

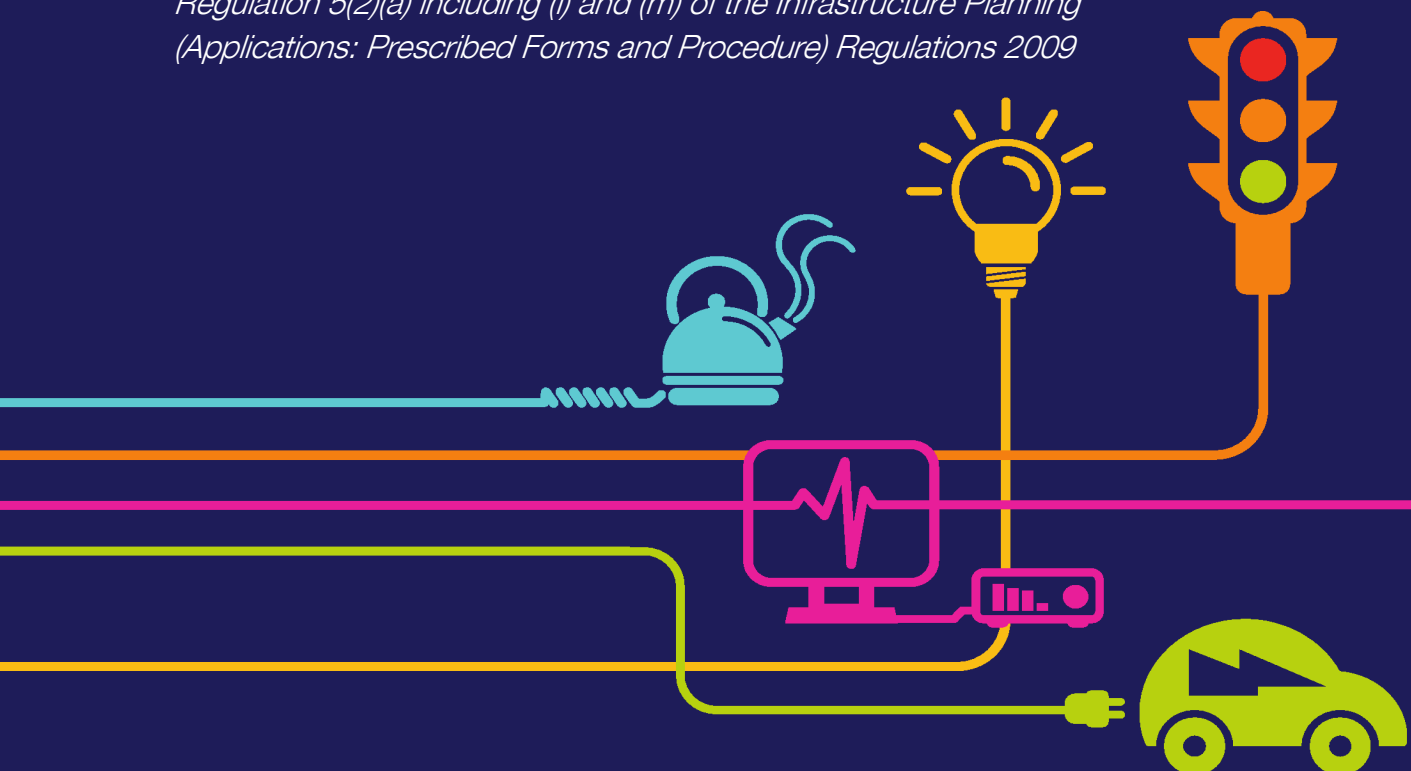
DOCUMENT 5.14.2.2

Construction Dust Assessment Method

Chapter 14 – Appendix 2

National Grid (North Wales Connection Project)

Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



national**grid**

North Wales Connection Project

Volume 5

Document 5.14.2.2 Appendix 14.2 Construction Dust Assessment Method

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1. Construction Dust Assessment Method

1.1 STEP 1: SCREEN THE REQUIREMENTS FOR A DETAILED ASSESSMENT

1.1.1 According to the Institute of Air Quality Management (IAQM (Ref 14.17)), an assessment will normally be required where there are human sensitive receptors within 350 metres (m) of the boundary of a site and/or within 50 m of route(s) used by construction vehicles on the public highway, up to 500 m from the site entrance. A human receptor, as considered within the IAQM guidance, is any location where a person or property may experience:

- The annoyance effects of airborne dust or dust soiling e.g. dwellings, industrial or commercial premises such as a vehicle showroom, food manufacturers, electronics manufacturers, amenity areas and horticultural operations; or
- Exposure to PM₁₀ over a period relevant to the air quality objectives.

1.1.2 An assessment will also be required if there are ecological receptors within 50 m of the boundary of the site or routes used by construction vehicles on the public highway, up to 500 m from the site entrance. An ecological receptor is defined as a location where the following may be experienced:

- physical damage to habitat by dust deposition through the reduction in photosynthesis, respiration and transpiration by smothering; or
- Chemical damage to the composition of soil and water within the habitat.

1.1.3 Having regards to the above, sensitive receptors were identified and the distance to the site and construction traffic routes determined according to the examples of sensitivity shown in Table 14.2.1.

Table 14.2.1: Example Dust Sensitive Receptors			
Sensitivity	Dust Soiling	Human Health	Ecology
High	<ul style="list-style-type: none"> - Dwellings - Museum and other culturally important collections - Medium and long- 	<ul style="list-style-type: none"> - Residential properties - Hospitals - Schools - Residential care 	Locations with an international or national designation (e.g. SAC or SPA) where the designated features may be

Table 14.2.1: Example Dust Sensitive Receptors			
Sensitivity	Dust Soiling	Human Health	Ecology
	term car parks - Car showrooms - Commercially sensitive horticultural land	homes	affected by dust soiling
Medium	- Parks - Places of work	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 national designation (e.g. SSSI) where the designated features may be affected by dust deposition
Low	- Playing fields - Farmland (unless commercially sensitive horticultural), - Public Footpaths (PRoW) - Short-term car parks - Roads	- Public footpaths (PRoW) - Playing fields - Parks - Shopping streets.	Locations with a local designation where the designated features may be affected by dust deposition

SAC: Special Area of Conservation; SPA: Special Protection Area; SSSI: Site of Special Scientific Interest

1.2 STEP 2: ASSESS THE RISK OF DUST IMPACTS

1.2.1 The risk of dust arising in sufficient quantities to cause annoyance and/or health effects (Step 2C) was determined for each proposed construction activity (demolition, earthworks, construction works and track out), taking account of:

- The scale and nature of the works, which determines the potential dust emission magnitude (small, medium or large) (Step 2A); and
- The sensitivity of the area (low, medium or high) (Step 2B).

1.2.2 These factors were then combined to give the risk of dust effects with no mitigation applied, as Negligible, Low, Medium or High.

1.2.3 It should be noted that where detailed information was not available to inform the risk category, professional judgement and experience was used and a cautious approach adopted, in accordance with the guidance.

Step 2A: Define the Potential Dust Emissions Magnitude

Demolition

1.2.4 The classifications for demolition works in Table 14.2.2 are based on examples of suitable criteria, although factors such as seasonality, building type and duration were also taken into consideration.

Table 14.2.2: Potential Particulate Emission Classification for Demolition	
Emission Class	Criteria
Large	<ul style="list-style-type: none"> - Total building area: > 50,000 m³ - Potentially dusty construction material (e.g. concrete) - On-site crushing and screening - Demolition activities: > 20m above ground level
Medium	<ul style="list-style-type: none"> - Total building area: 20,000 - 50,000 m³ - Potentially dusty construction material - Demolition activities: 10 - 20m above ground level
Small	<ul style="list-style-type: none"> - Total building area: < 20,000 m³ - Construction material with low potential for dust release - Demolition activities: < 10m above ground level - Demolition occurring in wetter months

Earthworks

1.2.5 Earthworks primarily involve excavating material, haulage, tipping and stockpiling. The classifications in Table 14.2.3 are based on examples of suitable criteria. Factors such as existing land use, topography, seasonality and duration were also taken into consideration.

