DocName: WFD_Level1_A2AT_SLR1

	Assessment COVER SHEET
Option ID:	WFD_A2AT_Route_Eastern (hybrid)
Option Name: Option Description:	Eastern Route
Water company	SRO
Is there enough information to complete the assessment? (Y/N)	Y
If No: What information is lacking? Any further comment appropriate?	
Assessed by:	Charlie Dodd
Assessment Version:	1
Date:	21/06/2022
Checked by:	Rachel Coombes
Date:	14/07/2022
Approved by:	
Date:	

				WFD status	Overall Water Body	Poor	Bad	Moderate	Moderate	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	
					Chemical Ecological	Fail Poor	Fail Bad	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Poor	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Good	Fail Poor	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	Fail Moderate	
	1		1		Waterbody ID	GB105031050595	GB105032050330	GB105032050340	GB105032050381	GB105033037490	GB105033037550	GB105033037570	GB105033037590	GB105033037610	GB105033038120	GB105033042680	GB105033042690	GB105033042740	GB105033042770	GB105033042800	GB105033042820	GB105033043140	GB105033047921	GB205033000010	GB205033000050	GB205033043375	
Component	Activity	Construction, Operation or Decommissioning		Comments	Score	in (including Marho	Billing Brook	Stanground Lode	Nene - Islip to tida	l Debden Water	(Newport to Audle	Tributary of Cam	Audley End to Stapl	Rhee (DS Wendy)	Hoffer Brook	Bin Brook	Bourn Brook	Fen Drayton Drain	Swavesey Drain	Marley Gap Brook	Alconbury Brook	Bury Brook	use (Roxton to Earit	n and Mepal IDB in	Middle Level	Old West River	
Below ground	Construction/repair of new tunnels and conduits	Construction	Tunnels and conduits will be constructed such that they will not form a preferential pathway for the flow of groundwater and to ensure all appropriate pollution prevention measures are adopted during the works, with the ground reinstated as soon as possible.	will cross all waterbodies end	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Below ground	Construction of below ground structures (shaft/retaining wall) with associated dewatering, with <u>no</u> sensitive groundwater feature within 500m	Construction	Risk assessments will be undertaken for excavation works and dewatering to ensure no adverse impact on watercourses, wetland habitats or abstractions. Dewatering discharge will be treated before discharge. Abstraction licences, water activity permits and / or land drainage consents will be obtained as necessary.		1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Presence of new underground structure (tunnel/shaft/retaining wall), with <u>no</u> sensitive groundwater feature within 500m	Operation	Land drainage will be provided on the upgradient side of the scheme such that they will not cause an increase in groundwater flooding risk. This drainage will be discharged into local watercourses to maintain flow.		1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Construction of below ground structures (shaft/retaining wall) with associated dewatering, within 500m of a sensitive groundwater feature		Risk assessments will be undertaken for excavation works and dewatering to ensure no adverse impact on watercourses, wetland habitats or abstractions. If impact likely appropriate mitigation to be put in place Dewatering discharge will be treated before discharge.		2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Presence of new underground structure (tunnel/shaft/retaining wall) within 500m of a sensitive groundwater feature	Operation	Land drainage will be provided on the upgradient side of the scheme such that they will not cause an increase in groundwater flooding risk. This drainage will be discharged into local watercourses to maintain flow.		2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Construction of new cutting with external dewatering with <u>no</u> sensitive groundwater feature within 500m	Construction	Not applicable.		1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Construction of new cutting with external dewatering within 500m of a sensitive groundwater feature	Construction	Not applicable.		2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Below ground	Construction of new culvert	Construction	At this stage it is not known any new or modified culverts are required. It is assumed that the pipeline will be below ground but temporary culverts/culvert extensions may be required for plant access, and for access to new AGI. If required, appropriate precautions will be taken when working in the channels of or adjacent to watercourses, providing new	Temporary access culverts have been assumed to be required in all catchments along the route.