



## Welsh Water - Emissions of NO2 - H1 Assessment

### Calculation of Effective Stack Height

#### Actual Stack

H (m): 11.80  
 Uact (m): 9  
 Ueff (m): 0.00

<u>Pollutant</u>	<u>Stack Height</u>	<u>NO2 ELV (mg/m<sup>3</sup>)</u>	<u>Stack Gas Volumetric Flow Rate at Stack</u>		<u>NO2 Discharge Rate (g/s)</u>	<u>Effective Stack Height (m)</u>	<u>Dispersion Factor (µg/m<sup>3</sup>/g/s)</u>		<u>Process Contribution (PC air) (µg/m<sup>3</sup>)</u>		<u>Air Quality Standard (µg/m<sup>3</sup>)</u>		<u>Process Contribution as % of AQS</u>		<u>Process Contribution Significant?</u>	
			<u>STP O2 Corrected (m<sup>3</sup>/s)</u>	<u>STP O2 Corrected (m<sup>3</sup>/s)</u>			<u>Long-term</u>	<u>Short-term</u>	<u>Long-term</u>	<u>Short-term</u>	<u>Long-term</u>	<u>Short-term</u>	<u>Long-term</u>	<u>Short-term</u>	<u>Long-term</u>	<u>Short-term</u>
NO2	9	200.000	0.420	0.420	0.084	0.00	148.00	3900.00	12.43	163.80	40	200	31.1	81.9	Yes	Yes