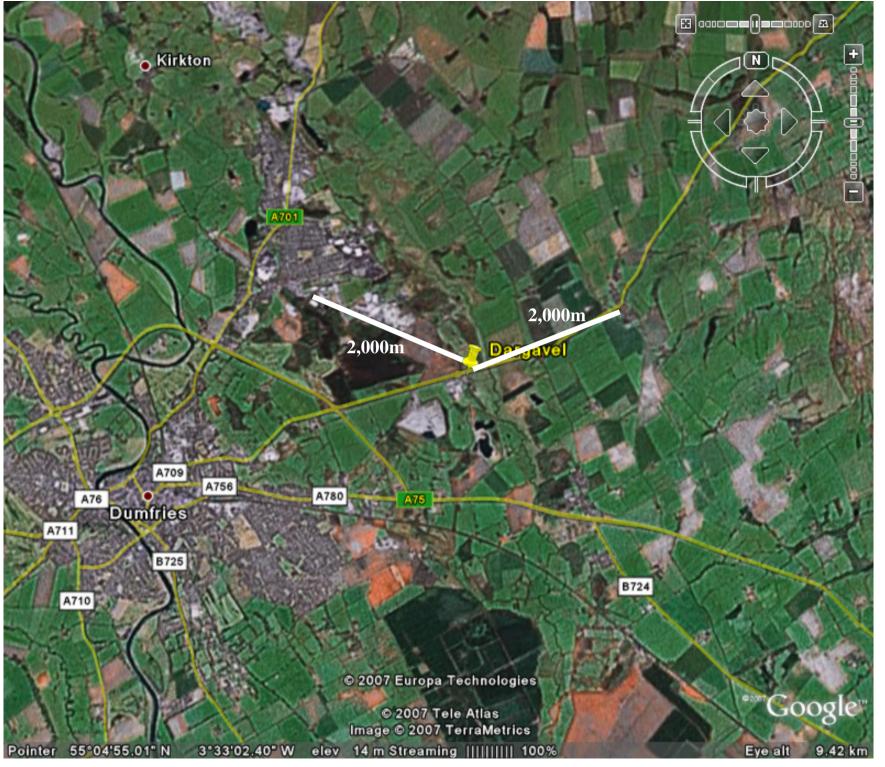


PLAN 1 RELATIVE POSITION OF PROPOSED GASIFICATION PLANT AND SCHOOL AND RESIDENTIAL AREAS IN TOCKWITH



PLAN 2 - RELATIVE POSITIONS OF DARGAVEL GASIFICATION PLANT AND RESIDENTIAL AREAS

Table	10.9 Source and	emissions data								
Item	Unit	Proposed plant								
Stack Height	m	18			TABLE 1 CALCULATION OF BCB'S ESTIMATED EMISSIONS					
Effective Internal Stack Diameter	m	1.56								
Stack Position (E,N)	m, m	44566, 45240			CILCULI	OF TOXIC SUBSTANCES				
Stack Flue Gas Exit Velocity	m/s	21			AS ANNUAL TOTALS Note: Figures in black provided by BCB in their Environmental Impact					
Flue Gas Conditions	Temperature ℃	175								
Oxygen	%v/v, dry	8				Statement, figures in Red calculated by Clive Billenness CISA				
Moisture Content	% v/v	15.85%								
Vol at reference	Nm3/s	38.4								
conditions	Nm3/h	230,059								
Vol at discharge conditions	Am3/s	40.1		Actual Cubic Metres/Sec	40.1					
	Am3/h	144498		Actual Cubic Metres/hr	144,498.0	Figures are based on 50 weeks' operation per annum (2 weeks' shutdown				
				Actual Cubic Metres/day	3,467,952.0	for planned maintenance) and that the plant will never exceed design maxima				
Emissions	Concentration at ref conditions (mg/ Nm3) @ 11% O2	(mg/m3) actual	Release Rate (g/s)	Release Rate g/hr (g/s x 3600)	Release rate g/ day	Release Rate kg/hr	Release Rate kg/day	Release Rate Metric <u>TONS</u> per annum		
Nitrogen oxides (as NO2)	35	26	1.05	3,757	90,167	3.76	90.17	31.65	Nitrogen oxides (NO2)	
Sulphur dioxide	50	37	1.49	5,346	128,314	5.35	128.31	45.04	Sulphur dioxide	
Particulates (PM10)	10		0.3	1,069	25,663	1.07	25.66	9.01	Particulates (PM	
Hydrogen Chloride	10		0.3	1,069	25,663	1.07	25.66	9.01	Hydrogen Chlorie	
Hydrogen Fluoride	1	0.74	0.03	107	2,566	0.11	2.57	0.90	Hydrogen Fluorid	
VOCs	10		0.3		25,663	1.07	25.66	9.01	VOCs	
Mercury	0.05	0.037	0.0015	5	128	0.01	0.13	0.05	Mercury	
Cadmium and Thallium	0.025	0.019	0.00075	3	66	0.00	0.07	0.02	Cadmium and Thallium	
Other Metals	0.056				146	0.01	0.15	0.05	Other Metals	
	0.0001	0.000074	0.000003	0	0	0.00	0.00	0.00	PAHs	
	0.0001									
PAHs Dioxins and Furans	0.000001			0	0	0.00	0.00	0.00	Dioxins and Fura	
		0.00000074	0.00000003		0 104,039	0.00 4.33	0.00 104.04	0.00 36.52	Dioxins and Fura Ammonia	