Appendix 9J.B – Summary of flood risk issues to the Proposed Development

Elements of the Proposed Project	Flood Zone (based on the Flood Map for Planning)	1 in 100-year +climate change flood outline	Flooding from Surface Water	Flooding from Reservoirs, Canals and Other Artificial Sources	Flooding from Groundwater	Flooding from Sewers
400kV Cable	Mainly in Flood Zone 1, a section of 420m located in Flood Zone 2 and a section of 240m located in Flood Zone 3	Mainly in Flood Zone 1, a section of 340m located within the 1 in 100-year+CC flood outline	Mainly at Very Low risk, but crossing areas at High and Medium risk two times and Low risk three times	At risk of flooding from reservoir	Mainly at Lower risk with a section of 170m at Higher risk (i.e. groundwater levels between ground level and 0.05m below ground level)	Flooding records not available, refer to flooding from surface water
Trans Pennine Trail Diversion	Mainly Flood Zone 1, but crosses Flood Zones 2 and 3 in two instances	Mainly in Flood Zone 1, but crosses 1 in 100-year+CC flood outline in three instances	Mainly at Very Low risk, but crossing areas at High risk three times, Medium risk four times and Low risk eight times	At risk of flooding from reservoir	Mainly at Lower risk with short disjointed sections at Higher risk (i.e. groundwater levels between ground level and 0.05m below ground level)	Flooding records not available, refer to flooding from surface water
SEC	Flood Zone 1	Outside the 1 in 100-year+CC flood outline	Low and Very Low risk	At risk of flooding from reservoir	Lower risk (i.e. areas where groundwater levels are greater than 0.5m below ground elevation)	Flooding records not available, refer to flooding from surface water

Elements of the Proposed Project	Flood Zone (based on the Flood Map for Planning)	1 in 100-year +climate change flood outline	Flooding from Surface Water	Flooding from Reservoirs, Canals and Other Artificial Sources	Flooding from Groundwater	Flooding from Sewers
Construction of Pylon 157R, replacement of conductors and connection to the SEC	Flood Zone 1	Outside the 1 in 100-year+CC flood outline	Very Low	At risk of flooding from reservoir	Pylon 4ZO157R partially located in an area at Higher risk (i.e. groundwater levels between ground level and 0.05m below ground level)	Flooding records not available, refer to flooding from surface water
Removal of Existing Infrastructure (VIP subsection)	Flood Zone 1 for all pylons except Pylon 4ZO157 - Pylon 4ZO157 is partially located in Flood Zones 2 and 3	Outside the 1 in 100-year+CC flood outline except pylon 157	Pylon 4ZO159 at Low risk, Pylon 4ZO157 at High, Medium and Low risk, remaining pylons at Very Low risk	At risk of flooding from reservoir	Pylons 4ZO157 and 4ZO160 are at Higher risk (i.e. groundwater levels between ground level and 0.05m below ground level) with remaining pylons at Lower risk	Flooding records not available, refer to flooding from surface water
Removal of Existing SEC at Dunford Bridge	Flood Zone 1	Outside the 1 in 100-year+CC flood outline	Very Low risk	At risk of flooding from reservoir	Lower risk (i.e. areas where groundwater levels are greater than 0.5m below ground elevation)	Flooding records not available, refer to flooding from surface water

Elements of the Proposed Project	Flood Zone (based on the Flood Map for Planning)	1 in 100-year +climate change flood outline	Flooding from Surface Water	Flooding from Reservoirs, Canals and Other Artificial Sources	Flooding from Groundwater	Flooding from Sewers
Temporary Construction Compounds/ Laydown Areas and Temporary Access Tracks	Mainly in Flood Zone 1	Mainly outside the 1 in 100-year+CC flood outline	Mainly Low risk	At risk of flooding from reservoir	Mainly Lower risk but temporary elements in Dunford Bridge are at Higher risk (i.e. groundwater levels between ground level and 0.05m below ground level)	Flooding records not available, refer to flooding from surface water