Appendix B.1 – Assessment of Dust Impacts

This assessment is based on the IAQM Guidance on the Assessment of Dust from Demolition and Construction – February 2014.

Table B1.1 Dust emission magnitude determination criteria and assessment for demolition activities without mitigation

Demolition Criteria	IAQM Dust Emission Magnitude			Site-specific Assessment
	Small	Medium	Large	Caernarfon
Installation Volume	<20,000m^3	20,000m^3-50,000m^3	>50,000m^3	>50,000m^3
Material Dust Potential	Metal/timber cladding, demolition activity above <10m ground, during wetter months.	Potentially dusty demolition material, activities at 10-20m above ground.	Potentially dusty demolition material. Onsite crushing e.g. concrete and screening demolition activities >20m above ground level.	There is no planned demolition of buildings.
Comments				No planned demolition
Overall Dust Emission Magnitude Rating				Small

Table B1.2 Dust emission magnitude determination criteria and assessment for earthworks activities without mitigation

Earthworks Criteria	IAQM Dust Emission Magnitude			Site-specific Assessment
	Small	Medium	Large	Caernarfon
Site Area	<2,500m^2	2,500 – 10,000m^2	>10,000m^2	Large
Soil/Material Type	Sand	Silt	Clay (dry)	Large
Earthmoving equipment	<5 veh at a time	5 – 10 veh at a time	>10 veh at a time	Large – several 10's vehicle movements
Bunds / Stockpiles	<4m high	4 – 8m high	>8m high	Large
Material Moved	<20,000 tonnes	20,000 -100,000 tonnes	>100,000 tonnes	Large – Total material excavated ~925,700m^3
Timing of Works	During wetter months	**Various conditions**	During drier months	Medium – 23 month construction program
Comments				Predominantly glacial till (clayey) Two areas of concern A: cutting to the north of the scheme, where there will be extensive removal of rock (most likely through blasting), with adjoining materials processing area. B: Afon Seiont crossing where there is more sandy soils and made ground
Overall Dust Emission Magnitude Rating				Large

Table B1.3 Dust emission magnitude determination criteria and assessment for construction activities without mitigation

Construction Criteria	IAQM Dust Emission Magnitude			Site-specific Assessment
	Small	Medium	Large	Caernarfon
Installation Volume	<25,000m^3	25,000m^3-100,000m^3	>100,000m^3	Large
Dust Potential of Construction Activities	Use of materials with low potential for dust release (e.g. metal cladding or timber)	e.g. use of dusty material such as concrete/ballast; piling	e.g. on-site concrete batching, sandblasting	Large
Comments				Installation volume is 985,900m^3, Concrete batching is likely to be setup at the main compound, concrete will be used and piling activities will happen.
Overall Dust Emission Magnitude Rating				Large

Table B1.4 Dust emission magnitude determination criteria and assessment for trackout activities without mitigation

Trackout Criteria	IAQM Dust Emission Magnitude			Site-specific Assessment
	Small	Medium	Large	Caernarfon
Number of HDV (>3.5t) per day	<10	10 – 50	>50	Large
Extent of unconsolidated surfaces (i.e. unpaved road length)	<50m	50 – 100m	>100m	Large
Surface material dust potential	Low	Moderately dusty i.e. some clay content	Potentially dusty i.e. high clay content	Large
Comments				Most HDV will be contained within the site boundary with the exception of lorries delivering surfacing materials and concrete materials. These would access the site from either the north or the south access points. All other trackout risks are from HDV crossing the road network. There is potential for extensive un paved roads.
Overall Dust Emission Class Rating				Large

Table B1.5 Outcome of the assessment of potential dust emission magnitude from construction related activities

Activity	Dust Emission Magnitude
Demolition	Small
Earthworks	Large
Construction	Large
Trackout	Large

Table B1.6 Criteria for defining the sensitivity of receptors to construction dust related impacts

Sensitivity of the Area	Human Receptor – Dust Soiling Effects	Human Receptor – Human Health Effects of PM_{10}	Ecological Receptor
High	• users can reasonably expect a enjoyment of a high level of amenity; or • the appearance, aesthetics or value of their property would be diminished by soiling; and the people or property would reasonably be expected a to be present continuously, or at least regularly for extended periods, as part of the normal pattern of use of the land. • indicative examples include dwellings, museums and other culturally important collections, medium and long term car parks and car showrooms.	• locations where members of the public are exposed over a time period relevant to the air quality objective for PM_{10} (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day). • Indicative examples include residential properties. Hospitals, schools and residential care homes should also be considered as having equal sensitivity to residential areas for the purposes of this assessment.	• locations with an international or national designation and the designated features may be affected by dust soiling; or • locations where there is a community of a particularly dust sensitive species such as vascular species included in the Red Data List For Great Britain. • indicative examples include a Special Area of Conservation (SAC) designated for acid heathlands or a local site designated for lichens adjacent to the demolition of a large site containing concrete (alkali) buildings.
Medium	• users would expect to enjoy a reasonable level of amenity, but would not reasonably expect to enjoy the same level of amenity as in their home; or • the appearance, aesthetics or value of their property could be diminished by soiling; or the people or property wouldn't reasonably be expected to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land. • indicative examples include parks and places of work.	• locations where the people exposed are workers, and exposure is over a time period relevant to the air quality objective for PM_{10} (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day). • indicative examples include office and shop workers, but will generally not include workers occupationally exposed to PM_{10}, as protection is covered by Health and Safety at Work legislation.	• locations where there is a particularly important plant species, where its dust sensitivity is uncertain or unknown; or • locations with a national designation where the features may be affected by dust deposition. • indicative example is a Site of Special Scientific Interest (SSSI) with dust sensitive features.
Low	• the enjoyment of amenity would not reasonably be expected; or • property would not reasonably be expected to be diminished in appearance, aesthetics or value by soiling; or • there is transient exposure, where the people or property would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use of the land. • indicative examples include playing fields, farmland (unless commercially-sensitive horticultural), footpaths, short term car parks and roads. a People's expectations will vary depending on the existing	• locations where the people exposed are workers, and exposure is over a time period relevant to the air quality objective for PM_{10} (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day). • indicative examples include office and shop workers, but will generally not include workers occupationally exposed to PM_{10}, as protection is covered by Health and Safety at Work legislation.	• locations with a local designation where the features may be affected by dust deposition. • indicative example is a local Nature Reserve with dust sensitive features.

Table B1.7 Criteria for the determination of the sensitivity of the area to dust soiling effects on people and property

Receptor Sensitivity	Number of Receptors	Distance from the Source (m)			
		<20	<50	<100	<350
High	>100	High	High	Medium	Low
	10-100	High	Medium	Low	Low
	1-10	Medium	Low	Low	Low
Medium	>1	Medium	Low	Low	Low
Low	>1	Low	Low	Low	Low

Table B1.8 Criteria for the determination of the sensitivity of the area to human health impacts

Receptor Sensitivity	PM_{10} background concentration	Number of Receptors	Distance from the Source (m)				
			<20	<50	<100	<200	<350
High	>32 µg/m^3	>100	High	High	High	Medium	Low
		10-100	High	High	Medium	Low	Low
		1-10	High	Medium	Low	Low	Low
	28-32 µg/m^3	>100	High	High	Medium	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	High	Medium	Low	Low	Low
	24-28 µg/m^3	>100	High	Medium	Low	Low	Low
		10-100	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	<24 µg/m^3	>100	Medium	Low	Low	Low	Low
		10-100	Low	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
Medium	-	>10	High	Medium	Low	Low	Low
	-	10-10	Medium	Low	Low	Low	Low
Low	-	>1	Low	Low	Low	Low	Low

Table B1.9 Criteria for the determination of the sensitivity of the area to ecological impacts

Receptor Sensitivity	Distance from the Source (m)	
	<20	<50
High	High	Medium
Medium	Medium	Low
Low	Low	Low

Table B1.10 Outcome of the assessment of the sensitivity of the area to construction dust impacts

Potential Impact	Sensitivity of the surrounding area			
	Demolition	Earthworks	Construction	Trackout
Dust Soiling	Low	Medium[a]/Low	Medium[a]/Low	Medium[a]/Low
Human Health	Low	Low	Low	Low
Ecological	Low	Low	Low	Low

a For selected properties only

Table B1.11 Criteria for the determination of the risk of dust impacts in the absence of mitigation

Receptor Sensitivity	Dust Emission Magnitude		
	Large	Medium	Small
Demolition			
High	High Risk	Medium Risk	Medium Risk
Medium	High Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible
Earthworks			
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible
Construction			
High	High Risk	Medium Risk	Low Risk
Medium	Low Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible
Trackout			
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Low Risk	Negligible
Low	Low Risk	Low Risk	Negligible

Table B1.12 Outcome of the assessment of the risk of dust impacts

Potential Impact	Risk			
	Demolition	Earthworks	Construction	Trackout
Dust Soiling	Negligible	Medium/low	Medium/low	Medium/low
Human Health	Negligible	Negligible	Negligible	Negligible
Ecological	Negligible	Negligible	Negligible	Negligible

Appendix B.2 – Assessment of Traffic Data

Figure B2.1 Selection of roads major modelled.

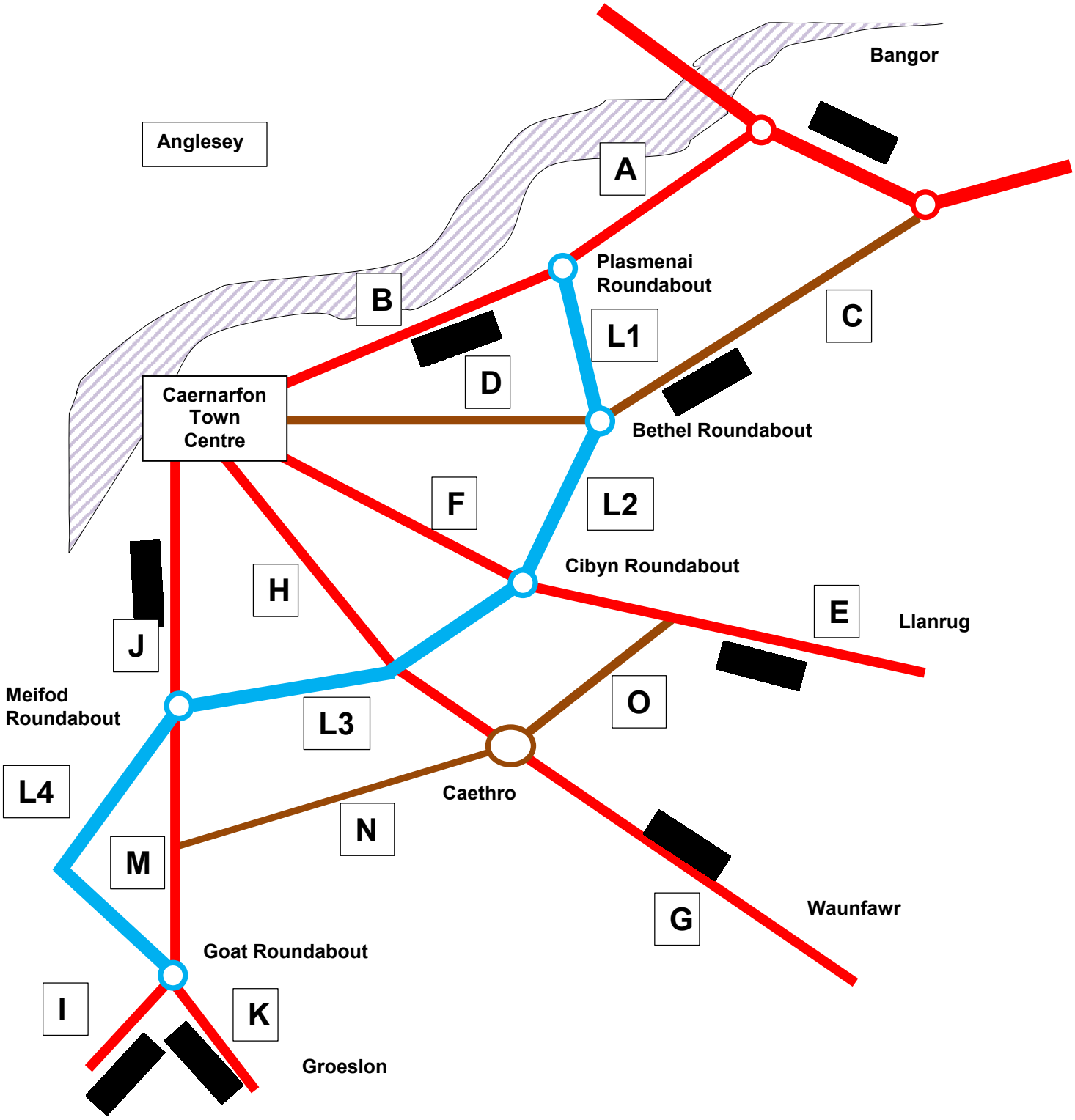
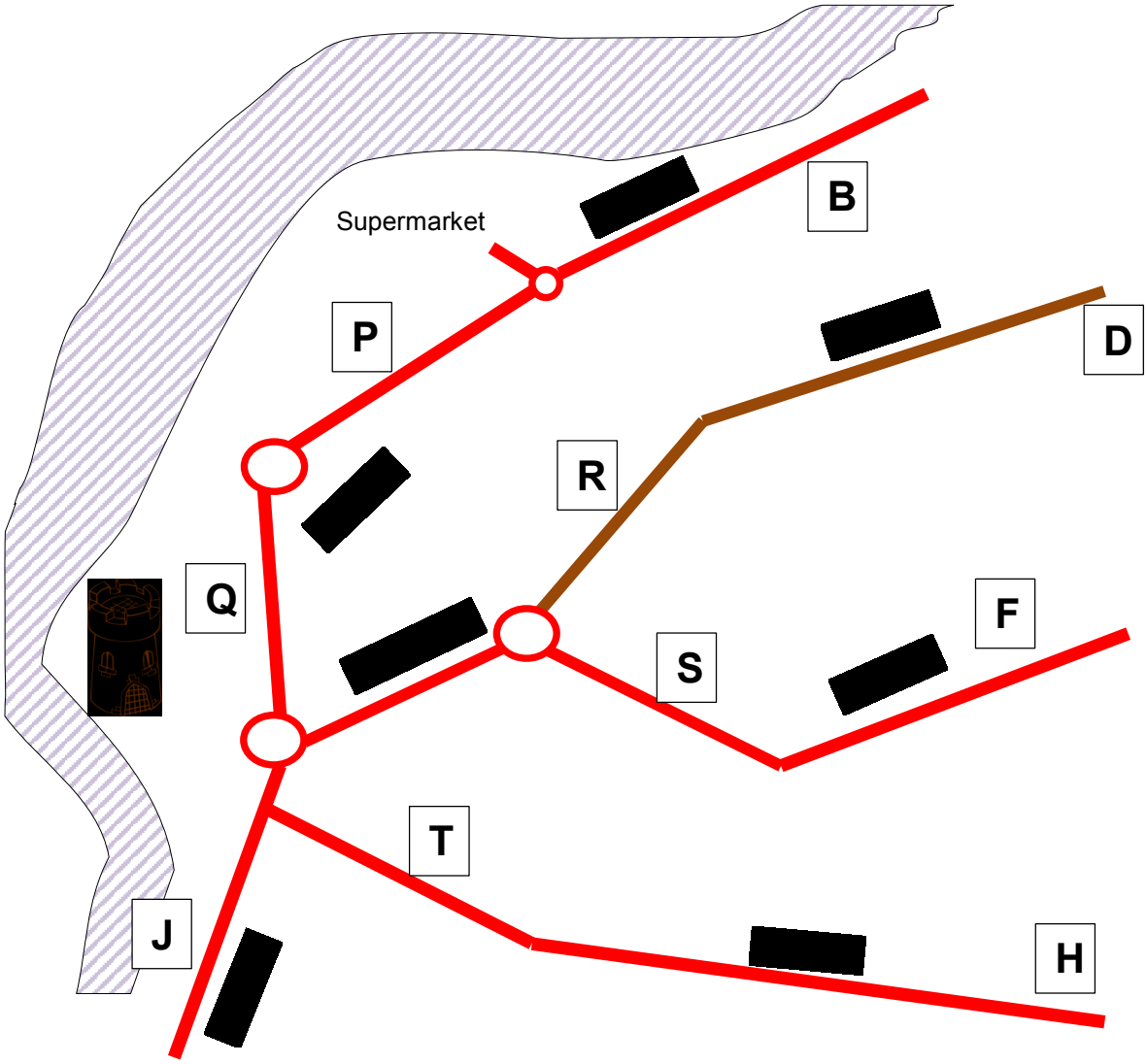


Figure B2.2 Selection of modelled roads within Town Centre.



The inputs used for this assessment were taken from the traffic assessment undertaken by Parsons Brinckerhoff LTD. The data provided for an AM and PM peak period (07:00–10:00 & 16:00-19:00 respectively), an inter-peak period (10:00-16:00) and an off peak period (19:00-07:00). Data were given as periodic flows (as well as AADT conversion factors), average speed, and a percentage of HGVs. Data were given for Baseline (2015), Do-Minimum and Do-Something scenarios (2018 and 2030).

Table B2.1 shows a selection of the traffic data provided within the air quality assessment area, as labelled in Figures B2.1 and B2.2.

Table B2.1 A selection of the traffic data provided (counts as AADT)

Key	Description	Base	DM 2018	DS 2018	DM 2030	DS 2030
A	Portion of the A487 to the North of the Plasmenai Roundabout	19895	21038	22402	22091	23733
B	Portion of the A487 to the South of the Plasmenai Roundabout	15868	16591	9327	17239	9697
C	Portion of the B4366 to the North-East of the Scheme	4079	4060	2679	4961	3371
D	Portion of the B4366 to the South-West of the Scheme	4106	3844	3045	4383	3380
E	Portion of the A4086 to the East of the Cibyn Roundabout	7961	9264	6778	10241	7319
F	Portion of the A4086 to the North-West of the Cibyn Roundabout	7452	8088	6674	8480	6865
G	Portion of the A4085 between Caethro and Waunfawr	3770	3840	3187	4047	3387
H	Portion of the A4085 to the North-West of the Scheme	3137	3261	2661	4310	3738
I	Portion of the A499 to the South of the Goat Roundabout	4175	4642	7536	5204	8116
J	Portion of the A487 to the North of the Goat Roundabout	16727	17441	10294	18330	10831
K	Portion of the A487 to the South of the Goat Roundabout	10329	10543	11172	10695	11975
L1	Northern portion of the Scheme, between Plasmenai Roundabout and Bethel Roundabout	-	-	13165	-	14130
L2	Central portion of the Scheme, between Bethel Roundabout and Cibyn Roundabout	-	-	6311	-	6671
L3	Central portion of the Scheme, between Cibyn Roundabout and Meifod Roundabout	-	-	7451	-	8190
L4	Southern portion of the Scheme, between Meifod Roundabout and the Goat Roundabout	-	-	17718	-	19079
M	Portion of the A499 between Meifod Roundabout and the Goat Roundabout	19343	20385	5456	21725	5801
N	Minor Road from Bont Newydd to Caethro	4238	4672	688	5417	900
O	Minor Road from Caethro to Pont-rug	4636	5047	1533	5681	1748
P	Portion of the A487 approaching Town Centre, opposite Supermarket	18126	18859	11740	19767	12527
Q	Portion of the A487 along Twt Hill	19111	19904	13058	21152	14106
R	B4366 approaching Tanrallt/A4086 junction	3962	4081	3373	4549	3635
S	Ffordd Llanberis/A4086 West of the Roundabout with the B4366	7216	7635	6620	8175	6895
T	Ffordd Cwstenin/A4086 approaching Town Centre	5464	5658	4822	6832	5997

Table B2.2 A selection of the traffic data provided (as HGV percentage)

Key	Description	Base	DM 2018	DS 2018	DM 2030	DS 2030
A	Portion of the A487 to the North of the Plasmenai Roundabout	8.1%	7.8%	8.0%	8.6%	8.8%
B	Portion of the A487 to the South of the Plasmenai Roundabout	5.5%	5.3%	3.3%	5.9%	3.7%
C	Portion of the B4366 to the North-East of the Scheme	11.3%	11.9%	12.2%	12.4%	13.3%
D	Portion of the B4366 to the South-West of the Scheme	5.0%	5.4%	3.3%	5.3%	3.6%
E	Portion of the A4086 to the East of the Cibyn Roundabout	11.6%	10.4%	8.6%	11.1%	10.2%
F	Portion of the A4086 to the North-West of the Cibyn Roundabout	10.1%	9.6%	5.9%	10.9%	6.9%
G	Portion of the A4085 between Caethro and Waunfawr	3.1%	3.2%	3.8%	3.8%	4.3%
H	Portion of the A4085 to the North-West of the Scheme	0.5%	0.5%	0.6%	0.6%	0.5%
I	Portion of the A499 to the South of the Goat Roundabout	2.1%	1.9%	3.0%	2.1%	4.6%
J	Portion of the A487 to the North of the Goat Roundabout	7.8%	7.6%	3.2%	8.2%	3.7%
K	Portion of the A487 to the South of the Goat Roundabout	11.4%	11.3%	14.1%	12.8%	14.3%
L1	Northern portion of the Scheme, between Plasmenai Roundabout and Bethel Roundabout	-	-	10.7%	-	11.4%
L2	Central portion of the Scheme, between Bethel Roundabout and Cibyn Roundabout	-	-	10.1%	-	11.2%
L3	Central portion of the Scheme, between Cibyn Roundabout and Meifod Roundabout	-	-	11.2%	-	12.1%
L4	Southern portion of the Scheme, between Meifod Roundabout and the Goat Roundabout	-	-	10.2%	-	11.0%
M	Portion of the A499 between Meifod Roundabout and the Goat Roundabout	7.5%	7.4%	1.5%	8.2%	1.7%
N	Minor Road from Bont Newydd to Caethro	5.2%	5.3%	0.0%	6.3%	0.0%
O	Minor Road from Caethro to Pont-rug	7.1%	7.1%	8.0%	8.2%	8.3%
P	Portion of the A487 approaching Town Centre, opposite Supermarket	4.8%	4.7%	2.6%	5.1%	2.9%
Q	Portion of the A487 along Twt Hill	4.5%	4.4%	2.4%	4.7%	2.6%
R	B4366 approaching Tanrallt/A4086 junction	4.0%	3.9%	1.5%	4.0%	1.7%
S	Ffordd Llanberis/A4086 West of the Roundabout with the B4366	8.6%	8.4%	4.8%	9.3%	5.4%
T	Ffordd Cwstenin/A4086 approaching Town Centre	0.3%	0.3%	0.3%	0.4%	0.3%

Appendix B.3 – Modelling Methodology and Verification

Appendix B3 Modelling methodology and verification

- Detailed air quality modelling has been undertaken within the study area, using the ADMS-Roads 3.2 dispersion model.
- Detailed modelling has been undertaken for nitrogen dioxide for the Baseline (2015), Do minimum and do something scenarios for the operations years of 2018 and 2030.
- The methodology and input parameters used for the detailed modelling were:
    - All roads within the study area were digitised from the centreline data provided by OS maps.
    - Vehicle emissions on each road link were calculated using the latest emissions and vehicle profiles, provided by Defra (Interim Advice Note) as a function of year and also, for nitrogen oxides only, with emissions varied from 2014 to 2030 i.e. assuming improvement in emissions per vehicle over time.
    - Traffic data were provided by Parsons Brinckerhoff traffic engineers, as peak data. The data are consistent with data provided in the Transport Assessment for the scheme.
    - The data provided for each time period comprised
        - Hourly AM and PM peak traffic flows (with AADT conversion factor)
        - Fleet mix (as count per vehicle type)
    - Flows were assigned using the Actual Traffic Count (ATC) flow distributions
    - Annual mean nitrogen dioxide concentrations were calculated, for all scenarios, at the facades of the sensitive (residential) receptors in the Air Quality Assessment Area.
    - Meteorological data from RAF Valley (Anglesey) for 2014 have been used in the modelling.
    - Background pollutant concentrations for nitrogen oxides and particulate matter were taken from the Defra mapped data, with the major roads sectors removed, for 2014, 2018 and 2030 as appropriate. The 1km x 1km mapped averages were linearly interpolated to the individual receptor locations.
    - Defra's Emissions Factors Toolkit provides vehicle emissions factors for nitrogen oxides. For comparison with the air quality objectives, the conversion of nitrogen oxide (NO_x) to nitrogen dioxide (NO_2) must be taken into account. The modelled NO_x concentrations were converted to NO_2 using the updated methodology and calculator for computing roadside and total nitrogen dioxide. In using the calculator, Gwynedd has been selected as the relevant local authority and the fraction of nitrogen oxides emitted as primary nitrogen dioxide has been based on the default parameters for Rural UK traffic.
    - The model results for the baseline year in the detailed modelling were verified against monitored data. All results in the report are presented as verified data. The verification methodology is provided below.
- Dispersion modelling is an inherently uncertain procedure with potential errors in the model output arising from either, or both, systematic or random errors.
- Systematic errors occur where a distinct trend is apparent in the model output i.e. a tendency to under or over predict known values. This type of error may arise where emissions have been underestimated, or unrepresentative meteorological data used. Whilst it is rarely possible to identify a specific reason for the systematic error, the errors can be quantified and allowed for by comparing modelled concentrations against monitored concentrations in order to derive a scaling factor. Monitored data itself has an associated uncertainty. Therefore, in

the adjustment for systematic errors, it is best to calculate the scaling factor using the most appropriate monitoring sites in the area.

