		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
Detential for the new bridge	WFD reported			objective under the WFD.	Chemical objective: Good (2015) No information available to indicate direction of change						
Potential for the new bridge structure to cause shading resulting				(+ve or -ve)	INO Information available to indicate direction of change						
in the simplification of the riparian	Clackers Bk -	Transport and	Presence of surface water	Location and number of discharge points	No abstraction licence information available at the time of reporting.						
zone.	source to conf R	dilution of waste	discharge points	Volume of effluent discharged	Indicator of quality not used in assessment.						
Crossing structures can cause a	Avon (Brist)	products	Contribution of discharge to	Proportion of flow made up by effluent at							
loss of bank structure and riparian	(GB1090530219	Disabase 2	total river flow	different times of the year	Friedrick Processing Processing		0	DI-			la si a si
vegetation due to abutments. Potential for change in flow and	20) waterbody	Biodiversity	Biological water quality	Existing ecological classification/status and objective under the WFD	Existing classification: Poor (2019) Objective: Moderate (2021)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
sediment transport dynamics in					No information available to indicate direction of change						
channel and across floodplain due]]	(+ve or -ve)							
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	watercourse	1	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
can likely be minimised through	(Feature ID:	İ		Use of water (potable most important)	E. P. J. J. J. J. J. J. J. E. J.						
mitigation.	WC39)]	Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
T.	I	I	I .	objective under the WFD.	Chemical objective: Good (2015)	I	L				

Potential for the new bridge	WFD reported	ı	i	Likelihood of a change in electification arising	No information available to indicate direction of change						
structure to cause shading resulting	reach: No			(+ve or -ve)							
in the simplification of the riparian zone.	Avon (Brist) conf	Transport and	Presence of surface water	Location and number of discharge points	No abstraction licence information available at the time of reporting.						
	R Marden to conf Semington Bk	dilution of waste products	discharge points Contribution of discharge to	Volume of effluent discharged Proportion of flow made up by effluent at	Indicator of quality not used in assessment.	-				 	
loss of bank structure and riparian	(GB1090530274		total river flow	different times of the year							
vegetation due to abutments. Potential for change in flow and	40) waterbody	Biodiversity	Biological water quality	Existing ecological classification/status and objective under the WFD	Existing classification: Moderate (2019) Objective: Good (2027)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
sediment transport dynamics in				Likelihood of a change in classification arising							
channel and across floodplain due Potential for highway drainage to be	Bydemill Brook	Water supply	Use of water supply (potable,	(+ve or -ve) Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to watercourse. This impact	(Feature ID:	Trator suppry	industrial or agricultural)	Volume of water abstracted	Indicator of quality not used in assessment.						
	MR30)		Chamical water quality	Use of water (potable most important) Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Pagional	Commonplace	Banlasaahla	Low	Minor	Insignificant
mitigation.	WFD reported		Chemical water quality	objective under the WFD.	Chemical objective: Good (2015)	Regional	Commonplace	Replaceable	LOW	WIITO	insignincant
At waterbody scale these impact	reach: Bydemill			Likelihood of a change in classification arising							
	Bk - source to conf River Avon	Transport and	Presence of surface water	(+ve or -ve) Location and number of discharge points	The Envirocheck report lists discharges of treated effluent and storm	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
	(Brist)	dilution of waste	discharge points	Volume of effluent discharged	overflow from WWTW.	, i		· ·		ĺ	9
	(GB1090530219 60)	products	Contribution of discharge to total river flow	Proportion of flow made up by effluent at different times of the year						ĺ	
	00)	Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Moderate (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
				objective under the WFD	Objective: Good (2027)						
				Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change					i	
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
	(Feature ID: MR39)		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.				<u> </u>	 	+
mitigation.	WII (39)		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
	WFD reported			objective under the WFD.	Chemical objective: Good (2015)						
	reach: Clackers Bk - source to			Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change					ı	
in the simplification of the riparian	conf R Avon	Transport and dilution of waste	Presence of surface water	Location and number of discharge points	No discharge consents information available at the time of reporting						
zone. Crossing structures can cause a	(Brist) (GB1090530219 20)			Volume of effluent discharged Proportion of flow made up by effluent at	Indictor of quality and measures not used in assessment						
loss of bank structure and riparian		ĺ	total river flow	different times of the year							
vegetation due to abutments.		Biodiversity	Biological water quality	Existing ecological classification/status and objective under the WFD	Existing classification: Poor (2019) Objective: Moderate (2021)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
Potential for change in flow and sediment transport dynamics in				Likelihood of a change in classification arising							
channel and across floodplain.				(+ve or -ve)					<u> </u>		
Potential for highway drainage to be routed to watercourse. This impact	Forest Brook (Feature ID:	Water supply	Use of water supply (potable, industrial or agricultural)	Location and number of abstraction points Volume of water abstracted	No abstraction licence information available at the time of reporting. Indicator of quality not used in assessment.						