Table 14.2.3: Potential Particulate Emission Classification for Earthworks	
Emission Class	Criteria

Table 14.2.3: Potential Particulate Emission Classification for Earthworks	
Emission Class	Criteria
Large	<ul style="list-style-type: none"> - Total site area: >10,000 m² - Potentially dusty soil type (e.g. clay) - >10 heavy earth moving vehicles active at any one time - Formation of bunds >8 m in height - Total material moved >100,000 tonnes
Medium	<ul style="list-style-type: none"> - Total site area: 2,500 - 10,000 m² - Moderately dusty soil type (e.g. silt) - 5 -10 heavy earth moving vehicles active at any one time - Formation of bunds 4 - 8 m in height - Total material moved 20,000 – 100,000 tonnes
Small	<ul style="list-style-type: none"> - Total site area: <2,500 m² - Soil type with large grain size (e.g. sand) - < 5 heavy earth moving vehicles active at any one time - Formation of bunds < 4 m in height - Total material moved <20,000 tonnes - Earthworks during wetter months

Construction

1.2.6 The key issues when determining the potential dust emission magnitude during construction works include the size of the building(s)/ infrastructure, method of construction, construction materials and duration of build. The classifications in Table 14.2.4 are based on examples of suitable criteria. Factors such as seasonality, building type and duration were also taken into consideration.

Table 14.2.4: Potential Particulate Emission Classification for Construction	
Emission Class	Criteria
Large	<ul style="list-style-type: none"> - Total building volume >100,000 m³ - Piling, on-site concrete batching, sandblasting
Medium	<ul style="list-style-type: none"> - Total building volume 25,000 – 100,000 m³ - Potentially dusty construction material (e.g. concrete)

Table 14.2.4: Potential Particulate Emission Classification for Construction

Emission Class	Criteria
	- On-site concrete batching
Small	- Total building volume <25,000 m ³ - Construction material with low potential for dust release (e.g. metal cladding or timber)

Trackout

1.2.7 Track-out is the transport of dust and dirt from a construction/demolition site onto the public road network, where it may be deposited and then re-suspended by vehicles using the network. The classifications in Table 14.2.5 are based on examples of suitable criteria. Factors such as vehicle size, speed, numbers and duration were also taken into consideration.

Table 14.2.5: Potential Particulate Emission Classification for Trackout

Emission Class	Criteria
Large	- 50 HGV (>3.5 t) outward movements in any one day - Potentially dusty surface material - Unpaved road length > 100 m
Medium	- 25 – 100 HGV (>3.5 t) outward movements in any one day - Moderately dusty surface material - Unpaved road length 50 – 100 m
Small	- < 25 HGV (>3.5 t) outward movements in any one day - Surface material with low potential for dust release - Unpaved road length < 50m

Step 2B: Define the Sensitivity of the Area

1.2.8 The sensitivity of the area takes account of the following factors:

- The specific sensitivities of receptors in the area;
- The proximity and number of those receptors;
- In the case of PM₁₀, the local background concentrations; and

- Site specific factors, such as whether there are natural shelters, such as trees to reduce the risk of wind-blown dust.

1.2.9 The sensitivity of the area is determined separately for dust soiling impacts on people and properties (Table 14.2.6), human health impacts (Table 14.2.7) and ecological impacts (Table 14.2.8).

Table 14.2.6: Sensitivity of the Area to Dust Soiling Impacts on People and Property					
Receptor Sensitivity	Number of Receptors	Distance from 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 14.2.7: Sensitivity of the Area to Human Health Impacts							
Receptor Sensitivity	Annual Mean PM ₁₀ Conc. (µg/m ³)	No. of Receptors	Distance from Source (m)				
			<20	<50	<100	200	<350
High	>32	>100	High	High	High	Medium	Low
		10 – 100	High	High	Medium	Low	Low
		1 - 10	High	Medium	Low	Low	Low
	23 – 32	>100	High	High	Medium	Low	Low
		10 – 100	High	Medium	Low	Low	Low
		1 – 10	High	Medium	Low	Low	Low
	24 – 28	>100	High	Medium	Low	Low	Low
		10 – 100	High	Medium	Low	Low	Low
		1 – 10	Medium	Low	Low	Low	Low
	<24	>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
	-	1 – 10	Medium	Low	Low	Low	Low
Low	-	>1	Low	Low	Low	Low	Low

Table 14.2.8: Sensitivity of the Area to Dust Soiling Impacts on Ecologically Sensitive Habitats

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

Step 2C: Define the Risk of Dust Impacts

1.2.10 The dust emission magnitude determined at Step 2A should be combined with the sensitivity of the area determined at Step 2B to determine the risk of effects with no mitigation applied (Table 14.2.9 to Table 14.2.12). This step is undertaken for each activity undertaken on site. Note that the matrices are not consistent across the different construction activities, due to the greater risk for demolition to cause dust impacts, and the lesser risk for trackout to do so.

Table 14.2.9: Risk of Dust Impacts – Demolition

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Medium Risk
Medium	High Risk	Medium Risk	Low Risk
Low	Medium Risk	Low Risk	Negligible

Table 14.2.10: Risk of Dust Impacts – Earthworks

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Low Risk	Low Risk	Negligible

Table 14.2.11: Risk of Dust Impacts – Construction

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Medium Risk	Low Risk
Low	Low Risk	Low Risk	Negligible

Table 14.2.12: Risk of Dust Impacts – Trackout

Sensitivity of Area	Dust Emission Magnitude		
	Large	Medium	Small
High	High Risk	Medium Risk	Low Risk
Medium	Medium Risk	Low Risk	Negligible
Low	Low Risk	Low Risk	Negligible

1.3 STEP 3: IDENTIFY THE NEED FOR SITE-SPECIFIC MITIGATION

1.3.1 Based on the risk of effects determined in Step 2C for each activity, appropriate site-specific mitigation measures are recommended. Appropriate mitigation measures are set out in the IAQM Guidance.

1.4 STEP 4: DEFINE EFFECTS AND THEIR SIGNIFICANCE

1.4.1 Finally the significance of the potential residual dust effects, i.e. after mitigation, is determined. According to the IAQM Guidance, the residual effects assessment assumes that the required level of mitigation to avoid or reduce impacts (as identified in Step 3) are adhered to, and therefore the residual effects should be considered to be '**not significant**'.

2. Construction Dust Assessment Supporting Information

2.1 OVERVIEW

- 2.1.1. This section provides a summary of supporting information used to inform the assessment of construction dust and PM₁₀ impacts.

1.2 STEP 2B: DEFINE THE SENSITIVITY OF THE AREA

- 2.2.1 Step 2B requires the identification and counting of sensitive receptors within set distances up to 350m from the construction works site boundary (Order Limits). To complete this task, the Ordnance Survey Address Layer was accessed in GIS software. The outcome of this process is summarised in Tables 14.2.13 to 14.2.17.