- Random errors, as the name suggests, do not show a distinct trend and result in a scatter of modelled concentrations about monitored data even after an allowance for systematic error has been made. The degree of uncertainty i.e. random error, in the model results may be estimated by calculating the standard deviation of the verified modelled results.
- Since the correction of the modelled results relates to the road-side component of the pollutant only, the scaling factor is calculated by first removing the background contribution to the monitored and modelled concentrations and then comparing the roadside components only.
- Following the methodology set out in LAQM TG(09), the verification is based on roadside nitrogen oxides. The Defra LAQM NO_X to NO_2 calculator has been used to calculate the roadside NO_X from the diffusion tube data.
- The model verification was based on roadside monitoring using NO_2 and NO_x diffusion tubes within the Air Quality Assessment Area – this is discussed further in Appendix B4.

The modelling showed consistent under prediction of concentrations at all sites. However the under prediction of monitored concentrations at certain receptors were more prominent that others. This may occur for a number of reasons, i.e. the influence of gradient on the emission rates of the traffic flow, a greater degree of stop-start traffic with higher emissions than would be expected, and the influence of street canyoning which leads to reduced dispersion at the roadside (although efforts were made to account for this within the model). Therefore, two verification factors were applied; a list of all of the receptors (human, monitored and ecological) considered and their respective verification factors are given in table B3.1, below. This ensured a conservative estimate of impacts on human health.

Table B3.1 – Verification factors by Receptor

Receptor name	X	Y	Verification Factor
001_A	255585	369479	3.75
002_A	255236	369365	3.75
003_A	252623	367333	3.75
004_A	252231	366504	3.75
005_A	248202	363537	3.75
006_B	250258	365484	3.75
007_B	249775	365073	3.75
008_B	248768	363988	3.75
009_B	248246	363287	6.41
010_B	248233	363256	3.75
011_B	248143	363087	3.75
012_C	259290	369152	3.75
013_C	258253	367413	3.75
014_C	255821	366871	3.75
015_C	254141	366020	3.75
016_C	252758	365393	3.75
017_C	252157	365203	3.75
018_D	250739	364463	3.75
019_D	249898	364160	3.75

Receptor name	X	Y	Verification Factor
020_D	249135	363563	3.75
021_D	248553	363109	3.75
022_E	252802	363404	3.75
023_E	252308	363386	3.75
024_E	251639	363248	3.75
025_E	251359	363120	3.75
026_E	251225	363385	3.75
027_F	249578	362919	3.75
028_F	249155	362746	3.75
029_F	248754	362758	3.75
030_F	248596	362769	3.75
031_G	253776	357344	3.75
032_G	252503	359296	3.75
033_G	251861	359881	3.75
034_G	251041	361230	3.75
035_G	250343	361572	3.75
036_H	248938	362116	3.75
037_H	248667	362262	3.75
038_H	248554	362371	3.75
039_H	248326	362504	3.75
040_I	245238	355397	3.75
041_I	245760	356208	3.75
042_I	246695	356978	6.41
043_I	247000	357331	6.41
044_J	247578	358341	6.41
045_J	247801	358600	6.41
046_J	248107	359008	6.41
047_J	248152	359518	6.41
048_J	248282	359950	3.75
049_J	248319	360236	6.41
050_J	248323	360983	3.75
051_J	248338	361335	3.75
052_J	248259	362211	3.75
053_J	248238	362334	3.75
054_J	248237	362465	3.75
055_K	247190	355436	3.75
056_K	247223	355954	3.75
057_K	247438	356383	3.75
058_K	247195	357334	3.75
059_L	247217	357620	3.75
060_L	247320	357791	3.75
061_L	247091	358227	3.75
062_L	247229	358629	3.75
063_L	247551	360029	6.41
064_L	248966	360993	3.75
065_L	249249	361200	3.75

Receptor name	X	Y	Verification Factor
066_L	249659	361421	3.75
067_L	249640	361787	3.75
068_L	249412	361950	3.75
069_L	249860	362284	3.75
070_L	250555	363346	3.75
071_L	250559	363357	3.75
072_L	250540	363605	3.75
073_L	251265	363632	3.75
074_L	251158	363765	3.75
075_L	250682	364259	3.75
076_L	250454	365742	3.75
077_L	250671	365959	3.75
078_M	248669	360182	3.75
079_M	249041	360527	6.41
080_M	249231	360805	3.75
081_M	249598	361310	3.75
082_N	250230	361877	6.41
083_N	250459	362065	6.41
084_N	250682	362400	6.41
085_N	251050	362763	6.41
DT_01	251811	366256	3.75
DT_02	250491	365776	3.75
DT_03	250544	365796	3.75
DT_04	249786	365102	6.41
DT_05	249778	365111	6.41
DT_06	248784	364000	3.75
DT_07	248765	363958	3.75
DT_08	248220	362750	3.75
DT_09	248155	362737	3.75
DT_10	250730	364476	3.75
DT_11	250864	364467	3.75
DT_12	250911	364484	3.75
DT_13	251196	363716	3.75
DT_14	250911	363207	3.75
DT_15	250994	362741	6.41
DT_16	250696	362422	6.41
DT_17	250430	361587	3.75
DT_18	250073	361228	3.75
DT_19	250101	361716	6.41
DT_20	250068	361733	3.75
DT_21	249223	362064	3.75
DT_22	249199	362054	3.75
DT_23	248252	362332	6.41
DT_24_NOx	248253	362162	3.75
DT_25	248236	361605	3.75
DT_26_NOx	248363	361417	6.41

Receptor name	X	Y	Verification Factor
DT_27	248289	360154	3.75
DT_28	248313	360207	3.75
DT_29	248605	360168	6.41
DT_30	248827	360300	6.41
DT_31	248278	359832	3.75
DT_32	248247	359801	3.75
DT_33	247670	358423	3.75
DT_34	247639	358403	3.75
DT_35	247322	357786	3.75
DT_36	247214	357669	6.41
DT_37	246753	357020	6.41
DT_38	250424	363672	3.75
DT_39	249143	360825	3.75
DT_40	247149	355967	3.75
T1_Glynllifon_0	247151	355730	3.75
T1_Glynllifon_5	247146	355730	3.75
T1_Glynllifon_10	247141	355730	3.75
T1_Glynllifon_15	247136	355731	3.75
T1_Glynllifon_20	247131	355731	3.75
T1_Glynllifon_25	247126	355731	3.75
T1_Glynllifon_30	247121	355732	3.75
T1_Glynllifon_35	247116	355732	3.75
T1_Glynllifon_40	247111	355732	3.75
T1_Glynllifon_45	247106	355733	3.75
T1_Glynllifon_50	247101	355733	3.75
T1_Glynllifon_55	247096	355733	3.75
T1_Glynllifon_60	247091	355733	3.75
T1_Glynllifon_65	247086	355734	3.75
T1_Glynllifon_70	247081	355734	3.75
T1_Glynllifon_75	247076	355734	3.75
T1_Glynllifon_80	247071	355735	3.75
T1_Glynllifon_85	247066	355735	3.75
T1_Glynllifon_90	247061	355735	3.75
T1_Glynllifon_95	247056	355736	3.75
T1_Glynllifon_100	247051	355736	3.75
T1_Glynllifon_105	247046	355736	3.75
T1_Glynllifon_110	247041	355736	3.75
T1_Glynllifon_115	247036	355737	3.75
T1_Glynllifon_120	247031	355737	3.75
T1_Glynllifon_125	247026	355737	3.75
T1_Glynllifon_130	247021	355738	3.75
T1_Glynllifon_135	247016	355738	3.75
T1_Glynllifon_140	247011	355738	3.75
T1_Glynllifon_145	247006	355739	3.75
T1_Glynllifon_150	247001	355739	3.75
T1_Glynllifon_155	246996	355739	3.75

Receptor name	X	Y	Verification Factor
T1_Glynllifon_160	246991	355739	3.75
T1_Glynllifon_165	246986	355740	3.75
T1_Glynllifon_170	246981	355740	3.75
T1_Glynllifon_175	246976	355740	3.75
T1_Glynllifon_180	246971	355741	3.75
T1_Glynllifon_185	246966	355741	3.75
T1_Glynllifon_190	246961	355741	3.75
T1_Glynllifon_195	246956	355742	3.75
T1_Glynllifon_200	246951	355742	3.75
T2_Glynllifon_0	245627	356082	6.41
T2_Glynllifon_5	245631	356080	6.41
T2_Glynllifon_10	245636	356078	6.41
T2_Glynllifon_15	245640	356076	6.41
T2_Glynllifon_20	245645	356075	6.41
T2_Glynllifon_25	245650	356073	6.41
T2_Glynllifon_30	245654	356071	6.41
T2_Glynllifon_35	245659	356069	6.41
T2_Glynllifon_40	245663	356067	6.41
T2_Glynllifon_45	245668	356065	6.41
T2_Glynllifon_50	245673	356063	6.41
T2_Glynllifon_55	245677	356061	6.41
T2_Glynllifon_60	245682	356059	6.41
T2_Glynllifon_65	245687	356057	6.41
T2_Glynllifon_70	245691	356055	6.41
T2_Glynllifon_75	245696	356053	6.41
T2_Glynllifon_80	245700	356051	6.41
T2_Glynllifon_85	245705	356049	6.41
T2_Glynllifon_90	245710	356047	6.41
T2_Glynllifon_95	245714	356045	6.41
T2_Glynllifon_100	245719	356044	6.41
T2_Glynllifon_105	245723	356042	6.41
T2_Glynllifon_110	245728	356040	6.41
T2_Glynllifon_115	245733	356038	6.41
T2_Glynllifon_120	245737	356036	6.41
T2_Glynllifon_125	245742	356034	6.41
T2_Glynllifon_130	245746	356032	6.41
T2_Glynllifon_135	245751	356030	6.41
T2_Glynllifon_140	245756	356028	6.41
T2_Glynllifon_145	245760	356026	6.41
T2_Glynllifon_150	245765	356024	6.41
T2_Glynllifon_155	245769	356022	6.41
T2_Glynllifon_160	245774	356020	6.41
T2_Glynllifon_165	245779	356018	6.41
T2_Glynllifon_170	245783	356016	6.41
T2_Glynllifon_175	245788	356015	6.41
T2_Glynllifon_180	245793	356013	6.41

Receptor name	X	Y	Verification Factor
T2_Glynllifon_185	245797	356011	6.41
T2_Glynllifon_190	245802	356009	6.41
T2_Glynllifon_195	245806	356007	6.41
T3_Afon Gwyrfai_0	248288	359867	3.75
T3_Afon Gwyrfai_5	248293	359867	3.75
T3_Afon Gwyrfai_10	248298	359867	3.75
T3_Afon Gwyrfai_15	248303	359867	3.75
T3_Afon Gwyrfai_20	248308	359867	3.75
T3_Afon Gwyrfai_25	248313	359867	3.75
T3_Afon Gwyrfai_30	248318	359867	3.75
T3_Afon Gwyrfai_35	248323	359867	3.75
T3_Afon Gwyrfai_40	248328	359867	3.75
T3_Afon Gwyrfai_45	248333	359867	3.75
T3_Afon Gwyrfai_50	248338	359867	3.75
T3_Afon Gwyrfai_55	248343	359867	3.75
T3_Afon Gwyrfai_-5	248278	359867	3.75
T3_Afon Gwyrfai_-10	248273	359867	3.75
T3_Afon Gwyrfai_-15	248268	359867	3.75
T3_Afon Gwyrfai_-20	248263	359867	3.75
T3_Afon Gwyrfai_-25	248258	359867	3.75
T3_Afon Gwyrfai_-30	248253	359867	3.75
T3_Afon Gwyrfai_-35	248248	359867	3.75
T3_Afon Gwyrfai_-40	248243	359867	3.75
T4_Afon Gwyrfai_0	247302	359749	3.75
T4_Afon Gwyrfai_5	247297	359749	3.75
T4_Afon Gwyrfai_10	247292	359749	3.75
T4_Afon Gwyrfai_15	247287	359749	3.75
T4_Afon Gwyrfai_20	247282	359749	3.75
T4_Afon Gwyrfai_25	247277	359749	3.75
T4_Afon Gwyrfai_-5	247322	359749	3.75
T4_Afon Gwyrfai_-10	247327	359749	3.75
T4_Afon Gwyrfai_-15	247332	359749	3.75
T4_Afon Gwyrfai_-20	247337	359749	3.75
T5_Afon Gwyrfai_0	246540	359429	3.75
T5_Afon Gwyrfai_5	246535	359429	3.75
T5_Afon Gwyrfai_10	246530	359429	3.75
T5_Afon Gwyrfai_15	246525	359429	3.75
T5_Afon Gwyrfai_20	246520	359429	3.75
T5_Afon Gwyrfai_25	246515	359429	3.75
T5_Afon Gwyrfai_30	246510	359429	3.75
T5_Afon Gwyrfai_35	246505	359429	3.75
T5_Afon Gwyrfai_40	246500	359429	3.75
T5_Afon Gwyrfai_45	246495	359429	3.75
T5_Afon Gwyrfai_50	246490	359429	3.75
T5_Afon Gwyrfai_-5	246550	359429	3.75
T5_Afon Gwyrfai_-10	246555	359429	3.75

Receptor name	X	Y	Verification Factor
T5_Afon Gwyrfai_-15	246560	359429	3.75
T5_Afon Gwyrfai_-20	246565	359429	3.75
T5_Afon Gwyrfai_-25	246570	359429	3.75
T5_Afon Gwyrfai_-30	246575	359429	3.75
T5_Afon Gwyrfai_-35	246580	359429	3.75
T5_Afon Gwyrfai_-40	246585	359429	3.75
T6_Afon Gwyrfai_0	252621	358971	3.75
T6_Afon Gwyrfai_5	252626	358971	3.75
T6_Afon Gwyrfai_10	252631	358971	3.75
T6_Afon Gwyrfai_15	252636	358971	3.75
T6_Afon Gwyrfai_20	252641	358971	3.75
T6_Afon Gwyrfai_25	252646	358971	3.75
T6_Afon Gwyrfai_30	252651	358971	3.75
T6_Afon Gwyrfai_35	252656	358971	3.75
T6_Afon Gwyrfai_40	252661	358971	3.75
T6_Afon Gwyrfai_45	252666	358971	3.75
T6_Afon Gwyrfai_50	252671	358971	3.75
T6_Afon Gwyrfai_55	252676	358971	3.75
T6_Afon Gwyrfai_60	252681	358971	3.75
T6_Afon Gwyrfai_65	252686	358971	3.75
T6_Afon Gwyrfai_70	252691	358971	3.75
T6_Afon Gwyrfai_75	252696	358971	3.75
T6_Afon Gwyrfai_80	252701	358971	3.75
T6_Afon Gwyrfai_85	252706	358971	3.75
T6_Afon Gwyrfai_90	252711	358971	3.75
T6_Afon Gwyrfai_95	252716	358971	3.75
T6_Afon Gwyrfai_100	252721	358971	3.75
T6_Afon Gwyrfai_105	252726	358971	3.75
T6_Afon Gwyrfai_110	252731	358971	3.75
T6_Afon Gwyrfai_115	252736	358971	3.75
T6_Afon Gwyrfai_120	252741	358971	3.75
T6_Afon Gwyrfai_125	252746	358971	3.75
T6_Afon Gwyrfai_130	252751	358971	3.75
T6_Afon Gwyrfai_135	252756	358971	3.75
T6_Afon Gwyrfai_140	252761	358971	3.75
T6_Afon Gwyrfai_145	252766	358971	3.75
T6_Afon Gwyrfai_150	252771	358971	3.75
T6_Afon Gwyrfai_155	252776	358971	3.75
T6_Afon Gwyrfai_160	252781	358971	3.75
T6_Afon Gwyrfai_165	252786	358971	3.75
T6_Afon Gwyrfai_170	252791	358971	3.75
T6_Afon Gwyrfai_175	252796	358971	3.75
T6_Afon Gwyrfai_180	252801	358971	3.75
T6_Afon Gwyrfai_185	252806	358971	3.75
T6_Afon Gwyrfai_190	252811	358971	3.75
T6_Afon Gwyrfai_195	252816	358971	3.75

Receptor name	X	Y	Verification Factor
T6_Afon Gwyrfai_-5	252821	358971	3.75
T6_Afon Gwyrfai_-10	252826	358971	3.75
T6_Afon Gwyrfai_-15	252831	358971	3.75
T6_Afon Gwyrfai_-20	252836	358971	3.75
T6_Afon Gwyrfai_-25	252841	358971	3.75
T6_Afon Gwyrfai_-30	252611	358971	3.75
T6_Afon Gwyrfai_-35	252606	358971	3.75
T6_Afon Gwyrfai_-40	252601	358971	3.75
T6_Afon Gwyrfai_-45	252596	358971	3.75
T6_Afon Gwyrfai_-50	252591	358971	3.75
T6_Afon Gwyrfai_-55	252586	358971	3.75
T6_Afon Gwyrfai_-60	252581	358971	3.75
T6_Afon Gwyrfai_-65	252576	358971	3.75
T6_Afon Gwyrfai_-70	252571	358971	3.75
T6_Afon Gwyrfai_-75	252566	358971	3.75
T6_Afon Gwyrfai_-80	252561	358971	3.75
T6_Afon Gwyrfai_-85	252556	358971	3.75
T6_Afon Gwyrfai_-90	252551	358971	3.75
T6_Afon Gwyrfai_-95	252546	358971	3.75
T6_Afon Gwyrfai_-100	252541	358971	3.75
T6_Afon Gwyrfai_-105	252536	358971	3.75
T6_Afon Gwyrfai_-110	252531	358971	3.75
T6_Afon Gwyrfai_-115	252526	358971	3.75
T6_Afon Gwyrfai_-120	252521	358971	3.75
T6_Afon Gwyrfai_-125	252516	358971	3.75
T6_Afon Gwyrfai_-130	252511	358971	3.75
T6_Afon Gwyrfai_-135	252506	358971	3.75
T6_Afon Gwyrfai_-140	252501	358971	3.75
T6_Afon Gwyrfai_-145	252496	358971	3.75
T6_Afon Gwyrfai_-150	252491	358971	3.75
T6_Afon Gwyrfai_-155	252486	358971	3.75
T6_Afon Gwyrfai_-160	252481	358971	3.75
T6_Afon Gwyrfai_-165	252476	358971	3.75
T6_Afon Gwyrfai_-170	252471	358971	3.75
T6_Afon Gwyrfai_-175	252466	358971	3.75
T6_Afon Gwyrfai_-180	252461	358971	3.75
T6_Afon Gwyrfai_-185	252456	358971	3.75
T6_Afon Gwyrfai_-190	252451	358971	3.75
T7_Pant Cae Haidd_0	251529	360271	3.75
T7_Pant Cae Haidd_5	251534	360271	3.75
T7_Pant Cae Haidd_10	251539	360271	3.75
T7_Pant Cae Haidd_15	251544	360271	3.75
T7_Pant Cae Haidd_20	251549	360271	3.75
T7_Pant Cae Haidd_25	251554	360271	3.75
T7_Pant Cae Haidd_30	251559	360271	3.75
T7_Pant Cae Haidd_35	251564	360271	3.75

Receptor name	X	Y	Verification Factor
T7_Pant Cae Haidd_40	251569	360271	3.75
T7_Pant Cae Haidd_45	251574	360271	3.75
T7_Pant Cae Haidd_50	251579	360271	3.75
T7_Pant Cae Haidd_55	251584	360271	3.75
T7_Pant Cae Haidd_60	251589	360271	3.75
T7_Pant Cae Haidd_65	251594	360271	3.75
T7_Pant Cae Haidd_70	251599	360271	3.75
T7_Pant Cae Haidd_75	251604	360271	3.75
T7_Pant Cae Haidd_80	251609	360271	3.75
T7_Pant Cae Haidd_85	251614	360271	3.75
T7_Pant Cae Haidd_90	251619	360271	3.75
T7_Pant Cae Haidd_95	251624	360271	3.75
T7_Pant Cae Haidd_100	251629	360271	3.75
T7_Pant Cae Haidd_105	251634	360271	3.75
T7_Pant Cae Haidd_110	251639	360271	3.75
T7_Pant Cae Haidd_115	251644	360271	3.75
T7_Pant Cae Haidd_120	251649	360271	3.75
T7_Pant Cae Haidd_125	251654	360271	3.75
T7_Pant Cae Haidd_130	251659	360271	3.75
T7_Pant Cae Haidd_135	251664	360271	3.75
T7_Pant Cae Haidd_140	251669	360271	3.75
T7_Pant Cae Haidd_145	251674	360271	3.75
T7_Pant Cae Haidd_150	251679	360271	3.75
T7_Pant Cae Haidd_155	251684	360271	3.75
T7_Pant Cae Haidd_160	251689	360271	3.75
T7_Pant Cae Haidd_165	251694	360271	3.75
T7_Pant Cae Haidd_170	251699	360271	3.75
T7_Pant Cae Haidd_175	251704	360271	3.75
T7_Pant Cae Haidd_180	251709	360271	3.75
T7_Pant Cae Haidd_185	251714	360271	3.75
T7_Pant Cae Haidd_190	251719	360271	3.75
T7_Pant Cae Haidd_195	251724	360271	3.75
T7_Pant Cae Haidd_200	251729	360271	3.75

Figure B3.1 and B3.2, below, show the final two stages of the verification process. The verification factors the table above were applied to all results before using the Defra LAQM NOX to NO2 calculator to calculate the NO2 concentration at each receptor. This shows a good fit of results, with an R^2 of 0.8225.

Once the model results were extracted, the NO_x values were processed according to the DMRB guidance set out in Interim Advice Note 170/12 v3 using the Highways Agency Long Term Gap Analysis Calculator v1.0. The assessment years were set to 2018 and 2030 respectively. For completeness, both the adjusted and unadjusted results have been included in Appendix B5 of this report.

Figure B3.1 Comparison of modelled versus monitored road contribution to annual mean nitrogen oxides showing the best line fit through the location used for model verification.

