QUALITECH ENVIRONMENTAL SERVICES, DOCK ROAD FACILITY

EPR/BP3025SC/V003 CRM:0181015

Form C3 Question 2

All storage tank vents will be combined into a common vent header as a single emission point to air after abatement – emission point A1. The A1 grid reference is detailed in the H1 assessment.

Where the parameter is included in the H1 model the following parameters have been used in the H1 model.

Emissions monitoring has been undertaken across the waste oil industry and was reported to participating companies in Enviro-Lex report: Report of sampling of emissions to air and water arising from the treatment of used oil, July 2006. The relevant results from the Enviro-Lex monitoring campaign have been considered for this application.

The Enviro-Lex campaign reported a tank filling rate of 47.5m^3 per hour. This Qualichem waste facility will receive up to 49,000 tonnes (55,530m^3) of waste oil each year and hence emissions through displacement of the tank head space may occur for approximately 1,169 hours (13.3%) of any year. The measured emissions are shown above.

Parameter	Concentration (mg m^{-3})	Release Rate (g s^{-1})	Annual Release (kg $annum^{-1}$)
Ammonia	2.1	1.48E-06	0.115
Benzene	145	1.02E-04	7.894
Butane	99	6.98E-05	5.390
Butene	50.5	3.56E-05	2.749
Dichloromethane	164	1.16E-04	8.928
Heptane	140	9.87E-05	7.622
Hexane	124	8.74E-05	6.752
Hexene	103	7.26E-05	5.608
Hydrogen Sulphide	0.01	7.05E-09	0.001
Methylbutane	197	1.39E-04	10.726
Methylhexane	84.7	5.97E-05	4.611
Methylpentane	78.2	5.51E-05	4.258
Pentane	414	2.92E-04	22.540
Pentene	352	2.48E-04	19.164
Toluene	1050	7.40E-04	57.166
Xylenes	350	2.47E-04	19.056

All of the emissions shown above are de-minimis.