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
<20m	R1/00161	235998	392856	GWYDDELYN FACH	CEMAES BAY	Residential
	R1/00152	235933	392839	LLETY	CEMAES BAY	Residential
	R1/00256	236462	392130	GONGL FELYS	CEMAES BAY	Residential
	R1/01351	240129	389541	HAFODOL ISAF	RHOSGOCH	Residential
	R1/00162	235998	392856			Residential
20 – 50m	R1/00144	235902	393006	NANT Y GOF	CEMAES BAY	Residential
	R1/00153	235934	393012	MON MANAW	CEMAES BAY	Residential
	R1/00278	236584	391944	TYDDYN PAUL	AMLWCH	Residential
	R1/01168	237570	391448	CARROG GANOL	RHOSGOCH	Residential
	R1/00182	236065	393027	CLOVELLY	CEMAES BAY	Residential
	R1/00184	236070	393028	PENTREGOF BACH	CEMAES BAY	Residential
	N/A	N/A	N/A	Tre'r Gof SSSI		Ecological
50 – 100m	R1/01216	238197	390343	CLEGYROG BLAS	AMLWCH	Residential
	R1/00188	236076	393061	BRON WYLFA	CEMAES BAY	Residential
	R1/00292	236625	392508	BRYN SIRIOL	CEMAES BAY	Residential
	R1/00095	235678	392705	PEN YR ARDO	CEMAES BAY	Residential
	R1/00086	235665	392690	TROS Y FFORDD	CEMAES BAY	Residential
	R1/01293	238926	390104	PENTRE HEULYN	AMLWCH	Residential
	R1/01347	240011	389678	TYN YR ALLT	RHOSGOCH	Residential
	R1/01214	238188	390335			Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
100 – 350m	R1/00483	236818	391548	9A	AMLWCH	Residential
	R1/00058	235605	392472	TALDRWST	CEMAES BAY	Residential
	R1/00052	235560	392463	DRAENEN WEN	CEMAES BAY	Residential
	R1/00051	235540	392551			Residential
	R1/00648	236898	391377	SWN YR AFON	AMLWCH	Residential
	R1/00616	236886	391403	BARON HILL	AMLWCH	Residential
	R1/00701	236917	391447	BRYN HAFAN	AMLWCH	Residential
	R1/00733	236933	391405	MEDDANEN	AMLWCH	Residential
	R1/00671	236908	391316	COEDLYS	AMLWCH	Residential
	R1/00699	236916	391314	CEMLYN	AMLWCH	Residential
	R1/00784	236962	391249	PENYGROES	AMLWCH	Residential
	R1/00802	236972	391241	SIOP NEWYDD	AMLWCH	Residential
	R1/00812	236981	391285	OLD RECTORY	AMLWCH	Residential
	R1/00853	237014	391308	THE COACH HOUSE	AMLWCH	Residential
	R1/00240	236338	393087	PEN Y CEFN	CEMAES BAY	Residential
	R1/00235	236308	393151	TRERGOF UCHAF	CEMAES BAY	Residential
	R1/00225	236240	393102	TIR A MOR UCHAF	CEMAES BAY	Residential
	R1/00212	236165	393069	BRYN Y GOF	CEMAES BAY	Residential
	R1/00213	236169	393050	PENTREGOF	CEMAES BAY	Residential
	R1/00233	236284	393028	TONNAU GWYNION	CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00230	236265	393019	DOLWEN	CEMAES BAY	Residential
	R1/00224	236238	393014	RHANDIR MWYN	CEMAES BAY	Residential
	R1/00222	236222	393009	PEN Y GRAIG	CEMAES BAY	Residential
	R1/00215	236193	393004	BRYNIAU	CEMAES BAY	Residential
	R1/00209	236162	392887	GWYDDELYN FAWR	CEMAES BAY	Residential
	R1/00129	235833	393251	TYDDYN GORONWY	CEMAES BAY	Residential
	R1/00328	236673	392772	DOLYDD	CEMAES BAY	Residential
	R1/00325	236670	392742	NODDFA	CEMAES BAY	Residential
	R1/00362	236715	392626	HAFOD	CEMAES BAY	Residential
	R1/00339	236687	392646	AEL Y BRYN	CEMAES BAY	Residential
	R1/00323	236666	392620	HAFOD COTTAGE	CEMAES BAY	Residential
	R1/00298	236630	392637	THE OLD CORNMILL	CEMAES BAY	Residential
	R1/00309	236647	392640	MILL BUNGALOW	CEMAES BAY	Residential
	R1/00319	236660	392644	3 MILL COTTAGE	CEMAES BAY	Residential
	R1/00317	236657	392632	2 MILL COTTAGE	CEMAES BAY	Residential
	R1/00314	236654	392623	1 MILL COTTAGE	CEMAES BAY	Residential
	R1/00416	236762	392338	CEFN HELYG CYLL	CEMAES BAY	Residential
	R1/00384	236738	391473	THE OLD VILLAGE HALL	AMLWCH	Residential
	R1/00374	236727	391492	PENBODEISTEDD	AMLWCH	Residential
	R1/00676	236909	391551		AMLWCH	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00046	235512	393874	HAUL Y GWYNT	CEMAES BAY	Residential
	R1/00141	235882	392339	BROOKLYN	CEMAES BAY	Residential
	R1/00148	235915	392323	TREMONT	CEMAES BAY	Residential
	R1/00125	235796	392419	CROESO	CEMAES BAY	Residential
	R1/00120	235777	392444	CARTREF	CEMAES BAY	Residential
	R1/00176	236050	392251	1 CROMLECH TERRACE	CEMAES BAY	Residential
	R1/00173	236049	392245	2 CROMLECH TERRACE	CEMAES BAY	Residential
	R1/00174	236049	392239	3 CROMLECH TERRACE	CEMAES BAY	Residential
	R1/00175	236049	392230	4 CROMLECH TERRACE	CEMAES BAY	Residential
	R1/00196	236110	391956	CROMLECH FARM	CEMAES BAY	Residential
	R1/00117	235774	392499	TYN LLIDIART	CEMAES BAY	Residential
	R1/00091	235670	392599	MEADOW VIEW	CEMAES BAY	Residential
	R1/00087	235666	392605	PRESWYLFA	CEMAES BAY	Residential
	R1/00078	235651	392617	HOWTH HOUSE	CEMAES BAY	Residential
	R1/00077	235645	392623	WYLFOR	CEMAES BAY	Residential
	R1/00065	235628	392619	GLANDWR	CEMAES BAY	Residential
	R1/00094	235677	392629	HEULFRYN	CEMAES BAY	Residential
	R1/00089	235669	392636	RHIANFA	CEMAES BAY	Residential
	R1/00071	235638	392657	TYN REFAIL	CEMAES BAY	Residential
	R1/00072	235640	392666	THE BUNGALOW	CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00124	235789	392589	CAE GORS	CEMAES BAY	Residential
	R1/00044	235504	393887			Residential
	R1/00738	236938	391511			Residential
	R1/00114	235750	392470			Residential
	R1/00122	235783	392484	GORPHWYSFA	CEMAES BAY	Residential
	R1/01295	238989	389689	CROW FARM	RHOSGOCH	Residential
	R1/01332	239539	389403	RHYD Y FELIN	RHOSGOCH	Residential
	R1/01327	239398	389879	PEN YR ORSEDD	RHOSGOCH	Residential
	R1/01337	239745	389482	BRYN DU	RHOSGOCH	Residential
	R1/01352	240184	389423	HAFODOL GANOL	RHOSGOCH	Residential
	R1/01342	239858	389086	HAFODOL LLYN	RHOSGOCH	Residential
	R1/01345	239914	389139	CYSGOD Y COED	RHOSGOCH	Residential
	R1/01350	240051	389191	PANT Y GLO	RHOSGOCH	Residential
	R1/01324	239375	389744			Residential
	R1/01088	237316	391187	BRYNDDU	AMLWCH	Residential
	R1/01182	237770	390883	BODELWYN	AMLWCH	Residential
	R1/01177	237663	390907	ADWYR DDOL	AMLWCH	Residential
	R1/01291	238879	389617	BRYN COCH	AMLWCH	Residential
	R1/01294	238954	389693	BERWYN	AMLWCH	Residential
	R1/00028	235172	393022			Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00034	235248	393009			Residential
	R1/00036	235373	392892			Residential
	R1/00038	235427	392894			Residential
	R1/00041	235433	392903			Residential
	R1/01361	240632	389923	DAFAM HURYIAD	RHOSGOCH	Residential
	R1/01370	240864	389925	KENYON COTTAGE	RHOSGOCH	Residential
	R1/01203	238000	390563	BEUDYGWYN FARM	AMLWCH	Residential
	R1/01369	240796	389760			Residential
	R1/00067	235631	392623		CEMAES BAY	Residential
	R1/00333	236678	392740	CERI	CEMAES BAY	Residential
	R1/00265	236519	392769	CEFN HELYG	CEMAES BAY	Residential
