

Site survey of environment surrounding polluted water site

A thorough understanding of an impacted site is essential before undertaking any faecal source identification programme. In fact in some instances it may eliminate the need to actually use additional tools.

Water type

| Water Type | Water site relevant to this study | Exceedances | |
|---|-----------------------------------|--------------------------------|-----------------------------|
| | | <i>E. coli</i> (CFU/100 ml) | Enterococci (CFU/100 ml) |
| River | | >500 | |
| River-recreational activities | | >200 | |
| Sea | | >500 | |
| Sea – recreational activities | | >200 | |
| Estuary | | >200 | |
| Groundwater | | >1 | |
| Groundwater as a source of drinking water | | >1 | |
| | | | |

Historical bacterial indicator results

| Site | Sampling date | Bacterial levels (CFU/100 ml) | | |
|------|---------------|-------------------------------|----------------|-------------|
| | | Faecal coliform | <i>E. coli</i> | Enterococci |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Potential Sources of faecal contamination for the water site under investigation
(tick all potential sources and indicate proximity to water sampling site)

| Potential sources of faecal contamination | Presence around site | Proximity to site | Additional comments |
|---|----------------------|-------------------|---------------------|
| Human septic tanks | | | |
| Reticulated sewage | | | |
| Stormwater drains | | | |
| Longdrop | | | |
| cow | | | |
| sheep | | | |

| | | | |
|-----------------------|--|--|--|
| Farm effluent | | | |
| Dairy | | | |
| Pig | | | |
| Chicken | | | |
| Other | | | |
| Wild bird populations | | | |
| Duck | | | |
| Gull | | | |
| Black swan | | | |
| Canada geese | | | |
| Other | | | |