

# APPENDIX 1: SCREENING ASSESSMENT

## 1.0 OVERVIEW

The Natura 2000 sites and environmental effects under consideration are shown in the table below. This table presents the screening steps used to identify whether significant effects or impacts are likely to arise from the proposed development. The table demonstrates that no further environmental reports or investigations are required. In addition, strict controls will be put in place locally to contain any silt or run off from the construction works.

ASSESSMENT CRITERIA	RESPONSE	REFERENCE SOURCE
<b>Site Characteristics</b>		
Site name	Kiltalown Way DRIug	
Co-Ordinates (ITM)	E:706612, N: 726527	
<b>Receptors</b>		
Sensitive Receptors	No	OS Map, Google Earth, Google Streetview
<b>Flora &amp; Fauna</b>		
Nature Reserve (<1km*)	No	<a href="http://www.npws.ie">www.npws.ie</a>
Ramsar Sites (<1km*)	No	<a href="http://www.ramsar.wetlands.org">www.ramsar.wetlands.org</a>
National Heritage Area (<1km*)	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Special Area of Conservation	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Special Protection Area	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Appropriate Assessment (AA) Required at this stage	No	
Further Field Surveys Required	No	
<b>Water</b>		
Proximity (<250m from water**)	No	<a href="http://gis.epa.ie">http://gis.epa.ie</a> OSi Mapping
River Crossings	No	
<b>Archaeology &amp; Material Assets</b>		
Record of Monuments & Places (<250m to RMP Site)	No	<a href="http://www.archaeology.ie">http://www.archaeology.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
<b>Air, Noise &amp; Traffic</b>		
Emissions	Safety relief venting	

\* Given the nature, size and location of the proposed plan, a 'zone of impact' radius of 1km is deemed more than adequate.

\*\* Given that proposed plan does not involve any effect or extra loading on waste water, water systems or erosion of habitats, a radius of 250m is deemed sufficient.

## 1.1 Findings Summary

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site. nor does it require any resources from them. There will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

## 2.0 NATURA 2000 SITE SUMMARY

Natura 2000 Site	Summary & Conservation Objectives	Distance to Overall Excavation Area
<p>Glenasmole Valley SAC (001209)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites) [6210]</p> <p>Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) [6410]</p> <p>Petrifying springs with tufa formation (Cratoneurion) [7220]</p>	<p>3.0km</p>
<p>Wicklow Mountains SAC (002122)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) [3110]</p> <p>Natural dystrophic lakes and ponds [3160]</p> <p>Northern Atlantic wet heaths with Erica tetralix [4010]</p> <p>European dry heaths [4030]</p> <p>Alpine and Boreal heaths [4060]</p> <p>Calaminarian grasslands of the Violetalia calaminariae [6130]</p> <p>Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230]</p> <p>Blanket bogs (* if active bog) [7130]</p> <p>Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) [8110]</p> <p>Calcareous rocky slopes with chasmophytic vegetation [8210]</p> <p>Siliceous rocky slopes with chasmophytic vegetation [8220]</p> <p>Old sessile oak woods with Ilex and Blechnum in the British Isles [91A0]</p> <p>Lutra lutra (Otter) [1355]</p>	<p>4.8km</p>

Red Bog, Kildare SAC (000397)	The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:  Transition mires and quaking bogs [7140]	12.6km
Poulaphouca Reservoir SPA (004063)	The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species:  Greylag Goose ( <i>Anser anser</i> ) [A043]  Lesser Black-backed Gull ( <i>Larus fuscus</i> ) [A183]	12.2km

### 3.0 POTENTIAL IMPACT OF PROJECT ELEMENTS ON THE NATURA 2000 SITES

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will therefore be no direct habitat loss from any Natura 2000 site as a result of the proposed gasworks.

Indirect habitat loss or deterioration of Natura 2000 sites within the surrounding landscape can occur from the effects of run-off or discharge into the aquatic environment through impacts such as increased siltation, nutrient release and/or contamination. This requires connectivity between the excavation area and the Natura 2000 sites in question through watercourses and/or drainage.

No waste water will be directly or indirectly discharged into nearby waterways as a result of the proposed works. An increase in run-off/sedimentation into any watercourses as a result of the proposed excavation work is deemed very unlikely due to the small scale of the excavation area, the brief duration of the construction period and the presence of existing buildings and roads (with associated drainage) between the work site and the watercourses.

Furthermore, there will be no disturbance or displacement of fauna within Natura 2000 sites as a result of the proposed development.

In summary, there will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

### 4.0 LIKELY IMPACTS OF THE PROJECT ON THE NATURA 2000 SITES

With reference to Section 2, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites with the following criteria taken into consideration.