	R1/00100	235701	392607	PEN-Y-GORS	CEMAES BAY	Residential
	R1/00116	235766	392557	TROS YR AFON	CEMAES BAY	Residential
	R1/00111	235727	392593	TYN CAE	CEMAES BAY	Residential
	R1/00183	236065	392241			Residential
	R1/00127	235812	392461	GWEL Y HAUL	CEMAES BAY	Residential
	R1/01118	237390	391210	BRYNDDU	AMLWCH	Residential
	R2/00016	240346	389234	GARNEDD ISAF	RHOSGOCH	Residential
	R1/00113	235746	392575	AWEL Y BRYN	CEMAES BAY	Residential
	R1/00074	235641	392626	MEIRIONFA	CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/01338	239747	389491			Residential
	R1/00263	236514	392760			Residential
	R1/00118	235775	392490	TŶ CAPEL BETHANIA	CEMAES BAY	Residential
	R1/00031	235192	392982			Residential
	R1/00203	236145	391997			Residential
	R1/00139	235877	392298	CYSGOD Y FOEL	CEMAES BAY	Residential
	R1/00121	235778	392494			Residential
	R1/01304	239211	389982	MELIN NANT	AMLWCH	Residential
	R1/00070	235637	392631	TYN Y GONGL	CEMAES BAY	Residential
	R1/00386	236738	391474	2 CHURCH ROOMS	AMLWCH	Residential
	R1/00387	236738	391474	1 CHURCH ROOMS	AMLWCH	Residential
	R1/00217	236196	392905	GWYDDELYN NEWYDD	CEMAES BAY	Residential
	R1/00128	235831	392390	TAWELFAN	CEMAES BAY	Residential
	R1/00211	236163	392128			Residential
	R1/00691	236913	391389	GWEL YR AFON	AMLWCH	Residential
	R1/00759	236950	391405	1 WRTH YR AFON	AMLWCH	Residential
	R1/00785	236963	391395	2 WRTH YR AFON	AMLWCH	Residential
	R1/01279	238380	389765			Residential
	R1/01280	238380	389765			Residential
	R1/00048	235525	392529	YSGUBOR DDEGWM	CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00049	235525	392529			Residential
	R1/00310	236648	392495			Residential
	R1/01206	238014	390595			Residential
	R1/01204	238014	390584			Residential
	R1/01205	238014	390575			Residential
	R1/01325	239376	389885			Residential
	R1/01187	237819	390607	BODELWYN UCHAF	AMLWCH	Residential
	R1/00126	235811	392459			Residential
	R1/00079	235652	392653			Residential
	R1/00102	235706	392561		CEMAES BAY	Residential
	R1/00104	235711	392556		CEMAES BAY	Residential
	R1/00107	235716	392552		CEMAES BAY	Residential
	R1/00105	235714	392539		CEMAES BAY	Residential
	R1/00109	235720	392535		CEMAES BAY	Residential
	R1/00110	235725	392530		CEMAES BAY	Residential
	R1/00093	235675	392534		CEMAES BAY	Residential
	R1/00096	235680	392528		CEMAES BAY	Residential
	R1/00097	235685	392523		CEMAES BAY	Residential
	R1/00098	235694	392515		CEMAES BAY	Residential
	R1/00099	235698	392511		CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00101	235703	392506		CEMAES BAY	Residential
	R1/00103	235708	392501		CEMAES BAY	Residential
	R1/00106	235714	392496		CEMAES BAY	Residential
	R1/00108	235718	392490		CEMAES BAY	Residential
	R1/00084	235661	392569		CEMAES BAY	Residential
	R1/00088	235668	392564		CEMAES BAY	Residential
	R1/00092	235673	392561		CEMAES BAY	Residential
	R1/00064	235626	392584		CEMAES BAY	Residential
	R1/00062	235619	392591		CEMAES BAY	Residential
	R1/00069	235634	392576		CEMAES BAY	Residential
	R1/00073	235640	392570		CEMAES BAY	Residential
	R1/00055	235590	392524		CEMAES BAY	Residential
	R1/00057	235605	392519		CEMAES BAY	Residential
	R1/00060	235609	392515		CEMAES BAY	Residential
	R1/00063	235624	392510		CEMAES BAY	Residential
	R1/00066	235629	392505		CEMAES BAY	Residential
	R1/00056	235598	392562		CEMAES BAY	Residential
	R1/00076	235645	392500	12A	CEMAES BAY	Residential
	R1/00080	235656	392487		CEMAES BAY	Residential
	R1/00082	235660	392480		CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00580	236868	391409		AMLWCH	Residential
	R1/00572	236864	391413		AMLWCH	Residential
	R1/00562	236860	391416		AMLWCH	Residential
	R1/00552	236856	391419		AMLWCH	Residential
	R1/00546	236852	391421		AMLWCH	Residential
	R1/00537	236848	391425		AMLWCH	Residential
	R1/00527	236843	391428		AMLWCH	Residential
	R1/00520	236839	391430		AMLWCH	Residential
	R1/00444	236790	391474	DUNELM	AMLWCH	Residential
	R1/00408	236752	391518	DELFRYN	AMLWCH	Residential
	R1/00514	236837	391472		AMLWCH	Residential
	R1/00519	236839	391480		AMLWCH	Residential
	R1/00518	236839	391489		AMLWCH	Residential
	R1/00525	236842	391498		AMLWCH	Residential
	R1/00526	236843	391507		AMLWCH	Residential
	R1/00528	236844	391515		AMLWCH	Residential
	R1/00573	236865	391470		AMLWCH	Residential
	R1/00568	236863	391484		AMLWCH	Residential
	R1/00579	236868	391502		AMLWCH	Residential
	R1/00594	236875	391501		AMLWCH	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00606	236883	391498		AMLWCH	Residential
	R1/00626	236890	391497		AMLWCH	Residential
	R1/00643	236896	391494		AMLWCH	Residential
	R1/00657	236902	391494		AMLWCH	Residential
	R1/00627	236890	391472		AMLWCH	Residential
	R1/00621	236888	391460		AMLWCH	Residential
	R1/00618	236887	391448		AMLWCH	Residential
	R1/00545	236852	391568		AMLWCH	Residential
	R1/00507	236835	391561		AMLWCH	Residential
	R1/00582	236869	391571		AMLWCH	Residential
	R1/00551	236856	391529		AMLWCH	Residential
	R1/00605	236883	391588		AMLWCH	Residential
	R1/00571	236864	391532		AMLWCH	Residential
	R1/00631	236891	391528		AMLWCH	Residential
	R1/00599	236878	391533		AMLWCH	Residential
	R1/00569	236863	391478		AMLWCH	Residential
	R1/00684	236911	391517		AMLWCH	Residential
	R1/00656	236902	391522		AMLWCH	Residential
	R1/00634	236893	391591		AMLWCH	Residential
	R1/00663	236904	391569		AMLWCH	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/00468	236806	391533		AMLWCH	Residential
	R1/00422	236771	391497	BRONALLT	AMLWCH	Residential
	R1/00424	236777	391485	TIRNANOG	AMLWCH	Residential
	R1/00460	236801	391517	TROFA	AMLWCH	Residential
	R1/00273	236564	392573	BRYN AWELON	CEMAES BAY	Residential
	R1/00068	235634	392626	GLAN EIFION	CEMAES BAY	Residential
	R1/01288	238722	389695	PANT Y CRINTACH	AMLWCH	Residential
	R1/00455	236799	391498	Y BRYN	AMLWCH	Residential
	R1/00032	235204	392984			Residential
	R1/00054	235584	392531		CEMAES BAY	Residential
	R1/00075	235642	392500		CEMAES BAY	Residential
	R1/00418	236765	391437		AMLWCH	Residential
	R1/00428	236778	391423		AMLWCH	Residential
	R1/00453	236796	391411		AMLWCH	Residential
	R1/00479	236813	391398		AMLWCH	Residential
	R1/00529	236845	391366		AMLWCH	Residential
	R1/00564	236861	391355		AMLWCH	Residential
	R1/00145	235903	392403	2 GER YR AFON	CEMAES BAY	Residential
	R1/00147	235914	392384	3 GER YR AFON	CEMAES BAY	Residential
	R1/00140	235880	392388	1 GER YR AFON	CEMAES BAY	Residential