can likely be minimised through	MR06		Chemical water quality	Use of water (potable most important)							
mitigation.	WFD reported			Existing chemical classification/status and objective under the WFD.	Existing chemical classification: Fail (2019) Chemical objective: Good (2015)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
Potential for the new bridge	reach: Forest			Likelihood of a change in classification arising							
	Brook			(+ve or -ve)							
in the simplification of the riparian zone.	(GB1090530219 40)	dilution of waste	Presence of surface water discharge points	Location and number of discharge points Volume of effluent discharged	The Envirocheck report lists final/treated effluent, not from a water company, as a discharge into Forest Brook.	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
Crossing structures can cause a		products	Contribution of discharge to	Proportion of flow made up by effluent at						i	
loss of bank structure and riparian vegetation due to abutments.		Biodiversity	total river flow Biological water quality	different times of the year Existing ecological classification/status and	Existing classification: Poor (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
Potential for change in flow and		Biodivoroity	Disagrad Hater quality	objective under the WFD	Objective: Good (2015)	rtogionai	Commonplaco	Торасосало	2011		moigrimodric
sediment transport dynamics in channel and across floodplain.				Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change						
Potential for highway drainage to be	Semington Brook	Water supply	Use of water supply (potable,	Location and number of abstraction points	The Envirocheck report lists agriculture/horitucltural surface water	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
routed to watercourse. This impact	(Feature ID:		industrial or agricultural)	Volume of water abstracted	abstractions from Semington Brook.			·		i	
can likely be minimised through mitigation.	MR11) WFD reported	ed	Chemical water quality	Use of water (potable most important) Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
-				objective under the WFD.	Chemical objective: Good (2015)	rtogionai	Commonpiaco	торасосаво	2011	1	moigrimodric
	reach: Semington Bk-			Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change					i	
	Milebourne Str to	Transport and	Presence of surface water	Location and number of discharge points	The Envirocheck report lists a discharge cosent from a water company	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
	conf R Avon	dilution of waste	discharge points	Volume of effluent discharged	pumping station.					i	_
	(Brist) (GB1090530222	products	Contribution of discharge to total river flow	Proportion of flow made up by effluent at different times of the year						ĺ	
	00)	Biodiversity	Biological water quality	Existing ecological classification/status and	Existing classification: Moderate (2019)	Regional	Commonplace	Replaceable	Low	Minor	Insignificant
				objective under the WFD Likelihood of a change in classification arising	Objective: Moderate (2015) No information available to indicate direction of change						
				(+ve or -ve)	INO Illionnation available to illuscate direction of change					i	
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
	(Feature ID: MR08)		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.						
mitigation.		1	Chemical water quality	Existing chemical classification/status and	Existing classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
	WFD reported reach: No	1		objective under the WFD. Likelihood of a change in classification arising	Objective: Good (2015) No information available to indicate direction of change						
structure to cause shading resulting	Within the Avon			(+ve or -ve)							
in the simplification of the riparian	(Brist) conf R	Transport and	Presence of surface water	Location and number of discharge points	No discharge consents information available at the time of reporting						
	Marden to conf Semington Bk	dilution of waste products	discharge points Contribution of discharge to	Volume of effluent discharged Proportion of flow made up by effluent at	Indictor of quality and measures not used in assessment						
	of bank structure and riparian etation due to abutments. (GB1090530274 40) waterbody		total river flow	different times of the year							
				Existing ecological classification/status and	Existing classification: Moderate (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
vegetation due to abutments.		Biodiversity	biological water quality							1	
vegetation due to abutments. Potential for change in flow and sediment transport dynamics in		Biodiversity	Biological water quality	objective under the WFD Likelihood of a change in classification arising	Objective: Good (2027)						
vegetation due to abutments. Potential for change in flow and sediment transport dynamics in channel and across floodplain.	40) waterbody			objective under the WFD Likelihood of a change in classification arising (+ve or -ve)	Objective: Good (2027) No information available to indicate direction of change						
vegetation due to abutments. Potential for change in flow and sediment transport dynamics in channel and across floodplain. Potential for highway drainage to be	40) waterbody Berryfield Brook		Use of water supply (potable, industrial or agricultural)	objective under the WFD Likelihood of a change in classification arising	Objective: Good (2027)						

mitigation.	Old Canal	1	Chemical water quality	Existing chemical classification/status and	Existing classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
At waterbody scale these impact	(Feature ID: CN01)			objective under the WFD. Likelihood of a change in classification arising	Objective: Good (2015) No information available to indicate direction of change									
would not be significant.	Unnamed drains			(+ve or -ve)										
	(Feature IDs: DR01, DR02,	Transport and dilution of waste	Presence of surface water	Location and number of discharge points Volume of effluent discharged	Trade effluent is listed in the Envirocheck report as a discharge consent into Berryfield Brook.	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
	DR05, DR09,	products	discharge points Contribution of discharge to	Proportion of flow made up by effluent at	and Sorryhold Drook.									