Criteria	Impact
Size, Scale and Land-take	Not Applicable
Distance from or Key Features of the Natura 2000 Sites	Not Applicable
Resource Requirements	Not Applicable
Excavation Requirements	Not Applicable
Emission (disposal to land, water or air)	Not Applicable
Transportation Requirements	Not Applicable
Duration of Operations	Not Applicable

Cumulative and in-combination Effects

As outlined above, the proposed development will not have any significant impact on the Natura 2000 sites under consideration here. Therefore, cumulative and in-combination effects are not of concern in this case.

## 5.0 LIKELY CHANGES TO THE NATURA 2000 SITES

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here with the following criteria taken into consideration.

Changes - Criteria	Impact
Reduction of Habitat Area	Not Applicable
Disturbance to Key Species	Not Applicable
Habitat or Species Fragmentation	Not Applicable
Reduction in Species Density	Not Applicable
Changes in Key Indicators of Conservation Value (water quality etc.)	Not Applicable

### 5.1 Likely Impacts on the Natura 2000 Sites as a Whole

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here.

Impact (Whole) – Criteria	Impact
Interference with the Key Relationships that Define the Structure of the Natura 2000 Sites	Not Applicable
Interference with Key Relationships that Define the Function of the Natura 2000 Sites	Not Applicable

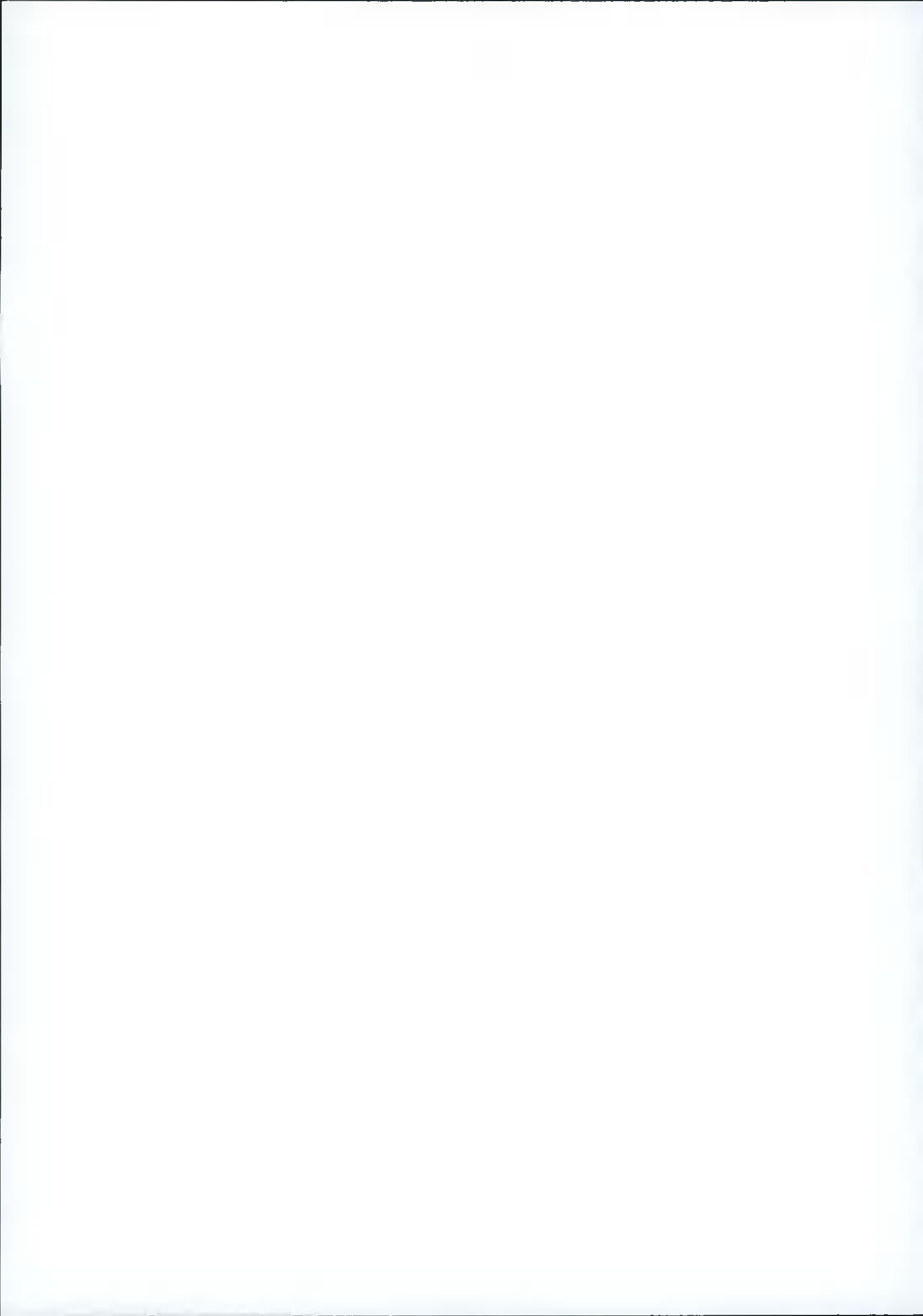
### 5.2 Indicators of Significance as a Result of the Identification of Effects Set Out Above

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here.