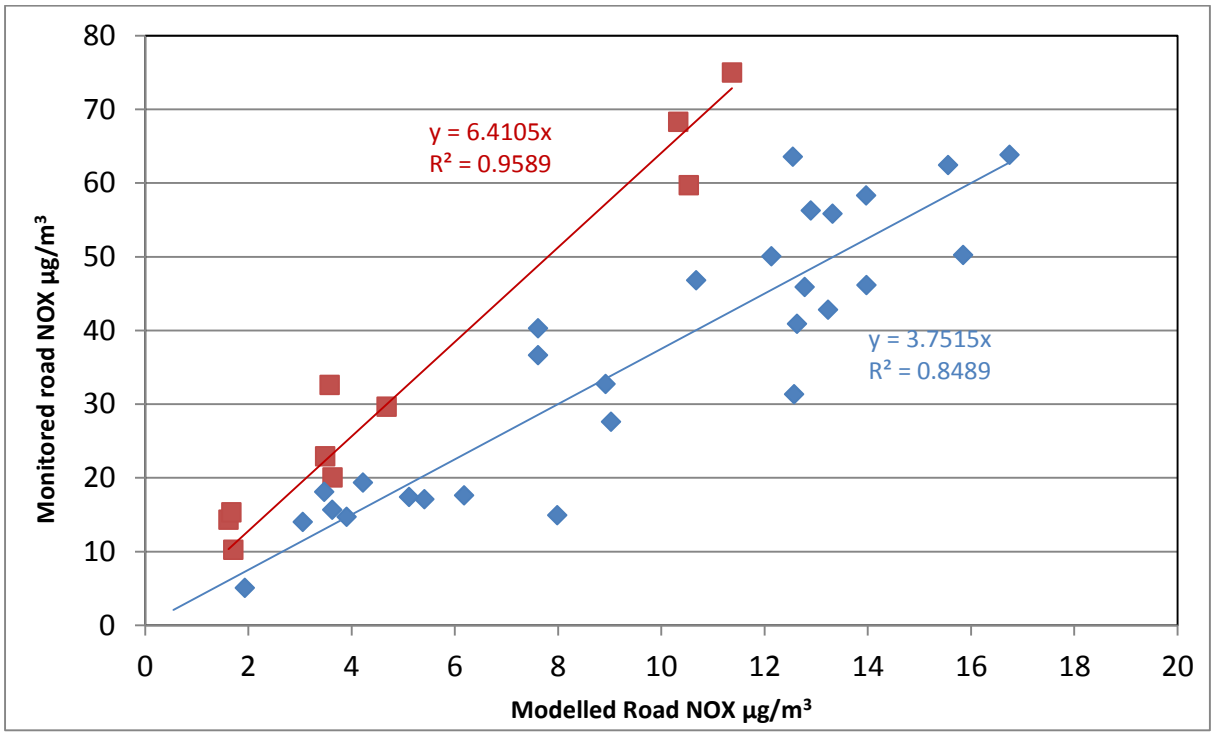
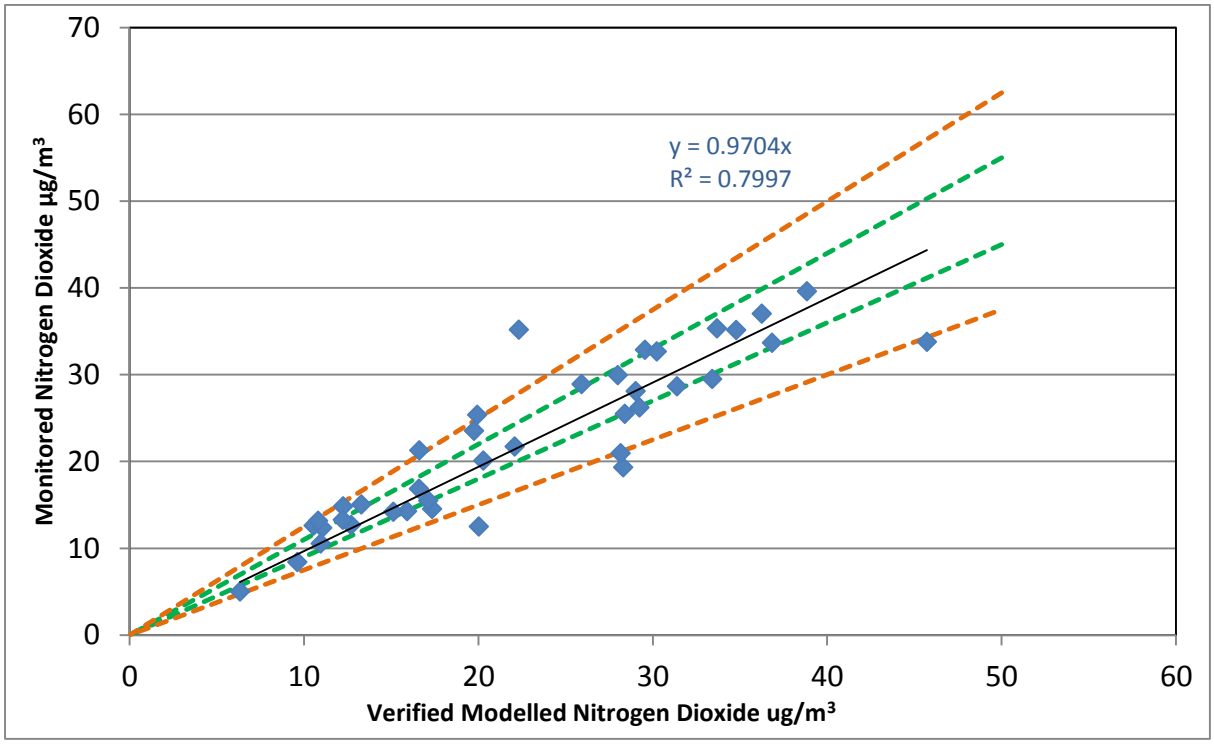


Figure B3.2 Verified Results against Monitored Road NOx.



Appendix B.4 – Project Specific Monitoring

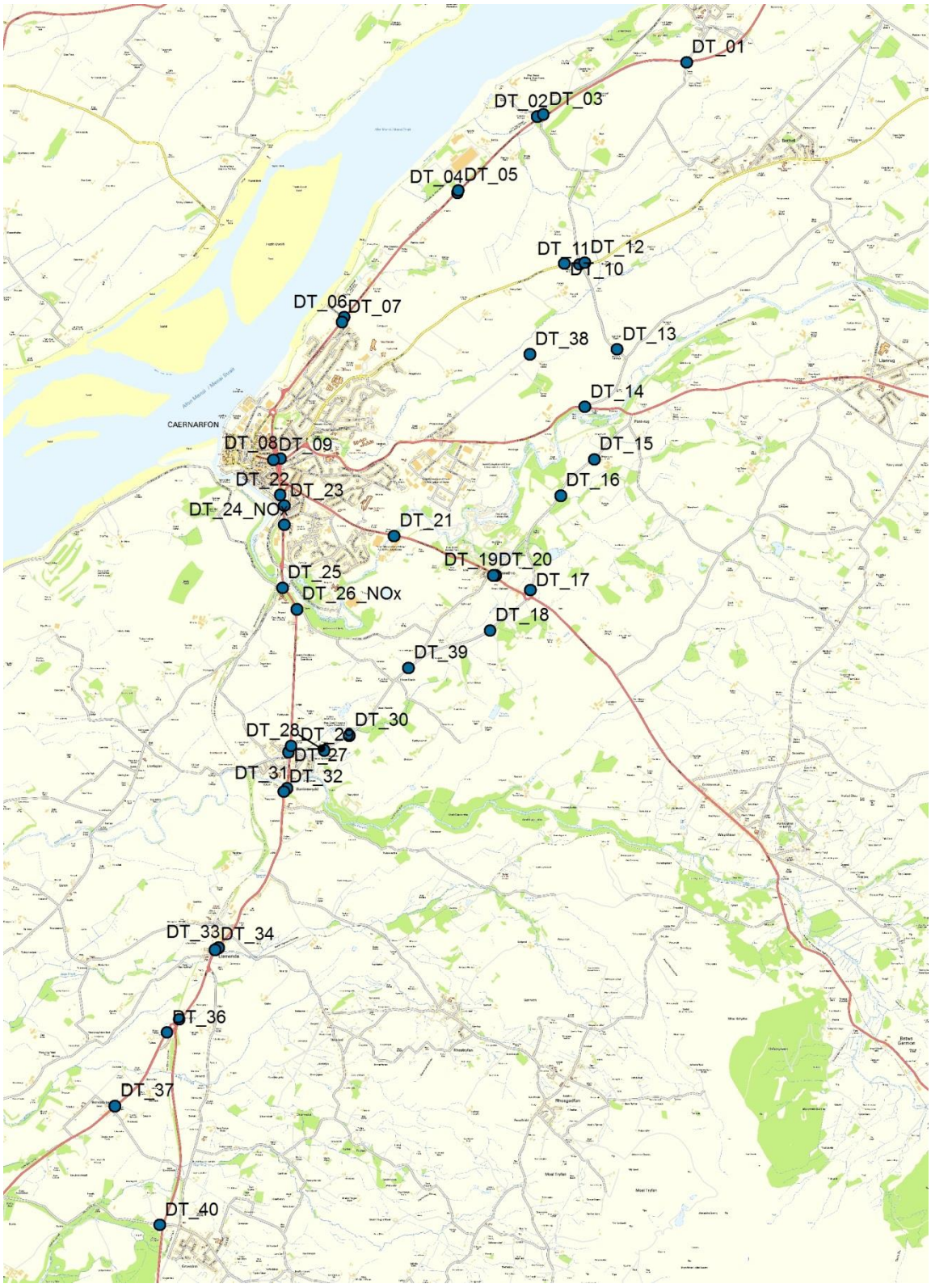
Monitoring Methodology

- The following is an outline of the general approach to the collection of air quality data along a scheme corridor and surrounding area. Data will be collected from a number of fixed monitoring locations which will monitor nitrogen dioxide (NO_2).and Oxides of Nitrogen (NOx)
- NO_2 monitoring locations are selected following consideration of factors such as the quality and quantity of previous data collected within the study area, the sensitivity of the receptors in the area, the potential impacts from the proposed scheme, appropriate roadside and background locations and local authority NO_2 continuous monitoring locations. Other factors have also been considered, such as potential changes in traffic flow as a result of the scheme.
- In this case, monitoring locations were largely based on the locations set out in the Stage 2 assessment, which took into account the points mentioned above.
- The selected locations will provide NO_2 concentrations representing roadside, background and urban locations along the scheme corridor. The data will be used to identify potential exceedences of the air quality objectives and also used to verify air quality modelling of potential changes in NO_2 concentrations as a result of the scheme.
- The monitoring plan contains details of the initial planning for monitoring locations.
- 20% TEA in water diffusion tubes (non-toxic, passive) are used to monitor NO2 on available posts/street furniture - e.g. lamp-posts, fencing posts, gates, down pipes, electricity posts etc. An example of a diffusion tube is shown in the figure below.
- All tubes will be attached to existing street furniture at a height of around 1.5m above ground but no more than 2.2m (within reach of all team members without need for use of steps).
- 'Background' tubes are those which are located in fields or next to minor roads, well away from significant traffic flows. Tubes in a 'residential' location are on posts next to roads in residential areas where traffic speeds are generally low. 'Roadside' tubes are on posts next to roads with greater traffic flows and speeds, generally away from residential areas, but on public access routes i.e. pavements
- All diffusion tube monitoring locations are shown in Figure B4.1.

Annualisation of Monitoring Data

- The loss of diffusion tubes, especially in urban areas, is, unfortunately quite common. This is often due to human interference. Therefore, it is difficult to get a complete set of data to allow accurate calculation of an annual mean. When this is the case, the data is annualised as defined in the LAQM TG09 (Box 3.2).
- The process broadly compares the studied period mean with a long term continuous monitoring site, ideally forming part of the national network. Normal practice involves the identification of two to four locations within 50 miles, however, due to the remoteness of the study area, only one was used within the assessment.
- Monitored data was annualised using data from the continuous analyser on Victoria Road, Wrexham (AURN ID - UKA00440). Other sites were considered in order to add credibility; however, all other locations where data was available were discounted due to a lack of proximity to the monitored site.
- Since 2015 concentrations were not fully available, the concentrations were annualised using the trend in monitored results from the previous year (2014).
- A description of the monitored sites (as listed with a DT_ prefix in Table B3.1) follows.

Figure B4.1 Diffusion Tube Monitoring Locations (not to scale).



Site Name- DT1

Pollutant	Nitrogen Dioxide	**Nearest Road (m)**	Port Dinorwic Bypass (2m)
X	251810.7	**Y**	366255.8
Description	Located on the bridge of the Port Dinorwic Bypass		
Access	Park next to the tube on the bridge.		

Site Name- DT2

Pollutant	Nitrogen Dioxide	**Nearest Road (m)**	A487 (0.5)
X	250491.1	**Y**	365776.1
Description	From DT1 head north towards Caernarfon Road. Join Caernarfon Road and head south and DT2 and DT3 are located on the Ffordd Caernarfon Roundabout.		
Access	Parking on the road on the 4th exit of the roundabout is available, in front of the manor house.		

Site Name- DT3

Pollutant	Nitrogen Dioxide	Nearest Road (m)	A487 (1.5)
X	25044.1	Y	365796
Description	From DT1 head north towards Caernarfon Road. Join Caernarfon Road and head south and DT2 and DT3 are located on the Ffordd Caernarfon Roundabout.		
Access	Parking on the road on the 4th exit of the roundabout is available, in front of the manor house.		

Site Name- DT4

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1.5)
X	249785.6	**Y**	365103.5
Description	Head south on the A487 Towards Caernarfon for 0.6kms.		
Access	Parking is available on the entrance of Rhyd Menai.		

Site Name- DT5

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Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (0.5)
X	249793.3	**Y**	365123.5
Description	Opposite DT4		
Access	Parking is available on the entrance of Rhyd Menai.		

Site Name- DT6

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (0.5)
X	248783.6	**Y**	364000.2
Description	Continue south on the A487 for 1.5kms. DT6 & DT7 are located before the bus stop.		
Access	Turn right on to Waterloo Port Road for parking.		

Site Name- DT7

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1)
X	248764.9	**Y**	363957.6
Description	Opposite DT6		
Access	Turn right on to Waterloo Port Road for parking.		

Site Name- DT8

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4086 (0.5)
X	248220.5	**Y**	362749.5
Description	Head south on the A487 from DT7, take the first exit (first Roundabout), second exit (second roundabout) and continue on the A487. Immediately exit the A487 via the slip road.		
Access	Parking is available on William Street.		

Site Name- DT9

Pollutant	Nitrogen Dioxide	**Nearest Road (m)**	Pool Side (1.8)
X	248154.6	**Y**	362736.5
Description	Located on the exit to Caernarfon town.		
Access	Parking is available at the 'The Dynevor Arms' car park.		

Site Name- DT10

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4119 (1)
X	308497	**Y**	180389
Description	From DT 8 head eats on the A4086 and continue onto B4366 for 2.8kms		
Access	Safe to park next to DT10 which is located on the post.		

Site Name- DT11

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	B4366 (1)
X	250863.5	**Y**	364467.4
Description	Continue east on the B4366 for 0.1 kms, DT11 & DT12 are located on the roundabout.		
Access	Park on the grass of the second exit of the roundabout.		

Site Name- DT12

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	B4366 (1)
X	250911.1	**Y**	364483.9
Description	DT12 is located at the second exit of the roundabout.		
Access	Park on the grass of the second exit of the roundabout.		

Site Name- DT13

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	B4366 (3)
X	251196.2	**Y**	363715.5
Description	From DT 11 take the third exit at the roundabout and head south for 0.8kms. DT13 is attached to the post at the end of the lay-by		
Access	Park on the lay-by.		

Site Name- DT14

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4866 (0.5)
X	250911.3	**Y**	363206.7
Description	Continue south from DT13 for 0.7 kms, DT14 is attached to the Bethel Sign on the junction of A4086.		
Access	Parking is available at the Sopna restaurant.		

Site Name- DT15

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4086 (2)
X	250994.5	**Y**	362741.4
Description	From DT14 head east on Llanberis Road for 0.4kms, then turn right.		
Access	Safe parking next to DT15.		

Site Name- DT16

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4086 (4)
X	250696.1	**Y**	362422
Description	Continue south from DT15 for 0.6kms and DT16 will appear on the left on top of the banking.		
Access	Safe parking is available on the road next to DT16.		

Site Name- DT17

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4805 (1)
X	250430	**Y**	361586.8
Description	Continue south from DT16 for 0.9kms and DT17 will appear on a lamppost just before the roundabout.		
Access	Third exit of the roundabout, parking is available at the petrol station.		

Site Name- DT18

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4805 (1)
X	250072.9	**Y**	361227.7
Description	Continue straight over the roundabout from DT17 and head south for 0.5kms, DT18 will appear on the left attached to the public footpath sign.		
Access	DT18 is located next to an entrance to a farm, which is safe to park on.		

. **Site Name-** DT19

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4805 (1)
X	250120	**Y**	361716.2
Description	Make a U turn from DT18 and head north back towards the roundabout. Take the first exit left and continue west on the A4085 for 0.25kms. Bryn Gwna pub will appear, DT 19 is attached to a lamppost opposite.		
Access	Parking is available on the road or on the lay – by to the right from DT19.		

Site Name- DT20

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4805 (1)
X	250100.8	**Y**	361716.3
Description	Opposite DT19.		
Access	Parking is available on the road or on the lay – by to the right from DT19.		

. **Site Name-** DT21

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A4805 (1.5)
X	249223.2	**Y**	362063.5
Description	Continue west on the A4805 for 0.5kms.		
Access	Parking is available just in front of lamppost DT21 is attached to.		

ite Name- DT22

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1.5)
X	249198.9	**Y**	362054.1
Description	Continue west on the A4805 and follow the road around joining the A487. A petrol Station will appear on the right and DT22 is attached to a lamppost next to the Texaco petrol station.		
Access	Parking is available at the petrol station.		

Site Name- DT23

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (2)
X	248252.3	**Y**	362332.4
Description	DT23 is located opposite DT22, attached the health clinic sign.		
Access	Parking is available at the petrol station.		

Site Name- DT24 Nox

Pollutants	Nitrogen Dioxide/Nitrogen Oxide	**Nearest Road (m)**	A487 (1.3)
X	248253.3	**Y**	362161.7
Description	Head south on the A487 for 0.2kms, and turn left onto Marcus Street.		
Access	Parking is available on Marcus street..		

Site Name- DT25

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1)
X	248236	**Y**	361604.7
Description	Head south on the A487 from DT24 Nox, straight at the roundabout and turn right on to Pant Road. DT25 is attached to the 40mph sign.		
Access	Parking is available next to DT25 (Lane).		

Site Name- DT26 Nox

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (3)
X	248363	**Y**	361417.2
Description	Turn right back onto the A487 and immediately take a left onto the lay-by. Walk south from the lay-by and DT26 Nox is attached to the lampost.		
Access	Lay-by just before DT26 Nox		

Site Name- DT27

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1)
X	248289.4	**Y**	360153.5
Description	Head south on the A487 from DT25 Nox for 1.2kms. DT27 & DT28 are located on this roundabout.		
Access	Take the first exit left at the roundabout, park on the lay-by.		

Site Name- DT28

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (4)
X	248313.3	**Y**	360206.6
Description	Head south on the A487 from DT25 Nox for 1.2kms. DT27 & DT28 are located on this roundabout.		
Access	Take the first exit left at the roundabout, park on the lay-by.		

Site Name- DT29

Pollutants	Nitrogen Dioxide	Nearest Road (m)	Unnamed Road (1)
X	248605.2	Y	360167.9
Description	From the lay-by continue east for 0.2 kms and DT29 will be attached to the first Gypsy Wood Park sign on the left.		
Access	Parking is safe next to DT29.		

Site Name- DT30

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	Unnamed Road (0.5)
X	248826.7	**Y**	360300
Description	Continue east and a lay-by will appear on the left. Park here and walk east, DT30 is attached to the national speed sign on the left.		
Access	Lay-by just before DT30 on the left.		

Site Name- DT31

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (0.5)
X	248277.6	**Y**	359831.7
Description	Re-join the A487 and head south for 0.3kms. Costcutter convenience store will appear on the right; DT30 is attached to a lamppost opposite.		
Access	Costcutter car park.		

Site Name- DT32

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1)
X	248277.6	**Y**	359831.7
Description	Walk out of the Costcutter car park and turn left. DT 31 is 100 50 meters from the car park, attached to a lamppost next to Ysgol Y Cynchor.		
Access	Costcutter car park.		

Site Name- DT33

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (1)
X	247669.6	**Y**	358423.4
Description	Re-join the A487 and head south for 1.5kms. Millets retail will appear on the right, use their car park to park the vehicle. DT33 is opposite the Vauxhall car dealership which is next door to Millets retail.		
Access	Millets Car Park.		

Site Name- DT34

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (2)
X	247639.3	**Y**	358403.3
Description	Re-join the A487 and head south for 1.5kms. Millets retail will appear on the right, use their car park to park the vehicle. Walk a further 50 meters south from the car park to access DT34.		
Access	Millets Car Park.		

Site Name- DT35

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (7)
X	247322	**Y**	357786.1
Description	Continue south on the A487, straight at the roundabout (second exit). A set of terraced houses will appear on the right with a lay by in front. DT35 is located next to this lay-by on an ivy tree.		
Access	Lay-by in front of terraced houses.		

Site Name- DT36

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A499 (1)
X	247213.6	**Y**	357669.1
Description	From DT35 head south and take the second exit at the roundabout. Take the immediate left which is the Goat Hotel junction. DT36 can be found opposite attached to a lamppost.		
Access	Car park opposite the Goat Hotel.		

Site Name- DT37

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A499 (1)
X	246752.9	**Y**	357019.8
Description	Head south on the A499 for 0.8kms, DT37 is attached to a lamppost opposite the bus stop.		
Access	Parking is safe next to DT37		

Site Name- DT38

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	FFordd Car Garw Lane (0.2)
X	250424.1	**Y**	363672.1
Description	DT38 is attached to a pole/Ffordd Cae Garw Lane. 30 meteres before the farm property.		
Access	Parking is safe next to DT38.		

Site Name- DT39

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	Unnamed Road (1)
X	249350.7	**Y**	360896.6
Description	DT39 is attached to a sign next to the Rhyddalli Ganol property.		
Access	Parking is safe next to DT39		

Site Name- DT40

Pollutants	Nitrogen Dioxide	**Nearest Road (m)**	A487 (6)
X	247148.9	**Y**	355966.6
Description	From DT 37, head north on the A499 and take the second exit onto the A487. At the next roundabout take the third exit, DT40 is located on the third exit.		
Access	Field entrance.		

Table B4.1 Raw and Corrected NO_2 Diffusion Tube Monitoring Results (concentrations given as μgm^{-3}). Annualisation and Bias Adjustment factors are also shown.

Caernarfon and Bontnewydd Monitoring	February	March	April	May	June	July	August	September	October	November	Period Average	Annualisation Factor	Bias Adjustment	Annualised Concentrations
DT_1				15.86	12.94	12.94			25.57	14.85	14.53	1.69	0.92	22.57
DT_2	32.79	27.30	36.88	30.34	29.79	29.79	32.05	32.45	40.43	34.05	30.53	1.17	0.92	33.00
DT_3	17.09	18.61	22.85	15.09	13.98	13.98	15.94	17.65	24.56	19.23	17.18	1.17	0.92	18.57
DT_4	34.18	33.05	37.68	33.91	29.23	29.23	37.53	36.37	40.58	31.20	32.09	1.17	0.92	34.68
DT_5	36.67	33.79	42.21	32.37	33.18	33.18	39.19	42.14	43.54	30.59	34.26	1.17	0.92	37.03
DT_6	24.42	22.49	25.97	20.04	32.34	32.34	34.23	20.50	23.92	24.05	24.57	1.17	0.92	26.56
DT_7	28.77	32.88	38.47	37.27	17.50	17.50	21.83	36.50	30.45	32.72	27.63	1.11	0.92	28.18
DT_8	32.98						24.28		30.50	23.92	23.14	1.12	0.92	23.77
DT_9	26.25	32.40	36.46		23.55	23.55	24.71	31.59			25.69	1.11	0.92	26.20
DT_10	14.61	15.14	16.29	13.18	11.75	11.75	13.45	13.67	22.47	13.30	14.14	1.11	0.92	14.43
DT_11	15.62	14.17	14.11	12.85	12.86	12.86	14.09	13.21	17.70	12.62	13.64	1.11	0.92	13.92
DT_12		14.26	16.13	12.76	10.16	10.16	10.96	14.51	19.43	14.15	13.15	1.16	0.92	14.06
DT_13	13.08	12.73	13.42	14.14	13.21	13.21	15.71	14.34	16.64	12.88	13.58	1.11	0.92	13.85
DT_14	21.55						22.55	22.29	27.78	21.34	20.09	1.11	0.92	20.49
DT_15	16.62	16.55	16.54	11.96	14.25	14.25	15.01	15.87	21.96	9.08	14.74	1.11	0.92	15.03
DT_16	14.36	13.49	12.14	10.82	12.68	12.68	12.76	11.01	13.41	10.42	12.16	1.11	0.92	12.40
DT_17	12.64	14.24	12.99	11.77	13.27	13.27	7.67		15.21	10.37	12.04	1.12	0.92	12.37
DT_18	12.39	13.31	13.10	10.93	10.83	10.83	10.52	12.54	16.97	9.95	11.94	1.11	0.92	12.18
DT_19	12.60	15.41	14.76	13.32	12.00	12.00	12.93	14.41	13.10	8.80	12.67	1.11	0.92	12.92
DT_20	11.55	9.16	8.95	8.20	7.51	7.51	8.65	9.25	17.08	15.90	10.34	1.11	0.92	10.55
DT_21	10.40	9.66	9.19	5.85	6.20	6.20	7.50		11.71	7.25	8.30	1.12	0.92	8.52
DT_22		38.03	50.05	30.50			45.90	37.71			34.53	1.16	0.92	36.92
DT_23	40.13			37.79					47.05	31.20	32.04	0.94	0.92	27.73
DT_25		26.13	28.73	24.00	14.85	14.85			31.17	26.71	32.41	1.11	0.92	33.06
DT_27	18.75	31.61	20.61	28.06	30.58	30.58	10.12	31.15	33.40	22.41	21.68	1.16	0.92	23.16
DT_28	32.04	18.48	35.34	12.32	11.51	11.51	30.30	16.70	22.31	14.97	30.95	1.11	0.92	31.57
DT_29	15.16	13.57	15.20	10.03			13.39	13.45	17.70	14.43	24.30	1.11	0.92	24.78
DT_30	14.48	17.98	14.56	14.84	16.20	16.20	17.86	18.15	22.53	12.61	19.59	1.11	0.92	19.98
DT_31		35.39	30.88	16.70	23.88	23.88	25.10		29.00	36.15	13.44	1.16	0.92	14.37
DT_32	43.02	26.48	39.33		37.80	37.80	24.42	43.30		23.80	15.95	1.11	0.92	16.27

Caernarfon and Bontnewydd Monitoring	February	March	April	May	June	July	August	September	October	November	Period Average	Annualisation Factor	Bias Adjustment	Annualised Concentrations
DT_33	27.24	31.16	32.64	30.99	29.77	29.77	37.83	39.09	32.40	31.72	25.44	1.16	0.92	27.20
DT_34	30.83	28.81	36.64	26.84	33.91	33.91	31.32	30.19	44.21	24.10	31.55	1.11	0.92	32.18
DT_35	25.01		27.33	20.70	12.57	12.57	23.29	24.19	31.09	15.09	30.24	1.11	0.92	30.84
DT_36	16.68	0.29	21.89	15.88	20.80	20.80		17.05	25.89	18.80	30.07	1.11	0.92	30.67
DT_37	22.06	24.04	24.32	20.72	20.41	20.41	18.45	18.42	19.11		20.08	1.11	0.92	20.49
DT_38		5.82	6.57	6.06	2.83	2.83	3.72	3.82	6.31	4.46	18.42	1.11	0.92	18.79
DT_39	12.64	12.42	13.15	12.19	9.06	9.06	0.78		17.03	17.95	19.69	1.11	0.92	20.09
DT_40	13.19	12.49	14.07	7.64	7.36	7.36	9.92	11.66	28.54	10.73	5.14	1.16	0.92	5.50
Travel Blank	0.13	0.12	0.28	0.15	0.05	0.05	0.30	0.06	0.12	0.15	12.39	1.12	0.92	12.73
Travel Blank	0.13	0.09	<0.26	0.25	0.11	0.11	0.34	0.07	0.16	0.16	12.09	1.11	0.92	12.33

Table B4.2 Raw and Corrected Diffusion Tube Monitoring Results (concentrations given as μgm^{-3}). Annualisation and Bias Adjustment factors are also shown.