	DR10, DR11, DR12, DR13,	Biodiversity	total river flow Biological water quality	different times of the year Existing ecological classification/status and	Existing classification: Moderate (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
	DR12, DR13, DR14, DR15,	biodiversity	biological water quality	objective under the WFD	Objective: Good (2027)	Local	Commonplace	Replaceable	LOW	WIIIOI	insignincant			
	DR16, DR17,				No information available to indicate direction of change									
	DR18, DR19, DR20, DR21,			(+ve or -ve)										
	DR22, DR23,													
	DR24) Unnamed													
	watercourses													
	(Feature IDs: WC02, WC05,													
	WC16, WC20,													
	WC21, WC22, WC23, WC24)													
	WFD reported													
	reach: No													
	Within Avon (Brist) conf R													
	Marden to conf													
	Semington Bk (GB1090530274		Presence of watercourses	Existing flood risk	Indicator of quality and measure used in floodplain resource so as to not									
	40) waterbody	flows and material			duplicate scoring									
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.									
routed to watercourse. This impact can likely be minimised through	(Feature IDs: DR29 and DR30)		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.									
mitigation.	•		Chemical water quality	Existing chemical classification/status and	Existing classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
At waterbody scale these impact	WFD reported reach: No			objective under the WFD. Likelihood of a change in classification arising	Objective: Good (2015) No information available to indicate direction of change									
would not be significant.	Within Bydemill			(+ve or -ve)										
	Bk - source to conf River Avon (Brist)	Transport and dilution of waste	Presence of surface water discharge points	Location and number of discharge points Volume of effluent discharged	No discharge consents information available at the time of reporting Indictor of quality and measures not used in assessment									
		products	Contribution of discharge to	Proportion of flow made up by effluent at	indictor of quality and measures not used in assessment									
	(GB1090530219 60) waterbody	Biodiversity	total river flow Biological water quality	different times of the year Existing ecological classification/status and	Existing classification: Moderate (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
	,,	Biodivoroity	3	objective under the WFD	Objective: Good (2027)	2004	Commonpiaco	Торіаобаріо	2011		moigrimouric			
				Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change									
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.									
routed to watercourse. This impact can likely be minimised through	(Feature IDs: DR03, DR04,		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.									
mitigation.	DR06, DR07,		Chemical water quality	Existing chemical classification/status and	Existing classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
At waterbody scale these impact	DR08, DR39) Unnamed			objective under the WFD. Likelihood of a change in classification arising	Objective: Good (2015) No information available to indicate direction of change									
would not be significant.	watercourses	_		(+ve or -ve)										
	(Feature IDs: WC17 and		Transport and dilution of waste	dilution of waste	dilution of waste disc	Presence of surface water discharge points	Location and number of discharge points Volume of effluent discharged	A discharge consent is noted in the EnviroCheck report relating to a pumping station and final/treated effluent.	Local	Commonplace	Replaceable	Low	Minor	Insignificant
	WC34) WFD reported reach: No	products	Contribution of discharge to	Proportion of flow made up by effluent at	1 ' '									
		•	total river flow versity Biological water quality	different times of the year Existing ecological classification/status and	Existing classification: Poor (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
				objective under the WFD	Objective: Moderate (2021)					***************************************	g			
	Within Clackers Bk - source to			Likelihood of a change in classification arising (+ve or -ve)	No information available to indicate direction of change									
	conf R Avon													
	(Brist) (GB1090530219	Conveyance of flows and	Presence of watercourses	Existing flood risk	Indicator of quality and measure used in floodplain resource so as to not duplicate scoring									
	20) waterbody	material												
Potential for highway drainage to be		Water supply	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.									
routed to watercourse. This impact			industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.									