Indicators	Impact
Loss	Not Applicable
Fragmentation	Not Applicable
Disruption	Not Applicable
Disturbance	Not Applicable
Change to Key Elements of the Site	Not Applicable

## 6.0 CONCLUSION

Taking all of the above into consideration, it can be objectively concluded that no significant effects arising from the proposed development are likely to occur in relation to the Natura 2000 sites in question, therefore no Natura Impact Statement (NIS) is required.





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\* Given the nature, size and location of the proposed plan, a 'zone of impact' radius of 1km is deemed more than adequate.

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## 1.1 Findings Summary

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

## 2.0 NATURA 2000 SITE SUMMARY

Natura 2000 Site	Summary & Conservation Objectives	Distance to Overall Excavation Area
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#### Cumulative and in-combination Effects

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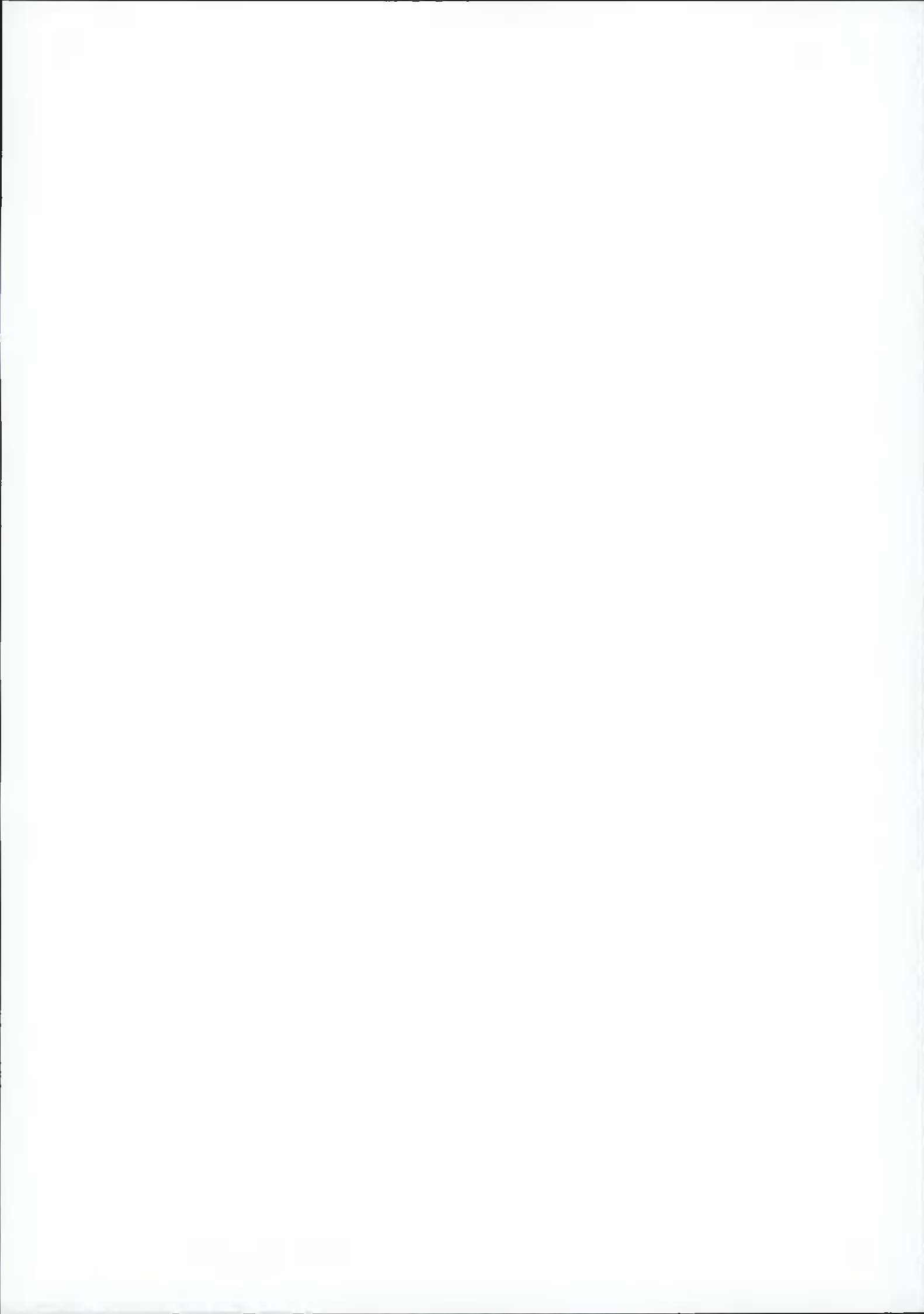
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Change to Key Elements of the Site	Not Applicable