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Catchment management	Knowledge exchange or education programme	Operation	Not applicable.		-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	Changes to land management practices to reduce pesticides, nutrients, sediment or flooding relating to a groundwater source	Operation	Not applicable, it is assumed that once the pipeline has been installed, it will be below ground and current land use and practices will return.		-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	Changes to land management practices to reduce pesticides, nutrients, sediment or flooding relating to a surface water source	Operation	Not applicable, it is assumed that once the pipeline has been installed, it will be below ground and current land use and practices will return.		-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	River restoration - construction phase	Construction	There may be minor short term impacts during the construction phase to remove temporary watercourse crossings.		1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	River restoration - after construction	Operation	Not applicable, no river restoration measures are currently proposed for the scheme. It is assumed that any that are proposed will work with natural processes and take into account the hydromorphology of the river.		-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	Flow augmentation and licensing	Operation	Not applicable.		-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management Catchment	Terrestrial habitat creation/management - creation Terrestrial habitat creation/management -	Construction	Not applicable.		1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
management Catchment management	management Natural water retention measures (including NFM and wetland creation) - construction	Operation Construction	Not applicable. Not applicable.		-1 1	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	
Catchment management	Natural water retention measures (including NFM and wetland creation)	Operation	Not applicable.		-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management Catchment management	Fisheries management Sustainable Urban Drainage Systems (SUDS) -	Operation Construction	Not applicable. It is assumed that that Contractor will adopt the most suitable methods to manage construction site runoff (attenuation and treatment) and that this may involve bespoke, temporary sustainable drainage techniques alone or in combination with		-2	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	N/A N/A	N/A	N/A	N/A N/A	N/A N/A	N/A N/A	
Catchment management	Construction Sustainable Urban Drainage Systems (SUDS) - after construction	Operation	other proprietary measures. As the project develops a suitable Drainage Strategy will be required for any new or modified AGIs to ensure that there are appropriate means of capturing, attenuating and discharging surface water runoff from roofs and impermeable surfaces. Although the size of these installations is not likely to be spatially significant, it is assumed that each will involve sustainable drainage systems where appropriate to do so. The Drainage Strategy will need to include a water quality risk assessment to ensure that drainage systems include an appropriate treatment train depending on the level of risk (which is expected to be low).	g n h n o	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Catchment management	Integrated catchment management Construction of new inverted siphon or drop inlet	Operation	Not applicable.		-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Culvert	Presence of new culvert, in headwaters or on drainage ditches	Construction Operation	Not applicable. At this stage it is not know if any new or modified culverts are required. It is assumed that the pipeline will be below ground but temporary culverts/culvert extensions may be required for plant access, and for access to new AGI. If		1	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	
Culvert	Presence of new culvert mid or lower catchment	Operation	required, appropriate precautions will be At this stage it is not know if any new or modified culverts are required. It is assumed that the pipeline will be below ground but temporary culverts/culvert extensions may be required for plant.		2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Culvert	Presence of new inverted siphon or drop inlet culvert	Operation	access, and for access to new AGI. If Not applicable.		3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Culvert	Removal of significant in channel watercourse structure (such as impassable weir)	Decommissioning	Not applicable.		-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