Table 14.2.13: High Sensitive Receptors – Section A Wylfa to Rhosgoch ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R1/01281	238380	389765	2 CLEGYROG GANOL	AMLWCH	Residential
	R1/00142	235892	392365	4 GER YR AFON	CEMAES BAY	Residential
	R1/00033	235236	392970	GWYDDELYN FACH		Residential
	C1/00022	236608	391770	COED COTTAGES	LLANFECHELL	Commercial
	C1/00017	236162	392089	CROMLECH COTTAGE	TREGELE	Commercial

¹ including Wylfa Substation Construction Compound

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyfydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
<20m	R2/00624	242461	387740	GARREG FELAN	AMLWCH	Residential
	R2/00643	242476	387785	CARREG WEN	AMLWCH	Residential
	R2/00819	243105	386289	FRONGAER	LLANNERCH-Y-MEDD	Residential
	R2/00848	243858	386633	GAER FARM	LLANNERCH-Y-MEDD	Residential
	R2/00830	243379	386145	GYDRHOS	LLANNERCH-Y-MEDD	Residential

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyrydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R2/00833	243420	386140	BOSTON COTTAGE	LLANNERCH-Y-MEDD	Residential
	R2/00871	244406	385379	TŶ MAWR	LLANNERCH-Y-MEDD	Residential
	R2/00036	240939	389224	TALLY HO	RHOSGOCH	Residential
	R2/00025	240635	389078	ARDRO	RHOSGOCH	Residential
	R2/00076	241509	388439	PEN YR ORSEDD	AMLWCH	Residential
	R2/00397	242036	387684	PENRHYN NEWYDD	AMLWCH	Residential
	R2/00154	241652	388389	BWTHYN DAISY	AMLWCH	Residential
	R2/00155	241652	388389			Residential
	R2/00835	243456	386111			Residential
	R2/00030	240879	389142	BRYN AUL	RHOSGOCH	Residential
	R2/00032	240918	389182	2 BRO DAWEL	RHOSGOCH	Residential
	C2/0006	240932	389249	THE RING HOTEL	RHOSGOCH	Commercial
	20 – 50m	R2/00673	242515	387561	AWEL Y DDOL	AMLWCH
R2/00645		242477	387808	GALLT Y GORSLWYD	AMLWCH	Residential
R2/00649		242480	387832	CARREG DDU	AMLWCH	Residential
R2/00489		242227	387961	GORSLWYD BACH	AMLWCH	Residential
R2/00827		243255	386068	DYCHWELFAN	LLANNERCH-Y-MEDD	Residential

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyrydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00137	244767	385211	CAE WARREN	LLANNERCH-Y-MEDD	Residential
	R2/00867	244330	385333	YR HEN YSGOL	LLANNERCH-Y-MEDD	Residential
	R2/00866	244316	385519	PANT Y MEL	LLANNERCH-Y-MEDD	Residential
	R2/00888	244574	386026	BODNEITHOR	LLANNERCH-Y-MEDD	Residential
	R2/00020	240505	389093	CLYDFAN	RHOSGOCH	Residential
	R2/00027	240679	388983	TYN CAE	RHOSGOCH	Residential
	R2/00022	240542	388820	TYN RHOS	RHOSGOCH	Residential
	R2/00352	241965	387744	LLETY	AMLWCH	Residential
	R2/00417	242051	387638	EITHINOG	AMLWCH	Residential
	R2/00705	242555	386828	TYN FFRWD	AMLWCH	Residential
	R2/00034	240924	389260			Residential
	R2/00331	241936	387817	CYNLAS	AMLWCH	Residential
	R2/00854	244007	386156			Residential
	R2/00035	240934	389171	3 BRO DAWEL	RHOSGOCH	Residential
	R2/00038	240947	389166	4 BRO DAWEL	RHOSGOCH	Residential
	R2/00625	242462	387829		AMLWCH	Residential

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyrydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R2/00612	242449	387821		AMLWCH	Residential
50 – 100m	R2/00691	242543	387748	GORSLWYD FAWR BUNGALOW	AMLWCH	Residential
	R2/00040	240968	389112	RHOSGOCH FARM	RHOSGOCH	Residential
	R2/00853	244000	386263	GYFYNWEN	LLANNERCH-Y-MEDD	Residential
	R2/00857	244075	386148	BRYN GOLEU	LLANNERCH-Y-MEDD	Residential
	R2/00894	244605	385329	THE RECTORY	LLANNERCH-Y-MEDD	Residential
	R2/00043	240986	389292	GORFFWYSFA	RHOSGOCH	Residential
	R2/00041	240973	389279	STATION HOUSE	RHOSGOCH	Residential
	R2/00375	242010	388294	Y BYWYD DA	AMLWCH	Residential
	R2/00341	241951	388330			Residential
	R2/00727	242587	387759			Residential
	R2/00597	242436	387820		AMLWCH	Residential
	R2/00039	240962	389163	5 BRO DAWEL	RHOSGOCH	Residential
	R2/00628	242463	387884		AMLWCH	Residential
	R2/00631	242465	387869		AMLWCH	Residential
	R2/00605	242442	387866		AMLWCH	Residential
R2/00591	242429	387865		AMLWCH	Residential	

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyrydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R2/00584	242421	387847		AMLWCH	Residential
	R2/00588	242424	387834		AMLWCH	Residential
100 – 350m	R2/00818	243027	387152	PWLLCOCH ISAF	AMLWCH	Residential
	R2/00729	242589	387719	GORSLWYD FAWR	AMLWCH	Residential
	R2/00630	242465	387920	TREMALAW	AMLWCH	Residential
	R2/00629	242465	387936	CYNEFIN	AMLWCH	Residential
	R2/00634	242467	387961	MORANEDD	AMLWCH	Residential
	R2/00623	242460	387991	TALAR WEN	AMLWCH	Residential
	R2/00613	242450	388031	TI A MI	AMLWCH	Residential
	R2/00652	242486	388074	BERTHLWYD	AMLWCH	Residential
	R2/00656	242489	388119	RIO	AMLWCH	Residential
	R2/00861	244151	385366	BRYN EGLWYS	LLANNERCH-Y-MEDD	Residential
	R2/00836	243525	385748	BRYN DYFRYDOG	LLANNERCH-Y-MEDD	Residential
	R2/00815	243005	386377	HAFOD Y PLAS	LLANNERCH-Y-MEDD	Residential
	R2/00811	242933	386413	RHOSYDD	LLANNERCH-Y-MEDD	Residential
R2/00864	244290	386445	TYDDYN BACH	LLANNERCH-Y-	Residential	

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyrydog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
					MEDD	
	R2/00855	244028	386326	AFALLON	LLANNERCH-Y-MEDD	Residential
	R2/00810	242902	385951	LLYS EINION	LLANNERCH-Y-MEDD	Residential
	R2/00011	240200	388994	GARNEDD NEWYDD	RHOSGOCH	Residential
	R2/00013	240318	389002	GWENALLT	RHOSGOCH	Residential
	R2/00037	240945	389387	TŶ HEN STESION	RHOSGOCH	Residential
	R2/00017	240399	389017	THE SPORTSMANS LODGE	RHOSGOCH	Residential
	R2/00019	240406	388988	REFAIL PENGARNEDD	RHOSGOCH	Residential
	R2/00015	240329	388958	BWTHYN BACH	RHOSGOCH	Residential
	R2/00012	240313	388933	GWELFYNYDD	RHOSGOCH	Residential
	R2/00470	242146	388462	TREFLYS	AMLWCH	Residential
	R2/00475	242162	388483	MOOKER HEI	AMLWCH	Residential
	R2/00478	242176	388515	PRESWYLFA	AMLWCH	Residential
	R2/00457	242113	388386	BRYNTIRION	AMLWCH	Residential
	R2/00371	242003	387551	PENRHYN MAWR	AMLWCH	Residential
	R2/00604	242441	387053	PWLLCOCH UCHAF	AMLWCH	Residential
	R2/00347	241960	387541	BEUDY PENRHYN	AMLWCH	Residential
	R2/00756	242675	387701	ERW LAS	AMLWCH	Residential

Table 13.2.14: High Sensitive Receptors – Section B Rhosgoch to Llandyfriedog						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R2/00681	242529	388095	HAFOD Y RHOS	AMLWCH	Residential
	R2/00655	242487	388078	CRAIGWEN	AMLWCH	Residential
	R2/00684	242531	388120			Residential
	R2/00622	242459	388151	6 ROSEHILL ESTATE	AMLWCH	Residential
	R2/00616	242452	388134	7 ROSEHILL ESTATE	AMLWCH	Residential
	R2/00594	242433	388146	8 ROSEHILL ESTATE	AMLWCH	Residential
	R2/00601	242438	388162	9 ROSEHILL ESTATE	AMLWCH	Residential
	R2/00766	242701	387694	PENTERFYN	AMLWCH	Residential
	R2/00018	240404	389020			Residential
	R2/00048	241155	389455	BRYN HYFRYD	RHOSGOCH	Residential
	R2/00046	241050	389358	CAE FFYNON	RHOSGOCH	Residential
	R2/00045	241032	389232	GLYN EWRYD	RHOSGOCH	Residential
	R2/00010	240181	388742	CAE NEWYDD	RHOSGOCH	Residential
	R2/00511	242316	388281		AMLWCH	Residential
	R2/00512	242321	388276		AMLWCH	Residential
	R2/00523	242339	388273		AMLWCH	Residential
	R2/00525	242342	388269		AMLWCH	Residential
	R2/00547	242361	388266		AMLWCH	Residential
	R2/00550	242365	388261		AMLWCH	Residential
	R2/00627	242463	387895		AMLWCH	Residential

