Meat Chicken (Broiler) Farm Level 1 Odour Assessment Calculator

Instructions:-

1. Fill in the site information in the cells highlighted in white.
2. Obtain *Technical Notes: Assessment and management of odour from stationary source in NSW* from the link below:-
   http://www.environment.nsw.gov.au/resources/air/20060441notes.pdf
3. Select the most appropriate Site Factors from each of the drop down menus in the area highlighted in yellow after consulting 'Chapter 5: Broiler Chicken Farms' of the above document.
4. Type in the proposed shed size (i.e. the number of birds each shed will house) in the cell highlighted in green.
5. There are two ways the calculator can be used as follows:
   a) To calculate the number of sheds that can be built given a distance to the nearest receptor, type in the distance to the nearest residence, public building etc. in the cell highlighted in orange; or
   b) To calculate the separation distance required given a number of proposed broiler sheds, type in the number of proposed sheds in the cell highlighted in blue.
6. Calculated results are shown in the cells with the red borders. (**Please note**: Two different results are provided for the shed numbers calculated for sites where the distance to the nearest receptor is given. The 'No. of sheds allowable' figure provides the number of sheds of the size proposed in the green cell that can be constructed at the site. The 'Standard sheds allowed' figure is corrected to provide the number of standard 22,000 bird sheds permitted as used in the *Technical Notes* document).
7. If level 1 assessment calculations from this calculator are to be used to support an application for the development of a broiler chicken farm, please **print a copy** once complete and **submit it with your development application** as a supporting document.

Site Information

Property Name	Rushes Creek
Lot & DP information	
Prevailing Winds (by season)	
Summer	n n/w
Autumn	w n/w
Winter	s s/w
Spring	n/w
Site aspect	northerly
Slope (Degrees)	
Above the site	0
Below the site	0
Direction to highest risk residence(s)	s/e
Direction to nearest residence	s/e
Distance to nearest residence (Metres)	1025

Site Factors

Composite site factor (S) = S1*S2*S3*S4*S5 — 207

S1 - Shed Factor	690
Controlled fan ventilation with barriers	
S2 - Receptor Factor	0.3
Single rural residence	
S3 - Terrain Factor	1
Flat (<10% slope uphill of farm and <2% downslope & not in valley drainage zone)	
S4 - Vegetation Factor	1
Crop only, no tree cover	
S5 - Wind Frequency Factor	1
Normal wind conditions	

Proposed Shed Size*
(No. of birds per shed)
56500

Allowable Broiler Shed Numbers Given Distance to Nearest Receptor
Distance to nearest receptor
(Metres)
1025

No. of sheds* allowable	Standard sheds allowed
3.7	9.4

Separation Distance Given the Number of Broiler Sheds
Number of sheds
54
Required Separation Distance (Metres)
6867.6