Caernarfon and Bontnewydd Monitoring	Februa ry	Marc h	April	May	June	July	August	Septem ber	Octob er	Novem ber	Period Averag e	Annualisat ion Factor	Bias Adjustme nt	Annualised Concentrati ons
DT - NOX - 24	71.94	81.70	62.78	49.89	55.05	40.06	86.76	71.17	73.72	54.75	64.78	1.11	0.92	66.08
DT - NOX - 26	49.84	71.08	81.29	46.41	42.80	39.67	72.26	63.70	88.92	44.42	60.04	1.11	0.92	61.24
DT - NO2 - 24	35.98	37.64	35.01	30.24	32.41	33.71	34.98	34.40	39.13	33.00	32.41	1.11	0.92	33.06
DT - NO2 - 26	35.71	35.47	37.34	30.26	28.67	27.97	36.19	31.40	39.65	27.77	30.95	1.11	0.92	31.57

Appendix B.5 – Detailed Model Results

Table B5.1 Modelled verified annual mean NO_2 concentrations (in μgm^{-3}) for human receptors, with IAN 170 adjustment. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
01_A	6.3	6.1	6.4	0.3	5.6	8.1	2.5
02_A	6.7	6.5	6.9	0.5	5.9	8.9	3.0
03_A	8.1	8.0	8.2	0.2	7.3	11.4	4.1
04_A	11.5	11.4	11.7	0.3	10.5	18.1	7.6
05_A	5.0	4.9	4.9	0.0	4.5	5.4	0.9
06_B	10.1	10.0	8.9	-1.1	9.2	15.0	5.8
07_B	24.0	23.9	17.3	-6.7	22.3	36.7	14.4
08_B	24.2	24.5	15.6	-8.9	23.3	35.8	12.5
09_B	25.6	25.8	17.3	-8.5	24.8	40.0	15.2
10_B	22.0	22.1	15.4	-6.7	21.2	34.6	13.4
11_B	27.1	27.3	19.5	-7.8	26.3	44.6	18.2
12_C	6.3	6.2	6.0	-0.2	5.7	7.9	2.2
13_C	5.9	5.8	5.6	-0.2	5.4	7.1	1.7
14_C	10.3	10.0	8.7	-1.3	9.6	16.3	6.7
15_C	11.5	11.2	9.6	-1.7	10.9	19.1	8.3
16_C	11.6	11.3	9.7	-1.6	10.9	18.7	7.8
17_C	13.7	13.4	11.8	-1.7	13.1	24.5	11.4
18_D	11.9	11.5	11.0	-0.5	10.9	18.5	7.6
19_D	11.4	10.9	10.0	-0.9	10.3	16.2	5.9
20_D	11.4	10.9	9.9	-1.0	10.4	16.4	6.0
21_D	15.1	14.9	13.4	-1.5	14.2	23.5	9.3
22_E	12.5	12.9	11.1	-1.8	12.1	21.3	9.3
23_E	10.9	11.2	9.7	-1.5	10.5	18.1	7.7
24_E	16.2	16.9	14.1	-2.8	16.0	30.6	14.7
25_E	12.2	12.5	10.3	-2.3	11.8	20.2	8.4
26_E	11.6	11.7	9.4	-2.3	11.0	18.8	7.8
27_F	14.5	14.7	13.3	-1.4	13.7	27.8	14.1
28_F	12.3	12.4	11.1	-1.2	11.5	21.4	9.9
29_F	18.1	18.4	15.3	-3.1	17.7	34.3	16.6
30_F	19.7	19.9	16.6	-3.3	19.2	37.1	17.9
31_G	6.7	6.5	6.2	-0.3	6.0	7.4	1.4
32_G	8.9	8.7	8.3	-0.5	8.1	11.5	3.4
33_G	9.1	8.9	8.3	-0.6	8.2	13.3	5.1
34_G	5.6	5.5	5.5	0.0	5.0	6.6	1.5
35_G	9.2	9.1	8.0	-1.1	8.6	12.5	3.9
36_H	9.6	9.6	9.3	-0.3	9.4	15.2	5.7

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
37_H	10.0	10.0	9.4	-0.6	9.7	16.2	6.5
38_H	11.8	11.8	10.6	-1.1	11.5	19.1	7.7
39_H	18.2	18.1	14.5	-3.6	17.7	31.6	13.9
40_I	8.2	8.2	9.6	1.4	7.7	13.7	6.0
41_I	12.4	12.6	15.6	3.0	11.9	26.8	14.8
42_I	12.7	13.0	17.2	4.2	12.3	28.9	16.6
43_I	9.4	9.4	11.4	2.0	8.8	17.4	8.7
44_J	14.3	14.3	8.3	-6.0	13.4	18.6	5.2
45_J	26.6	26.7	11.1	-15.6	25.5	30.7	5.2
46_J	18.8	18.8	9.1	-9.8	17.8	23.1	5.3
47_J	9.6	9.6	7.1	-2.5	8.8	12.6	3.7
48_J	29.9	30.1	13.1	-16.9	28.7	35.7	6.9
49_J	25.5	25.6	13.3	-12.4	24.3	35.0	10.7
50_J	15.2	15.2	8.8	-6.4	14.2	19.1	4.9
51_J	21.8	21.9	14.5	-7.4	20.8	35.0	14.1
52_J	29.2	29.4	18.3	-11.1	28.2	47.1	18.9
53_J	39.0	39.2	23.9	-15.3	37.7	61.0	23.3
54_J	41.6	41.5	27.9	-13.6	40.3	71.2	30.9
55_K	9.6	9.4	9.8	0.4	8.7	16.3	7.7
56_K	15.0	14.8	15.6	0.8	13.7	32.8	19.0
57_K	7.6	7.4	7.5	0.0	6.8	10.9	4.1
58_K	7.1	7.0	8.5	1.5	6.5	11.2	4.7
59_L	13.6	13.7	17.1	3.4	13.0	31.7	18.7
60_L	17.9	17.9	11.9	-6.0	17.0	27.9	10.9
61_L	5.9	5.8	9.1	3.3	5.3	10.0	4.7
62_L	6.0	5.9	9.7	3.8	5.4	10.9	5.4
63_L	5.7	5.6	8.5	2.9	5.1	9.3	4.1
64_L	6.0	5.9	7.3	1.5	5.4	8.7	3.3
65_L	5.8	5.7	8.3	2.5	5.2	9.2	4.0
66_L	5.8	5.7	6.2	0.5	5.2	7.5	2.3
67_L	6.0	5.9	7.2	1.3	5.4	8.5	3.1
68_L	6.4	6.3	8.6	2.3	5.8	10.3	4.5
69_L	5.9	5.8	8.9	3.1	5.3	9.9	4.6
70_L	6.2	6.1	10.4	4.3	5.6	11.5	6.0
71_L	6.1	6.0	10.1	4.1	5.5	11.3	5.8
72_L	6.0	5.8	6.7	0.8	5.4	8.2	2.8
73_L	16.9	17.2	12.4	-4.8	16.4	29.9	13.5
74_L	11.7	11.9	9.4	-2.5	11.2	19.7	8.5

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
75_L	6.5	6.4	6.6	0.2	5.9	8.9	2.9
76_L	21.3	21.3	17.2	-4.1	19.9	37.8	17.9
77_L	10.4	10.3	10.5	0.2	9.5	17.6	8.0
78_M	9.1	9.1	6.8	-2.3	8.5	11.5	3.0
79_M	13.8	14.0	8.4	-5.6	13.5	17.4	3.9
80_M	8.7	8.7	6.5	-2.2	8.2	11.1	2.9
81_M	5.7	5.6	6.0	0.5	5.1	7.3	2.2
82_N	7.1	7.0	7.0	0.0	6.6	10.0	3.5
83_N	9.5	9.6	7.7	-1.9	9.0	13.6	4.7
84_N	15.8	16.1	10.0	-6.1	15.5	22.9	7.4
85_N	10.5	10.6	8.2	-2.4	10.0	15.4	5.4

Table B5.2 Modelled verified annual mean NO_2 concentrations (in μgm^{-3}) for human receptors, without IAN 170 adjustment. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
01_A	6.3	5.2	5.4	0.3	4.0	4.2	0.1
02_A	6.7	5.4	5.8	0.4	4.2	4.4	0.2
03_A	8.1	6.5	6.7	0.1	4.9	5.0	0.1
04_A	11.5	9.0	9.2	0.3	6.4	6.6	0.2
05_A	5.0	4.4	4.4	0.0	3.7	3.7	0.0
06_B	10.1	7.8	6.9	-0.9	5.4	5.0	-0.4
07_B	24.0	18.0	13.0	-5.0	11.0	8.6	-2.4
08_B	24.2	18.3	11.7	-6.7	10.9	7.5	-3.4
09_B	25.6	19.5	13.1	-6.4	11.7	8.4	-3.3
10_B	22.0	16.7	11.7	-5.1	10.2	7.6	-2.6
11_B	27.1	20.7	14.8	-5.9	12.5	9.5	-3.1
12_C	6.3	5.2	5.0	-0.1	4.1	4.0	-0.1
13_C	5.9	4.9	4.8	-0.2	4.0	3.9	-0.1
14_C	10.3	7.6	6.6	-1.0	5.3	4.8	-0.5
15_C	11.5	8.3	7.1	-1.2	5.7	5.1	-0.6
16_C	11.6	8.5	7.3	-1.2	5.9	5.3	-0.6
17_C	13.7	9.9	8.7	-1.2	6.7	6.1	-0.6
18_D	11.9	9.0	8.6	-0.4	6.4	6.2	-0.2
19_D	11.4	8.7	8.0	-0.7	6.4	6.0	-0.4
20_D	11.4	8.7	7.9	-0.8	6.3	5.9	-0.4
21_D	15.1	11.9	10.7	-1.2	8.3	7.6	-0.6
22_E	12.5	9.6	8.3	-1.3	6.4	5.7	-0.6
23_E	10.9	8.4	7.3	-1.1	5.6	5.1	-0.5
24_E	16.2	12.1	10.1	-2.0	7.6	6.6	-1.0
25_E	12.2	9.3	7.6	-1.7	6.1	5.3	-0.8
26_E	11.6	8.7	7.0	-1.7	5.8	5.0	-0.7
27_F	14.5	10.6	9.6	-1.0	6.6	6.2	-0.4
28_F	12.3	9.2	8.3	-0.9	6.0	5.6	-0.4
29_F	18.1	13.5	11.2	-2.3	8.3	7.2	-1.2
30_F	19.7	14.7	12.3	-2.5	9.1	7.8	-1.3
31_G	6.7	5.7	5.4	-0.3	4.7	4.6	-0.1
32_G	8.9	7.2	6.9	-0.4	5.5	5.3	-0.2
33_G	9.1	7.2	6.7	-0.5	5.0	4.8	-0.3
34_G	5.6	4.7	4.7	0.0	3.9	3.8	0.0
35_G	9.2	7.5	6.6	-0.9	5.5	5.0	-0.5
36_H	9.6	7.8	7.6	-0.2	6.0	5.9	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
37_H	10.0	8.0	7.6	-0.5	5.8	5.6	-0.2
38_H	11.8	9.4	8.5	-0.9	6.7	6.2	-0.5
39_H	18.2	13.8	11.1	-2.7	8.9	7.6	-1.3
40_I	8.2	6.7	7.9	1.2	5.0	5.5	0.6
41_I	12.4	9.7	12.1	2.3	6.6	7.8	1.2
42_I	12.7	10.2	13.5	3.3	6.9	8.5	1.7
43_I	9.4	7.4	9.0	1.6	5.3	6.1	0.8
44_J	14.3	10.6	6.1	-4.4	6.7	4.6	-2.1
45_J	26.6	19.1	7.9	-11.2	11.0	5.6	-5.5
46_J	18.8	13.7	6.6	-7.1	8.3	4.9	-3.4
47_J	9.6	7.5	5.5	-2.0	5.2	4.3	-0.9
48_J	29.9	21.8	9.5	-12.3	12.5	6.5	-6.0
49_J	25.5	18.4	9.5	-8.9	10.7	6.4	-4.2
50_J	15.2	11.4	6.6	-4.8	7.3	5.0	-2.4
51_J	21.8	15.9	10.6	-5.4	9.5	6.9	-2.6
52_J	29.2	21.2	13.2	-8.0	12.2	8.4	-3.8
53_J	39.0	28.7	17.5	-11.2	16.4	10.7	-5.6
54_J	41.6	30.7	20.6	-10.1	17.6	12.7	-4.9
55_K	9.6	7.1	7.4	0.3	4.9	5.0	0.1
56_K	15.0	10.5	11.1	0.6	6.4	6.7	0.3
57_K	7.6	5.9	5.9	0.0	4.4	4.4	0.0
58_K	7.1	5.7	6.9	1.2	4.3	4.9	0.5
59_L	13.6	10.2	12.8	2.6	6.7	7.9	1.2
60_L	17.9	12.9	8.6	-4.3	7.8	5.7	-2.1
61_L	5.9	4.9	7.8	2.8	3.9	5.3	1.4
62_L	6.0	5.0	8.2	3.2	3.9	5.5	1.5
63_L	5.7	4.8	7.3	2.5	3.9	5.1	1.2
64_L	6.0	5.0	6.2	1.3	4.0	4.6	0.6
65_L	5.8	4.9	7.0	2.2	3.9	4.9	1.0
66_L	5.8	4.9	5.3	0.4	3.9	4.1	0.2
67_L	6.0	5.0	6.1	1.1	4.0	4.5	0.5
68_L	6.4	5.3	7.3	2.0	4.1	5.1	0.9
69_L	5.9	4.9	7.6	2.6	3.9	5.2	1.3
70_L	6.2	5.1	8.8	3.7	4.0	5.8	1.8
71_L	6.1	5.0	8.5	3.4	4.0	5.6	1.7
72_L	6.0	4.9	5.7	0.7	3.9	4.3	0.4
73_L	16.9	12.4	8.9	-3.4	7.6	6.2	-1.4
74_L	11.7	8.7	6.9	-1.8	5.7	5.0	-0.7

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
75_L	6.5	5.3	5.5	0.2	4.1	4.2	0.1
76_L	21.3	15.7	12.7	-3.0	9.4	8.0	-1.4
77_L	10.4	8.0	8.1	0.1	5.4	5.5	0.1
78_M	9.1	7.3	5.4	-1.9	5.2	4.2	-1.0
79_M	13.8	10.7	6.4	-4.3	7.1	4.7	-2.5
80_M	8.7	6.9	5.2	-1.7	5.0	4.0	-1.0
81_M	5.7	4.7	5.1	0.4	3.8	4.0	0.2
82_N	7.1	5.7	5.7	0.0	4.4	4.3	0.0
83_N	9.5	7.4	6.0	-1.5	5.2	4.4	-0.8
84_N	15.8	11.8	7.4	-4.5	7.5	5.1	-2.4
85_N	10.5	8.1	6.2	-1.9	5.5	4.5	-1.0

Table B5.3 Modelled verified annual mean PM10 concentrations (in μgm^{-3}) for human receptors. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
01_A	11.6	11.3	11.3	0.0	11.1	11.1	0.0
02_A	11.6	11.2	11.3	0.1	11.0	11.1	0.1
03_A	11.6	11.2	11.2	0.0	11.0	11.0	0.0
04_A	11.8	11.4	11.5	0.0	11.2	11.2	0.0
05_A	11.0	10.7	10.7	0.0	10.4	10.4	0.0
06_B	11.7	11.3	11.2	-0.1	11.1	10.9	-0.1
07_B	13.3	12.8	11.9	-0.9	12.4	11.6	-0.8
08_B	13.2	12.6	11.7	-0.9	12.3	11.5	-0.8
09_B	13.5	12.9	12.1	-0.8	12.6	11.9	-0.7
10_B	13.1	12.5	11.9	-0.6	12.3	11.7	-0.6
11_B	14.0	13.4	12.6	-0.8	13.1	12.4	-0.8
12_C	11.8	11.4	11.4	0.0	11.3	11.2	0.0
13_C	11.0	10.7	10.6	0.0	10.5	10.4	0.0
14_C	11.4	11.0	10.8	-0.2	10.8	10.6	-0.2
15_C	11.4	11.0	10.8	-0.2	10.9	10.7	-0.2
16_C	11.5	11.1	10.9	-0.2	10.9	10.7	-0.2
17_C	11.7	11.3	11.1	-0.2	11.1	10.9	-0.2
18_D	11.7	11.3	11.2	-0.1	11.1	11.0	-0.1
19_D	11.8	11.3	11.2	-0.1	11.1	11.0	-0.1
20_D	11.7	11.3	11.1	-0.1	11.1	10.9	-0.1
21_D	12.6	12.1	12.0	-0.2	12.0	11.8	-0.2
22_E	11.9	11.6	11.3	-0.2	11.4	11.1	-0.2
23_E	11.5	11.2	11.0	-0.2	11.0	10.8	-0.2
24_E	12.2	11.8	11.4	-0.4	11.6	11.2	-0.4
25_E	11.7	11.4	11.1	-0.3	11.2	10.9	-0.3
26_E	11.6	11.2	11.0	-0.3	11.0	10.8	-0.3
27_F	12.5	12.1	11.9	-0.2	11.9	11.7	-0.2
28_F	12.5	12.1	12.0	-0.1	11.9	11.8	-0.1
29_F	13.0	12.5	12.3	-0.2	12.3	12.1	-0.2
30_F	13.2	12.7	12.5	-0.2	12.5	12.3	-0.2
31_G	10.5	10.2	10.2	0.0	10.0	9.9	0.0
32_G	12.3	11.9	11.9	-0.1	11.8	11.7	-0.1
33_G	11.6	11.2	11.1	-0.1	11.0	11.0	-0.1
34_G	11.0	10.7	10.7	0.0	10.5	10.5	0.0
35_G	12.1	11.8	11.6	-0.1	11.7	11.6	-0.1
36_H	12.6	12.2	12.2	0.0	12.2	12.2	0.0

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
37_H	12.6	12.2	12.2	-0.1	12.1	12.1	-0.1
38_H	12.9	12.5	12.3	-0.1	12.3	12.2	-0.1
39_H	13.5	13.0	12.6	-0.4	12.8	12.5	-0.4
40_I	10.9	10.6	10.7	0.2	10.3	10.5	0.2
41_I	11.5	11.2	11.5	0.3	11.0	11.3	0.3
42_I	11.7	11.4	11.9	0.5	11.2	11.7	0.5
43_I	11.5	11.1	11.4	0.2	10.9	11.2	0.2
44_J	12.6	12.2	11.5	-0.7	12.0	11.3	-0.7
45_J	14.2	13.5	11.7	-1.8	13.3	11.5	-1.8
46_J	13.1	12.6	11.5	-1.1	12.4	11.3	-1.1
47_J	12.1	11.7	11.4	-0.3	11.5	11.2	-0.3
48_J	14.5	13.9	12.0	-1.9	13.7	11.8	-1.9
49_J	14.0	13.4	12.0	-1.4	13.1	11.8	-1.4
50_J	12.5	12.1	11.3	-0.8	11.8	11.1	-0.7
51_J	13.3	12.8	12.0	-0.8	12.6	11.8	-0.8
52_J	14.6	14.0	12.8	-1.2	13.7	12.5	-1.2
53_J	15.9	15.1	13.4	-1.7	14.8	13.1	-1.6
54_J	16.3	15.5	13.9	-1.6	15.2	13.7	-1.6
55_K	11.4	11.0	11.1	0.0	10.8	10.9	0.1
56_K	11.9	11.5	11.6	0.1	11.3	11.4	0.1
57_K	11.1	10.8	10.8	0.0	10.5	10.5	0.0
58_K	11.3	11.0	11.2	0.2	10.8	11.0	0.2
59_L	12.2	11.8	12.2	0.4	11.6	12.0	0.4
60_L	12.8	12.4	11.6	-0.7	12.1	11.4	-0.7
61_L	11.4	11.0	11.5	0.4	10.8	11.3	0.4
62_L	11.5	11.1	11.6	0.5	10.9	11.4	0.5
63_L	10.9	10.6	11.0	0.4	10.4	10.8	0.4
64_L	11.8	11.5	11.7	0.2	11.4	11.6	0.2
65_L	12.3	12.0	12.3	0.3	11.9	12.3	0.3
66_L	12.8	12.4	12.5	0.1	12.5	12.6	0.1
67_L	12.6	12.3	12.5	0.2	12.3	12.5	0.2
68_L	12.6	12.2	12.6	0.3	12.2	12.6	0.3
69_L	11.8	11.5	11.9	0.4	11.4	11.8	0.4
70_L	11.1	10.8	11.3	0.6	10.6	11.1	0.5
71_L	11.1	10.8	11.3	0.5	10.6	11.1	0.5
72_L	11.1	10.8	10.9	0.1	10.5	10.6	0.1
73_L	12.2	11.8	11.3	-0.6	11.6	11.1	-0.5
74_L	11.6	11.3	11.0	-0.3	11.1	10.8	-0.3

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
75_L	11.2	10.8	10.9	0.0	10.6	10.6	0.0
76_L	13.1	12.6	12.0	-0.6	12.3	11.8	-0.5
77_L	11.6	11.2	11.2	0.0	11.0	11.0	0.0
78_M	12.0	11.7	11.4	-0.3	11.5	11.2	-0.3
79_M	12.3	11.9	11.3	-0.7	11.8	11.1	-0.7
80_M	12.0	11.7	11.4	-0.3	11.6	11.3	-0.3
81_M	12.6	12.3	12.4	0.1	12.4	12.4	0.1
82_N	11.9	11.6	11.6	0.0	11.5	11.5	0.0
83_N	11.8	11.5	11.3	-0.2	11.3	11.1	-0.2
84_N	12.4	12.0	11.3	-0.7	11.9	11.1	-0.7
85_N	11.6	11.2	10.9	-0.3	11.1	10.8	-0.3