Table 13.2.15: High Sensitive Receptors – Section C Llandyrydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
<20m	R3/00141	245031	384672	PONT Y COCHYN	LLANNERCH-Y-MEDD	Residential
	R3/00372	247439	378382	CEFN CARROG	LLANGFNI	Residential
	R3/00255	246002	383595	TYDDYN MELUS	LLANGFNI	Residential
	R3/00188	245673	383306	PLAS LLANFIHANGEL	LLANGFNI	Residential
	R3/00276	246085	383065	Y GORLAN	LLANGFNI	Residential
	R3/00303	246205	382697	TAL Y LLYN	LLANGFNI	Residential
	R3/00297	246149	382657	GWEL Y MYNYDD	LLANGFNI	Residential
	R3/00138	244886	384241	CLORACH FAWR	LLANNERCH-Y-MEDD	Residential
	R3/00273	246078	380362	ERDDREINIOG	LLANGFNI	Residential
	R3/00174	245584	384139	REFAIL	LLANNERCH-Y-MEDD	Residential
	N/A	N/A	N/A	Corsydd Mon (Anglesey Fens) SAC		Ecological
20 – 50m	R3/00375	247513	378232	NEUADD WEN FARM	LLANGFNI	Residential
	R3/00261	246019	383638	NEUADD WEN	LLANGFNI	Residential
	R3/00291	246126	382995	HEN SIOP	LLANGFNI	Residential
	R3/00288	246117	382855	LLETY	LLANGFNI	Residential
	R3/00282	246110	382834	GWYNFYD Y GWYNT	LLANGFNI	Residential

Table 13.2.15: High Sensitive Receptors – Section C Llandyfydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00284	246112	382651	DERWEN	LLANGEFNI	Residential
	R3/00295	246147	382631	GER Y COED	LLANGEFNI	Residential
	R3/00176	245605	381146	MAES Y COED	LLANGEFNI	Residential
	R3/00290	246118	382884	ERW FACH	LLANGEFNI	Residential
	R3/00175	245584	384129	REFAIL	LLANNERCH-Y-MEDD	Residential
	R3/00148	245238	383781	PARC YR YNYS	LLANNERCH-Y-MEDD	Residential
	R3/00286	246116	382694	LLAIN Y SAER	LLANGEFNI	Residential
	R3/00287	246116	382694			Residential
	R3/00173	245580	384097	REFAIL NEWYDD	LLANNERCH-Y-MEDD	Residential
50 – 100m	R3/00380	247692	379148	FFERM CEFNIWRCH	LLANGEFNI	Residential
	R3/00294	246142	382602	BRITHDIR	LLANGEFNI	Residential
	R3/00281	246109	382613	TYN LON	LLANGEFNI	Residential
	R3/00292	246127	382576	GLASCOED	LLANGEFNI	Residential
	R3/00305	246209	382304	YSGUBOR FAWR	LLANGEFNI	Residential
	R3/00293	246141	382611			Residential
	R3/00182	245647	381196	BWLCH Y COED	LLANGEFNI	Residential
	R3/00307	246222	382475			Residential

Table 13.2.15: High Sensitive Receptors – Section C Llandyrydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00194	245793	384128	DELFRYN	LLANNERCH-Y-MEDD	Residential
	R3/00185	245655	381224	BWLCH Y DARAN	LLANGFNI	Residential
100 – 350m	R3/00382	247742	379278	GREENACRES	LLANGFNI	Residential
	R3/00384	247761	379301	PENDREF	LLANGFNI	Residential
	R3/00386	247820	379329	TŶ CAPEL	LLANGFNI	Residential
	R3/00387	247829	379344	PLAS BACH	LLANGFNI	Residential
	R3/00399	248042	378779	PENYFAN GOSAF	LLANGFNI	Residential
	R3/00395	247985	378519	TAN Y FELIN	LLANGFNI	Residential
	R3/00270	246070	382564	MALLENDERS	LLANGFNI	Residential
	R3/00262	246028	382517	TARTH Y MYNYDD	LLANGFNI	Residential
	R3/00256	246002	382440	TWRCELYN	LLANGFNI	Residential
	R3/00250	245998	382433	TAN Y CAPEL	LLANGFNI	Residential
	R3/00232	245953	382408	TRE CEIRI	LLANGFNI	Residential
	R3/00242	245974	382342	1 COUNCIL HOUSES	LLANGFNI	Residential
	R3/00241	245973	382336	2 COUNCIL HOUSES	LLANGFNI	Residential
	R3/00240	245972	382329	3 COUNCIL HOUSES	LLANGFNI	Residential
	R3/00239	245971	382323	4 COUNCIL HOUSES	LLANGFNI	Residential
	R3/00228	245939	382275	PLOUGH	LLANGFNI	Residential
R3/00225	245933	382256	PENTYDDYN	LLANGFNI	Residential	

Table 13.2.15: High Sensitive Receptors – Section C Llandyfrydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00272	246077	381631	CAE MAES GAFARN	LLANGEFNI	Residential
	R3/00167	245540	380589	TYN COED	LLANGEFNI	Residential
	R3/00355	247093	378535	CARROG GROES	LLANGEFNI	Residential
	R3/00159	245470	385130	TREWYN	LLANNERCH-Y-MEDD	Residential
	R3/00135	244728	384161	CLORACH BACH	LLANNERCH-Y-MEDD	Residential
	R3/00211	245875	384185	PENRHOS	LLANNERCH-Y-MEDD	Residential
	R3/00224	245931	384075	TŶ NEWYDD	LLANNERCH-Y-MEDD	Residential
	R3/00274	246080	384013	PENRALLT	LLANNERCH-Y-MEDD	Residential
	R3/00247	245991	384071	LLAIN SIOR	LLANNERCH-Y-MEDD	Residential
	R3/00244	245985	382363	GORSLWYD	LLANGEFNI	Residential
	R3/00368	247284	379041	BODWENA	LLANGEFNI	Residential
	R3/00226	245937	384053	TREDAFYDD	LLANNERCH-Y-MEDD	Residential
	R3/00266	246051	382541	LLEUAD LAS	LLANGEFNI	Residential
	R3/00227	245938	382366	GORS ARIAN	LLANGEFNI	Residential

Table 13.2.15: High Sensitive Receptors – Section C Llandyrydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00381	247726	379254			Residential
	R3/00200	245838	384114			Residential
	R3/00264	246049	382742	MAEN COCH	LLANGEFNI	Residential
	R3/00238	245968	381630			Residential
	R3/00265	246049	382742			Residential
	R3/00236	245968	382279	1 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00235	245967	382269	2 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00234	245966	382260	3 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00252	245999	382253	4 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00251	245999	382263	5 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00253	246000	382272	6 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00254	246001	382280	7 MAES GWYNEDD	LLANGEFNI	Residential
	R3/00230	245941	384053	1 AEL Y BRYN	LLANNERCH-Y-MEDD	Residential
	R3/00231	245949	384125	AVONDALE	LLANNERCH-Y-MEDD	Residential
	R3/00201	245838	384098	LLWYN BEDW	LLANNERCH-Y-MEDD	Residential
	R3/00217	245908	384111	MAEN FARM	LLANNERCH-Y-MEDD	Residential

Table 13.2.15: High Sensitive Receptors – Section C Llandyfydog to B5110 north of Talwrn						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R3/00263	246040	382483	TŶ CAPEL	LLANGEFNI	Residential
	C3/00023	245783	381793			Commercial
	C3/00025	245793	381793			Commercial
	C3/00026	245802	381791			Commercial
	C3/00027	245810	381791			Commercial
	C3/00028	245838	384114	MAENADDWYN NURSERIES	LLANNERCH-Y-MEDD	Commercial

Table 13.2.16: High Sensitive Receptors – Section D B5110 north of Talwrn to the Ceint ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
<20m	R4/01476	247867	377483	TŶ MAWR	LLANGEFNI	Residential
	R4/01479	247966	377240			Residential
	R4/01483	248088	377064	DOLYDD NEWYDD	LLANGEFNI	Residential
	N/A	N/A	N/A	Corsydd Mon (Anglesey Fens) SAC		Ecological
20 – 50m	R4/01480	248070	375214	TYN Y FELIN	LLANGEFNI	Residential
	R4/01631	248976	374845	CEINT FAWR	LLANGEFNI	Residential

