

Appendix 8.1: Shellfish and Bathing Water Quality

Standards for shellfish waters as listed in the Shellfish Waters Directive Annex I

Parameter	Guideline	Mandatory
pH	N/A	7–9
Temperature (°C)	A discharge affecting shellfish waters must not cause the temperature of the waters to exceed by more than 2°C the temperature of waters not so affected	N/A
Colouration after filtration (mg Pt/l)	N/A	A discharge affecting shellfish waters must not cause the colour of the waters after filtration to deviate by more than 10 mg Pt/l from the colour of waters not so affected
Suspended solids (mg/l)	N/A	A discharge affecting shellfish waters must not cause the suspended solid content of the waters to exceed by more than 30% the content of waters not so affected
Salinity (‰)	12 to 38‰	≤40% Discharge affecting shellfish waters must not cause their salinity to exceed by more than 10% the salinity of waters not so affected
Dissolved oxygen (Saturation %)	≥80%	≥70% (average value) Should an individual measurement indicate a value lower than 70 %, measurements shall be repeated. An individual measurement may not indicate a value of less than 60% unless there are no harmful consequences for the development of shellfish colonies
Petroleum hydrocarbons	N/A	Hydrocarbons must not be present in the shellfish water in such quantities as to: — produce a visible film on the surface of the water and/or a deposit on the shellfish, — have harmful effects on the shellfish
Organohalogenated substances	The concentration of each substance in shellfish flesh must be so limited that it contributes, in accordance with Article 1 of the Shellfish Waters Directive, to the high quality of shellfish products	The concentration of each substance in the shellfish waters or in shellfish flesh must not reach or exceed a level which has harmful effects on the shellfish and larvae
Metals mg/l <i>Silver Ag</i> <i>Arsenic As</i> <i>Cadmium Cd</i> <i>Chromium Cr</i> <i>Copper Cu</i> <i>Mercury Hg</i> <i>Nickel Ni</i> <i>Lead Pb</i> <i>Zinc Zn</i>	The concentration of each substance in shellfish flesh must be so limited that it contributes in accordance with Article 1 of the Shellfish Waters Directive, to the high quality of shellfish products	The concentration of each substance in the shellfish waters or in the shellfish flesh must not exceed a level which gives rise to harmful effects on the shellfish and their larvae. The synergic effects of these metals must be taken into consideration

Parameter	Guideline	Mandatory
Faecal coliforms (per 100 ml)	≤300 in the shellfish flesh and intervalvular liquid	N/A
Substances affecting the taste of the shellfish	N/A	Concentration lower than that liable to impair the taste of the shellfish

The status of designated bathing waters in the vicinity of Neart na Gaoithe, 2001 to 2011.

Bathing Water	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
St Andrews (West Sands)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Good
St Andrews (East Sands)	Mandatory	Mandatory	Guideline	Guideline	Guideline	Guideline	Mandatory	Mandatory	Guideline	Guideline	Good
Kingsbarns	Fail	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Mandatory	Excellent
Crail (Roome Bay)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Anstruther (Billow Ness)	Guideline*	Guideline*	Guideline*	Fail*	Guideline*	Guideline*	Guideline*	Guideline*	Guideline*	Guideline	Excellent
Elie (Ruby Bay)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Elie (Harbour) and Earlsferry	Guideline*	Guideline*	Guideline*	Guideline*	Guideline*	Guideline*	Guideline	Guideline	Mandatory	Fail	Excellent
Leven	Guideline*	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Guideline*	Mandatory	Guideline	Guideline	Excellent
Kirkcaldy (Seafield)	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Guideline*	Guideline*	Mandatory	Guideline	Mandatory	Good
Kinghorn (Harbour Beach)	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Mandatory*	Fail*	Mandatory	Mandatory	Mandatory	Good
Kinghorn (Pettycur)	Mandatory	Mandatory	Guideline	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Guideline	Excellent
Burntisland	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Aberdour (Silver Sands)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Aberdour Harbour (Black Sands)	Mandatory*	Mandatory*	Guideline*	Guideline*	Guideline*	Guideline*	Fail*	Mandatory*	Guideline*	Mandatory	Excellent
Portobello (West)	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Good
Portobello (Central)	Guideline	Guideline	Guideline	Guideline	Guideline	Mandatory	Mandatory	Fail	Guideline	Guideline	Excellent
Seton Sands	Mandatory	Mandatory	Guideline	Guideline	Mandatory	Guideline	Guideline	Mandatory	Guideline	Guideline	Good
Longniddry	Fail*	Mandatory*	Mandatory*	Guideline*	Guideline*	Guideline	Guideline	Guideline	Guideline	Guideline	Good
Gullane	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Yellowcraig	Guideline	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Guideline	Guideline	Mandatory	Excellent
Broadsands	n/s	n/s	n/s	n/s	n/s	n/s	n/s	Guideline	Guideline	Guideline	Excellent
North Berwick (West)	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Mandatory	Guideline	Mandatory	Mandatory	Excellent
North Berwick (Milsey Bay)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Mandatory	Excellent
Seacliff	n/s**	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Dunbar (Belhaven)	Guideline	Guideline	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Guideline	Guideline	Excellent
Dunbar (East)	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Mandatory	Good
Whitesands	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Guideline	Mandatory	Guideline	Guideline	Excellent

Bathing Water	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Thorntonloch	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent
Pease Bay	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Guideline	Excellent

* Years in which the site was not yet designated
 ** Access restrictions due to foot and mouth disease
 n/s Not surveyed
 Source: SEPA, 2011b.