Table B5.4 Modelled verified annual mean NO_x concentrations (in μgm^{-3}) for ecological receptors, with IAN 170 adjustment. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_0	60.5	56.6	61.4	4.7	55.9	59.7	3.8
T1_Glynllifon_5	43.5	40.6	43.6	3.0	39.8	42.1	2.2
T1_Glynllifon_10	35.8	33.4	35.6	2.2	32.7	34.2	1.6
T1_Glynllifon_15	31.2	29.0	30.8	1.8	28.3	29.5	1.2
T1_Glynllifon_20	28.0	26.1	27.5	1.4	25.4	26.4	1.0
T1_Glynllifon_25	25.7	23.9	25.1	1.2	23.3	24.1	0.8
T1_Glynllifon_30	24.0	22.3	23.3	1.1	21.7	22.3	0.7
T1_Glynllifon_35	22.6	21.0	21.9	0.9	20.4	21.0	0.6
T1_Glynllifon_40	21.5	20.0	20.8	0.8	19.4	19.9	0.5
T1_Glynllifon_45	20.6	19.1	19.9	0.8	18.6	19.0	0.5
T1_Glynllifon_50	19.9	18.4	19.1	0.7	17.9	18.3	0.4
T1_Glynllifon_55	19.2	17.8	18.5	0.6	17.3	17.7	0.4
T1_Glynllifon_60	18.7	17.3	17.9	0.6	16.8	17.1	0.3
T1_Glynllifon_65	18.2	16.9	17.4	0.5	16.4	16.7	0.3
T1_Glynllifon_70	17.8	16.5	17.0	0.5	16.0	16.3	0.3
T1_Glynllifon_75	17.4	16.1	16.6	0.5	15.6	15.9	0.3
T1_Glynllifon_80	17.1	15.8	16.3	0.5	15.3	15.6	0.3
T1_Glynllifon_85	16.8	15.6	16.0	0.4	15.1	15.3	0.2
T1_Glynllifon_90	16.5	15.3	15.7	0.4	14.8	15.1	0.2
T1_Glynllifon_95	16.3	15.1	15.5	0.4	14.6	14.8	0.2
T1_Glynllifon_100	16.1	14.9	15.3	0.4	14.4	14.6	0.2
T1_Glynllifon_105	15.9	14.7	15.1	0.4	14.2	14.4	0.2
T1_Glynllifon_110	15.7	14.5	14.9	0.3	14.0	14.2	0.2
T1_Glynllifon_115	15.5	14.4	14.7	0.3	13.9	14.1	0.2
T1_Glynllifon_120	15.4	14.2	14.5	0.3	13.7	13.9	0.2
T1_Glynllifon_125	15.2	14.1	14.4	0.3	13.6	13.8	0.2
T1_Glynllifon_130	15.1	13.9	14.2	0.3	13.5	13.6	0.2
T1_Glynllifon_135	15.0	13.8	14.1	0.3	13.4	13.5	0.2
T1_Glynllifon_140	14.8	13.7	14.0	0.3	13.3	13.4	0.2
T1_Glynllifon_145	14.7	13.6	13.9	0.3	13.2	13.3	0.1
T1_Glynllifon_150	14.6	13.5	13.8	0.3	13.1	13.2	0.1
T1_Glynllifon_155	14.5	13.4	13.7	0.3	13.0	13.1	0.1
T1_Glynllifon_160	14.4	13.3	13.6	0.2	12.9	13.0	0.1
T1_Glynllifon_165	14.3	13.2	13.5	0.2	12.8	12.9	0.1
T1_Glynllifon_170	14.3	13.2	13.4	0.2	12.7	12.9	0.1
T1_Glynllifon_175	14.2	13.1	13.3	0.2	12.7	12.8	0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_180	14.1	13.0	13.3	0.2	12.6	12.7	0.1
T1_Glynllifon_185	14.0	13.0	13.2	0.2	12.5	12.6	0.1
T1_Glynllifon_190	14.0	12.9	13.1	0.2	12.5	12.6	0.1
T1_Glynllifon_195	13.9	12.8	13.1	0.2	12.4	12.5	0.1
T1_Glynllifon_200	13.8	12.8	13.0	0.2	12.4	12.5	0.1
T2_Glynllifon_0	36.4	35.5	47.0	11.5	35.9	44.3	8.4
T2_Glynllifon_5	29.7	28.7	37.0	8.3	28.8	34.5	5.7
T2_Glynllifon_10	25.9	24.9	31.4	6.4	24.8	29.1	4.3
T2_Glynllifon_15	23.4	22.5	27.7	5.3	22.2	25.6	3.4
T2_Glynllifon_20	21.7	20.7	25.2	4.4	20.4	23.3	2.8
T2_Glynllifon_25	20.4	19.4	23.3	3.8	19.1	21.5	2.4
T2_Glynllifon_30	19.4	18.4	21.8	3.4	18.1	20.2	2.1
T2_Glynllifon_35	18.6	17.6	20.7	3.0	17.3	19.1	1.8
T2_Glynllifon_40	17.9	17.0	19.7	2.7	16.6	18.3	1.6
T2_Glynllifon_45	17.4	16.5	18.9	2.5	16.1	17.6	1.5
T2_Glynllifon_50	17.0	16.0	18.3	2.3	15.6	17.0	1.3
T2_Glynllifon_55	16.6	15.6	17.7	2.1	15.2	16.5	1.2
T2_Glynllifon_60	16.2	15.3	17.3	2.0	14.9	16.0	1.1
T2_Glynllifon_65	15.9	15.0	16.8	1.8	14.6	15.7	1.1
T2_Glynllifon_70	15.7	14.7	16.5	1.7	14.4	15.3	1.0
T2_Glynllifon_75	15.5	14.5	16.1	1.6	14.1	15.1	0.9
T2_Glynllifon_80	15.3	14.3	15.9	1.5	13.9	14.8	0.9
T2_Glynllifon_85	15.1	14.1	15.6	1.5	13.8	14.6	0.8
T2_Glynllifon_90	14.9	14.0	15.4	1.4	13.6	14.4	0.8
T2_Glynllifon_95	14.8	13.8	15.2	1.3	13.4	14.2	0.7
T2_Glynllifon_100	14.6	13.7	15.0	1.3	13.3	14.0	0.7
T2_Glynllifon_105	14.5	13.6	14.8	1.2	13.2	13.9	0.7
T2_Glynllifon_110	14.4	13.5	14.6	1.2	13.1	13.7	0.6
T2_Glynllifon_115	14.3	13.4	14.5	1.1	13.0	13.6	0.6
T2_Glynllifon_120	14.2	13.3	14.3	1.1	12.9	13.5	0.6
T2_Glynllifon_125	14.1	13.2	14.2	1.0	12.8	13.4	0.6
T2_Glynllifon_130	14.0	13.1	14.1	1.0	12.7	13.3	0.5
T2_Glynllifon_135	14.0	13.0	14.0	1.0	12.6	13.2	0.5
T2_Glynllifon_140	13.9	12.9	13.9	0.9	12.6	13.1	0.5
T2_Glynllifon_145	13.8	12.9	13.8	0.9	12.5	13.0	0.5
T2_Glynllifon_150	13.8	12.8	13.7	0.9	12.4	12.9	0.5
T2_Glynllifon_155	13.7	12.8	13.6	0.9	12.4	12.8	0.5
T2_Glynllifon_160	13.6	12.7	13.5	0.8	12.3	12.8	0.4

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T2_Glynllifon_165	13.6	12.7	13.5	0.8	12.3	12.7	0.4
T2_Glynllifon_170	13.5	12.6	13.4	0.8	12.2	12.6	0.4
T2_Glynllifon_175	13.5	12.6	13.3	0.8	12.2	12.6	0.4
T2_Glynllifon_180	13.5	12.5	13.3	0.7	12.1	12.5	0.4
T2_Glynllifon_185	13.4	12.5	13.2	0.7	12.1	12.5	0.4
T2_Glynllifon_190	13.4	12.4	13.1	0.7	12.1	12.4	0.4
T2_Glynllifon_195	13.3	12.4	13.1	0.7	12.0	12.4	0.4
T3_Afon Gwyrfai_0	85.9	82.1	32.6	-49.5	82.7	41.6	-41.1
T3_Afon Gwyrfai_5	63.0	60.1	27.0	-33.1	60.1	34.1	-25.9
T3_Afon Gwyrfai_10	51.1	48.6	24.0	-24.6	48.4	29.9	-18.5
T3_Afon Gwyrfai_15	43.6	41.4	22.0	-19.3	41.0	27.0	-14.0
T3_Afon Gwyrfai_20	38.5	36.4	20.6	-15.8	36.0	24.9	-11.1
T3_Afon Gwyrfai_25	34.8	32.9	19.6	-13.2	32.4	23.4	-9.0
T3_Afon Gwyrfai_30	32.0	30.2	18.8	-11.4	29.7	22.1	-7.6
T3_Afon Gwyrfai_35	29.8	28.1	18.2	-9.9	27.5	21.1	-6.4
T3_Afon Gwyrfai_40	28.0	26.4	17.7	-8.7	25.9	20.3	-5.6
T3_Afon Gwyrfai_45	26.6	25.0	17.2	-7.8	24.5	19.6	-4.9
T3_Afon Gwyrfai_50	25.4	23.9	16.8	-7.0	23.3	19.0	-4.4
T3_Afon Gwyrfai_55	24.4	22.9	16.5	-6.4	22.4	18.5	-3.9
T3_Afon Gwyrfai_-5	89.5	85.6	33.8	-51.8	86.3	42.9	-43.3
T3_Afon Gwyrfai_-10	61.5	58.6	26.8	-31.8	58.6	33.7	-24.9
T3_Afon Gwyrfai_-15	49.9	47.4	23.8	-23.6	47.2	29.5	-17.7
T3_Afon Gwyrfai_-20	43.0	40.8	22.0	-18.8	40.4	26.8	-13.6
T3_Afon Gwyrfai_-25	38.2	36.2	20.7	-15.5	35.8	24.8	-10.9
T3_Afon Gwyrfai_-30	34.8	32.9	19.7	-13.2	32.4	23.4	-9.0
T3_Afon Gwyrfai_-35	32.1	30.3	18.9	-11.4	29.8	22.2	-7.7
T3_Afon Gwyrfai_-40	30.0	28.3	18.3	-10.0	27.8	21.2	-6.6
T4_Afon Gwyrfai_0	12.2	11.3	38.8	27.5	10.9	25.1	14.2
T4_Afon Gwyrfai_5	12.2	11.3	31.4	20.2	10.9	21.3	10.4
T4_Afon Gwyrfai_10	12.2	11.3	27.3	16.0	10.9	19.2	8.3
T4_Afon Gwyrfai_15	12.2	11.3	24.6	13.3	10.9	17.8	6.9
T4_Afon Gwyrfai_20	12.2	11.3	22.7	11.4	10.9	16.8	5.9
T4_Afon Gwyrfai_25	12.2	11.2	21.2	10.0	10.9	16.0	5.2
T4_Afon Gwyrfai_-5	12.2	11.3	41.7	30.4	10.9	26.5	15.6
T4_Afon Gwyrfai_-10	12.2	11.3	33.9	22.6	10.9	22.5	11.6
T4_Afon Gwyrfai_-15	12.2	11.3	29.3	18.0	10.9	20.2	9.2
T4_Afon Gwyrfai_-20	12.2	11.3	26.3	15.0	10.9	18.6	7.7
T5_Afon Gwyrfai_0	13.1	12.2	12.3	0.1	11.9	11.8	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T5_Afon Gwyrfai_5	12.6	11.7	11.9	0.2	11.3	11.4	0.0
T5_Afon Gwyrfai_10	12.4	11.5	11.7	0.3	11.1	11.2	0.1
T5_Afon Gwyrfai_15	12.2	11.3	11.6	0.3	11.0	11.1	0.1
T5_Afon Gwyrfai_20	12.1	11.2	11.5	0.3	10.9	11.0	0.1
T5_Afon Gwyrfai_25	12.1	11.2	11.5	0.3	10.8	10.9	0.1
T5_Afon Gwyrfai_30	12.0	11.1	11.4	0.3	10.8	10.9	0.1
T5_Afon Gwyrfai_35	12.0	11.1	11.4	0.3	10.7	10.9	0.1
T5_Afon Gwyrfai_40	12.0	11.0	11.4	0.3	10.7	10.8	0.1
T5_Afon Gwyrfai_45	11.9	11.0	11.4	0.3	10.7	10.8	0.1
T5_Afon Gwyrfai_50	11.9	11.0	11.3	0.3	10.6	10.8	0.2
T5_Afon Gwyrfai_-5	13.3	12.4	12.5	0.1	12.1	12.0	-0.1
T5_Afon Gwyrfai_-10	12.8	11.9	12.1	0.2	11.6	11.6	0.0
T5_Afon Gwyrfai_-15	12.6	11.7	11.9	0.2	11.4	11.4	0.0
T5_Afon Gwyrfai_-20	12.5	11.6	11.8	0.3	11.2	11.3	0.1
T5_Afon Gwyrfai_-25	12.4	11.5	11.8	0.3	11.1	11.2	0.1
T5_Afon Gwyrfai_-30	12.3	11.4	11.7	0.3	11.1	11.2	0.1
T5_Afon Gwyrfai_-35	12.3	11.4	11.7	0.3	11.0	11.1	0.1
T5_Afon Gwyrfai_-40	12.3	11.3	11.7	0.3	11.0	11.1	0.1
T6_Afon Gwyrfai_0	15.6	14.4	13.1	-1.3	14.0	13.2	-0.8
T6_Afon Gwyrfai_5	14.4	13.3	12.4	-0.9	12.9	12.3	-0.5
T6_Afon Gwyrfai_10	13.8	12.7	12.0	-0.7	12.3	11.9	-0.4
T6_Afon Gwyrfai_15	13.4	12.3	11.8	-0.6	11.9	11.6	-0.3
T6_Afon Gwyrfai_20	13.1	12.1	11.6	-0.5	11.7	11.4	-0.3
T6_Afon Gwyrfai_25	12.9	11.9	11.5	-0.4	11.5	11.3	-0.2
T6_Afon Gwyrfai_30	12.8	11.8	11.4	-0.4	11.4	11.2	-0.2
T6_Afon Gwyrfai_35	12.6	11.6	11.3	-0.3	11.3	11.1	-0.2
T6_Afon Gwyrfai_40	12.5	11.6	11.3	-0.3	11.2	11.0	-0.2
T6_Afon Gwyrfai_45	12.4	11.5	11.2	-0.3	11.1	10.9	-0.1
T6_Afon Gwyrfai_50	12.4	11.4	11.2	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_55	12.3	11.3	11.1	-0.2	11.0	10.8	-0.1
T6_Afon Gwyrfai_60	12.3	11.3	11.1	-0.2	10.9	10.8	-0.1
T6_Afon Gwyrfai_65	12.2	11.3	11.1	-0.2	10.9	10.8	-0.1
T6_Afon Gwyrfai_70	12.2	11.2	11.0	-0.2	10.8	10.7	-0.1
T6_Afon Gwyrfai_75	12.1	11.2	11.0	-0.2	10.8	10.7	-0.1
T6_Afon Gwyrfai_80	12.1	11.1	11.0	-0.2	10.8	10.7	-0.1
T6_Afon Gwyrfai_85	12.1	11.1	11.0	-0.1	10.7	10.7	-0.1
T6_Afon Gwyrfai_90	12.0	11.1	11.0	-0.1	10.7	10.6	-0.1
T6_Afon Gwyrfai_95	12.0	11.1	10.9	-0.1	10.7	10.6	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_100	12.0	11.0	10.9	-0.1	10.7	10.6	-0.1
T6_Afon Gwyrfai_105	12.0	11.0	10.9	-0.1	10.6	10.6	-0.1
T6_Afon Gwyrfai_110	11.9	11.0	10.9	-0.1	10.6	10.6	-0.1
T6_Afon Gwyrfai_115	11.9	11.0	10.9	-0.1	10.6	10.5	-0.1
T6_Afon Gwyrfai_120	11.9	11.0	10.9	-0.1	10.6	10.5	-0.1
T6_Afon Gwyrfai_125	11.9	11.0	10.8	-0.1	10.6	10.5	-0.1
T6_Afon Gwyrfai_130	11.9	10.9	10.8	-0.1	10.6	10.5	-0.1
T6_Afon Gwyrfai_135	11.9	10.9	10.8	-0.1	10.5	10.5	-0.1
T6_Afon Gwyrfai_140	11.8	10.9	10.8	-0.1	10.5	10.5	-0.1
T6_Afon Gwyrfai_145	11.8	10.9	10.8	-0.1	10.5	10.5	-0.1
T6_Afon Gwyrfai_150	11.8	10.9	10.8	-0.1	10.5	10.5	0.0
T6_Afon Gwyrfai_155	11.8	10.9	10.8	-0.1	10.5	10.4	0.0
T6_Afon Gwyrfai_160	11.8	10.9	10.8	-0.1	10.5	10.4	0.0
T6_Afon Gwyrfai_165	11.8	10.8	10.8	-0.1	10.5	10.4	0.0
T6_Afon Gwyrfai_170	11.8	10.8	10.8	-0.1	10.5	10.4	0.0
T6_Afon Gwyrfai_175	11.8	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_180	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_185	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_190	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_195	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_-5	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_-10	11.7	10.8	10.7	-0.1	10.4	10.4	0.0
T6_Afon Gwyrfai_-100	12.2	11.3	11.1	-0.1	10.9	10.8	-0.1
T6_Afon Gwyrfai_-105	12.2	11.2	11.1	-0.1	10.9	10.8	-0.1
T6_Afon Gwyrfai_-110	12.2	11.2	11.1	-0.1	10.8	10.8	-0.1
T6_Afon Gwyrfai_-115	12.2	11.2	11.1	-0.1	10.8	10.8	-0.1
T6_Afon Gwyrfai_-120	12.2	11.2	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-125	12.1	11.2	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-130	12.1	11.2	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-135	12.1	11.2	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-140	12.1	11.2	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-145	12.1	11.1	11.1	-0.1	10.8	10.7	-0.1
T6_Afon Gwyrfai_-15	11.7	10.8	10.7	-0.1	10.4	10.3	0.0
T6_Afon Gwyrfai_-150	12.1	11.1	11.0	-0.1	10.7	10.7	-0.1
T6_Afon Gwyrfai_-155	12.1	11.1	11.0	-0.1	10.7	10.7	0.0
T6_Afon Gwyrfai_-160	12.1	11.1	11.0	-0.1	10.7	10.7	0.0
T6_Afon Gwyrfai_-165	12.1	11.1	11.0	-0.1	10.7	10.7	0.0
T6_Afon Gwyrfai_-170	12.0	11.1	11.0	-0.1	10.7	10.7	0.0

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_-175	12.0	11.1	11.0	-0.1	10.7	10.7	0.0
T6_Afon Gwyrfai_-180	12.0	11.1	11.0	-0.1	10.7	10.6	0.0
T6_Afon Gwyrfai_-185	12.0	11.1	11.0	-0.1	10.7	10.6	0.0
T6_Afon Gwyrfai_-190	12.0	11.1	11.0	-0.1	10.7	10.6	0.0
T6_Afon Gwyrfai_-20	11.7	10.7	10.7	-0.1	10.4	10.3	0.0
T6_Afon Gwyrfai_-25	11.7	10.7	10.7	-0.1	10.4	10.3	0.0
T6_Afon Gwyrfai_-30	16.2	15.0	13.4	-1.5	14.5	13.6	-0.9
T6_Afon Gwyrfai_-35	14.2	13.1	12.3	-0.8	12.7	12.2	-0.5
T6_Afon Gwyrfai_-40	13.6	12.5	11.9	-0.6	12.1	11.8	-0.4
T6_Afon Gwyrfai_-45	13.2	12.2	11.7	-0.5	11.8	11.5	-0.3
T6_Afon Gwyrfai_-50	12.9	11.9	11.5	-0.4	11.5	11.3	-0.2
T6_Afon Gwyrfai_-55	12.8	11.8	11.4	-0.3	11.4	11.2	-0.2
T6_Afon Gwyrfai_-60	12.6	11.6	11.4	-0.3	11.3	11.1	-0.2
T6_Afon Gwyrfai_-65	12.5	11.6	11.3	-0.3	11.2	11.0	-0.1
T6_Afon Gwyrfai_-70	12.5	11.5	11.3	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_-75	12.4	11.4	11.2	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_-80	12.4	11.4	11.2	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_-85	12.3	11.3	11.2	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_-90	12.3	11.3	11.1	-0.2	10.9	10.8	-0.1
T6_Afon Gwyrfai_-95	12.2	11.3	11.1	-0.2	10.9	10.8	-0.1
T7_Pant Cae Haidd_0	23.4	21.7	20.2	-1.5	21.2	20.2	-1.0
T7_Pant Cae Haidd_5	19.0	17.6	16.7	-0.9	17.1	16.5	-0.6
T7_Pant Cae Haidd_10	17.1	15.8	15.1	-0.7	15.4	15.0	-0.4
T7_Pant Cae Haidd_15	15.9	14.7	14.2	-0.5	14.3	14.0	-0.3
T7_Pant Cae Haidd_20	15.2	14.0	13.6	-0.4	13.6	13.3	-0.3
T7_Pant Cae Haidd_25	14.6	13.5	13.1	-0.4	13.1	12.9	-0.2
T7_Pant Cae Haidd_30	14.2	13.1	12.8	-0.3	12.7	12.5	-0.2
T7_Pant Cae Haidd_35	13.9	12.8	12.5	-0.3	12.4	12.2	-0.2
T7_Pant Cae Haidd_40	13.6	12.6	12.3	-0.3	12.2	12.0	-0.2
T7_Pant Cae Haidd_45	13.4	12.4	12.1	-0.2	12.0	11.8	-0.1
T7_Pant Cae Haidd_50	13.2	12.2	12.0	-0.2	11.8	11.7	-0.1
T7_Pant Cae Haidd_55	13.1	12.0	11.9	-0.2	11.7	11.5	-0.1
T7_Pant Cae Haidd_60	12.9	11.9	11.8	-0.2	11.5	11.4	-0.1
T7_Pant Cae Haidd_65	12.8	11.8	11.7	-0.2	11.4	11.3	-0.1
T7_Pant Cae Haidd_70	12.7	11.7	11.6	-0.2	11.3	11.3	-0.1
T7_Pant Cae Haidd_75	12.6	11.7	11.5	-0.1	11.3	11.2	-0.1
T7_Pant Cae Haidd_80	12.6	11.6	11.5	-0.1	11.2	11.1	-0.1
T7_Pant Cae Haidd_85	12.5	11.5	11.4	-0.1	11.1	11.1	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T7_Pant Cae Haidd_90	12.4	11.5	11.3	-0.1	11.1	11.0	-0.1
T7_Pant Cae Haidd_95	12.4	11.4	11.3	-0.1	11.0	11.0	-0.1
T7_Pant Cae Haidd_100	12.3	11.4	11.3	-0.1	11.0	10.9	-0.1
T7_Pant Cae Haidd_105	12.3	11.3	11.2	-0.1	10.9	10.9	-0.1
T7_Pant Cae Haidd_110	12.2	11.3	11.2	-0.1	10.9	10.9	-0.1
T7_Pant Cae Haidd_115	12.2	11.3	11.2	-0.1	10.9	10.8	-0.1
T7_Pant Cae Haidd_120	12.2	11.2	11.1	-0.1	10.8	10.8	-0.1
T7_Pant Cae Haidd_125	12.1	11.2	11.1	-0.1	10.8	10.8	0.0
T7_Pant Cae Haidd_130	12.1	11.2	11.1	-0.1	10.8	10.7	0.0
T7_Pant Cae Haidd_135	12.1	11.1	11.1	-0.1	10.8	10.7	0.0
T7_Pant Cae Haidd_140	12.1	11.1	11.0	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_145	12.0	11.1	11.0	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_150	12.0	11.1	11.0	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_155	12.0	11.1	11.0	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_160	12.0	11.0	11.0	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_165	12.0	11.0	11.0	-0.1	10.6	10.6	0.0
T7_Pant Cae Haidd_170	11.9	11.0	10.9	-0.1	10.6	10.6	0.0
T7_Pant Cae Haidd_175	11.9	11.0	10.9	-0.1	10.6	10.6	0.0
T7_Pant Cae Haidd_180	11.9	11.0	10.9	-0.1	10.6	10.6	0.0
T7_Pant Cae Haidd_185	11.9	11.0	10.9	-0.1	10.6	10.5	0.0
T7_Pant Cae Haidd_190	11.9	10.9	10.9	-0.1	10.6	10.5	0.0
T7_Pant Cae Haidd_195	11.9	10.9	10.9	-0.1	10.6	10.5	0.0
T7_Pant Cae Haidd_200	11.8	10.9	10.9	-0.1	10.5	10.5	0.0
T7_Pant Cae Haidd_205	11.8	10.9	10.9	-0.1	10.5	10.5	0.0