can likely be minimised through mitigation.	DR28)		Chemical water quality	Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant			
At waterbody scale these impact	Forecast Brook (Feature ID:			objective under the WFD.	Chemical objective: Good (2015) No information available to indicate direction of change									
would not be significant.	WC06)			(+ve or -ve)										
	Unnamed watercourses	Transport and dilution of waste	Presence of surface water discharge points	Location and number of discharge points Volume of effluent discharged	No discharge consents information available at the time of reporting Indictor of quality and measures not used in assessment									
	(Feature IDs:	products	Contribution of discharge to	Proportion of flow made up by effluent at	maiotor or quality and measures not used in assessment									
	WC25, WC26, WC27)	Biodiversity	total river flow Biological water quality	different times of the year Existing ecological classification/status and	Existing chemical classification: Poor (2019)	Local	Commonniace	Replaceable	Low	Minor	Insignificant			
		Diodiversity	Diological water quality	objective under the WFD	Chemical objective: Good (2015)	Local	Commonplace	replaceable	LUW	IVIII IUI	magrillicant			
	WFD reported reach: No													
	Within Forest													
	Brook (GB1090530219	Conveyance of	Presence of watercourses	Existing flood risk	Indicator of quality and measure used in floodplain resource so as to not									
	40) waterbody	flows and			duplicate scoring									
L	l	material	Use of water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.									
Potential for highway drainage to be	Kennet and Avon	vvater supply	Use of water supply (potable,	Eccation and number of abstraction points										

	IID ONION		1	11 () () 11 () ()			•		£		
can likely be minimised through mitigation.	ID: CN02) Unnamed drains		Chemical water quality	Use of water (potable most important) Existing chemical classification/status and	Existing chemical classification: Fail (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
magaton.	(Feature IDs:		Onemical water quality	objective under the WFD.	Chemical objective: Good (2015)	Local	Commonpiace	replaceable	Low	WIIIIO	magninount
At waterbody scale these impact would not be significant.	DR31, DR32,				No information available to indicate direction of change						
	DR33, DR34,			(+ve or -ve)							
	DR35, DR36, DR37, DR38,	Transport and dilution of waste	Presence of surface water discharge points	Location and number of discharge points Volume of effluent discharged	No discharge consents information available at the time of reporting						
ĺ	DR37, DR38, DR40, DR41,	products	Contribution of discharge to	Proportion of flow made up by effluent at	Indictor of quality and measures not used in assessment						
ĺ	DR42, DR43,	producto	total river flow	different times of the year							
ĺ	DR44, DR45,	Biodiversity	Biological water quality	Existing ecological classification/status and	Existing chemical classification: Poor (2019)	Local	Commonplace	Replaceable	Low	Minor	Insignificant
ĺ	DR46, DR47)			objective under the WFD	Chemical objective: Good (2015)						
ĺ	Semington Brook			Likelihood of a change in classification arising	No information available to indicate direction of change						
ĺ	(Feature ID: WC11)			(+ve or -ve)							
ĺ	Unnamed										1
ĺ	watercourses	Conveyance of	Presence of watercourses	Existing flood risk	Indicator of quality and measure used in floodplain resource so as to not						
ĺ	(Feature IDs:	flows and		3	duplicate scoring						
ĺ	WC28,WC29,	material									
ĺ	WC36, WC38,										
l	WC40)										
ĺ	WFD reported										
ĺ	reach: No										
ĺ	Within Forest										
ĺ	Brook										
ĺ	(GB1090530219										
ĺ	40) waterbody										
Potential for highway drainage to be	Head	Water supply	Use for water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to groundwater.	groundwater		industrial or	Volume of water abstracted	Indicator of quality not used in assessment.						
This impact can likely be minimised	(secondary	1	agricultural)	Use of water (potable most important)	No Course Destroition Zones						1
through mitigation. Deep foundations potentially	undifferentiated aquifer)		Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones. Measure not used in assessment.						
forming a barrier to groundwater	aquilei)			Classification of aquifer vulnerability	Groundwater vulnerability classification: Low	Local	Rare	Replaceable	Low	Minor	Insignificant
flow and a pathway for pollution to				Classification/status and objective under WFD		Loodii	ruro	торисосия	2011	1111101	mogranounc
enter aquifer.				•	Measure not used in this assessment.						
ĺ		Transport and	Presence of discharge points	Location and number of discharge points	There are 9 discharge consents of treated sewage effluent to	Local	Commonplace	Replaceable	Medium	Minor	Insignificant
		dilution of waste products			land/soakaway accross the study area related to domestic properties.						
				Volume of discharge	Discharges related to domestic properties therefore likely to be minor.	Local	Commonplace	Replaceable	Low	Minor	Insignificant
		Value to the	Value of the uses of the	Value to local economy (e.g. employment,	Discharges related to domestic properties only.	Local	Commonplace	Replaceable	Low	Minor	Insignificant
		economy	groundwater (e.g. abstractions and discharges)	cost of alternatives, etc.)							
