

Appendix A13.2: Potential Impacts on Infrastructure, Properties and Cultural Heritage as a Result of Groundwater Dewatering

1.1 Potential Impacts on Infrastructure, Properties and Cultural Heritage as a Result of Groundwater Dewatering

1.1.1 This appendix provides an assessment of the impact of groundwater dewatering on infrastructure, properties, listed buildings and scheduled monuments and supports Chapter 13 (Geology, Soils, Groundwater and Land Contamination). Data were obtained from review of historical and current maps, Ground Investigation data, consultation and site survey information and presented in Table A13.2-1 based on the likelihood of encountering groundwater in cuttings.

Table A13.2-1: Potential Impacts on Infrastructure, Properties and Cultural Heritage as a Result of Groundwater Dewatering

Cutting Reference	Approximate Chainage (m)	Infrastructure within Radius of Influence	Magnitude	Importance	Significance
W2A	-340	No Receptors	No change	Negligible	Neutral
W2B	-140	No Receptors	No change	Negligible	Neutral
CS4B	1760	Existing A9	Minor	Medium	Slight
CS4B	1760	Railway	Negligible	High	Slight
CS7B	1860	Railway	Minor	High	Slight
CPED8	1975	Existing A9	Negligible	Medium	Neutral
CS9A	2230	Railway	Minor	High	Slight
CS25	4400	Existing A9 including bridge	Minor	Medium	Slight
FPL1	4555	Existing A9 including bridge	Minor	Medium	Slight
Pond G	5560	Existing A9	Minor	Medium	Slight
Pond G	5560	Rail Tunnel entrance and cut and cover tunnel	Minor	High	Slight

Cutting Reference	Approximate Chainage (m)	Infrastructure within Radius of Influence	Magnitude	Importance	Significance
Swale G	5560	Rail Tunnel entrance and cut and cover tunnel	Minor	High	Slight
C13	6130	Telecoms Mast	Minor	Medium	Slight
C13	6130	Historic Buildings (farm stead)	Negligible	Very High	Slight
C13	6130	Historic Buildings	Negligible	Very High	Slight
C13	6130	Railway	Negligible	High	Slight
W11	6630	Telecoms Mast	Minor	Medium	Slight
CS17	6900	Existing A9	Negligible	Medium	Neutral
CS17	6900	Railway	Negligible	High	Slight
CS19A	6900	Existing A9	Negligible	Medium	Neutral
CS19A	6900	Railway	Negligible	High	Slight
CS18	6920	Existing A9	Negligible	Medium	Neutral
TAT1	7700	Existing A9	Negligible	Medium	Neutral
Pond I	7790	Existing A9	Minor	Medium	Slight
Pond I	7790	Kings Pass Road	Minor	Medium	Slight
Pond I	7790	Exiting Bridge (Tay Crossing)	Minor	Medium	Slight
Pond I	7790	Historic Asset (Military Bridge)	Minor	Very High	Moderate