Table 13.2.16: High Sensitive Receptors – Section D B5110 north of Talwrn to the Ceint ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R4/01488	248183	376085			Residential
50 – 100m	R4/01478	247923	376804	HENDRE HYWEL	LLANGEFNI	Residential
	R4/01602	248913	374965	PEN CEINT	LLANGEFNI	Residential
	R4/01481	248073	377596	TŶ NEWYDD	LLANGEFNI	Residential
	R4/01491	248212	377000	RHANDIR	LLANGEFNI	Residential
100 – 300m	R4/01492	248246	376976	TYN LON	LLANGEFNI	Residential
	R4/01493	248251	377004	DOLYDD	LLANGEFNI	Residential
	R4/01495	248267	377020	SOUTH VIEW	LLANGEFNI	Residential
	R4/01497	248288	377031	CERDD YR AWEL	LLANGEFNI	Residential
	R4/01498	248310	377045	TRAWSCOED	LLANGEFNI	Residential
	R4/01500	248342	377067	MAES YR HAF	LLANGEFNI	Residential
	R4/01502	248365	377090	COEDFRYN	LLANGEFNI	Residential
	R4/01501	248364	377199	BRYN TIRION	LLANGEFNI	Residential
	R4/01499	248339	374820	CAE MAEN HIR	LLANGEFNI	Residential
	R4/01471	247740	376615	PENTERFYN TALWRN	LLANGEFNI	Residential
	R4/01470	247710	376604	YSGUBOR HEN	LLANGEFNI	Residential
	R4/01469	247696	376358	RHOSYDD	LLANGEFNI	Residential
	R4/01506	248423	377202	RHOSLAN	LLANGEFNI	Residential
	R4/01509	248441	377219	BRYN FFYNNON	LLANGEFNI	Residential
R4/01511	248443	376397	CEFN POETH BACH	LLANGEFNI	Residential	

Table 13.2.16: High Sensitive Receptors – Section D B5110 north of Talwrn to the Ceint ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R4/01595	248864	375760	BRYN GWALLEN FARM	LLANGFNI	Residential
	R4/01485	248139	377776	PEN Y GARREG	LLANGFNI	Residential
	R4/01496	248278	377637	TYN YR ONN	LLANGFNI	Residential
	R4/01528	248496	376950	MEILLION	LLANGFNI	Residential
	R4/01510	248443	376965	TŶ CROES	LLANGFNI	Residential
	R4/01508	248437	377067	HAFAN DEG	LLANGFNI	Residential
	R4/01474	247801	375445	THE OLD BARN	LLANGFNI	Residential
	R4/01505	248422	376985	CAE BRENIN	LLANGFNI	Residential
	R4/01484	248114	377764			Residential
	R4/01494	248261	377639			Residential
	R4/01504	248405	377004	LLECHYN BRAF	LLANGFNI	Residential
	R4/01599	248902	374986			Residential
	R4/01503	248397	377121	BRYNRWY	LLANGFNI	Residential
	R4/01487	248179	378093			Residential
	R4/01486	248178	378077			Residential
	R4/01513	248456	377004		LLANGFNI	Residential
	R4/01518	248470	377012		LLANGFNI	Residential
	R4/01507	248436	377037		LLANGFNI	Residential
	R4/01520	248475	376993		LLANGFNI	Residential
	R4/01527	248496	376988		LLANGFNI	Residential

Table 13.2.16: High Sensitive Receptors – Section D B5110 north of Talwrn to the Ceint ¹						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R4/01514	248457	377048		LLANGEFNI	Residential
	R4/01440	247357	377099	CLEGYRDY BACH	LLANGEFNI	Residential
	R4/01653	249059	374893	GLYN	LLANGEFNI	Residential
	R4/01475	247833	376134	BOD GYLCHED	LLANGEFNI	Residential
	R4/01443	247366	377081	GORWEL	LLANGEFNI	Residential
	R4/01482	248082	375618			Residential
	R4/01467	247614	376068	CAE CWTA BACH	LLANGEFNI	Residential
	R4/01473	247770	375442	DAFARN NEWYDD	LLANGEFNI	Residential
	R4/01472	247764	375432			Residential
	R4/01468	247630	376079	BOD ADAIR	LLANGEFNI	Residential

¹ Including the Penmynydd Road Construction Compound

Table 13.2.17: High Sensitive Receptors – Section E Ceint to the Afon Braint						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
<20m	R5/02191	249311	372985	FRON DEG	GAERWEN	Residential
	R5/02594	250345	372129	GARNEDD FAWR	GAERWEN	Residential
	R5/02613	250534	371385	TYCANOL GESAIL GAM	GAERWEN	Residential
	R5/02610	250510	371394	GWERN LLWYN	GAERWEN	Residential

Table 13.2.17: High Sensitive Receptors – Section E Ceint to the Afon Braint						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R5/02725	251082	371429	RHOS BOTHAN	GAERWEN	Residential
	R5/02687	250918	371847	LLAIN BERLLAN	GAERWEN	Residential
	R5/02563	250081	371143	PARCIAU	GAERWEN	Residential
	R5/02582	250230	371213	TYN LON	GAERWEN	Residential
20 – 50m	R5/02059	249090	373573	FRON ISAF	GAERWEN	Residential
	R5/01149	248518	373952	NANT FARM	GAERWEN	Residential
	R5/02611	250513	372117	GARNEDD DDU	GAERWEN	Residential
	R5/02622	250577	372082	BODFAN	GAERWEN	Residential
	R5/02617	250553	372078	MAESTEG	GAERWEN	Residential
	R5/02609	250509	371476	GLANDWR	GAERWEN	Residential
	R5/02705	250953	371852	TŶ NEWYDD	GAERWEN	Residential
	R5/02585	250241	372595	KEEPERS LODGE	GAERWEN	Residential
	R5/02606	250490	371379	ARDWY FACH	GAERWEN	Residential
	R5/01211	248557	373988	NANT	GAERWEN	Residential
	R5/02428	249666	372872	PARADWYS	GAERWEN	Residential
	R5/02592	250308	371768	TYDDYN ISAF	GAERWEN	Residential
R5/02612	250513	372117			Residential	
50 – 100m	R5/02691	250924	371939	LLYS MEIRION	GAERWEN	Residential
	R5/02567	250094	371974	ANWYLFA	GAERWEN	Residential
	R5/02593	250342	372188	GARNEDD ISAF	GAERWEN	Residential

Table 13.2.17: High Sensitive Receptors – Section E Ceint to the Afon Braint						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R5/02607	250493	372124	GARNEDD DDU	GAERWEN	Residential
	R5/02601	250441	372086	GARNEDD DDU	GAERWEN	Residential
	R5/02602	250441	372086	GARNEDD DDU	GAERWEN	Residential
	R5/02603	250441	372086			Residential
	R5/02534	249987	372733	GARNEDD NEWYDD	GAERWEN	Residential
	R5/02605	250474	371361	TEGFAN	GAERWEN	Residential
	R5/02600	250419	371369	DALEGARTH	GAERWEN	Residential
	R5/02552	250053	371091	BRYN AWELON	GAERWEN	Residential
	R5/02544	250013	371062	CERRIG CAMOG BACH	GAERWEN	Residential
	R5/02335	249572	373166			Residential
100 – 300m	R5/02749	251211	372214		GAERWEN	Residential
	R5/02414	249648	373151	CEFN DU ISAF	GAERWEN	Residential
	R5/01873	248958	373591	NANT UCHAF	GAERWEN	Residential
	R5/02561	250081	371888	STAR CROSSING COTTAGE	GAERWEN	Residential
	R5/02568	250094	371905	GERLAN	GAERWEN	Residential
	R5/02554	250059	371936	WAYSIDE	GAERWEN	Residential
	R5/02555	250059	371936	WAYSIDE	GAERWEN	Residential
	R5/02121	249166	372796	FRON CAPEL	GAERWEN	Residential
	R5/02726	251092	372040	TALCEN EIDDEW	GAERWEN	Residential
R5/02743	251201	372067	DOLSERAU	GAERWEN	Residential	

