

DocName: WFD_Level1_A2AT_SLR1

Assessment COVER SHEET	
Option ID:	WFD_A2AT_Route_Eastern (hybrid)
Option Name:	Eastern Route
Option Description:	
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:	

Pipelines	Maintenance of pipe lines	Operation	No assumed mitigations	Further information on this practice, and the potential for hydrostatic testing, should be made available to inform future phases of the assessment.	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	If water is drained to local watercourse, this 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 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.		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pipelines	removal / decommissioning of existing pipeline (no watercourse crossings)	Decommissioning	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pipelines	removal / decommissioning of existing pipeline (involving watercourse crossings)	Decommissioning	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pipelines	New above ground pipelines (crossing watercourse)	Construction	Not applicable. It is assumed that no pipe overbridges are proposed.		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
Pipelines	New above ground pipelines (not crossing watercourse)	Construction	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pipelines	Temporary pipelines to support network upgrades or changes	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	N/A
reservoir	Construction of reservoir (set back from watercourse)	Construction	No assumed mitigations		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
reservoir	Construction of new storage reservoir (in linex to watercourse - within 500m)	Construction	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		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	N/A
reservoir	Modification of an existing storage reservoir	Construction	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	N/A
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
reservoir	Modification of an existing service reservoir adjacent in close proximity to watercourse	Construction	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
reservoir	Presence of new reservoir or modified existing service reservoir in close proximity to watercourse	Operation	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
reservoir	Modification of an existing service reservoir not in close proximity to watercourse	Construction	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
reservoir	Presence of new reservoir or modified existing service reservoir not in close proximity to watercourse	Operation	Not applicable as these issues are covered by the separate WFD assessment for the proposed new South Lincolnshire Reservoir.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
reservoir	Floating or constructed shade for the reservoir to reduce evaporation	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	N/A
reservoir	Fixing or constructed shade for the reservoir to reduce evaporation	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	N/A
Transfer agreement	New or continuation of contractual agreement between companies to continue providing transfer with no change to abstraction licence associated	Operation	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Transfer agreement	Contractual agreement between companies to continue providing transfer with decrease in abstraction licence associated	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	N/A
Transfer agreement	Contractual agreement between companies to continue providing transfer with increase in abstraction licence associated	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	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Usage changes and abstraction management	Communication with business or households to reduce water use in times of drought	Operation	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Usage changes and abstraction management	Reduce transfer of water between water companies	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	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 more frequently. This could include switching from GW to surface water or reservoir sources. This could include resting some sources to all for recovery of supply.	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	N/A
Usage changes and abstraction management	Tankering treated water between WRZ	Operation	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Usage changes and abstraction management	Tankering raw water or treated effluent	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	N/A
WTW	Modification of an existing WTW or pumping station relating to treated water	Construction	No assumed mitigations		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW	Construction of a new WTW or pumping station relating to treated water	Construction	No assumed mitigations		0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
WTW	Maintenance and use of pumping stations and WTW	Operation	No assumed mitigations		0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0
WTW	Removal of existing WTW and associated discharge	Decommissioning	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
WTW	Small desalination temporary unit	Operation	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW	Construction or modification of a desalination plant	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	N/A
WTW	Maintenance and use of desalination plant	Operation	Not applicable.		0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	1	1

WB ID's requiring further assessment

WB ID's passing the assessment
 the rook Drain (includir032050330:Billing 6032050340:Stanground1050381:Nene - Islip33037490:Debden 50:Cam (Newport t13037570:Tributary30:Cam (Audley End3037610:Rhee (D3 033038120:Hoffer 05033042680:Bin Br:033042690:Bourn E3042740:Fen Drayt:33042770:Swawese:3042800:Marley Ga33042820:Alconbur5033043140:Bury B47921:Ouse (Roxtonin (Sutton and Meq033000050:Middle:33043375:Old Wes

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); GB105033038090: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
Waterbody passes Level 1 WFD assessment	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
	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 WFD assessment	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.
	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.