L	Removal of existing culverts or other in channel watercourse structure	Decommissioning	Not applicable.		-1	N/A																					
	watercourse structure			The source of the water for the																							
Discharge	High volume discharge of water with a quality element of higher WFD status than the receiving water body	Operation	No assumed mitigations	pipeline is not currently confirmed, but is likely to be SLR. Regardless, water would be treated first	-2	N/A																					
Discharge	High volume discharge of water with a quality element of a lower WFD status than the receiving water body	Operation	No assumed mitigations		3	N/A																					
Discharge	Low volume discharge of water with a quality element of the same or higher WFD status than the receiving water body	Operation	No assumed mitigations		-1	N/A																					
Discharge	Low volume discharge of water with a quality element of a lower WFD status than the receiving water body	Operation	No assumed mitigations		2	N/A																					
Discharge	Low volume discharge of water with a quality element of the same WFD status as the receiving water body	Operation	No assumed mitigations		0	0	N/A	N/A	N/A	0	N/A																
Discharge	High volume discharge of water with a quality element of the same WFD status as the receiving water body	Operation	No assumed mitigations		1	N/A																					
Discharge	New WTW discharge to watercourse	Operation Operation	Not applicable. Not applicable.		1	N/A N/A																					
Discharge Discharge	New discharge of highly saline water to a	Operation	Not applicable.		3	N/A																					
Discharge	coastal or transitional waterbody New discharge of highly saline water to a surface waterbody or groundwater	Operation	Not applicable.		3	N/A																					
Discharge	Construction of a new outfall structure to a watercourse, coastal waters, transitional waters or reservoir	Construction	Appropriate precautions will be taken wher working in the channels of watercourses, to appropriately manage flood risk and the potential for deposition of silt or release of other forms of suspended material or pollution within the water column. All measures will be in line with the requirements set out within the Environment Agency's PPGs (PPG1: General Guide to Prevention of Pollution; PPG5: Works and maintenance in or near water).	o f	1	1	N/A	N/A	N/A	1	N/A																
Discharge	Cessation of existing discharge to a watercourse Maintenance and use of river, coastal or		Not applicable.		2	N/A																					
Discharge Groundwater	transitional water outfall Construction of a new abstraction borehole	Operation Construction	Not applicable. Not applicable.		0	0 N/A	N/A N/A	N/A N/A	N/A N/A	0 N/A	N/A N/A																
Groundwater	headworks and associated infrastructure Refurbishment of existing boreholes	Construction	Not applicable.		0	N/A																					
Groundwater Groundwater	Drilling new abstraction boreholes Maintenance and use of abstraction borehole infrastructure	Construction Operation	Not applicable. Not applicable.		0	N/A N/A																					
Habitat	illiadadatato	Construction	Not applicable.		-2	N/A																					
Habitat Habitat	Minor habitat creation Daylighting of existing culverts	Construction	Appropriate precautions will be taken wher working in the channels of or adjacent to watercourses, to appropriately manage flood risk and the potential for deposition o silt or release of other forms of suspender material or pollution within the water column. However, these works will be minor in nature. Not applicable.	of d	-1	N/A N/A																					
Habitat	Channel realignment with natural bed substrate and good riparian connections	Operation	Not applicable.		-4	N/A																					
Habitat	Channel realignment with artificial banks/base	Operation	Not applicable.		1	N/A	N/A	N/A	N/A	NI/A							NI/A	N/A	N/A					A1/A	NI/A	N/A	
<u> </u>	Construction or modification of a new pumping				'		1471	IVA	IWA	N/A	IVA	IVA	N/A	N/A	N/A	N/A	N/A	N/A	1670								
Intake	Construction or modification of a new pumping station and/or intake from raw water (river or coastal waters)	Construction	Not applicable.		1	N/A																					
Intake Intake Intake	station and/or intake from raw water (river or	Construction Operation Operation	Not applicable. Not applicable.		1 1 1																						
Intake	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes	Operation	Not applicable. Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A																					
Intake Intake Intake	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions	Operation Operation	Not applicable. Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire		1	N/A N/A N/A																					
Intake Intake Intake Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface	Operation Operation Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	
Intake Intake Intake Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of	Operation Operation Operation Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A				
Intake Intake Intake Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions	Operation Operation Operation Operation Operation Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A										
Intake Intake Intake Licence Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions New or increased surface water abstraction New or increased groundwater abstraction	Operation Operation Operation Operation Operation Operation Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	
Intake Intake Intake Intake Licence Licence Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions New or increased surface water abstraction	Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		1	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Intake Intake Intake Intake Licence Licence Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions New or increased surface water abstraction New or increased groundwater abstraction New coastal or transitional waterbody abstraction licence Reduction of coastal or transitional waterbody	Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable.		1	N/A	N/A	N/A	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	N/A	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	
Intake Intake Intake Intake Licence Licence Licence Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions New or increased surface water abstraction New or increased groundwater abstraction New coastal or transitional waterbody abstraction licence Reduction of coastal or transitional waterbody licences of coastal or transitional waterbody	Operation	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable. Not applicable. Not applicable. Assumed that bedding material for pipelines will be constructed such that they do not form preferential pathways for groundwater flow.	S	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Intake Intake Intake Intake Licence Licence Licence Licence Licence Licence	station and/or intake from raw water (river or coastal waters) Maintenance and use of river intakes Maintenance and use of coastal intakes Use of existing ground and surface water abstraction licences, within licence conditions and recent abstraction patterns Use of existing surface water and groundwater abstraction licences, within existing licence conditions but outside of the recent actual rates Emergency or drought use of existing surface water or groundwater abstraction outside of licence conditions New or increased surface water abstraction New or increased groundwater abstraction New coastal or transitional waterbody abstraction licence Reduction of coastal or transitional waterbody abstraction licence Increase of coastal or transitional waterbody abstraction licence Trenching and laying of pipe lines within the interfluves of a catchment (no watercourse	Operation Construction Construction	Not applicable. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir. Not applicable. Not applicable. Not applicable. Assumed that bedding material for pipelines will be constructed such that they do not	s s s s s s s s s s s s s s s s s s s	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

