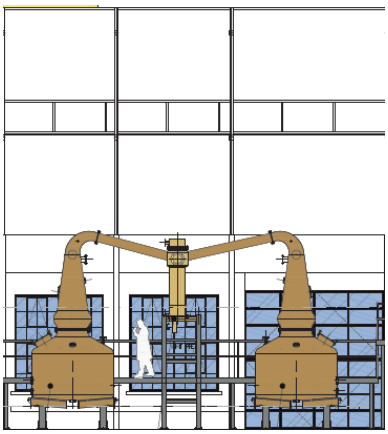
John Crabbie Distillery

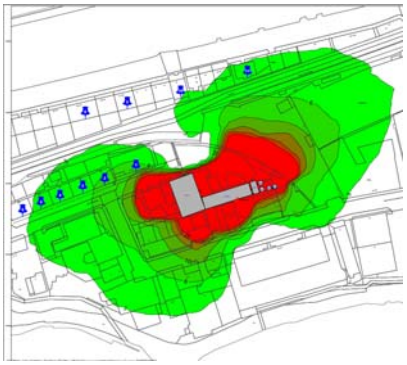


The Airshed was appointed to conduct the odour impact assessment for a proposed new distillery in Leith. The nearest residential properties were within 80m of the proposed process. The main potential odours were from the milling of grains, the mash tun and storage of waste liquors.

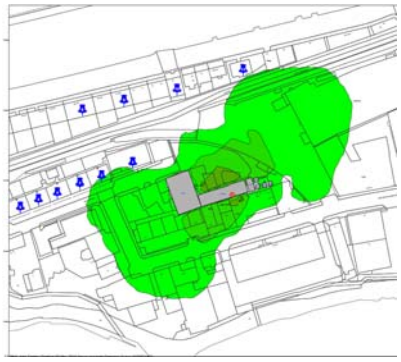
Milling to produce grist (ground down malt) was to be conducted within the mill room inside sealed vessels fitted with a bag filter to minimise the release of dust. All by-products arising e.g. draff and spent liquors from the fermentation and distillation processes were to be held in storage tanks and exported off-site by road vehicle. There was to be minimal storage of casks on-site.

A dispersion model (ADMS 5.2) was used to predict odour from the mash tun emissions using 5 years of historical meteorological data. A model sensitivity test was conducted to consider the optimal location for the mash tun vent, and the effects on dispersion of meteorological variability, surface roughness, receptor height and release height. The worst case dispersion conditions were used to predict odour impacts. A number of release Scenarios were considered to help determine the optimal location and height of the proposed stack. Odour impacts were assessed using SEPA's odour Guidance. The residual impact from the distillery was predicted to be of minor adverse significance with appropriate mitigation measures in place.

Scenario 1



Scenario 2



The Airshed

The Airshed Ltd 5 Lauder Place, East Linton EH40 3DB. Tel. 01620 860 529
email mail@theairshed.com