

Appendix A10.5: Contaminated Land Indirect Impact Assessment

1.1.1 This appendix provides a risk assessment within Table 1 for cuttings which could potentially draw in contaminated groundwater from identified contamination sources (details of each contamination source are provided in Appendix A10.1 and locations provided on Figure 10.2) which then needs to be discharged, supporting Chapter 10 (Geology, Soils and Groundwater).

Table 1: Potential indirect contaminated land impacts during construction

Widening/ Cutting	Sources	Likelihood	Magnitude	Impact Significance
C3	KP-C46	low	mild	Low
C3	KP-C1	likely	mild	Moderate/Low
C3	KP-C2, KP-C10, KP-C41, KP-C45, KP-C50, KP-C52	unlikely	mild	Very Low
C5	KP-C1, KP-C12, KP-C92	likely	mild	Moderate/Low
C6	KP-C12, KP-C47, KP-C92	low	mild	Low
C6	KP-C1, KP-C2, KP-C44	likely	mild	Moderate/Low
C6	KP-C13	unlikely	mild	Very Low
C7	KP-C1	likely	mild	Moderate/Low
C7	KP-C2, KP-C92	unlikely	mild	Very Low
C8	KP-C1, KP-C2, KP-C12, KP-C13, KP-C44, KP-C47, KP-C92	likely	mild	Moderate/Low
CH11	KP-C1	likely	mild	Moderate/Low
CH12	KP-C1	likely	mild	Moderate/Low
CH13	KP-C1	likely	mild	Moderate/Low
CH13	KP-C69	unlikely	mild	Very Low
CH16	KP-C1	likely	mild	Moderate/Low
CH18	KP-C13	low	mild	Low
CH18	KP-C44	likely	mild	Moderate/Low
CH33	KP-C1	likely	mild	Moderate/Low
CP11	KP-C1	likely	mild	Moderate/Low
CP12	PGG-C7	likely	medium	Moderate
CP13	KP-C1	likely	mild	Moderate/Low
CP14	KP-C1	low	mild	Low
CP14	KP-C2	likely	mild	Moderate/Low
CP15	KP-C1, PGG-C26, PGG-C27	likely	mild	Moderate/Low
CP15	PGG-C23	low	mild	Low
CP15	PGG-C25	unlikely	mild	Very Low
CP17	KP-C1	likely	mild	Moderate/Low
CP2	KP-C1	likely	mild	Moderate/Low
CP20	KP-C1	likely	mild	Moderate/Low
CP21	KP-C1	likely	mild	Moderate/Low
CP4	KP-C1	low	mild	Low
CP4	KP-C2	likely	mild	Moderate/Low
CP4	KP-C50, KP-C52	unlikely	mild	Very Low
CP7	KP-C1	likely	mild	Moderate/Low
CP8	KP-C20, PGG-C32	low	mild	Low
CP8	KP-C21	likely	medium	Moderate
CP8	KP-C1, KP-C22	likely	mild	Moderate/Low
CP8	KP-C18	unlikely	mild	Very Low

Widening/ Cutting	Sources	Likelihood	Magnitude	Impact Significance
CS1	KP-C2, KP-C13, KP-C47	low	mild	Low
CS1	KP-C1, KP-C12, KP-C44, KP-C92	likely	mild	Moderate/Low
CS12	KP-C21	likely	medium	Moderate
CS12	KP-C1, KP-C20, KP-C22, PGG-C32	likely	mild	Moderate/Low
CS12	KP-C18	unlikely	mild	Very Low
CS14	KP-C2	low	mild	Low
CS14	KP-C1	likely	mild	Moderate/Low
CS15	PGG-C13, PGG-C22, PGG-C24, PGG-C27	low	mild	Low
CS15	PGG-C9	low	severe	Moderate
CS15	KP-C1, PGG-C23, PGG-C25, PGG-C26, PGG-C28	likely	mild	Moderate/Low
CS15	PGG-C3	low	medium	Moderate/Low
CS15	PGG-C12	unlikely	mild	Very Low
CS16	PGG-C6	likely	medium	Moderate
CS16	KP-C1, KP-C69	likely	mild	Moderate/Low
CS17	KP-C1	likely	mild	Moderate/Low
CS19	KP-C1	likely	mild	Moderate/Low
CS2	KP-C15, KP-C17	likely	medium	Moderate
CS2	KP-C1	likely	mild	Moderate/Low
CS20	KP-C1	likely	mild	Moderate/Low
CS21	KP-C1	likely	mild	Moderate/Low
CS21	KP-C35	unlikely	mild	Very Low
CS29	KP-C1	likely	mild	Moderate/Low
CS3	KP-C1	likely	mild	Moderate/Low
CS3	KP-C15, KP-C17	low	medium	Moderate/Low
CS3	PGG-C33	likely	mild	Moderate/Low
CS30	KP-C1	likely	mild	Moderate/Low
CS33	KP-C1	likely	mild	Moderate/Low
CS34	KP-C1, KP-C2	likely	mild	Moderate/Low
CS4	KP-C1	likely	mild	Moderate/Low
CS40	KP-C1	likely	mild	Moderate/Low
CS40	PGG-C10	unlikely	mild	Very Low
CS5	KP-C1, KP-C18	likely	mild	Moderate/Low
CS7	KP-C21	likely	medium	Moderate
CS7	KP-C1, KP-C22	likely	mild	Moderate/Low
W11	KP-C1, KP-C2	likely	mild	Moderate/Low
W12	PGG-C22, PGG-C28	low	mild	Low
W12	PGG-C3	unlikely	medium	Low
W12	PGG-C5, PGG-C8	likely	medium	Moderate
W12	KP-C1, PGG-C23, PGG-C25, PGG-C26, PGG-C27	likely	mild	Moderate/Low
W12	PGG-C9	unlikely	severe	Moderate/Low
W12	KP-C2, PGG-C12, PGG-C24	unlikely	mild	Very Low
W14	KP-C69	low	mild	Low
W14	KP-C1	likely	mild	Moderate/Low

Widening/ Cutting	Sources	Likelihood	Magnitude	Impact Significance
W15	KP-C1	likely	mild	Moderate/Low
W16	KP-C1	likely	mild	Moderate/Low
W18	PGG-C10	low	mild	Low
W18	PGG-C4	unlikely	medium	Low
W18	KP-C1	likely	mild	Moderate/Low
W19	KP-C1	likely	mild	Moderate/Low
W20	PGG-C3	likely	medium	Moderate
W20	KP-C1	likely	mild	Moderate/Low
W21	KP-C1	likely	mild	Moderate/Low
W21	PGG-C6	low	medium	Moderate/Low
W22	KP-C23	unlikely	medium	Low
W22	KP-C21	likely	medium	Moderate
W22	KP-C1, KP-C20, KP-C22, PGG-C32	likely	mild	Moderate/Low
W22	KP-C2, KP-C18	unlikely	mild	Very Low
W23	KP-C77	low	mild	Low
W23	KP-C1	likely	mild	Moderate/Low
W3	KP-C1	low	mild	Low
W5	PGG-C32	low	mild	Low
W5	KP-C1	likely	mild	Moderate/Low
W5	KP-C21	low	medium	Moderate/Low
W5	KP-C18, KP-C20	unlikely	mild	Very Low
W6	KP-C25	likely	medium	Moderate
W6	KP-C1	likely	mild	Moderate/Low
W6	KP-C27	unlikely	mild	Very Low
W9	KP-C1	likely	mild	Moderate/Low
W9	KP-C30	unlikely	mild	Very Low