	Trans.	The second second						-															-		
Pipelines	Maintenance of pipe lines Operation	No assumed mitigations If yester is drained to local watercourse this	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pipelines	Draining of pipelines for maintenance Operation	will be short term and temporary impacts only. It is assumed best practice would be followed and the source of any water in the pipeline at the time of draining would be treated. The discharge locations and	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		methods for drained water are not known at this stage, though it is assumed that the process would follow best practice to minimise risk to any receiving waterbody. Risks would be similar to the original laying																							
Pipelines	removal / decommissioning of existing pipeline (no watercourse crossings)	of the pipeline, although it is assumed that any pipe sections beneath watercourses would be left in situ (assuming they are placed sufficiently deep originally that there is no risk of ever being exposed by bed scour).	0	N/A																					
Pipelines	removal / decommissioning of existing pipeline (involving watercourse crossings)	Risks would be similar to the original laying of the pipeline, although it is assumed that any pipe sections beneath watercourses would be left in situ (assuming they are placed sufficiently deep originally that there is no risk of ever being exposed by bed scour).	0	N/A	NA	N/A																			
Pipelines	New above ground pipelines (crossing watercourse) Construction	Not applicable. It is assumed that no pipe overbridges are proposed.	2	N/A																					
Pipelines	New above ground pipelines (not crossing watercourse) Construction	Not applicable.	0	N/A																					
Pipelines	Temporary pipelines to support network upgrades or changes Operation	Not applicable.	1	N/A																					
reservoir	Construction of reservoir (set back from watercourse) Construction	No assumed mitigations	0	N/A																					
reservoir	Construction of new storage reservoir (in line/next to watercourse - within 500m)	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire	3	N/A																					
reservoir	Modification of an existing storage reservoir Construction	Reservoir. Not applicable.	3	N/A	\vdash																				
reservoir	Presence of new or modified existing storage reservoir Operation	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	3	N/A																					
reservoir	Modification of an existing service reservoir adjacent in close proximity to watercourse	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	1	N/A																					
reservoir	Presence of new reservoir or modified existing service reservoir in close proximity to Operation watercourse	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	1	N/A																					
reservoir	Modification of an existing service reservoir not in close proximity to watercourse	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	0	N/A																					
reservoir	Presence of new reservoir or modified existing service reservoir not in close proximity to Operation watercourse	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.	0	N/A																					
reservoir	Floating or constructed shade for the reservoir to reduce evaporation Operation	Not applicable.	2	N/A	4																				
reservoir	Floating or constructed shade for the reservoir to reduce evaporation Construction	Not applicable.	1	N/A																					
Transfer agreement	New or continuation of contractual agreement between companies to continue providing transfer with no change to abstraction licence associated	Not applicable.	0	N/A																					
Transfer agreement	Contractual agreement between companies to continue providing transfer with decrease in abstraction licence associated	Not applicable.	-1	N/A																					
Transfer agreement	Contractual agreement between companies to continue providing transfer with increase in abstraction licence associated	Not applicable.	2	N/A																					
Usage changes and abstraction management	Impose water usage restriction under emergency drought orders to business and/or household Operation	Not applicable.	-1	N/A																					
Usage changes and abstraction management		Not applicable.	0	N/A																					
Usage changes and abstraction management		Not applicable.	1	N/A																					
Usage changes and abstraction management	Abstraction management. This could include limiting abstractions of vulnerable sources in times of drought and using more resilient sources	Not applicable.	1	N/A																					
Usage changes and abstraction management		Not applicable.	0	N/A																					
Usage changes and abstraction management	Operation Tankering raw water or treated effluent	Not applicable.	1	N/A																					
WTW	Modification of an existing WTW or pumping station relating to treated water Construction	No assumed mitigations	0	N/A																					
WTW	Construction of a new WTW or pumping station relating to treated water Construction of a new WTW or pumping station relating to treated water Construction	No assumed mitigations	0	0	N/A	0																			
WTW	Maintenance and use of pumping stations and WTW Operation	No assumed mitigations	0	0	N/A	0																			
WTW	Removal of existing WTW and associated discharge Decommissioning	Not applicable.	-1	N/A																					
WTW	Small desalination temporary unit Operation	Not applicable.	0	N/A																					
WTW	Construction or modification of a desalination plant Construction	Not applicable.	1	N/A																					
WTW	Maintenance and use of desalination plant Operation	Not applicable.	0 May impact	N/A	 																				
			Max impact score per waterbody	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