Table B5.5 Modelled verified annual mean NO_x concentrations (in μgm^{-3}) for ecological receptors, without IAN 170 adjustment. Change is defined as change with scheme (Do Some – Do Min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_0	60.5	41.1	44.5	3.4	24.2	25.9	1.7
T1_Glynllifon_5	43.5	30.6	32.9	2.3	19.5	20.6	1.1
T1_Glynllifon_10	35.8	26.0	27.7	1.7	17.4	18.2	0.8
T1_Glynllifon_15	31.2	23.1	24.5	1.4	16.1	16.8	0.7
T1_Glynllifon_20	28.0	21.2	22.3	1.2	15.2	15.8	0.6
T1_Glynllifon_25	25.7	19.8	20.8	1.0	14.6	15.1	0.5
T1_Glynllifon_30	24.0	18.7	19.6	0.9	14.1	14.5	0.4
T1_Glynllifon_35	22.6	17.8	18.6	0.8	13.7	14.1	0.4
T1_Glynllifon_40	21.5	17.2	17.9	0.7	13.4	13.7	0.4
T1_Glynllifon_45	20.6	16.6	17.3	0.7	13.1	13.5	0.3
T1_Glynllifon_50	19.9	16.2	16.8	0.6	12.9	13.2	0.3
T1_Glynllifon_55	19.2	15.8	16.3	0.6	12.8	13.0	0.3
T1_Glynllifon_60	18.7	15.4	15.9	0.5	12.6	12.9	0.3
T1_Glynllifon_65	18.2	15.1	15.6	0.5	12.5	12.7	0.2
T1_Glynllifon_70	17.8	14.9	15.3	0.5	12.3	12.6	0.2
T1_Glynllifon_75	17.4	14.6	15.1	0.4	12.2	12.5	0.2
T1_Glynllifon_80	17.1	14.4	14.9	0.4	12.1	12.4	0.2
T1_Glynllifon_85	16.8	14.3	14.7	0.4	12.1	12.3	0.2
T1_Glynllifon_90	16.5	14.1	14.5	0.4	12.0	12.2	0.2
T1_Glynllifon_95	16.3	13.9	14.3	0.4	11.9	12.1	0.2
T1_Glynllifon_100	16.1	13.8	14.2	0.3	11.9	12.0	0.2
T1_Glynllifon_105	15.9	13.7	14.0	0.3	11.8	12.0	0.2
T1_Glynllifon_110	15.7	13.6	13.9	0.3	11.7	11.9	0.2
T1_Glynllifon_115	15.5	13.5	13.8	0.3	11.7	11.8	0.2
T1_Glynllifon_120	15.4	13.4	13.7	0.3	11.7	11.8	0.1
T1_Glynllifon_125	15.2	13.3	13.6	0.3	11.6	11.8	0.1
T1_Glynllifon_130	15.1	13.2	13.5	0.3	11.6	11.7	0.1
T1_Glynllifon_135	15.0	13.1	13.4	0.3	11.5	11.7	0.1
T1_Glynllifon_140	14.8	13.0	13.3	0.3	11.5	11.6	0.1
T1_Glynllifon_145	14.7	13.0	13.2	0.3	11.5	11.6	0.1
T1_Glynllifon_150	14.6	12.9	13.2	0.3	11.4	11.6	0.1
T1_Glynllifon_155	14.5	12.8	13.1	0.2	11.4	11.5	0.1
T1_Glynllifon_160	14.4	12.8	13.0	0.2	11.4	11.5	0.1
T1_Glynllifon_165	14.3	12.7	13.0	0.2	11.4	11.5	0.1
T1_Glynllifon_170	14.3	12.7	12.9	0.2	11.3	11.4	0.1
T1_Glynllifon_175	14.2	12.6	12.9	0.2	11.3	11.4	0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_180	14.1	12.6	12.8	0.2	11.3	11.4	0.1
T1_Glynllifon_185	14.0	12.5	12.8	0.2	11.3	11.4	0.1
T1_Glynllifon_190	14.0	12.5	12.7	0.2	11.2	11.3	0.1
T1_Glynllifon_195	13.9	12.5	12.7	0.2	11.2	11.3	0.1
T1_Glynllifon_200	13.8	12.4	12.6	0.2	11.2	11.3	0.1
T2_Glynllifon_0	36.4	29.8	39.5	9.7	21.3	26.2	5.0
T2_Glynllifon_5	29.7	24.7	31.8	7.1	18.3	21.9	3.6
T2_Glynllifon_10	25.9	21.8	27.4	5.6	16.7	19.5	2.9
T2_Glynllifon_15	23.4	19.9	24.6	4.7	15.6	18.0	2.4
T2_Glynllifon_20	21.7	18.6	22.6	4.0	14.8	16.9	2.0
T2_Glynllifon_25	20.4	17.6	21.1	3.5	14.3	16.0	1.8
T2_Glynllifon_30	19.4	16.9	20.0	3.1	13.8	15.4	1.6
T2_Glynllifon_35	18.6	16.3	19.1	2.8	13.5	14.9	1.4
T2_Glynllifon_40	17.9	15.8	18.3	2.5	13.2	14.5	1.3
T2_Glynllifon_45	17.4	15.4	17.7	2.3	13.0	14.1	1.2
T2_Glynllifon_50	17.0	15.0	17.2	2.1	12.8	13.8	1.1
T2_Glynllifon_55	16.6	14.7	16.7	2.0	12.6	13.6	1.0
T2_Glynllifon_60	16.2	14.5	16.3	1.9	12.4	13.4	0.9
T2_Glynllifon_65	15.9	14.3	16.0	1.7	12.3	13.2	0.9
T2_Glynllifon_70	15.7	14.1	15.7	1.6	12.2	13.0	0.8
T2_Glynllifon_75	15.5	13.9	15.5	1.6	12.1	12.9	0.8
T2_Glynllifon_80	15.3	13.7	15.2	1.5	12.0	12.8	0.7
T2_Glynllifon_85	15.1	13.6	15.0	1.4	11.9	12.7	0.7
T2_Glynllifon_90	14.9	13.5	14.8	1.3	11.9	12.5	0.7
T2_Glynllifon_95	14.8	13.4	14.6	1.3	11.8	12.5	0.6
T2_Glynllifon_100	14.6	13.3	14.5	1.2	11.7	12.4	0.6
T2_Glynllifon_105	14.5	13.2	14.3	1.2	11.7	12.3	0.6
T2_Glynllifon_110	14.4	13.1	14.2	1.1	11.6	12.2	0.6
T2_Glynllifon_115	14.3	13.0	14.1	1.1	11.6	12.1	0.5
T2_Glynllifon_120	14.2	12.9	14.0	1.0	11.6	12.1	0.5
T2_Glynllifon_125	14.1	12.9	13.9	1.0	11.5	12.0	0.5
T2_Glynllifon_130	14.0	12.8	13.8	1.0	11.5	12.0	0.5
T2_Glynllifon_135	14.0	12.7	13.7	0.9	11.4	11.9	0.5
T2_Glynllifon_140	13.9	12.7	13.6	0.9	11.4	11.9	0.5
T2_Glynllifon_145	13.8	12.6	13.5	0.9	11.4	11.8	0.4
T2_Glynllifon_150	13.8	12.6	13.5	0.9	11.4	11.8	0.4
T2_Glynllifon_155	13.7	12.5	13.4	0.8	11.3	11.8	0.4
T2_Glynllifon_160	13.6	12.5	13.3	0.8	11.3	11.7	0.4

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T2_Glynllifon_165	13.6	12.5	13.3	0.8	11.3	11.7	0.4
T2_Glynllifon_170	13.5	12.4	13.2	0.8	11.3	11.7	0.4
T2_Glynllifon_175	13.5	12.4	13.1	0.8	11.2	11.6	0.4
T2_Glynllifon_180	13.5	12.4	13.1	0.7	11.2	11.6	0.4
T2_Glynllifon_185	13.4	12.3	13.0	0.7	11.2	11.6	0.4
T2_Glynllifon_190	13.4	12.3	13.0	0.7	11.2	11.5	0.4
T2_Glynllifon_195	13.3	12.3	13.0	0.7	11.2	11.5	0.3
T3_Afon Gwyrfai_0	85.9	61.6	24.5	-37.1	36.5	18.4	-18.1
T3_Afon Gwyrfai_5	63.0	46.1	20.7	-25.4	28.7	16.3	-12.4
T3_Afon Gwyrfai_10	51.1	38.0	18.8	-19.3	24.6	15.2	-9.4
T3_Afon Gwyrfai_15	43.6	33.0	17.5	-15.4	22.1	14.5	-7.5
T3_Afon Gwyrfai_20	38.5	29.5	16.7	-12.8	20.3	14.1	-6.2
T3_Afon Gwyrfai_25	34.8	27.0	16.1	-10.9	19.0	13.7	-5.3
T3_Afon Gwyrfai_30	32.0	25.1	15.6	-9.4	18.1	13.5	-4.6
T3_Afon Gwyrfai_35	29.8	23.6	15.3	-8.3	17.3	13.3	-4.1
T3_Afon Gwyrfai_40	28.0	22.4	15.0	-7.4	16.7	13.1	-3.6
T3_Afon Gwyrfai_45	26.6	21.4	14.8	-6.7	16.3	13.0	-3.3
T3_Afon Gwyrfai_50	25.4	20.6	14.6	-6.1	15.9	12.9	-3.0
T3_Afon Gwyrfai_55	24.4	20.0	14.4	-5.6	15.5	12.8	-2.7
T3_Afon Gwyrfai_-5	89.5	64.2	25.4	-38.9	38.0	18.9	-19.1
T3_Afon Gwyrfai_-10	61.5	45.2	20.7	-24.5	28.4	16.3	-12.1
T3_Afon Gwyrfai_-15	49.9	37.4	18.8	-18.6	24.4	15.2	-9.2
T3_Afon Gwyrfai_-20	43.0	32.6	17.6	-15.0	22.0	14.6	-7.4
T3_Afon Gwyrfai_-25	38.2	29.4	16.8	-12.6	20.3	14.1	-6.2
T3_Afon Gwyrfai_-30	34.8	27.1	16.2	-10.9	19.1	13.8	-5.3
T3_Afon Gwyrfai_-35	32.1	25.3	15.8	-9.5	18.2	13.5	-4.7
T3_Afon Gwyrfai_-40	30.0	23.8	15.4	-8.4	17.4	13.3	-4.1
T4_Afon Gwyrfai_0	12.2	11.5	39.5	28.0	10.8	24.9	14.1
T4_Afon Gwyrfai_5	12.2	11.5	32.0	20.5	10.8	21.1	10.3
T4_Afon Gwyrfai_10	12.2	11.5	27.8	16.3	10.8	19.0	8.2
T4_Afon Gwyrfai_15	12.2	11.5	25.0	13.6	10.8	17.6	6.8
T4_Afon Gwyrfai_20	12.2	11.5	23.1	11.6	10.8	16.6	5.8
T4_Afon Gwyrfai_25	12.2	11.4	21.6	10.2	10.8	15.9	5.1
T4_Afon Gwyrfai_-5	12.2	11.5	42.4	30.9	10.8	26.2	15.4
T4_Afon Gwyrfai_-10	12.2	11.5	34.4	22.9	10.8	22.2	11.4
T4_Afon Gwyrfai_-15	12.2	11.5	29.8	18.3	10.8	19.9	9.1
T4_Afon Gwyrfai_-20	12.2	11.5	26.8	15.3	10.8	18.4	7.6
T5_Afon Gwyrfai_0	13.1	12.3	12.4	0.1	11.4	11.3	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T5_Afon Gwyrfai_5	12.6	11.9	12.1	0.2	11.1	11.1	0.0
T5_Afon Gwyrfai_10	12.4	11.7	11.9	0.3	11.0	11.0	0.1
T5_Afon Gwyrfai_15	12.2	11.6	11.9	0.3	10.9	11.0	0.1
T5_Afon Gwyrfai_20	12.1	11.5	11.8	0.3	10.8	11.0	0.1
T5_Afon Gwyrfai_25	12.1	11.4	11.8	0.3	10.8	10.9	0.1
T5_Afon Gwyrfai_30	12.0	11.4	11.7	0.3	10.8	10.9	0.1
T5_Afon Gwyrfai_35	12.0	11.4	11.7	0.3	10.7	10.9	0.1
T5_Afon Gwyrfai_40	12.0	11.3	11.7	0.3	10.7	10.9	0.1
T5_Afon Gwyrfai_45	11.9	11.3	11.7	0.3	10.7	10.9	0.2
T5_Afon Gwyrfai_50	11.9	11.3	11.6	0.3	10.7	10.9	0.2
T5_Afon Gwyrfai_-5	13.3	12.5	12.5	0.1	11.5	11.4	-0.1
T5_Afon Gwyrfai_-10	12.8	12.1	12.2	0.2	11.2	11.2	0.0
T5_Afon Gwyrfai_-15	12.6	11.9	12.1	0.2	11.1	11.1	0.0
T5_Afon Gwyrfai_-20	12.5	11.8	12.0	0.3	11.0	11.1	0.1
T5_Afon Gwyrfai_-25	12.4	11.7	12.0	0.3	11.0	11.1	0.1
T5_Afon Gwyrfai_-30	12.3	11.7	12.0	0.3	10.9	11.0	0.1
T5_Afon Gwyrfai_-35	12.3	11.6	11.9	0.3	10.9	11.0	0.1
T5_Afon Gwyrfai_-40	12.3	11.6	11.9	0.3	10.9	11.0	0.1
T6_Afon Gwyrfai_0	15.6	13.9	12.6	-1.3	12.4	11.6	-0.7
T6_Afon Gwyrfai_5	14.4	13.1	12.2	-0.9	11.9	11.4	-0.5
T6_Afon Gwyrfai_10	13.8	12.7	12.0	-0.7	11.7	11.3	-0.4
T6_Afon Gwyrfai_15	13.4	12.4	11.8	-0.6	11.5	11.2	-0.3
T6_Afon Gwyrfai_20	13.1	12.2	11.7	-0.5	11.4	11.2	-0.3
T6_Afon Gwyrfai_25	12.9	12.1	11.7	-0.4	11.4	11.1	-0.2
T6_Afon Gwyrfai_30	12.8	12.0	11.6	-0.4	11.3	11.1	-0.2
T6_Afon Gwyrfai_35	12.6	11.9	11.6	-0.3	11.3	11.1	-0.2
T6_Afon Gwyrfai_40	12.5	11.8	11.5	-0.3	11.2	11.1	-0.2
T6_Afon Gwyrfai_45	12.4	11.8	11.5	-0.3	11.2	11.0	-0.1
T6_Afon Gwyrfai_50	12.4	11.7	11.5	-0.2	11.2	11.0	-0.1
T6_Afon Gwyrfai_55	12.3	11.7	11.4	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_60	12.3	11.6	11.4	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_65	12.2	11.6	11.4	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_70	12.2	11.6	11.4	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_75	12.1	11.5	11.4	-0.2	11.1	11.0	-0.1
T6_Afon Gwyrfai_80	12.1	11.5	11.3	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_85	12.1	11.5	11.3	-0.2	11.0	10.9	-0.1
T6_Afon Gwyrfai_90	12.0	11.5	11.3	-0.1	11.0	10.9	-0.1
T6_Afon Gwyrfai_95	12.0	11.4	11.3	-0.1	11.0	10.9	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_100	12.0	11.4	11.3	-0.1	11.0	10.9	-0.1
T6_Afon Gwyrfai_105	12.0	11.4	11.3	-0.1	11.0	10.9	-0.1
T6_Afon Gwyrfai_110	11.9	11.4	11.3	-0.1	11.0	10.9	-0.1
T6_Afon Gwyrfai_115	11.9	11.4	11.3	-0.1	11.0	10.9	-0.1
T6_Afon Gwyrfai_120	11.9	11.4	11.3	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_125	11.9	11.3	11.2	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_130	11.9	11.3	11.2	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_135	11.9	11.3	11.2	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_140	11.8	11.3	11.2	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_145	11.8	11.3	11.2	-0.1	10.9	10.9	-0.1
T6_Afon Gwyrfai_150	11.8	11.3	11.2	-0.1	10.9	10.8	-0.1
T6_Afon Gwyrfai_155	11.8	11.3	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_160	11.8	11.3	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_165	11.8	11.3	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_170	11.8	11.3	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_175	11.8	11.2	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_180	11.7	11.2	11.2	-0.1	10.9	10.8	0.0
T6_Afon Gwyrfai_185	11.7	11.2	11.2	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_190	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_195	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-5	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-10	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-100	12.2	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-105	12.2	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-110	12.2	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-115	12.2	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-120	12.2	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-125	12.1	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-130	12.1	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-135	12.1	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-140	12.1	11.6	11.5	-0.1	11.2	11.1	-0.1
T6_Afon Gwyrfai_-145	12.1	11.5	11.4	-0.1	11.1	11.1	-0.1
T6_Afon Gwyrfai_-15	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-150	12.1	11.5	11.4	-0.1	11.1	11.1	-0.1
T6_Afon Gwyrfai_-155	12.1	11.5	11.4	-0.1	11.1	11.1	-0.1
T6_Afon Gwyrfai_-160	12.1	11.5	11.4	-0.1	11.1	11.1	-0.1
T6_Afon Gwyrfai_-165	12.1	11.5	11.4	-0.1	11.1	11.1	0.0
T6_Afon Gwyrfai_-170	12.0	11.5	11.4	-0.1	11.1	11.1	0.0

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_-175	12.0	11.5	11.4	-0.1	11.1	11.1	0.0
T6_Afon Gwyrfai_-180	12.0	11.5	11.4	-0.1	11.1	11.1	0.0
T6_Afon Gwyrfai_-185	12.0	11.5	11.4	-0.1	11.1	11.1	0.0
T6_Afon Gwyrfai_-190	12.0	11.5	11.4	-0.1	11.1	11.0	0.0
T6_Afon Gwyrfai_-20	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-25	11.7	11.2	11.1	-0.1	10.8	10.8	0.0
T6_Afon Gwyrfai_-30	16.2	14.3	12.9	-1.5	12.6	11.8	-0.8
T6_Afon Gwyrfai_-35	14.2	13.0	12.2	-0.8	11.9	11.4	-0.5
T6_Afon Gwyrfai_-40	13.6	12.5	11.9	-0.6	11.6	11.3	-0.3
T6_Afon Gwyrfai_-45	13.2	12.3	11.8	-0.5	11.5	11.2	-0.3
T6_Afon Gwyrfai_-50	12.9	12.1	11.7	-0.4	11.4	11.2	-0.2
T6_Afon Gwyrfai_-55	12.8	12.0	11.6	-0.3	11.3	11.2	-0.2
T6_Afon Gwyrfai_-60	12.6	11.9	11.6	-0.3	11.3	11.1	-0.2
T6_Afon Gwyrfai_-65	12.5	11.8	11.6	-0.3	11.3	11.1	-0.1
T6_Afon Gwyrfai_-70	12.5	11.8	11.5	-0.2	11.2	11.1	-0.1
T6_Afon Gwyrfai_-75	12.4	11.7	11.5	-0.2	11.2	11.1	-0.1
T6_Afon Gwyrfai_-80	12.4	11.7	11.5	-0.2	11.2	11.1	-0.1
T6_Afon Gwyrfai_-85	12.3	11.7	11.5	-0.2	11.2	11.1	-0.1
T6_Afon Gwyrfai_-90	12.3	11.7	11.5	-0.2	11.2	11.1	-0.1
T6_Afon Gwyrfai_-95	12.2	11.6	11.5	-0.2	11.2	11.1	-0.1
T7_Pant Cae Haidd_0	23.4	19.3	18.0	-1.3	15.0	14.3	-0.7
T7_Pant Cae Haidd_5	19.0	16.2	15.4	-0.8	13.3	12.9	-0.5
T7_Pant Cae Haidd_10	17.1	14.9	14.3	-0.6	12.6	12.3	-0.4
T7_Pant Cae Haidd_15	15.9	14.1	13.6	-0.5	12.2	11.9	-0.3
T7_Pant Cae Haidd_20	15.2	13.5	13.1	-0.4	11.9	11.6	-0.2
T7_Pant Cae Haidd_25	14.6	13.1	12.8	-0.4	11.7	11.5	-0.2
T7_Pant Cae Haidd_30	14.2	12.9	12.5	-0.3	11.5	11.3	-0.2
T7_Pant Cae Haidd_35	13.9	12.6	12.3	-0.3	11.4	11.2	-0.2
T7_Pant Cae Haidd_40	13.6	12.4	12.2	-0.3	11.3	11.1	-0.1
T7_Pant Cae Haidd_45	13.4	12.3	12.1	-0.2	11.2	11.1	-0.1
T7_Pant Cae Haidd_50	13.2	12.2	12.0	-0.2	11.1	11.0	-0.1
T7_Pant Cae Haidd_55	13.1	12.1	11.9	-0.2	11.1	11.0	-0.1
T7_Pant Cae Haidd_60	12.9	12.0	11.8	-0.2	11.0	10.9	-0.1
T7_Pant Cae Haidd_65	12.8	11.9	11.7	-0.2	11.0	10.9	-0.1
T7_Pant Cae Haidd_70	12.7	11.8	11.7	-0.2	11.0	10.9	-0.1
T7_Pant Cae Haidd_75	12.6	11.8	11.6	-0.1	10.9	10.8	-0.1
T7_Pant Cae Haidd_80	12.6	11.7	11.6	-0.1	10.9	10.8	-0.1
T7_Pant Cae Haidd_85	12.5	11.7	11.5	-0.1	10.9	10.8	-0.1

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T7_Pant Cae Haidd_90	12.4	11.6	11.5	-0.1	10.9	10.8	-0.1
T7_Pant Cae Haidd_95	12.4	11.6	11.5	-0.1	10.8	10.8	-0.1
T7_Pant Cae Haidd_100	12.3	11.5	11.4	-0.1	10.8	10.8	-0.1
T7_Pant Cae Haidd_105	12.3	11.5	11.4	-0.1	10.8	10.7	-0.1
T7_Pant Cae Haidd_110	12.2	11.5	11.4	-0.1	10.8	10.7	-0.1
T7_Pant Cae Haidd_115	12.2	11.5	11.4	-0.1	10.8	10.7	-0.1
T7_Pant Cae Haidd_120	12.2	11.4	11.3	-0.1	10.8	10.7	-0.1
T7_Pant Cae Haidd_125	12.1	11.4	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_130	12.1	11.4	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_135	12.1	11.4	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_140	12.1	11.4	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_145	12.0	11.3	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_150	12.0	11.3	11.3	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_155	12.0	11.3	11.2	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_160	12.0	11.3	11.2	-0.1	10.7	10.7	0.0
T7_Pant Cae Haidd_165	12.0	11.3	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_170	11.9	11.3	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_175	11.9	11.3	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_180	11.9	11.2	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_185	11.9	11.2	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_190	11.9	11.2	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_195	11.9	11.2	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_200	11.8	11.2	11.2	-0.1	10.7	10.6	0.0
T7_Pant Cae Haidd_205	11.8	11.2	11.2	-0.1	10.7	10.6	0.0

Table B5.6 Modelled verified daily mean NO_x concentrations (in μgm^{-3}) for ecological receptors, with IAN 170 adjustment. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_0	440.3	413.2	449.8	36.6	315.7	343.6	28.0
T1_Glynllifon_5	345.7	324.3	351.6	27.3	247.4	268.2	20.8
T1_Glynllifon_10	291.6	273.5	295.5	22.0	208.4	225.1	16.8
T1_Glynllifon_15	254.9	239.1	257.5	18.5	181.9	195.9	14.0
T1_Glynllifon_20	228.3	214.1	230.1	16.0	162.7	174.7	12.0
T1_Glynllifon_25	208.1	195.1	209.2	14.1	148.1	158.6	10.5
T1_Glynllifon_30	192.1	180.1	192.7	12.6	136.6	146.0	9.3
T1_Glynllifon_35	179.3	168.1	179.5	11.4	127.4	135.8	8.4
T1_Glynllifon_40	168.7	158.1	168.6	10.5	119.8	127.4	7.6
T1_Glynllifon_45	159.8	149.7	159.4	9.7	113.4	120.3	7.0
T1_Glynllifon_50	152.1	142.6	151.6	9.0	107.8	114.3	6.5
T1_Glynllifon_55	145.5	136.3	144.8	8.4	103.1	109.1	6.0
T1_Glynllifon_60	139.7	131.0	138.9	7.9	99.0	104.6	5.6
T1_Glynllifon_65	134.5	126.1	133.6	7.5	95.2	100.5	5.3
T1_Glynllifon_70	129.9	121.7	128.8	7.1	91.9	96.8	4.9
T1_Glynllifon_75	125.7	117.8	124.5	6.8	88.9	93.5	4.7
T1_Glynllifon_80	121.8	114.2	120.6	6.5	86.1	90.5	4.4
T1_Glynllifon_85	118.3	110.9	117.0	6.2	83.6	87.8	4.2
T1_Glynllifon_90	115.1	107.8	113.7	5.9	81.3	85.3	4.0
T1_Glynllifon_95	112.2	105.1	110.8	5.7	79.2	83.0	3.8
T1_Glynllifon_100	109.6	102.7	108.2	5.5	77.3	81.0	3.7
T1_Glynllifon_105	107.1	100.4	105.7	5.3	75.6	79.1	3.5
T1_Glynllifon_110	104.8	98.2	103.3	5.1	73.9	77.3	3.4
T1_Glynllifon_115	102.5	96.1	101.0	5.0	72.3	75.6	3.3
T1_Glynllifon_120	100.4	94.0	98.8	4.8	70.8	73.9	3.1
T1_Glynllifon_125	98.4	92.2	96.8	4.7	69.3	72.4	3.0
T1_Glynllifon_130	96.5	90.4	94.9	4.5	68.0	70.9	2.9
T1_Glynllifon_135	94.7	88.7	93.1	4.4	66.7	69.5	2.8
T1_Glynllifon_140	93.0	87.2	91.4	4.3	65.5	68.3	2.7
T1_Glynllifon_145	91.4	85.6	89.8	4.2	64.4	67.0	2.6
T1_Glynllifon_150	89.9	84.2	88.3	4.1	63.3	65.8	2.6
T1_Glynllifon_155	88.4	82.8	86.8	4.0	62.2	64.7	2.5
T1_Glynllifon_160	86.9	81.4	85.3	3.8	61.2	63.6	2.4
T1_Glynllifon_165	85.6	80.2	83.9	3.8	60.2	62.5	2.3
T1_Glynllifon_170	84.3	79.0	82.6	3.7	59.3	61.6	2.3
T1_Glynllifon_175	83.1	77.8	81.4	3.6	58.4	60.6	2.2

