

Scottish Executive Development Department
Eastern Link Road – Kincardine

Summary Table

| | Assumed concentration in ditch upstream of proposed highway discharge point | Predicted concentration in ditch immediately downstream of discharge point (without mitigation) | Predicted concentration in ditch immediately downstream of discharge point (with mitigation) ^C | Environmental Quality Standard (EQS) ^{A,D} for the ditch | Assumed concentration in estuary upstream of proposed highway discharge point (based on SEPA monitoring at Alloa) | Predicted concentration in estuary immediately downstream of discharge point (without mitigation) ^E | Predicted concentration in estuary immediately downstream of discharge point (with mitigation) ^{C, E} | Environmental Quality Standard (EQS) ^{A,B} for the estuary |
|-------------------------|---|---|---|---|---|--|--|---|
| Copper (dissolved) µg/l | 11 | 70 | 58 | 22 | 2.880 | 2.881 | - | 5 |
| Zinc (total) µg/l | 350 | 645 | 425 | 700 | | | - | - |
| Zinc (dissolved) | | | | | 4.550 | 4.553 | - | 40 |

^A assuming hardness of 50 – 100mg/l CaCO₃

^B 95 percentile (i.e. if a series of samples are taken, 95% of values should be above this concentration)

^C assumes mitigation measures reduce dissolved copper concentrations in discharge by 20% and total zinc by 75%

^D annual average

^E based on a neap tide cycle