WB ID's passing the rook Drain (includin032050330:Billing 032050340:Stanground2050381:Nene - Isli 33037490:Debden 50:Cam (Newport t 3037570:Tributary 0:Cam (Audley End 3037610:Rhee (DS 033038120:Hoffer 5033042690:Bourn 3042740:Fen Drayt 33042770:Swavese 3042800:Marley Ga33042820:Alconbur 5033043140:Bury B47921:Ouse (Roxto in (Sutton and Mep033000050:Middle 33043375:Old Wes assessment

	Assessment Cover Information
Option ID	WFD_A2AT_Route_Eastern (hybrid)
Option Name	Eastern Route
Water company	SRO
Option Description	0
Assessment undertaken by [internal purposes only]	Charlie Dodd
Enough information to complete the assessment?	Yes
Waterbodies assessed	GB205033000050:Middle Level; GB105032050381:Nene - Islip to tidal; GB105032050330:Billing Brook; GB106038033460:Mimram (Whitwell to Codicote Bottom); GB106038033391:Lee (from Luton to Luton Hoo Lakes); GB105031050595:Brook Drain (including Marholm Brook); GB105033037670:Chicksands Brook; GB105033037690:Purwell; GB105033037790:Flit and Ivel Navigation d/s of Shefford; GB105033037800:Ickwell Brook; GB105033037500:Barton Brook; GB105033037530:New Inn Brook; GB105033043230:Begwary Brook; GB105033047921:Ouse (Roxton to Earith); GB105033043310:Diddington Brook; GB105033043220:Colmworth Brook; GB105033043260:Duloe Brook; GB105033043270:Kym; GB105033042870:Ellington Brook; GB105033042810:Cock Brook; GB105033042820:Alconbury Brook; GB105033042830:Ellington Brook (Trib); GB105033047923:Ouse (Newport Pagnell to Roxton); GB1050330303090:Cople Brook;
Number of waterbodies passing WFD assessment	21
Waterbodies passing WFD assessment	GB105031050595:Brook Drain (including Marholm Brook); GB105032050330:Billing Brook; GB105032050340:Stanground Lode; GB105032050381:Nene - Islip to tidal; GB105033037490:Debden Water; GB105033037550:Cam (Newport to Audley End); GB105033037570:Tributary of Cam; GB105033037590:Cam (Audley End to Stapleford); GB105033037610:Rhee (DS Wendy); GB105033038120:Hoffer Brook; GB105033042680:Bin Brook; GB105033042690:Bourn Brook; GB105033042740:Fen Drayton Drain; GB105033042770:Swavesey Drain; GB105033042800:Marley Gap Brook; GB105033042820:Alconbury Brook; GB105033043140:Bury Brook; GB105033047921:Ouse (Roxton to Earith); GB205033000010:Counter Drain (Sutton and Mepal IDB incl. Cranbrook Drain); GB205033000050:Middle Level; GB205033043375:Old West River;
Number of waterbodies requiring further WFD assessment	0
Waterbodies requiring further WFD assessment	N/A
Comment	N/A

Each activity has been predefined an impact score.

The maximum impact score for each waterbody determines if the waterbody requires further assessment or not.

Any waterbodies containing activities that score a 2 or 3 will require a level 2 assessment where mitigation must be demonstrated and PoM, RNAGs and any further data will be considered.

Level 1 assessment	Impact	Impact Score	Description
	Very beneficial	-2	Impacts that, taken on their own, have the potential to lead to the improvement in the ecological status or potential of a WFD quality element for the entire waterbody
	Beneficial	-1	Impacts that, when taken on their own, have the potential to lead to a minor localised or temporary improvement that does not affect the overall WFD status of the waterbody or any quality elements
Waterbody passes Level 1 WFD assessment	No/minimal	0	No measurable change in the quality of the water environment or the ability for target WFD objectives to be achieved.
	Low	1	Impacts that, when taken on their own, have the potential to lead to a minor localised, short-term and fully reversible effects on one or more of the quality elements but would not result in the lowering of WFD status. Impacts would be very unlikely to prevent any target WFD objectives from being achieved.
Waterbody requires level 2	Medium	2	Impacts that, when taken on their own, have the potential to lead to a widespread or prolonged effect on the quality of the water environment that may result in the temporary reduction in WFD status. Impacts have the potential to prevent target WFD objectives from being achieved.
WFD assessment	High	3	Impacts when taken on their own have the potential to lead to a significant effect and permanent deterioration of WFD status. Potential for high impact on preventing target WFD objectives from being achieved.