		Biodiversity	Conservation value of areas fed by groundwater	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment						
				Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Feature not used in assessment						
ĺ				Presence of protected species or BAP	Presence of protected species or BAP species not considered in the						
				species	water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.						
ĺ				Presence of Groundwater Dependant	Unknown at the time of reporting.						
ĺ				Terrestrial Ecosystems under the WFD	Feature not used in assessment.						
ĺ		Conveyance of	Flow routes	Location and importance of flow routes	Unknown at the time of reporting.						
		flood flows	Groundwater levels	Charges in levels and recharge	Feature not used in assessment.						
Potential for highway drainage to be		Water supply	Use for water supply (potable,	Location and number of abstraction points	No abstraction licence information available at the time of reporting.						
routed to groundwater. This impact can likely be minimised	groundwater (secondary A aquifer)		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.						
through mitigation.			Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones.						
Deep foundations potentially	1/	I		g procession 2016	Measure not used in assessment.				1		
forming a barrier to groundwater	1	1		Classification of aquifer vulnerability	Groundwater vulnerability classification: Medium-High	Local	Commonplace	Replaceable	Medium	Minor	Insignificant
flow and a pathway for pollution to	1	1		Classification/status and objective under WFD		I		İ	İ		
enter aquifer.	1	1	<u>L</u>		Measure not used in this assessment.	l	Commonplace	Replaceable	Medium	Minor	Insignificant
enter aquirer.		Transport and		I ocation and number of discharge points	9 discharge consents of treated sewage effluent to land/soakaway	Local		replaceable	Micalani		magrimount
enter aquirer.		Transport and dilution of waste products	Presence of discharge points	Location and number of discharge points	discharge consents of treated sewage effluent to land/soakaway accross the study area related to domestic properties.	Local	Commonplace				
ener aquirer.		dilution of waste products		Volume of discharge	accross the study area related to domestic properties. Discharges related to domestic properties.	Local	Commonplace	Replaceable	Medium	Minor	Insignificant
ence aquier.		dilution of waste products Value to the	Value of the uses of the	Volume of discharge Value to local economy (e.g. employment,	accross the study area related to domestic properties.		,	Replaceable Replaceable	Medium Low	Minor Minor	Insignificant Insignificant
өнег ачинег.		dilution of waste products	Value of the uses of the groundwater (e.g.	Volume of discharge	accross the study area related to domestic properties. Discharges related to domestic properties.	Local	Commonplace				
enter aquiner.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges)	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.)	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only.	Local	Commonplace				
өнен ачинел.		dilution of waste products Value to the	Value of the uses of the groundwater (e.g.	Volume of discharge Value to local economy (e.g. employment,	accross the study area related to domestic properties. Discharges related to domestic properties.	Local	Commonplace				
өнег ачинег.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting.	Local	Commonplace				
enter aquiner.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR,	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting.	Local	Commonplace				
енте адинет.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment	Local	Commonplace				
enter aquirer.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the	Local	Commonplace				
enter aquiner.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment.	Local	Commonplace				
entei aquirei.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the	Local	Commonplace				
entei aquirei.		dilution of waste products Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment.	Local	Commonplace				
enter aquirei.		dilution of waste products Value to the economy Biodiversity	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas feed by groundwater	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP species Presence of Groundwater Dependant Terrestrial Ecosystems under the WFD	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment. Unknown at the time of reporting. Feature not used in assessment.	Local	Commonplace				
enter aquirei.		dilution of waste products Value to the economy Biodiversity Conveyance of	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by groundwater	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP species Presence of Groundwater Dependant Teresence of Groundwater Dependant Location and importance of flow routes	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Unknown at the time of reporting. Feature not used in assessment. Unknown the time of reporting.	Local	Commonplace				
	District	dilution of waste products Value to the economy Biodiversity Conveyance of flood flows	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by groundwater Flow routes Groundwater levels	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP species Presence of Groundwater Dependant Terrestrial Ecosystems under the WFD Location and importance of flow routes Charges in levels and recharge	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment. Unknown at the time of reporting, Feature not used in assessment.	Local Local	Commonplace	Replaceable	Low	Minor	Insignificant
Potential for highway drainage to be routed to groundwater.	River Terrace Deposits	dilution of waste products Value to the economy Biodiversity Conveyance of	Value of the uses of the groundwater (e.g. abstractions and discharges) Conservation value of areas fed by groundwater	Volume of discharge Value to local economy (e.g. employment, cost of alternatives, etc.) Results of River Habitat Survey Presence of designations (e.g. SSSI, NNR, LNR, SINCs) Presence of protected species or BAP species Presence of Groundwater Dependant Teresence of Groundwater Dependant Location and importance of flow routes	accross the study area related to domestic properties. Discharges related to domestic properties. Discharges related to domestic properties only. River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment Feature not used in assessment Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Unknown at the time of reporting. Feature not used in assessment. Unknown the time of reporting.	Local	Commonplace				

through mitigation. Deep foundations potentially	aquifer)		Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones. Measure not used in assessment.							
