

# **APPENDIX D-1**

## **Macro invertebrates Species List**

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**Table A5.1.** Macroinvertebrates recorded during biological sampling on watercourses draining the proposed development during July 2019.

Taxa/Species	Pollution Sensitivity Group	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Site 11
<b>MAYFLIES</b> (Uniramia, Ephemeroptera)												
EphemereIIDae												
Blue-winged olive <i>Seratella ignita</i>	C	*	**	**	**	**		**				
Baetidae												
Large dark olive <i>Baetis rhodani</i>	C	**	***	****	****	*****	*****	****	*****	*****	*****	*****
Siphonuridae	A					*	**					
Family Heptagenidae												
Autumn dun <i>Ecdyonurus</i> sp.	A								*	**		**
Yellow may dun <i>Heptagenia sulphurea</i>	A									**		
<i>Rhithrogena semicolorata</i>	A									**		
<b>STONEFLIES</b> (Order Plecoptera)												
Chloroperlidae												
<i>Chloroperla torrentium</i>	A	**	****	**			**					
Perlodid stoneflies (Perlodidae)												
Common yellow sally <i>Isoperla grammatica</i>	A									****	**	**
Brown stoneflies (Nemouridae)												
<i>Nemoura</i> sp.	A									****	***	***
<i>Amphinemura</i> sp.	A											*
Needleflies (Leuctridae)												
<i>Leuctra</i> sp.	B	*****	*****	***			**	**	***	****	***	***
<b>CASED CADDIS FLIES</b> (Tricoptera)												
Northern caddisflies (Limnephilidae)	B		**	**	*	**	**	**	*			
Glossosomatidae												
Little black caddisfly <i>Agapetus fuscipes</i>	B						**					
Family Goeridae	B							*		*		
<b>CASELESS CADDIS FLIES</b> (Trichoptera)												

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Grey flags (Hydropsychidae)												
<i>Hydropsyche</i> sp.	C	*		**						**		
Green sedges (Rhyacophilidae)												
The sandfly <i>Rhyacophila dorsalis</i>	C	*		**			*	**		**		*
<i>Rhyacophila munda</i>	C							*				
Trumpet-net caddisflies (Polycentropodidae)												
<i>Polycentropus</i> sp.	C	**	**	**		**	**	**			*	
Hydroptilidae	C							**				
<b>DAMSELFLIES</b> (Odonata, Zygoptera)	B										1	
<b>TRUE FLIES</b> (Diptera)												
Blackfly (Simulidae)												
<i>Simulium</i> sp.	C	**	**	**	**	**	**	**		*		***
Craneflies (Tipulidae)	C											
<i>Tipula</i> sp.	C	*				*	**					
<i>Dicranota</i> sp.	C	*	*								*	
Limoniidae (sub family)	-					*						
Family Chironomidae												
Bloodworm <i>Chironomous</i> sp.	E		**									
Green chironomid	C	**	**	**	***	**	**	**	**	***	**	***
House/Stable flies (Muscidae)												
<i>Limnophora</i> sp.	C	*										
Biting Midge (Ceratopogonidae)	C				*	**						
Pediciidae	C		*					*				
Stratiomyidae	C						*					
<b>BETLES</b> (Coleoptera)												
Crawling water beetles (Halplidae)	C		*									
<i>Brychius elevatus</i>	C											
Riffle Beetle (Elmidae)												

Taxa/Species	Pollution Sensitivity Group	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Site 11
<i>Elmis</i> sp.	C				*			**		**	*	
<i>Limnius</i> sp.	C		*									
Minute moss beetles (Hydraenidae)												
<i>Hydraena</i> sp.	C			**				**				
<b>SNAILS</b> (Mollusca, Gastropoda)												
Family Ancyliidae												
River limpet <i>Ancylus fluviatilis</i>	C				**			**				
<b>CRUSTACEANS</b> (Crustacea)												
Amphipods (Gammaridae)												
Freshwater shrimp <i>Gammarus duebeni</i>	C	*			**			**	*****	**		**
<b>LEECHES</b> (Hirudinae)												
Erpobdellidae												
<i>Erpobdella</i> sp.	D											
Piscicolidae												
<i>Piscicola geometra</i>	C											
<b>BUGS</b> (Hemiptera)												
Broad shouldered water striders (Veliidae)												
<i>Velia</i> sp.	C	**			**							
Mesoveliidae	D						**	**				
Broad shouldered water skaters (Gerridae)												
<b>WORMS</b>												
Oligochaeta	D	*		*	*		*	*		*		
<b>NEMOTOMORPHA</b>												
Horsehair worm	-				*			**				

\*Present (1 or 2 individuals), \*\*Scarce/Few (<1%), \*\*\*Small Numbers (<5%), \*\*\*\*Fair Numbers (5-10%), \*\*\*\*\*Common (10-20%), \*\*\*\*\*Numerous (25-50%), \*\*\*\*\*Dominant (50-75%), \*\*\*\*\*Excessive (>75%)