

H1 software Version number: 9 Last updated April 24





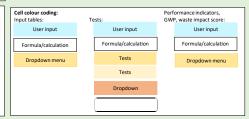
EQS Table Water

The H1 tool enables calculation of the impact of proposed substance releases to various media. It screens out from detailed assessment those releases described as "insignificant' emissions to air or deposition noto land, and for discharges to water or to sewer of effluent streams containing substances which are not "liable to cause pollution". However, for releases to air the calculation of the predicted ground level concentration is pessimistic and should not be used to determine a stack height to produce an insignificant environmental impact. Detailed modelling should be employed for this purpose. Prior to submitting an application for a new or modified permit, guidance is provided by the relevant authorising body, and this includes discussions on appropriate stack heights.

Before the start of the assessment, you have to enable macros for the tool to work.

Please start your assessment with the red button below. The tool will allow you to undertake an environmental assessment. Each page includes navigation buttons to skip through the pages and see the same page for all options.

QA sheet



Reference info

Objectives

List of BAT-AEL

EQS Table Air **Output tables** 

**START YOUR ASSESSMENT** 



Main

Enter your information in the relevant cells. Click the "Enter" key of your keyboard to go to the next field. Select your sector from the dropdown menu

## **Facility reference information**

Company name:

Qualitech Environmental Services Ltd

Location:

Dock Road, West Float, Birkenhead, CH41 1DF

Permit number:

EPR/BP3025SC

Sector:

Authorising Body:

## Describe the objectives

Depending on the reason for the assessment you will need to complete different parts of the tools

Select the type of assessment:

Environmental assessment of the releases resulting from the facility as a whole

You have selected an environmental assessment

Air	Water	Energy	Raw materials	Waste
Yes	No	No	No	No

Please select whether you have releases in the dropdown menus above

Activities	
1	Storage tank vents
2	
3	
4	
5	
6	
7	
8	
9	
10	



L	Air	release points and emissions inventory	1 of 24				1. Add release point deta	ils in the top table		User input
	Select a test to view	Water				View Air Tests	substance details	ect release point in the 1st colu		Formula/calculation  Dropdown menu
	Environmental Assess	ment								
	Release point code	Location or grid reference	Activity/Activities	Effective height (metres)	Dispersion factor (Long term)	(short term)	(monthly)	Efflux velocity (m/s)	Total flow (m3/h)	
ı	A1	SJ 30333 90726	Waste oil storage	12	26.52	496.2	28.2	10	47.5	

0.56 47.50
J.30 47.3U
0.65 47.50
0.63 47.50
0.81 47.50
0.00 47.50
5.87 47.50
2.29 47.50
0.01 47.50

Air impacts - Pollutants

Select test to view

Water

Please click on the 'import' button to import the pollutants and relevant information from the "air release points" tab.

User input
Formula/calculation
Tests

0

Environmental Assessment			]
	Number	Substance	Long
	1	Benzene	

Number	Substance	Long term EAL (ug/m3)	Long term PC (ug/m3)	Long term modelled PC	Short term EAL (ug/m3)	Short term PC (ug/m3)	Short term modelled PC
1	Benzene	5	0.006748143		30	0.560102979	
	Butane	14500	0.004503428		181000	0.64816125	
	Methylene chloride (dichloromethane)	770	0.01		2100	0.63	
	N-hexane	720	0.01		21600	0.81	
	Hydrogen sulphide	140	0.00		150	0.00	
		260	2.13				
	Toluene				8000	6.87	
	Xylene, o-, m-, p- or mixed isomers	4410	0.02		66200	2.29	
8	Ammonia	180	0.00		2500	0.01	

Air impacts - Test 1	7 of 24	Click on 'test 1' to run the test. If you change the	User input
Select test to view		information in the "air release tab", please rerun the test.	Formula/calculation
	Water		Tests
Environmental Assessment			

2 Bersene 5 0,000749143 0,11% pass 30 0,50002579 1.27% pass 2 Burne 11500 0,00159123 0,007% pass 115000 0,6161015 0,007% pass 3 Methylwine includes (dichloromenthassis) 770 0,0074640233 0,007% pass 1,007% pass 2,007% pass 2,007% pass 3,007% pass 2,007% pass 3,007% pass 3,007% pass 3,007% pass 3,007% pass 3,007% pass 4,007% pass	Number	Substance	Long term EAL (ug/m3)	Long term PC (ug/m3)	%PC of EAL (long term)	>1% of EAL? (long term)	Short term EAL (ug/m3)	Short term PC (ug/m3)	%PC of EAL (short term)	>10% of EAI (short term
3 Methylene chloride (dichloromethane)         770         0.007460223         0.00% pass         210         0.633495783         0.03% pass           4 N-hexane         720         0.005640657         0.00% pass         2160         0.811838333         0.00% pass           5 Hydrogen sulphide         140         4.54892E-07         0.00% pass         150         3.86278E-05         0.00% pass           6 Foluene         260         2.131075625         0.82% pass         8000         6.8744375         0.09% pass			5	0.006748143	0.13%	pass	30	0.560102979	1.87%	pass
4 N-hexane 720 0.005640657 0.00% pass 21600 0.81183833 0.00% pass 5 Hydrogen sulphide 140 4.54892E-07 0.00% pass 150 3.86278E-05 0.00% pass 6 Toluene 260 2.131075625 0.82% pass 8000 6.874-375 0.09% pass					0.00%	pass	181000		0.00%	pass
5 Hydrogen sulphide         140         4.54892E-07         0.00% pass         150         3.86278E-05         0.00% pass           6 Toluene         260         2.131075625         0.82% pass         8000         6.8744375         0.09% pass		3 Methylene chloride (dichloromethane)		0.007460223	0.00%	pass	2100	0.633495783	0.03%	pass
6 Toluene 260 2.131075625 0.82% pass 8000 6.8744375 0.09% pass			720		0.00%	pass		0.811838333	0.00%	pass
		5 Hydrogen sulphide		4.54892E-07	0.00%	pass			0.00%	pass
7 Nyleng, p., m., p. or mixed Scients 4410 0.01591708 0.00% pass 66200 2.291479167 0.00% pass 66200 2.29147917 0.00% pass 66200 2.291479 0.00% pass 66200 2.29147917 0.0			260							
		/ Xylene, o-, m-, p- or mixed isomers	4410	0.015921208	0.00%	pass	66200	2.2914/916/	0.00%	pass