forming a barrier to groundwater				Classification of aquifer vulnerability	Groundwater vulnerability classification: Medium	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
flow and a pathway for pollution to				Classification/status and objective under WFD								
enter aquifer.		Transport and	Presence of discharge points	Location and number of discharge points	Measure not used in this assessment. 9 discharge consents of treated sewage effluent to land/soakaway	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
		dilution of waste		Volume of discharge	Discharges related to domestic properties.	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
		Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges)	Value to local economy (e.g. employment, cost of alternatives, etc.)	Discharges related to domestic properties only.	Local	Commonplace	Replaceable	Low	Minor	Insignificant	
		Biodiversity	Conservation value of areas fed by	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment							
			groundwater	Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Feature not used in assessment							
				Presence of protected species or BAP species	Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.							
				Presence of Groundwater Dependant Terrestrial Ecosystems under the WFD	Unknown at the time of reporting. Feature not used in assessment.							
		Conveyance of flood flows	Flow routes Groundwater levels	Location and importance of flow routes Charges in levels and recharge	Unknown at the time of reporting. Feature not used in assessment.							
Potential for highway drainage to be routed to groundwater.	Cornbrash Formation	Water supply	Use for water supply (potable, industrial or	Location and number of abstraction points Volume of water abstracted	No abstraction licence information available at the time of reporting. Indicator of quality not used in assessment.							
	Groundwater		agricultural)	Use of water (potable most important)	' '							
through mitigation. Deep foundations potentially	(secondary A aquifer)		Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones. Measure not used in assessment.							
forming a barrier to groundwater flow and a pathway for pollution to				Classification of aquifer vulnerability	Groundwater vulnerability classification: High	Regional	Commonplace	Limited no substitution	Medium	Minor	Insignificant	
enter aquifer.				Classification/status and objective under WFD	Not a WFD groundwaterbody. Measure not used in this assessment.							
		Transport and	Presence of discharge points	Location and number of discharge points	9 discharge consents of treated sewage effluent to land/soakaway	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
		dilution of waste	\(\frac{1}{2} \cdots = \frac{1}{2} \cdots = 1	Volume of discharge Value to local economy (e.g. employment,	Discharges related to domestic properties.	Local	Commonplace	Replaceable Replaceable	Medium	Minor	Insignificant	
		Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges)	cost of alternatives, etc.)	Discharges related to domestic properties only.	Local	Commonplace	Replaceable	Low	Minor	Insignificant	
		Biodiversity	Conservation value of areas fed by groundwater	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment							
				Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Feature not used in assessment							
				Presence of protected species or BAP species	Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.							
				Presence of Groundwater Dependant Terrestrial Ecosystems under the WFD	Unknown at the time of reporting. Feature not used in assessment.							
		Conveyance of	Flow routes	Location and importance of flow routes	Unknown at the time of reporting.							
Potential for highway drainage to be	Hazlebury Bryan Formation Groundwater (secondary A aquifer). Part of the Corallian Limestone (Calne to Swindon) Groundwater body	flood flows bury Bryan Water supply		Groundwater levels Use for water supply (potable,	Charges in levels and recharge Location and number of abstraction points	Feature not used in assessment. No abstraction licence information available at the time of reporting.						
			industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment.							
through mitigation. Deep foundations potentially			Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones. Measure not used in assessment.							
forming a barrier to groundwater flow and a pathway for pollution to				Classification of aquifer vulnerability	Groundwater vulnerability classification: High	Regional	Rare	Limited no substitution	Medium	Minor	Insignificant	
		Toward and	December of disabases as into	-	Existing classification (overall water body): Good (2019) Objective (overall water body): Good (2015) 9 discharge consents of treated sewage effluent to land/soakaway	Regional	Rare Commonplace	Limited no substitution Replaceable	Medium Medium	Minor	Insignificant	
		Transport and dilution of waste	Presence of discharge points	Location and number of discharge points Volume of discharge	Discharges related to domestic properties.	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
	(GB40902G8061 00)	Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges)	Value to local economy (e.g. employment, cost of alternatives, etc.)	Discharges related to domestic properties only.	Local	Commonplace	Replaceable	Low	Minor	Insignificant	
			Biodiversity	Conservation value of areas fed by	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment						
			groundwater	Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Feature not used in assessment							
				Presence of protected species or BAP species	Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.							