Table 13.2.17: High Sensitive Receptors – Section E Ceint to the Afon Braint						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R5/02741	251194	372125	LLYS CELYN	GAERWEN	Residential
	R5/02751	251213	372137	MAENAN	GAERWEN	Residential
	R5/02761	251235	372087	DOLWEN	GAERWEN	Residential
	R5/02731	251139	372083	TREGARNEDD	GAERWEN	Residential
	R5/02626	250600	372327	PLAS PENBRYN	GAERWEN	Residential
	R5/02636	250626	371010	HOLOGWYN	GAERWEN	Residential
	R5/02703	250939	372216	TYDDYN BRITH	GAERWEN	Residential
	R5/02709	250969	372331	LLYS PARADWYS	GAERWEN	Residential
	R5/02671	250836	372181	FACTORY COTTAGE	GAERWEN	Residential
	R5/02656	250713	372406	CASTELLFRYN	GAERWEN	Residential
	R5/02003	249048	373415	FRON OLEU	GAERWEN	Residential
	R5/01759	248882	373407	WERN	GAERWEN	Residential
	R5/01598	248790	373490	RHYD YR ARIAN BACH	GAERWEN	Residential
	R5/02526	249956	371016	PENGOLWG	GAERWEN	Residential
	R5/02529	249966	371032	PORFA LAS	GAERWEN	Residential
	R5/02574	250115	370981	TYDDYN ADDA	GAERWEN	Residential
	R5/02519	249941	370984	BENLAS	GAERWEN	Residential
	R5/02510	249906	370988	TIR NA NOG	GAERWEN	Residential
	R5/02505	249883	370975	NODDFA	GAERWEN	Residential
	R5/02504	249880	370881	PEN LOYN	GAERWEN	Residential

Table 13.2.17: High Sensitive Receptors – Section E Ceint to the Afon Braint						
Distance Zone	Receptor ID	Grid Reference		Address 1	Address 2	Receptor Type
		X	Y			
	R5/02502	249849	370855	COED CELYN	GAERWEN	Residential
	R5/02501	249828	370838	ASHBOURNE HOUSE	GAERWEN	Residential
	R5/02411	249645	371157	TREFNANT BACH	GAERWEN	Residential
	R5/02444	249683	371046	TYDDYN UCHAF	GAERWEN	Residential
	R5/02596	250371	371495	MAES Y RHEDYN	GAERWEN	Residential
	R5/02553	250054	371590	PARCIAU ISAF	GAERWEN	Residential
	R5/02700	250935	372281			Residential
	R5/02728	251108	372050	TALGOED	GAERWEN	Residential
	R5/02641	250649	371016	HOLOGWYN	GAERWEN	Residential
	R5/02635	250621	371021	HOLOGWYN	GAERWEN	Residential
	R5/02696	250932	372282			Residential
	R5/02697	250932	372282			Residential
	R5/01657	248831	373414	YSGUBOR WEN	GAERWEN	Residential
	R5/02669	250812	372226			Residential
	R5/02672	250836	372181			Residential
	R5/02763	251236	372151		GAERWEN	Residential

Table 13.2.18: High Sensitive Receptors – Section F Afon Braint to Pentir ¹					
Distance	Receptor ID	Grid Reference	Address 1	Address 2	Receptor Type

Zone		X	Y			
<20m	R5/08407	255280	368367		Y FELINHELI	Residential
	R5/08574	255340	368016	GARTH FARM	LLANFAIR- PWLLGWYNGYLL	Residential
100 – 300m	R5/02987	251888	371159	LLWYN OGAN	LLANFAIR- PWLLGWYNGYLL	Residential
	R5/03134	252017	371437	PONT RONWY FARM	Y FELINHELI	Residential
¹ including Braint and Tŷ Fodol Construction Compounds and Pentir Substation Construction Compound						

1.3 STEP 3: IDENTIFY THE NEED FOR SITE-SPECIFIC MITIGATION

- 1.3.1 Step 3 requires the identification of specific mitigation measures to meet the dust risk impact level established during Step 2 of the construction dust assessment method (as per the method described in Section 1 of this appendix). The IAQM guidance provides a comprehensive list of dust mitigation measures, as set out in Tables 14.2.19 and 14.2.20, some of which are applicable to the dust risk identified in the assessment of the Proposed Development, and have therefore been included within the CEMP (**Document 7.4**)

Table 14.2.19: IAQM Suggested Mitigation Measures for all Sites and Stages of Construction Work			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
<i>Communications</i>			
Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	N	H	H
Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the environment manager/engineer or the site manager.	H	H	H
Display the head or regional office contact information.	H	H	H
Develop and implement a Dust Management Plan, which may include measures to control other emissions, approved by the Local Authority. The level of detail will depend on the risk, and should include as a minimum the highly recommended measures in this document. The desirable measures should be included as appropriate for the site.	D	H	H
<i>Site Management</i>			
Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.	N	H	H
Make the complaints log available to the local authority when asked.	H	H	H
Record any exceptional incidents that cause dust and/or air emissions, either on or off-site, and the action taken to resolve the situation in the log book.	H	H	H
Hold regular liaison meetings with other high-risk construction sites within 500 m of the site boundary to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes.	N	N	H

Table 14.2.19: IAQM Suggested Mitigation Measures for all Sites and Stages of Construction Work			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
<i>Monitoring</i>			
Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of the site boundary, with cleaning to be provided if necessary.	D	D	H
Carry out regular site inspections to monitor compliance with the Dust Management Plan, record inspection results, and make an inspection log available to the local authority when asked.	H	H	H
Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.	H	H	H
Agree dust deposition, dust flux, or real-time PM ₁₀ continuous monitoring locations with the local authority. Where possible, commence baseline monitoring at least three months before work commences on site or, if it is a large site, before work on a phase commences. Further guidance is provided by IAQM on monitoring during demolition, earthworks and construction.	N	H	H
<i>Preparing and Maintaining the Site</i>			
Plan site layout so that machinery and dust causing activities are located away from receptors, as far as is possible.	H	H	H
Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.	H	H	H
Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.	D	H	H

Table 14.2.19: IAQM Suggested Mitigation Measures for all Sites and Stages of Construction Work			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
Avoid site runoff of water or mud.	H	H	H
Keep site fencing, barriers and scaffolding clean using wet methods.	D	H	H
Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.	D	H	H
Cover, seed or fence stockpiles to prevent wind whipping.	D	H	H
<i>Operating Vehicle Machinery and Sustainable Travel</i>			
Ensure all on-road vehicles comply with the requirements of the London Low Emission Zone and the London NRMM standards, where applicable.	H	H	H
Ensure all vehicles switch off engines when stationary - no idling vehicles.	H	H	H
Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.	H	H	H
Impose and signpost a maximum-speed-limit of 15 mph on surfaced and 10 mph on unsurfaced Access Tracks and working areas (if long Access Tracks are required these speeds may be increased with suitable additional control measures provided, subject to the approval of the nominated undertaker and with the agreement of the local authority, where appropriate).	D	D	H
Produce a Construction Logistics Plan to manage the sustainable delivery of goods and materials.	N	H	H
Implement a Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing)	N	D	H
<i>Operations</i>			
Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust	H	H	H

Table 14.2.19: IAQM Suggested Mitigation Measures for all Sites and Stages of Construction Work			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.			
Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.	H	H	H
Use enclosed chutes and conveyors and covered skips.	H	H	H
Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	H	H	H
Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	D	H	H
Waste Management			
Avoid bonfires and burning of waste materials.	H	H	H
¹ H = Highly recommended; D = Desirable; N = Not required			

Table 14.2.20: IAQM Suggested Mitigation Measures for Demolition, Earthworks, Construction (proper) and Trackout			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
Demolition			
Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).	D	D	H

Table 14.2.20: IAQM Suggested Mitigation Measures for Demolition, Earthworks, Construction (proper) and Trackout			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition, high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.	H	H	H
Avoid explosive blasting, using appropriate manual or mechanical alternatives, if possible.	H	H	H
Bag and remove any biological debris or damp down such material before demolition.	H	H	H
Earthworks			
Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	N	D	H
Use Hessian, mulches or trackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.	N	D	H
Only remove the cover in small areas during work and not all at once.	N	D	H
Construction (proper)			
Avoid scabbling (roughening of concrete surfaces)if possible	D	D	H
Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	D	H	H
Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	N	D	H

Table 14.2.20: IAQM Suggested Mitigation Measures for Demolition, Earthworks, Construction (proper) and Trackout			
Mitigation Measure	Dust Impact Risk ¹		
	Low	Medium	High
For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.	N	D	D
<i>Trackout</i>			
Use water-assisted dust sweeper(s) on the accesses and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.	D	H	H
Avoid dry sweeping of large areas.	D	H	H
Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	D	H	H
Inspect on-site Access Tracks for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	N	H	H
Record all inspections of Access Tracks and any subsequent action in a site log book.	D	H	H
Install hard surfaced Access Tracks, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.	N	H	H
Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).	D	H	H
Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	N	H	H
Access gates to be located at least 10 m from receptors where possible.	N	H	H
¹ H = Highly recommended; D = Desirable; N = Not required			

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