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_180	81.9	76.7	80.2	3.5	57.6	59.7	2.2
T1_Glynllifon_185	80.8	75.7	79.1	3.4	56.8	58.9	2.1
T1_Glynllifon_190	79.7	74.7	78.0	3.4	56.0	58.1	2.1
T1_Glynllifon_195	78.8	73.8	77.1	3.3	55.4	57.4	2.0
T1_Glynllifon_200	77.8	72.9	76.1	3.3	54.7	56.7	2.0
T2_Glynllifon_0	175.8	172.4	237.8	65.3	137.9	181.0	43.1
T2_Glynllifon_5	146.3	144.2	197.5	53.3	113.6	146.7	33.1
T2_Glynllifon_10	128.5	126.3	170.7	44.4	99.0	126.1	27.1
T2_Glynllifon_15	116.2	113.8	152.1	38.3	88.9	111.9	23.0
T2_Glynllifon_20	107.0	104.6	138.4	33.8	81.5	101.6	20.1
T2_Glynllifon_25	99.9	97.5	127.7	30.2	75.7	93.6	17.8
T2_Glynllifon_30	94.2	91.7	119.2	27.5	71.1	87.2	16.1
T2_Glynllifon_35	89.6	87.1	112.3	25.2	67.4	82.1	14.7
T2_Glynllifon_40	85.9	83.1	106.4	23.3	64.4	78.0	13.6
T2_Glynllifon_45	82.8	79.9	101.4	21.5	61.9	74.6	12.7
T2_Glynllifon_50	80.3	77.5	97.7	20.2	59.9	71.8	11.9
T2_Glynllifon_55	78.3	75.5	94.7	19.2	58.3	69.6	11.3
T2_Glynllifon_60	76.6	73.7	92.1	18.4	56.9	67.6	10.7
T2_Glynllifon_65	75.0	72.2	89.8	17.6	55.6	65.9	10.2
T2_Glynllifon_70	73.6	70.8	87.8	17.0	54.5	64.3	9.8
T2_Glynllifon_75	72.4	69.6	85.9	16.4	53.5	62.9	9.4
T2_Glynllifon_80	71.3	68.5	84.3	15.8	52.6	61.6	9.1
T2_Glynllifon_85	70.3	67.4	82.7	15.3	51.8	60.5	8.7
T2_Glynllifon_90	69.3	66.5	81.3	14.8	51.0	59.4	8.4
T2_Glynllifon_95	68.5	65.7	80.1	14.4	50.3	58.5	8.2
T2_Glynllifon_100	67.7	64.9	78.9	14.0	49.7	57.6	7.9
T2_Glynllifon_105	67.0	64.2	77.8	13.6	49.1	56.7	7.7
T2_Glynllifon_110	66.3	63.5	76.7	13.3	48.5	56.0	7.4
T2_Glynllifon_115	65.7	62.9	75.8	12.9	48.0	55.3	7.2
T2_Glynllifon_120	65.1	62.3	74.9	12.6	47.6	54.6	7.0
T2_Glynllifon_125	64.6	61.8	74.1	12.3	47.1	54.0	6.8
T2_Glynllifon_130	64.1	61.3	73.3	12.0	46.7	53.4	6.7
T2_Glynllifon_135	63.6	60.8	72.6	11.8	46.3	52.8	6.5
T2_Glynllifon_140	63.2	60.4	71.9	11.5	46.0	52.3	6.4
T2_Glynllifon_145	62.8	60.0	71.2	11.3	45.7	51.9	6.2
T2_Glynllifon_150	62.5	59.6	70.7	11.0	45.4	51.5	6.1
T2_Glynllifon_155	62.1	59.3	70.1	10.8	45.1	51.0	6.0
T2_Glynllifon_160	61.8	58.9	69.6	10.6	44.8	50.7	5.8

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T2_Glynllifon_165	61.5	58.7	69.1	10.4	44.6	50.3	5.7
T2_Glynllifon_170	61.3	58.4	68.7	10.3	44.4	50.0	5.6
T2_Glynllifon_175	61.0	58.1	68.2	10.1	44.2	49.7	5.5
T2_Glynllifon_180	60.8	57.9	67.8	9.9	44.0	49.4	5.4
T2_Glynllifon_185	60.6	57.7	67.5	9.8	43.8	49.2	5.4
T2_Glynllifon_190	60.4	57.5	67.2	9.7	43.7	48.9	5.3
T2_Glynllifon_195	60.2	57.3	66.8	9.5	43.5	48.7	5.2
T3_Afon Gwyrfai_0	312.0	299.4	117.7	-181.7	232.9	107.5	-125.5
T3_Afon Gwyrfai_5	261.0	250.2	104.4	-145.8	194.3	96.6	-97.7
T3_Afon Gwyrfai_10	224.8	215.3	95.3	-120.1	166.8	87.4	-79.4
T3_Afon Gwyrfai_15	197.5	189.0	88.5	-100.5	146.1	80.4	-65.7
T3_Afon Gwyrfai_20	179.2	171.4	83.7	-87.7	132.3	75.7	-56.5
T3_Afon Gwyrfai_25	165.7	158.6	80.1	-78.5	122.1	72.3	-49.8
T3_Afon Gwyrfai_30	153.7	147.0	76.9	-70.1	113.0	69.1	-43.9
T3_Afon Gwyrfai_35	143.9	137.5	74.2	-63.4	105.5	66.3	-39.2
T3_Afon Gwyrfai_40	135.7	129.7	71.9	-57.8	99.4	64.1	-35.3
T3_Afon Gwyrfai_45	129.1	123.4	70.1	-53.3	94.4	62.2	-32.2
T3_Afon Gwyrfai_50	123.9	118.4	68.5	-49.8	90.5	60.7	-29.8
T3_Afon Gwyrfai_55	119.3	114.0	67.1	-46.9	87.1	59.4	-27.7
T3_Afon Gwyrfai_-5	593.5	568.7	200.0	-368.7	443.6	178.1	-265.5
T3_Afon Gwyrfai_-10	444.6	425.8	158.5	-267.3	331.7	140.7	-191.0
T3_Afon Gwyrfai_-15	369.7	354.0	137.4	-216.5	275.4	122.2	-153.1
T3_Afon Gwyrfai_-20	319.4	305.7	123.6	-182.1	237.5	109.9	-127.6
T3_Afon Gwyrfai_-25	284.0	271.8	113.9	-157.9	210.8	101.3	-109.5
T3_Afon Gwyrfai_-30	259.6	248.5	106.9	-141.6	192.5	95.4	-97.1
T3_Afon Gwyrfai_-35	242.8	232.4	101.7	-130.7	180.0	91.4	-88.6
T3_Afon Gwyrfai_-40	226.9	217.3	97.3	-120.0	168.1	87.6	-80.5
T4_Afon Gwyrfai_0	50.8	48.1	354.9	306.8	36.3	197.3	161.0
T4_Afon Gwyrfai_5	50.7	48.0	292.0	244.0	36.2	162.9	126.7
T4_Afon Gwyrfai_10	50.6	48.0	251.7	203.8	36.2	141.3	105.1
T4_Afon Gwyrfai_15	50.5	47.9	223.5	175.6	36.1	126.0	89.9
T4_Afon Gwyrfai_20	50.4	47.8	201.9	154.1	36.0	114.2	78.1
T4_Afon Gwyrfai_25	50.3	47.7	184.8	137.1	36.0	104.9	69.0
T4_Afon Gwyrfai_-5	51.1	48.4	174.9	126.5	36.5	99.9	63.4
T4_Afon Gwyrfai_-10	51.2	48.5	145.9	97.4	36.6	84.6	48.0
T4_Afon Gwyrfai_-15	51.3	48.6	129.2	80.6	36.7	75.7	39.0
T4_Afon Gwyrfai_-20	51.3	48.7	116.9	68.2	36.7	69.4	32.7
T5_Afon Gwyrfai_0	50.2	48.1	55.2	7.1	37.0	39.5	2.5

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T5_Afon Gwyrfai_5	47.1	44.9	52.5	7.6	34.3	37.3	3.1
T5_Afon Gwyrfai_10	45.6	43.3	51.2	7.9	32.9	36.2	3.3
T5_Afon Gwyrfai_15	44.6	42.3	50.4	8.1	32.1	35.6	3.5
T5_Afon Gwyrfai_20	43.9	41.6	49.8	8.2	31.5	35.1	3.6
T5_Afon Gwyrfai_25	43.4	41.1	49.4	8.3	31.0	34.7	3.7
T5_Afon Gwyrfai_30	43.0	40.7	49.0	8.3	30.7	34.4	3.8
T5_Afon Gwyrfai_35	42.6	40.3	48.7	8.4	30.4	34.2	3.8
T5_Afon Gwyrfai_40	42.4	40.1	48.4	8.4	30.1	34.0	3.8
T5_Afon Gwyrfai_45	42.1	39.8	48.2	8.4	29.9	33.8	3.8
T5_Afon Gwyrfai_50	42.0	39.7	48.0	8.4	29.8	33.7	3.9
T5_Afon Gwyrfai_-5	50.6	48.7	55.3	6.6	37.0	39.5	2.5
T5_Afon Gwyrfai_-10	46.9	44.9	52.5	7.6	33.8	37.2	3.4
T5_Afon Gwyrfai_-15	45.5	43.3	51.4	8.1	32.6	36.3	3.7
T5_Afon Gwyrfai_-20	44.6	42.4	50.8	8.3	31.9	35.8	3.9
T5_Afon Gwyrfai_-25	44.0	41.8	50.3	8.5	31.4	35.4	4.0
T5_Afon Gwyrfai_-30	43.6	41.4	50.0	8.6	31.0	35.1	4.1
T5_Afon Gwyrfai_-35	43.3	41.1	49.7	8.7	30.7	34.9	4.2
T5_Afon Gwyrfai_-40	43.1	40.8	49.5	8.7	30.5	34.7	4.2
T6_Afon Gwyrfai_0	44.8	41.7	36.1	-5.6	31.3	28.5	-2.8
T6_Afon Gwyrfai_5	41.9	39.0	34.2	-4.8	29.2	27.0	-2.2
T6_Afon Gwyrfai_10	40.1	37.3	33.1	-4.1	27.8	26.0	-1.8
T6_Afon Gwyrfai_15	38.7	36.0	32.4	-3.6	26.8	25.3	-1.6
T6_Afon Gwyrfai_20	37.7	35.1	31.8	-3.3	26.1	24.7	-1.4
T6_Afon Gwyrfai_25	36.9	34.3	31.3	-3.0	25.6	24.3	-1.2
T6_Afon Gwyrfai_30	36.3	33.8	31.0	-2.8	25.1	24.0	-1.1
T6_Afon Gwyrfai_35	35.9	33.3	30.8	-2.6	24.8	23.8	-1.0
T6_Afon Gwyrfai_40	35.5	32.9	30.6	-2.4	24.5	23.6	-1.0
T6_Afon Gwyrfai_45	35.1	32.6	30.4	-2.3	24.3	23.4	-0.9
T6_Afon Gwyrfai_50	34.8	32.4	30.2	-2.1	24.1	23.2	-0.9
T6_Afon Gwyrfai_55	34.6	32.1	30.1	-2.1	23.9	23.1	-0.8
T6_Afon Gwyrfai_60	34.4	31.9	30.0	-2.0	23.8	23.0	-0.8
T6_Afon Gwyrfai_65	34.2	31.8	29.9	-1.9	23.6	22.9	-0.7
T6_Afon Gwyrfai_70	34.0	31.6	29.8	-1.8	23.5	22.8	-0.7
T6_Afon Gwyrfai_75	33.9	31.5	29.7	-1.8	23.4	22.7	-0.7
T6_Afon Gwyrfai_80	33.7	31.3	29.6	-1.7	23.3	22.6	-0.7
T6_Afon Gwyrfai_85	33.6	31.2	29.5	-1.7	23.2	22.5	-0.7
T6_Afon Gwyrfai_90	33.5	31.1	29.5	-1.6	23.1	22.5	-0.6
T6_Afon Gwyrfai_95	33.4	31.0	29.4	-1.6	23.0	22.4	-0.6

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_100	33.3	30.9	29.3	-1.6	22.9	22.3	-0.6
T6_Afon Gwyrfai_105	33.2	30.8	29.3	-1.5	22.9	22.3	-0.6
T6_Afon Gwyrfai_110	33.1	30.7	29.2	-1.5	22.8	22.2	-0.6
T6_Afon Gwyrfai_115	33.0	30.6	29.2	-1.5	22.8	22.2	-0.6
T6_Afon Gwyrfai_120	32.9	30.6	29.1	-1.4	22.7	22.1	-0.6
T6_Afon Gwyrfai_125	32.8	30.5	29.1	-1.4	22.6	22.1	-0.6
T6_Afon Gwyrfai_130	32.8	30.4	29.0	-1.4	22.6	22.0	-0.5
T6_Afon Gwyrfai_135	32.7	30.4	29.0	-1.4	22.5	22.0	-0.5
T6_Afon Gwyrfai_140	32.6	30.3	28.9	-1.4	22.5	22.0	-0.5
T6_Afon Gwyrfai_145	32.6	30.2	28.9	-1.3	22.4	21.9	-0.5
T6_Afon Gwyrfai_150	32.5	30.2	28.8	-1.3	22.4	21.9	-0.5
T6_Afon Gwyrfai_155	32.4	30.1	28.8	-1.3	22.4	21.9	-0.5
T6_Afon Gwyrfai_160	32.4	30.1	28.8	-1.3	22.3	21.8	-0.5
T6_Afon Gwyrfai_165	32.3	30.0	28.7	-1.3	22.3	21.8	-0.5
T6_Afon Gwyrfai_170	32.3	30.0	28.7	-1.3	22.2	21.8	-0.5
T6_Afon Gwyrfai_175	32.2	29.9	28.7	-1.2	22.2	21.7	-0.5
T6_Afon Gwyrfai_180	32.2	29.9	28.6	-1.2	22.2	21.7	-0.5
T6_Afon Gwyrfai_185	32.1	29.8	28.6	-1.2	22.1	21.7	-0.5
T6_Afon Gwyrfai_190	32.1	29.8	28.6	-1.2	22.1	21.6	-0.5
T6_Afon Gwyrfai_195	32.0	29.7	28.5	-1.2	22.1	21.6	-0.5
T6_Afon Gwyrfai_-5	32.0	29.7	28.5	-1.2	22.0	21.6	-0.5
T6_Afon Gwyrfai_-10	31.9	29.6	28.5	-1.2	22.0	21.5	-0.5
T6_Afon Gwyrfai_-100	36.0	33.5	31.0	-2.5	24.9	23.8	-1.1
T6_Afon Gwyrfai_-105	35.7	33.2	30.9	-2.3	24.7	23.7	-1.1
T6_Afon Gwyrfai_-110	35.5	33.0	30.8	-2.3	24.6	23.5	-1.0
T6_Afon Gwyrfai_-115	35.3	32.8	30.6	-2.2	24.4	23.4	-1.0
T6_Afon Gwyrfai_-120	35.1	32.6	30.5	-2.1	24.3	23.3	-0.9
T6_Afon Gwyrfai_-125	34.9	32.5	30.4	-2.0	24.1	23.2	-0.9
T6_Afon Gwyrfai_-130	34.8	32.4	30.4	-2.0	24.1	23.2	-0.9
T6_Afon Gwyrfai_-135	34.7	32.3	30.3	-2.0	24.0	23.1	-0.9
T6_Afon Gwyrfai_-140	34.6	32.2	30.2	-1.9	23.9	23.0	-0.9
T6_Afon Gwyrfai_-145	34.5	32.1	30.2	-1.9	23.8	23.0	-0.8
T6_Afon Gwyrfai_-15	31.9	29.6	28.4	-1.2	22.0	21.5	-0.4
T6_Afon Gwyrfai_-150	34.4	32.0	30.1	-1.8	23.8	22.9	-0.8
T6_Afon Gwyrfai_-155	34.3	31.9	30.1	-1.8	23.7	22.9	-0.8
T6_Afon Gwyrfai_-160	34.2	31.8	30.1	-1.7	23.6	22.8	-0.8
T6_Afon Gwyrfai_-165	34.2	31.8	30.0	-1.7	23.6	22.8	-0.8
T6_Afon Gwyrfai_-170	34.1	31.7	30.0	-1.7	23.5	22.8	-0.8

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_-175	34.0	31.6	30.0	-1.6	23.5	22.8	-0.7
T6_Afon Gwyrfai_-180	34.0	31.6	30.0	-1.6	23.5	22.7	-0.7
T6_Afon Gwyrfai_-185	33.9	31.6	30.0	-1.6	23.4	22.7	-0.7
T6_Afon Gwyrfai_-190	33.9	31.5	29.9	-1.6	23.4	22.7	-0.7
T6_Afon Gwyrfai_-20	31.8	29.6	28.4	-1.1	21.9	21.5	-0.4
T6_Afon Gwyrfai_-25	31.8	29.5	28.4	-1.1	21.9	21.5	-0.4
T6_Afon Gwyrfai_-30	64.5	60.3	46.8	-13.5	45.6	37.9	-7.7
T6_Afon Gwyrfai_-35	56.6	52.8	42.4	-10.4	39.8	34.0	-5.8
T6_Afon Gwyrfai_-40	50.7	47.3	39.1	-8.2	35.5	31.2	-4.4
T6_Afon Gwyrfai_-45	47.0	43.8	37.1	-6.7	32.8	29.3	-3.5
T6_Afon Gwyrfai_-50	44.4	41.4	35.6	-5.7	31.0	28.0	-2.9
T6_Afon Gwyrfai_-55	42.5	39.6	34.5	-5.0	29.6	27.0	-2.5
T6_Afon Gwyrfai_-60	41.0	38.2	33.7	-4.5	28.5	26.3	-2.2
T6_Afon Gwyrfai_-65	39.8	37.1	33.1	-4.0	27.7	25.7	-2.0
T6_Afon Gwyrfai_-70	38.9	36.3	32.6	-3.7	27.0	25.2	-1.8
T6_Afon Gwyrfai_-75	38.2	35.5	32.2	-3.4	26.5	24.9	-1.6
T6_Afon Gwyrfai_-80	37.6	35.0	31.9	-3.1	26.1	24.6	-1.5
T6_Afon Gwyrfai_-85	37.1	34.5	31.6	-2.9	25.7	24.3	-1.3
T6_Afon Gwyrfai_-90	36.7	34.1	31.4	-2.7	25.4	24.1	-1.3
T6_Afon Gwyrfai_-95	36.3	33.8	31.2	-2.6	25.1	24.0	-1.2
T7_Pant Cae Haidd_0	85.7	80.1	73.7	-6.4	60.5	56.5	-3.9
T7_Pant Cae Haidd_5	64.2	60.0	56.0	-4.0	45.1	42.8	-2.3
T7_Pant Cae Haidd_10	56.7	52.8	49.7	-3.1	39.7	37.9	-1.7
T7_Pant Cae Haidd_15	52.1	48.2	45.5	-2.7	36.4	35.0	-1.4
T7_Pant Cae Haidd_20	48.9	45.2	42.7	-2.5	34.0	32.8	-1.2
T7_Pant Cae Haidd_25	46.6	43.1	40.7	-2.3	32.3	31.2	-1.0
T7_Pant Cae Haidd_30	44.7	41.4	39.3	-2.1	31.0	30.0	-1.0
T7_Pant Cae Haidd_35	43.3	40.1	38.1	-1.9	30.0	29.1	-0.9
T7_Pant Cae Haidd_40	42.1	38.9	37.1	-1.8	29.1	28.3	-0.8
T7_Pant Cae Haidd_45	41.1	38.0	36.4	-1.7	28.4	27.7	-0.7
T7_Pant Cae Haidd_50	40.2	37.3	35.7	-1.6	27.8	27.1	-0.7
T7_Pant Cae Haidd_55	39.5	36.6	35.1	-1.5	27.3	26.7	-0.6
T7_Pant Cae Haidd_60	38.9	36.1	34.7	-1.4	26.9	26.3	-0.6
T7_Pant Cae Haidd_65	38.4	35.6	34.2	-1.3	26.5	26.0	-0.6
T7_Pant Cae Haidd_70	37.9	35.1	33.9	-1.2	26.2	25.7	-0.6
T7_Pant Cae Haidd_75	37.5	34.7	33.6	-1.2	25.9	25.4	-0.5
T7_Pant Cae Haidd_80	37.1	34.4	33.3	-1.1	25.7	25.1	-0.5
T7_Pant Cae Haidd_85	36.8	34.1	33.0	-1.1	25.4	24.9	-0.5

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T7_Pant Cae Haidd_90	36.5	33.8	32.8	-1.0	25.2	24.7	-0.5
T7_Pant Cae Haidd_95	36.2	33.5	32.6	-1.0	25.0	24.6	-0.5
T7_Pant Cae Haidd_100	35.9	33.3	32.4	-1.0	24.9	24.4	-0.5
T7_Pant Cae Haidd_105	35.7	33.1	32.2	-0.9	24.7	24.2	-0.5
T7_Pant Cae Haidd_110	35.4	32.9	32.0	-0.9	24.5	24.1	-0.4
T7_Pant Cae Haidd_115	35.2	32.7	31.8	-0.9	24.4	24.0	-0.4
T7_Pant Cae Haidd_120	35.1	32.6	31.7	-0.9	24.3	23.8	-0.4
T7_Pant Cae Haidd_125	34.9	32.4	31.6	-0.8	24.1	23.7	-0.4
T7_Pant Cae Haidd_130	34.7	32.3	31.4	-0.8	24.0	23.6	-0.4
T7_Pant Cae Haidd_135	34.6	32.1	31.3	-0.8	23.9	23.5	-0.4
T7_Pant Cae Haidd_140	34.4	32.0	31.2	-0.8	23.8	23.4	-0.4
T7_Pant Cae Haidd_145	34.3	31.9	31.1	-0.8	23.7	23.3	-0.4
T7_Pant Cae Haidd_150	34.2	31.8	31.0	-0.8	23.6	23.3	-0.4
T7_Pant Cae Haidd_155	34.1	31.7	30.9	-0.8	23.6	23.2	-0.4
T7_Pant Cae Haidd_160	34.0	31.6	30.8	-0.8	23.5	23.1	-0.4
T7_Pant Cae Haidd_165	33.9	31.5	30.7	-0.8	23.4	23.0	-0.4
T7_Pant Cae Haidd_170	33.8	31.4	30.7	-0.7	23.4	23.0	-0.4
T7_Pant Cae Haidd_175	33.7	31.3	30.6	-0.7	23.3	22.9	-0.4
T7_Pant Cae Haidd_180	33.5	31.2	30.5	-0.7	23.2	22.8	-0.4
T7_Pant Cae Haidd_185	33.5	31.2	30.4	-0.7	23.1	22.8	-0.4
T7_Pant Cae Haidd_190	33.4	31.1	30.4	-0.7	23.1	22.8	-0.4
T7_Pant Cae Haidd_195	33.4	31.0	30.3	-0.7	23.1	22.7	-0.4
T7_Pant Cae Haidd_200	33.3	31.0	30.2	-0.7	23.0	22.7	-0.4
T7_Pant Cae Haidd_205	33.2	30.9	30.2	-0.7	23.0	22.6	-0.4

Table B5.7 Modelled verified daily mean NO_x concentrations (in μgm^{-3}) for ecological receptors, without IAN 170 adjustment. Change is defined as change with scheme (Do some – Do min).