				Presence of Groundwater Dependant	Spye Park SSSI GWDTE directly east associated with Corallian	Local	Rare	Limited no	Medium	Minor	Insignificant	
		Convevance of	Flow routes	Terrestrial Ecosystems under the WFD Location and importance of flow routes	Limestone. Unknown at the time of reporting.			substitution				
Potential for highway drainage to be	Kellaways	flood flows Water supply	Groundwater levels Use for water supply (potable,	Charges in levels and recharge Location and number of abstraction points	Onknown at the time of reporting. Feature not used in assessment. No abstraction licence information available at the time of reporting.							
routed to groundwater. This impact can likely be minimised	Formation Groundwater and		industrial or agricultural)	Volume of water abstracted Use of water (potable most important)	Indicator of quality not used in assessment. Geological unit unable to support a water supply							
through mitigation. Deep foundations potentially	Oxford Clay Formation		Groundwater vulnerability	Location and grade of source protection zone	No Source Protection Zones. Measure not used in assessment.							
flow and a pathway for pollution to	Groundwater (unproductive			Classification of aquifer vulnerability	Geological unit unable to support a water supply Groundwater vulnerability classification: Medium-Low	Local	Commonplace	Replaceable	Low	Minor	Insignificant	
enter aquifer.	strata)			Classification/status and objective under WFD	Not a WFD groundwaterbody. Measure not used in this assessment.							
		Transport and	Presence of discharge points	Location and number of discharge points	9 discharge consents of treated sewage effluent to land/soakaway	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	
1		dilution of waste		Volume of discharge	Discharges related to domestic properties.	Local	Commonplace	Replaceable	Medium	Minor	Insignificant	

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		Value to the economy	Value of the uses of the groundwater (e.g. abstractions and discharges)	Value to local economy (e.g. employment, cost of alternatives, etc.)	Discharges related to domestic properties only.	Local	Commonplace	Replaceable	Low	Minor	Insignificant
		Biodiversity	Conservation value of areas fed by groundwater	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment						
			groundwater	Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Feature not used in assessment						
				Presence of protected species or BAP species	Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.						
				Presence of Groundwater Dependant	Unknown at the time of reporting.						
		Conveyance of	Flow routes	Terrestrial Ecosystems under the WFD Location and importance of flow routes	Feature not used in assessment. Unknown at the time of reporting.						
		flood flows	Groundwater levels	Charges in levels and recharge	Feature not used in assessment.						
New structure crossing the River Avon potentially affecting flow	River Avon floodplain	Conveyance of flood flows	Presence of flood zones Flood flow routes	Existing flood risk/flood return period	Flood Zones 2 and 3 are associated with the watercourse.	Regional	Commonplace	Limited no substitution	Very high	Negligible	Low significance
conveyance and storage capacity			Surface water flooding	Location / importance of flood flow routes Location of surface water flooding	High level modelling of River Avon floodplain. Flooding shown on the Risk of Flooding from Surface Water mapping	Local	Commonplace	Limited no	Very high	Negligible	Low significance
		D: 1: 1		D # (B) 11.17.10	interacts with the scheme.		,	substitution			
		Biodiversity	Conservation value of river corridor	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting. Feature not used in assessment						
				Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Presence of designations is not considered under the floodplain resource. Feature not used in assessment.						
				Presence of protected species or BAP	Presence of protected species or BAP species not considered in the						
				species	water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.						
		Aesthetics	Contribution to landscape	Results of river landscape assessment	Contribution to landscape character and quality not considered in the						
			character and quality		water environment assessment, refer to landscape assessment. Feature not used in assessment.						
New structure crossing the Forest	Forest Brook	Conveyance of	Presence of flood zones	Existing flood risk/flood return period	Flood Zones 2 and 3 are associated with the watercourse.	Regional	Commonplace	Limited no	Very high	Negligible	Low significance
Brook potentially affecting flow conveyance and storage capacity	floodplain	flood flows	Flood flow routes Surface water flooding	Location / importance of flood flow routes Location of surface water flooding	High level modelling of Forest Brook floodplain. Flooding shown on the Risk of Flooding from Surface Water mapping	Local	Commonplace	substitution Limited no	Very high	Negligible	Low significance
conveyance and storage capacity			ourrace water neoding	Escation of surface water hooding	interacts with the scheme.	Local	Commonplace	substitution	very night	regiigible	Low significance
		Biodiversity	Conservation value of river	Results of River Habitat Survey	River Habitat Surveys have not been undertaken at the time of reporting.						
			corridor		Feature not used in assessment						
				Presence of designations (e.g. SSSI, NNR,	Presence of designations is not considered under the floodplain						
				LNR, SINCs) Presence of protected species or BAP	resource. Feature not used in assessment. Presence of protected species or BAP species not considered in the						
				species	water environment assessment, refer to Biodiversity assessment.						
