APPENDIX

C SUMMARY OF THE NIEA SURFACE WATER STATUS OF LOCAL WATERCOURSES

APPENDIX C: Summary of Surface Water Status

Table A-1 Water bodies in the catchment and downstream of the Project and summary of their surface water status.

Name	Waterbody ID	Surface Water Status (2015)	Surface Water Status Objective 2021	Surface Water Status Objective 2027	2015 Ecological Status: Biological Elements	2015 Ecological Status: Physicochemical elements	2015 Ecological Status: Specific Pollutants	2015 Ecological Status: Hydromorphological Elements	2015 Chemical Status: Priority Substances	NOTES
Owenkillew Catchment										
Coneyglen Burn	UKGBNI1NW010102085	MODERATE	GOOD	GOOD	**Moderate**/Good/High B, M, P, **F**	High BOD, T, DO, pH, SRP	**Moderate**/Good/High NH4, As(D), Cr(D), Fe(D), **CM**, DZ, GP, L, MP, PT	Good HR, MC	Good A, Cd(D), CP, D, IP, Pb(D), Hg(d), Ni(d), S	
Owenkillew River (Glenhull)	UKGBNI1NW010102086	MODERATE	GOOD (*)	N/C (*)	Good/High B, M, P, F	Good/High BOD, T, DO, pH, SRP	**Moderate**/Good/High NH4, As(D), Cr(D), **Fe(D)**, **CM**, 24D, **DZ**, GP, L, MP, PT	Good/High HR, MC	Good A, Cd(D), CP, D, IP, Pb(D), Hg(d), Ni(d), S	
Owenkillew River (Drumlea)	UKGBNI1NW010104043	GOOD	GOOD	GOOD	Good B, M, P	High BOD, T, DO, pH, SRP	Good/High NH4, As(D), Cr(D), Fe(D)	High HR	Good Cd(D), Pb(D), Ni(D)	
Glenlark River	UKGBNI1NW010102025	GOOD	GOOD	GOOD	Good/High B, M, P	High BOD, T, DO, pH, SRP	Good/High NH4	High HR	NR -	
Owenreagh Catchment										
Owenreagh (East) River (Greencastle)	UKGBNI1NW010102091	GOOD	GOOD	GOOD	Good/High B, M, P	Good/High BOD, T, DO, pH, SRP	Good/High NH4	High HR	NR -	
Cashel Burn	UKGBNI1NW010102024	GOOD	GOOD	GOOD	Good/High B, M, P	High BOD, T, DO, pH, SRP	Good/High NH4	Good HR, MC	NR -	
Owenreagh (east) River (Drumlea)	UKGBNI1NW010104041	GOOD	GOOD	GOOD	High B, M, P	High BOD, T, DO, pH, SRP	Good NH4, As(D), Cr(D), Fe(D)	High HR	Good Cd(D), Pb(D), Ni(D)	
Glenawisk Burn	UKGBNI1NW010102023	GOOD	GOOD	GOOD	Good/High B, M, P	High BOD, T, DO, pH, SRP	Good/High NH4	Good HR, MC	NR -	
Owenkillew River (downstream of Confluence)										
Owenkillew River (Gortin)	UKGBNI1NW010102027	MODERATE	GOOD (*)	N/C (*)	High B, M, P	Moderate/High BOD, T, **DO**, pH, SRP	Good/High NH4	High HR	NR -	
Glenmacoffer Burn	UKGBNI1NW010102043	MODERATE	GOOD	GOOD	Moderate/High **B**, M, P	High BOD, T, DO, pH, SRP	Good/High NH4, As(D), Cr(D), Fe(D)	Good HR	Good Cd(D), Pb(D), Ni(D)	
Owenkillew River (Killymore)	UKGBNI1NW010102028	GOOD	GOOD	GOOD	Good/High B, M, P, F	Good/High BOD, T, DO, pH, SRP	Good/High NH4, As(D), Cr(D), Fe(D), T	Good/High HR, MC	Fail (SEE NOTE), Good Cd(D), Pb(D), Hg(D), Ni(D), B, BD, **Hg(B)**	Mercury (biota): only pilot monitoring. Not included in overall status
Mourne River to Lough Foyle										
Mourne River	UKGBNI1NW010102074	MEP	GEP	GEP	Moderate B, M, **P**, **F**	Good/High BOD, T, DO, pH, SRP	Moderate NH4, As(D), Cr(D), Fe(D), CM, 24D, DZ, GP, L, MP, PT, T, 34D, PM, P, TS	Good/High HR, MC	Good (41 determinands including all in list below excluding "Mercury - biota")	
Upper Foyle Transitional Water	UKGBNI1NW250030	MODERATE	GOOD	GOOD	Alien Species (Absent), B (Moderate), **Dissolved Inorganic Nitrogen (Poor)**, DO (High)			Hydromorphology (Moderate)		
Foyle Harbour and Faughan	UKGBNI1NW250040	MEP *This is a heavily modified water body*	MEP	GEP	Alien Species (Absent); Angiosperms (Moderate), B (Moderate), **Dissolved Inorganic Nitrogen (Poor)**, DO (High), Fish (Moderate)		Moderate	-	**Fail**	
Lough Foyle	UKGBNI1NW250	GOOD	GOOD	GOOD	Alien Species (Present); Angiosperms (Good), B (Good), Dissolved Inorganic Nitrogen (Good), DO (High)		Good/High	Hydromorphology (Good)	Good	

KEY TO ABBREVIATIONS

MEP Moderate Ecological Potential
GEP Good Ecological Potential
N/C Not confirmed

Biological
B Benthic Invertebrates
M Macrophytes
P Phytobenthos
F Fish

Physicochemical
BOD Biological Oxygen Demand (NB does not contribute to overall classification)
T Temperature (NB does not contribute to overall classification)
DO Dissolved Oxygen
pH
SRP Soluble Reactive Phosphorous

Specific Pollutants
NH4 Ammonia
As(D) Arsenic (dissolved)
Cr(D) Chromium (dissolved)
Fe(D) Iron (dissolved)
CM Cypermethrin
DZ Diazinon
GP Glyphosate
L Linuron
MP Mecoprop
PT Permethrin
24D 2,4-Dichlorophenol
T Toluene
34D 3,4-dichloroaniline
PM Pendimethalin
P Phenol
TS Triclosan

Hydromorphological
HR Hydrological Regime
MC Morphological Conditions

Priority Substances
Cd(D) Cadmium (dissolved)
Pb(D) Lead (dissolved)
Ni(D) Nickel (dissolved)
A Atrazine
CP Chlorpyriphos
D Diuron
IP Isoproturon
Hg(D) Mercury (dissolved)
S Simazine
B Benzene
BD Brominated Diphenylether
Hg(B) Mercury (biota)

Note (*):
The updated LMA for the Owenkillew has water quality objectives for these two stretches of the Owenkillew as Moderate for 2021 and 2027. The WMU however have stated that 2021 objectives for all stretches of the Owenkillew are Good for 2021. There is no confirmation of the 2027 objective

Note: Lowest of Chemical and Ecological Status highlighted in bold and underline