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_0	440.3	289.5	315.1	25.7	151.7	165.1	13.4
T1_Glynllifon_5	345.7	228.5	247.7	19.2	121.1	131.3	10.2
T1_Glynllifon_10	291.6	193.9	209.5	15.6	104.0	112.4	8.4
T1_Glynllifon_15	254.9	170.4	183.6	13.2	92.5	99.6	7.1
T1_Glynllifon_20	228.3	153.4	164.8	11.4	84.2	90.4	6.2
T1_Glynllifon_25	208.1	140.3	150.5	10.1	77.8	83.3	5.5
T1_Glynllifon_30	192.1	130.0	139.1	9.1	72.8	77.8	5.0
T1_Glynllifon_35	179.3	121.8	130.1	8.3	68.8	73.3	4.5
T1_Glynllifon_40	168.7	114.9	122.5	7.6	65.4	69.6	4.2
T1_Glynllifon_45	159.8	109.1	116.2	7.1	62.6	66.5	3.9
T1_Glynllifon_50	152.1	104.1	110.7	6.6	60.2	63.8	3.6
T1_Glynllifon_55	145.5	99.8	106.0	6.2	58.1	61.5	3.4
T1_Glynllifon_60	139.7	96.2	102.0	5.8	56.3	59.5	3.2
T1_Glynllifon_65	134.5	92.8	98.3	5.5	54.7	57.7	3.0
T1_Glynllifon_70	129.9	89.8	95.0	5.2	53.2	56.1	2.9
T1_Glynllifon_75	125.7	87.1	92.1	5.0	51.9	54.6	2.7
T1_Glynllifon_80	121.8	84.6	89.4	4.8	50.7	53.3	2.6
T1_Glynllifon_85	118.3	82.3	86.9	4.6	49.6	52.1	2.5
T1_Glynllifon_90	115.1	80.2	84.6	4.4	48.6	51.0	2.4
T1_Glynllifon_95	112.2	78.3	82.6	4.2	47.7	50.0	2.3
T1_Glynllifon_100	109.6	76.6	80.7	4.1	46.9	49.1	2.2
T1_Glynllifon_105	107.1	75.0	79.0	4.0	46.1	48.2	2.1
T1_Glynllifon_110	104.8	73.5	77.4	3.8	45.4	47.4	2.1
T1_Glynllifon_115	102.5	72.1	75.8	3.7	44.7	46.7	2.0
T1_Glynllifon_120	100.4	70.7	74.3	3.6	44.0	45.9	1.9
T1_Glynllifon_125	98.4	69.4	72.9	3.5	43.4	45.3	1.9
T1_Glynllifon_130	96.5	68.2	71.7	3.4	42.8	44.6	1.8
T1_Glynllifon_135	94.7	67.1	70.4	3.3	42.3	44.1	1.8
T1_Glynllifon_140	93.0	66.0	69.3	3.2	41.8	43.5	1.7
T1_Glynllifon_145	91.4	65.0	68.2	3.2	41.3	43.0	1.7
T1_Glynllifon_150	89.9	64.1	67.1	3.1	40.8	42.5	1.7
T1_Glynllifon_155	88.4	63.1	66.1	3.0	40.4	42.0	1.6
T1_Glynllifon_160	86.9	62.2	65.2	2.9	40.0	41.6	1.6
T1_Glynllifon_165	85.6	61.4	64.3	2.9	39.6	41.1	1.5
T1_Glynllifon_170	84.3	60.6	63.4	2.8	39.2	40.7	1.5
T1_Glynllifon_175	83.1	59.8	62.6	2.8	38.9	40.3	1.5

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T1_Glynllifon_180	81.9	59.1	61.8	2.7	38.5	40.0	1.4
T1_Glynllifon_185	80.8	58.4	61.0	2.7	38.2	39.6	1.4
T1_Glynllifon_190	79.7	57.7	60.3	2.6	37.9	39.3	1.4
T1_Glynllifon_195	78.8	57.2	59.8	2.6	37.7	39.1	1.4
T1_Glynllifon_200	77.8	56.6	59.1	2.5	37.4	38.8	1.4
T2_Glynllifon_0	175.8	138.1	190.4	52.3	91.4	120.0	28.6
T2_Glynllifon_5	146.3	114.1	156.3	42.2	75.4	97.3	21.9
T2_Glynllifon_10	128.5	100.4	135.8	35.3	66.4	84.6	18.2
T2_Glynllifon_15	116.2	91.0	121.6	30.6	60.6	76.2	15.7
T2_Glynllifon_20	107.0	84.0	111.1	27.1	56.4	70.3	13.9
T2_Glynllifon_25	99.9	78.6	102.9	24.4	53.2	65.8	12.5
T2_Glynllifon_30	94.2	74.2	96.5	22.2	50.7	62.2	11.5
T2_Glynllifon_35	89.6	70.8	91.2	20.5	48.7	59.4	10.6
T2_Glynllifon_40	85.9	67.9	87.0	19.0	47.1	57.0	9.9
T2_Glynllifon_45	82.8	65.7	83.4	17.7	45.7	55.1	9.4
T2_Glynllifon_50	80.3	63.8	80.5	16.7	44.6	53.4	8.9
T2_Glynllifon_55	78.3	62.2	78.1	15.9	43.6	52.0	8.4
T2_Glynllifon_60	76.6	60.8	76.0	15.2	42.7	50.7	8.0
T2_Glynllifon_65	75.0	59.6	74.1	14.6	41.9	49.6	7.7
T2_Glynllifon_70	73.6	58.5	72.5	14.0	41.2	48.6	7.4
T2_Glynllifon_75	72.4	57.5	71.0	13.5	40.6	47.7	7.1
T2_Glynllifon_80	71.3	56.6	69.6	13.1	40.0	46.9	6.9
T2_Glynllifon_85	70.3	55.8	68.4	12.6	39.5	46.1	6.7
T2_Glynllifon_90	69.3	55.0	67.3	12.3	39.0	45.5	6.5
T2_Glynllifon_95	68.5	54.3	66.3	11.9	38.6	44.9	6.3
T2_Glynllifon_100	67.7	53.7	65.3	11.6	38.2	44.3	6.1
T2_Glynllifon_105	67.0	53.1	64.4	11.3	37.8	43.8	5.9
T2_Glynllifon_110	66.3	52.6	63.6	11.0	37.5	43.3	5.7
T2_Glynllifon_115	65.7	52.1	62.8	10.7	37.2	42.8	5.6
T2_Glynllifon_120	65.1	51.6	62.1	10.4	36.9	42.4	5.5
T2_Glynllifon_125	64.6	51.2	61.4	10.2	36.7	42.0	5.3
T2_Glynllifon_130	64.1	50.8	60.8	10.0	36.4	41.6	5.2
T2_Glynllifon_135	63.6	50.5	60.2	9.8	36.2	41.3	5.1
T2_Glynllifon_140	63.2	50.1	59.7	9.5	36.0	41.0	5.0
T2_Glynllifon_145	62.8	49.8	59.2	9.4	35.8	40.7	4.9
T2_Glynllifon_150	62.5	49.5	58.7	9.2	35.7	40.4	4.8
T2_Glynllifon_155	62.1	49.3	58.3	9.0	35.5	40.2	4.7
T2_Glynllifon_160	61.8	49.0	57.9	8.8	35.4	40.0	4.6

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T2_Glynllifon_165	61.5	48.8	57.5	8.7	35.2	39.8	4.5
T2_Glynllifon_170	61.3	48.6	57.1	8.5	35.1	39.6	4.5
T2_Glynllifon_175	61.0	48.4	56.8	8.4	35.0	39.4	4.4
T2_Glynllifon_180	60.8	48.2	56.5	8.3	34.9	39.2	4.3
T2_Glynllifon_185	60.6	48.0	56.2	8.2	34.8	39.0	4.3
T2_Glynllifon_190	60.4	47.9	55.9	8.0	34.7	38.9	4.2
T2_Glynllifon_195	60.2	47.8	55.7	7.9	34.6	38.8	4.1
T3_Afon Gwyrfai_0	312.0	220.6	86.7	-133.9	125.6	57.9	-67.6
T3_Afon Gwyrfai_5	261.0	186.0	77.6	-108.4	105.7	52.5	-53.1
T3_Afon Gwyrfai_10	224.8	162.0	71.6	-90.3	93.9	49.2	-44.7
T3_Afon Gwyrfai_15	197.5	143.6	67.3	-76.4	85.1	46.8	-38.3
T3_Afon Gwyrfai_20	179.2	130.8	63.9	-66.9	78.4	44.9	-33.5
T3_Afon Gwyrfai_25	165.7	121.1	61.2	-59.9	73.3	43.4	-29.9
T3_Afon Gwyrfai_30	153.7	112.8	59.0	-53.8	69.0	42.2	-26.8
T3_Afon Gwyrfai_35	143.9	106.0	57.2	-48.8	65.5	41.2	-24.3
T3_Afon Gwyrfai_40	135.7	100.3	55.6	-44.7	62.6	40.3	-22.2
T3_Afon Gwyrfai_45	129.1	95.6	54.3	-41.3	60.1	39.6	-20.5
T3_Afon Gwyrfai_50	123.9	91.9	53.2	-38.7	58.1	39.0	-19.1
T3_Afon Gwyrfai_55	119.3	88.7	52.2	-36.5	56.4	38.4	-17.9
T3_Afon Gwyrfai_-5	593.5	425.1	149.5	-275.6	240.4	96.5	-143.9
T3_Afon Gwyrfai_-10	444.6	321.7	119.7	-202.0	184.6	78.3	-106.3
T3_Afon Gwyrfai_-15	369.7	268.7	104.3	-164.4	155.6	69.1	-86.5
T3_Afon Gwyrfai_-20	319.4	233.1	94.2	-138.8	136.2	63.0	-73.1
T3_Afon Gwyrfai_-25	284.0	207.7	87.0	-120.7	122.3	58.8	-63.5
T3_Afon Gwyrfai_-30	259.6	189.8	81.7	-108.1	112.1	55.6	-56.5
T3_Afon Gwyrfai_-35	242.8	177.1	77.5	-99.6	104.5	53.1	-51.4
T3_Afon Gwyrfai_-40	226.9	165.6	74.2	-91.5	98.1	51.1	-47.0
T4_Afon Gwyrfai_0	50.8	41.7	307.5	265.8	31.7	172.5	140.7
T4_Afon Gwyrfai_5	50.7	41.6	253.1	211.5	31.7	142.6	110.9
T4_Afon Gwyrfai_10	50.6	41.6	218.3	176.7	31.7	123.7	92.0
T4_Afon Gwyrfai_15	50.5	41.5	193.9	152.3	31.6	110.4	78.8
T4_Afon Gwyrfai_20	50.4	41.5	175.2	133.8	31.6	100.1	68.6
T4_Afon Gwyrfai_25	50.3	41.4	160.4	119.0	31.6	92.1	60.5
T4_Afon Gwyrfai_-5	51.1	41.9	151.4	109.5	31.9	87.1	55.3
T4_Afon Gwyrfai_-10	51.2	42.0	126.2	84.3	31.9	73.7	41.8
T4_Afon Gwyrfai_-15	51.3	42.1	111.7	69.7	31.9	65.9	34.0
T4_Afon Gwyrfai_-20	51.3	42.1	101.1	59.0	32.0	60.4	28.4
T5_Afon Gwyrfai_0	50.2	42.6	48.8	6.2	33.4	35.6	2.2

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T5_Afon Gwyrfai_5	47.1	39.9	46.7	6.8	31.5	34.4	2.8
T5_Afon Gwyrfai_10	45.6	38.7	45.7	7.1	30.7	33.8	3.1
T5_Afon Gwyrfai_15	44.6	37.9	45.1	7.3	30.1	33.4	3.3
T5_Afon Gwyrfai_20	43.9	37.3	44.7	7.4	29.7	33.1	3.4
T5_Afon Gwyrfai_25	43.4	36.9	44.3	7.5	29.4	32.9	3.5
T5_Afon Gwyrfai_30	43.0	36.5	44.0	7.5	29.2	32.8	3.6
T5_Afon Gwyrfai_35	42.6	36.2	43.8	7.5	29.0	32.6	3.6
T5_Afon Gwyrfai_40	42.4	36.0	43.6	7.5	28.9	32.5	3.7
T5_Afon Gwyrfai_45	42.1	35.8	43.4	7.6	28.7	32.4	3.7
T5_Afon Gwyrfai_50	42.0	35.7	43.2	7.5	28.6	32.3	3.7
T5_Afon Gwyrfai_-5	50.6	43.2	49.0	5.8	33.4	35.7	2.3
T5_Afon Gwyrfai_-10	46.9	40.0	46.8	6.8	31.3	34.4	3.1
T5_Afon Gwyrfai_-15	45.5	38.7	45.9	7.2	30.4	33.9	3.5
T5_Afon Gwyrfai_-20	44.6	37.9	45.4	7.5	29.9	33.6	3.7
T5_Afon Gwyrfai_-25	44.0	37.4	45.0	7.6	29.6	33.4	3.8
T5_Afon Gwyrfai_-30	43.6	37.1	44.8	7.7	29.4	33.3	3.9
T5_Afon Gwyrfai_-35	43.3	36.8	44.6	7.8	29.2	33.1	4.0
T5_Afon Gwyrfai_-40	43.1	36.6	44.4	7.8	29.0	33.0	4.0
T6_Afon Gwyrfai_0	44.8	36.8	31.8	-5.0	29.6	26.9	-2.7
T6_Afon Gwyrfai_5	41.9	34.9	30.6	-4.3	28.3	26.2	-2.1
T6_Afon Gwyrfai_10	40.1	33.6	29.9	-3.7	27.7	25.9	-1.8
T6_Afon Gwyrfai_15	38.7	32.8	29.5	-3.3	27.2	25.6	-1.6
T6_Afon Gwyrfai_20	37.7	32.1	29.1	-3.0	26.9	25.4	-1.4
T6_Afon Gwyrfai_25	36.9	31.6	28.8	-2.8	26.6	25.3	-1.3
T6_Afon Gwyrfai_30	36.3	31.2	28.6	-2.5	26.4	25.2	-1.2
T6_Afon Gwyrfai_35	35.9	30.9	28.5	-2.4	26.2	25.1	-1.1
T6_Afon Gwyrfai_40	35.5	30.6	28.4	-2.2	26.1	25.1	-1.0
T6_Afon Gwyrfai_45	35.1	30.4	28.3	-2.1	26.0	25.0	-1.0
T6_Afon Gwyrfai_50	34.8	30.2	28.2	-2.0	25.9	25.0	-0.9
T6_Afon Gwyrfai_55	34.6	30.1	28.1	-1.9	25.8	24.9	-0.9
T6_Afon Gwyrfai_60	34.4	29.9	28.1	-1.8	25.7	24.9	-0.8
T6_Afon Gwyrfai_65	34.2	29.8	28.0	-1.8	25.7	24.8	-0.8
T6_Afon Gwyrfai_70	34.0	29.7	28.0	-1.7	25.6	24.8	-0.8
T6_Afon Gwyrfai_75	33.9	29.6	27.9	-1.7	25.5	24.8	-0.8
T6_Afon Gwyrfai_80	33.7	29.5	27.9	-1.6	25.5	24.8	-0.7
T6_Afon Gwyrfai_85	33.6	29.4	27.8	-1.6	25.4	24.7	-0.7
T6_Afon Gwyrfai_90	33.5	29.3	27.8	-1.5	25.4	24.7	-0.7
T6_Afon Gwyrfai_95	33.4	29.3	27.8	-1.5	25.4	24.7	-0.7

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_100	33.3	29.2	27.7	-1.5	25.3	24.7	-0.7
T6_Afon Gwyrfai_105	33.2	29.1	27.7	-1.4	25.3	24.6	-0.7
T6_Afon Gwyrfai_110	33.1	29.1	27.7	-1.4	25.3	24.6	-0.6
T6_Afon Gwyrfai_115	33.0	29.0	27.6	-1.4	25.2	24.6	-0.6
T6_Afon Gwyrfai_120	32.9	29.0	27.6	-1.4	25.2	24.6	-0.6
T6_Afon Gwyrfai_125	32.8	28.9	27.6	-1.3	25.2	24.6	-0.6
T6_Afon Gwyrfai_130	32.8	28.9	27.5	-1.3	25.1	24.5	-0.6
T6_Afon Gwyrfai_135	32.7	28.8	27.5	-1.3	25.1	24.5	-0.6
T6_Afon Gwyrfai_140	32.6	28.8	27.5	-1.3	25.1	24.5	-0.6
T6_Afon Gwyrfai_145	32.6	28.7	27.5	-1.3	25.1	24.5	-0.6
T6_Afon Gwyrfai_150	32.5	28.7	27.4	-1.3	25.0	24.5	-0.6
T6_Afon Gwyrfai_155	32.4	28.7	27.4	-1.2	25.0	24.4	-0.6
T6_Afon Gwyrfai_160	32.4	28.6	27.4	-1.2	25.0	24.4	-0.6
T6_Afon Gwyrfai_165	32.3	28.6	27.4	-1.2	25.0	24.4	-0.6
T6_Afon Gwyrfai_170	32.3	28.5	27.3	-1.2	24.9	24.4	-0.5
T6_Afon Gwyrfai_175	32.2	28.5	27.3	-1.2	24.9	24.4	-0.5
T6_Afon Gwyrfai_180	32.2	28.5	27.3	-1.2	24.9	24.4	-0.5
T6_Afon Gwyrfai_185	32.1	28.4	27.3	-1.2	24.9	24.4	-0.5
T6_Afon Gwyrfai_190	32.1	28.4	27.2	-1.2	24.9	24.3	-0.5
T6_Afon Gwyrfai_195	32.0	28.4	27.2	-1.1	24.8	24.3	-0.5
T6_Afon Gwyrfai_-5	32.0	28.3	27.2	-1.1	24.8	24.3	-0.5
T6_Afon Gwyrfai_-10	31.9	28.3	27.2	-1.1	24.8	24.3	-0.5
T6_Afon Gwyrfai_-100	36.0	31.3	29.0	-2.3	26.6	25.4	-1.2
T6_Afon Gwyrfai_-105	35.7	31.1	28.9	-2.2	26.5	25.4	-1.1
T6_Afon Gwyrfai_-110	35.5	30.9	28.8	-2.1	26.4	25.3	-1.1
T6_Afon Gwyrfai_-115	35.3	30.8	28.7	-2.0	26.4	25.3	-1.0
T6_Afon Gwyrfai_-120	35.1	30.6	28.7	-2.0	26.3	25.3	-1.0
T6_Afon Gwyrfai_-125	34.9	30.5	28.6	-1.9	26.2	25.3	-1.0
T6_Afon Gwyrfai_-130	34.8	30.5	28.6	-1.9	26.2	25.2	-1.0
T6_Afon Gwyrfai_-135	34.7	30.4	28.5	-1.8	26.2	25.2	-0.9
T6_Afon Gwyrfai_-140	34.6	30.3	28.5	-1.8	26.1	25.2	-0.9
T6_Afon Gwyrfai_-145	34.5	30.2	28.5	-1.8	26.1	25.2	-0.9
T6_Afon Gwyrfai_-15	31.9	28.3	27.2	-1.1	24.8	24.3	-0.5
T6_Afon Gwyrfai_-150	34.4	30.2	28.5	-1.7	26.1	25.2	-0.9
T6_Afon Gwyrfai_-155	34.3	30.1	28.4	-1.7	26.0	25.1	-0.9
T6_Afon Gwyrfai_-160	34.2	30.1	28.4	-1.7	26.0	25.1	-0.9
T6_Afon Gwyrfai_-165	34.2	30.0	28.4	-1.6	26.0	25.1	-0.8
T6_Afon Gwyrfai_-170	34.1	30.0	28.4	-1.6	25.9	25.1	-0.8

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T6_Afon Gwyrfai_-175	34.0	29.9	28.4	-1.6	25.9	25.1	-0.8
T6_Afon Gwyrfai_-180	34.0	29.9	28.4	-1.5	25.9	25.1	-0.8
T6_Afon Gwyrfai_-185	33.9	29.9	28.4	-1.5	25.9	25.1	-0.8
T6_Afon Gwyrfai_-190	33.9	29.8	28.4	-1.5	25.9	25.1	-0.8
T6_Afon Gwyrfai_-20	31.8	28.2	27.1	-1.1	24.8	24.3	-0.5
T6_Afon Gwyrfai_-25	31.8	28.2	27.1	-1.1	24.7	24.2	-0.5
T6_Afon Gwyrfai_-30	64.5	51.6	40.1	-11.6	37.8	31.4	-6.4
T6_Afon Gwyrfai_-35	56.6	45.8	36.7	-9.0	34.5	29.5	-5.0
T6_Afon Gwyrfai_-40	50.7	41.5	34.4	-7.2	32.2	28.2	-4.0
T6_Afon Gwyrfai_-45	47.0	38.9	32.9	-6.0	30.7	27.4	-3.3
T6_Afon Gwyrfai_-50	44.4	37.1	31.9	-5.2	29.7	26.9	-2.8
T6_Afon Gwyrfai_-55	42.5	35.7	31.2	-4.5	29.0	26.5	-2.5
T6_Afon Gwyrfai_-60	41.0	34.7	30.6	-4.1	28.4	26.2	-2.2
T6_Afon Gwyrfai_-65	39.8	33.9	30.2	-3.7	28.0	26.0	-2.0
T6_Afon Gwyrfai_-70	38.9	33.3	29.9	-3.4	27.7	25.8	-1.8
T6_Afon Gwyrfai_-75	38.2	32.8	29.6	-3.1	27.4	25.7	-1.7
T6_Afon Gwyrfai_-80	37.6	32.3	29.5	-2.9	27.2	25.6	-1.5
T6_Afon Gwyrfai_-85	37.1	32.0	29.3	-2.7	27.0	25.6	-1.4
T6_Afon Gwyrfai_-90	36.7	31.7	29.2	-2.5	26.8	25.5	-1.3
T6_Afon Gwyrfai_-95	36.3	31.5	29.1	-2.4	26.7	25.5	-1.3
T7_Pant Cae Haidd_0	85.7	68.3	62.8	-5.5	47.4	44.3	-3.1
T7_Pant Cae Haidd_5	64.2	52.2	48.7	-3.5	38.1	36.1	-2.0
T7_Pant Cae Haidd_10	56.7	45.9	43.1	-2.7	34.4	32.9	-1.5
T7_Pant Cae Haidd_15	52.1	42.3	39.9	-2.4	32.3	31.0	-1.2
T7_Pant Cae Haidd_20	48.9	40.0	37.8	-2.2	30.9	29.8	-1.1
T7_Pant Cae Haidd_25	46.6	38.4	36.3	-2.1	29.9	28.9	-1.0
T7_Pant Cae Haidd_30	44.7	37.1	35.2	-1.9	29.2	28.3	-0.9
T7_Pant Cae Haidd_35	43.3	36.0	34.3	-1.8	28.6	27.8	-0.8
T7_Pant Cae Haidd_40	42.1	35.2	33.6	-1.6	28.2	27.4	-0.8
T7_Pant Cae Haidd_45	41.1	34.5	33.0	-1.5	27.8	27.0	-0.7
T7_Pant Cae Haidd_50	40.2	33.9	32.5	-1.4	27.5	26.8	-0.7
T7_Pant Cae Haidd_55	39.5	33.4	32.1	-1.3	27.2	26.5	-0.6
T7_Pant Cae Haidd_60	38.9	33.0	31.7	-1.3	27.0	26.3	-0.6
T7_Pant Cae Haidd_65	38.4	32.6	31.4	-1.2	26.8	26.2	-0.6
T7_Pant Cae Haidd_70	37.9	32.3	31.2	-1.1	26.6	26.0	-0.6
T7_Pant Cae Haidd_75	37.5	32.0	30.9	-1.1	26.4	25.9	-0.5
T7_Pant Cae Haidd_80	37.1	31.8	30.7	-1.0	26.3	25.8	-0.5
T7_Pant Cae Haidd_85	36.8	31.5	30.5	-1.0	26.2	25.7	-0.5

Receptor name	2015	2018			2033		
	Baseline	Do min	Do some	Change	Do min	Do some	Change
T7_Pant Cae Haidd_90	36.5	31.3	30.4	-1.0	26.1	25.6	-0.5
T7_Pant Cae Haidd_95	36.2	31.1	30.2	-0.9	26.0	25.5	-0.5
T7_Pant Cae Haidd_100	35.9	30.9	30.1	-0.9	25.9	25.4	-0.5
T7_Pant Cae Haidd_105	35.7	30.8	29.9	-0.9	25.8	25.3	-0.5
T7_Pant Cae Haidd_110	35.4	30.6	29.8	-0.8	25.7	25.3	-0.5
T7_Pant Cae Haidd_115	35.2	30.5	29.7	-0.8	25.7	25.2	-0.5
T7_Pant Cae Haidd_120	35.1	30.4	29.6	-0.8	25.6	25.2	-0.4
T7_Pant Cae Haidd_125	34.9	30.3	29.5	-0.8	25.5	25.1	-0.4
T7_Pant Cae Haidd_130	34.7	30.2	29.4	-0.8	25.5	25.1	-0.4
T7_Pant Cae Haidd_135	34.6	30.1	29.3	-0.8	25.4	25.0	-0.4
T7_Pant Cae Haidd_140	34.4	30.0	29.2	-0.8	25.4	25.0	-0.4
T7_Pant Cae Haidd_145	34.3	29.9	29.2	-0.7	25.3	24.9	-0.4
T7_Pant Cae Haidd_150	34.2	29.8	29.1	-0.7	25.3	24.9	-0.4
T7_Pant Cae Haidd_155	34.1	29.7	29.0	-0.7	25.3	24.9	-0.4
T7_Pant Cae Haidd_160	34.0	29.7	29.0	-0.7	25.2	24.8	-0.4
T7_Pant Cae Haidd_165	33.9	29.6	28.9	-0.7	25.2	24.8	-0.4
T7_Pant Cae Haidd_170	33.8	29.5	28.8	-0.7	25.2	24.8	-0.4
T7_Pant Cae Haidd_175	33.7	29.5	28.8	-0.7	25.1	24.7	-0.4
T7_Pant Cae Haidd_180	33.5	29.4	28.7	-0.7	25.1	24.7	-0.4
T7_Pant Cae Haidd_185	33.5	29.4	28.7	-0.7	25.1	24.7	-0.4
T7_Pant Cae Haidd_190	33.4	29.3	28.6	-0.7	25.0	24.7	-0.4
T7_Pant Cae Haidd_195	33.4	29.3	28.6	-0.7	25.0	24.6	-0.4
T7_Pant Cae Haidd_200	33.3	29.2	28.5	-0.7	25.0	24.6	-0.4
T7_Pant Cae Haidd_205	33.2	29.2	28.5	-0.7	25.0	24.6	-0.4