					Feature not used in assessment.						
		Aesthetics	Contribution to landscape	Results of river landscape assessment	Contribution to landscape character and quality not considered in the						
			character and quality		water environment assessment, refer to landscape assessment. Feature not used in assessment.						
New structure crossing the Clackers Brook potentially affecting flow	Clackers Brook floodplain	Conveyance of flood flows	Presence of flood zones Flood flow routes	Existing flood risk/flood return period Location / importance of flood flow routes	Flood Zones 2 and 3 are associated with the watercourse. High level modelling of Clackers Brook floodplain.	Regional	Commonplace	Limited no substitution	Very high	Negligible	Low significance
conveyance and storage capacity			Surface water flooding	Location of surface water flooding	Flooding shown on the Risk of Flooding from Surface Water mapping	Local	Commonplace	Limited no	Very high	Negligible	Low significance
		Biodiversity	Conservation value of river	Results of River Habitat Survey	interacts with the scheme. River Habitat Surveys have not been undertaken at the time of reporting.			substitution			
			corridor		Feature not used in assessment						
				Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Presence of designations is not considered under the floodplain resource. Feature not used in assessment.						
				Presence of protected species or BAP species	Presence of protected species or BAP species not considered in the water environment assessment, refer to Biodiversity assessment.						
				species	Feature not used in assessment.						
		Aesthetics	Contribution to landagens	Desults of river landscape assessment	Contribution to landscape character and quality not considered in the						
		Aestrietics	Contribution to landscape character and quality	Results of river landscape assessment	Contribution to landscape character and quality not considered in the water environment assessment, refer to landscape assessment.						
					Feature not used in assessment.						
New structures crossing minor tributaries to the main rivers	Various ordinary watercourse	Conveyance of flood flows	Presence of flood zones	Existing flood risk/flood return period	Flood flows and floodplains are associated with the watercourses.	Local	Commonplace	Limited no substitution	Very high	Negligible	Low significance
potentially affecting flow	./atcroourse	nood nows	Flood flow routes	Location / importance of flood flow routes	Unknown at the time of reporting.			Substitution			
conveyance and storage capacity			Surface water flooding	Location of surface water flooding	Indicator of quality not used in assessment. Flooding shown on the Risk of Flooding from Surface Water mapping	Local	Commonplace	Limited no	Medium	Negligible	Insignificant
		Biodiversity	Conservation value of river	Results of River Habitat Survey	interacts with the scheme. River Habitat Surveys have not been undertaken at the time of reporting.			substitution			
		Blouwersity	corridor		Feature not used in assessment						
				Presence of designations (e.g. SSSI, NNR, LNR, SINCs)	Presence of designations is not considered under the floodplain resource. Feature not used in assessment.						
				Presence of protected species or BAP	Presence of protected species or BAP species not considered in the						
				species	water environment assessment, refer to Biodiversity assessment. Feature not used in assessment.						
		Aesthetics	Contribution to landscape	Results of river landscape assessment	Contribution to landscape character and quality not considered in the						
			character and quality		water environment assessment, refer to landscape assessment. Feature not used in assessment.						
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Reference Sources

Melksham Bypass OBC; WC_MBP-ATK-EWE-XX-FN-LW-000001; Preliminary Environmental Assessment Report

DfT TAG Unit A3, May 2019 (https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/825064/tag-unit-a3-environmental-impact-appraisal.pdf)

Summary Assessment Score

Neutral

Qualitative Comments

The Scheme will result in an increase in impermeable road area. This could potentially impact the water quality of a number of watercourses in the area. Sustainable drainage measures that attenuate flows can also be designed to removed suspended solids, dissolved copper and dissolved zinc and they are also effective for spillage control. The exact choice of system is dependent on the physical environment of the Scheme and needs to consider the availability of land, climate and rainfall characteristics, soil permeability and topography.

The Scheme crosses watercourses and floodplains which could potentially affect flood flow conveyance and storage, but this can be mitigated through design and inclusion of floodplain compensation where appropriate.

There are no predicted significant adverse effects for the Scheme. The highest individual assessment score is Low SIgnifcance. Applying water quality, groundwater, hydromorphology mitigation and flood risk mitigation will reduce the significance of effect to neutral.

The significance of effects has been determined based on professional judgement, experience on similar Schemes, and the environmental data available at the time, however without further information on the Scheme design, and environmental surveys, there is a risk that unforeseen significant impacts could be present.