## 6.0 CONCLUSION

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<b>Archaeology &amp; Material Assets</b>		
Record of Monuments & Places (<250m to RMP Site)	No	<a href="http://www.archaeology.ie">http://www.archaeology.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
<b>Air, Noise &amp; Traffic</b>		
Emissions	Safety relief venting	

\* Given the nature, size and location of the proposed plan, a 'zone of impact' radius of 1km is deemed more than adequate.

\*\* Given that proposed plan does not involve any effect or extra loading on waste water, water systems or erosion of habitats, a radius of 250m is deemed sufficient.

## 1.1 Findings Summary

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

## 2.0 NATURA 2000 SITE SUMMARY

Natura 2000 Site	Summary & Conservation Objectives	Distance to Overall Excavation Area
<p>Glenasmole Valley SAC (001209)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) (* important orchid sites) [6210]</p> <p>Molinia meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>) [6410]</p> <p>Petrifying springs with tufa formation (<i>Cratoneurion</i>) [7220]</p>	<p>3.0km</p>
<p>Wicklow Mountains SAC (002122)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Oligotrophic waters containing very few minerals of sandy plains (<i>Littorelletalia uniflorae</i>) [3110]</p> <p>Natural dystrophic lakes and ponds [3160]</p> <p>Northern Atlantic wet heaths with <i>Erica tetralix</i> [4010]</p> <p>European dry heaths [4030]</p> <p>Alpine and Boreal heaths [4060]</p> <p>Calaminarian grasslands of the <i>Violetalia calaminariae</i> [6130]</p> <p>Species-rich <i>Nardus</i> grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230]</p> <p>Blanket bogs (* if active bog) [7130]</p> <p>Siliceous scree of the montane to snow levels (<i>Androsacetalia alpinae</i> and <i>Galeopsietalia ladani</i>) [8110]</p> <p>Calcareous rocky slopes with chasmophytic vegetation [8210]</p> <p>Siliceous rocky slopes with chasmophytic vegetation [8220]</p> <p>Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles [91A0]</p> <p><i>Lutra lutra</i> (Otter) [1355]</p>	<p>4.8km</p>



Red Bog, Kildare SAC (000397)	The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:  Transition mires and quaking bogs [7140]	12.6km
Poulaphouca Reservoir SPA (004063)	The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species:  Greylag Goose (Anser anser) [A043]  Lesser Black-backed Gull (Larus fuscus) [A183]	12.2km

### 3.0 POTENTIAL IMPACT OF PROJECT ELEMENTS ON THE NATURA 2000 SITES

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will therefore be no direct habitat loss from any Natura 2000 site as a result of the proposed gasworks.

Indirect habitat loss or deterioration of Natura 2000 sites within the surrounding landscape can occur from the effects of run-off or discharge into the aquatic environment through impacts such as increased siltation, nutrient release and/or contamination. This requires connectivity between the excavation area and the Natura 2000 sites in question through watercourses and/or drainage.

No waste water will be directly or indirectly discharged into nearby waterways as a result of the proposed works. An increase in run-off/sedimentation into any watercourses as a result of the proposed excavation work is deemed very unlikely due to the small scale of the excavation area, the brief duration of the construction period and the presence of existing buildings and roads (with associated drainage) between the work site and the watercourses.

Furthermore, there will be no disturbance or displacement of fauna within Natura 2000 sites as a result of the proposed development.

In summary, there will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

### 4.0 LIKELY IMPACTS OF THE PROJECT ON THE NATURA 2000 SITES

With reference to Section 2, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites with the following criteria taken into consideration.

Criteria	Impact
Size, Scale and Land-take	Not Applicable
Distance from or Key Features of the Natura 2000 Sites	Not Applicable
Resource Requirements	Not Applicable
Excavation Requirements	Not Applicable
Emission (disposal to land, water or air)	Not Applicable
Transportation Requirements	Not Applicable
Duration of Operations	Not Applicable

#### Cumulative and in-combination Effects

As outlined above, the proposed development will not have any significant impact on the Natura 2000 sites under consideration here. Therefore, cumulative and in-combination effects are not of concern in this case.

## 5.0 LIKELY CHANGES TO THE NATURA 2000 SITES

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here with the following criteria taken into consideration.

Changes - Criteria	Impact
Reduction of Habitat Area	Not Applicable
Disturbance to Key Species	Not Applicable
Habitat or Species Fragmentation	Not Applicable
Reduction in Species Density	Not Applicable
Changes in Key Indicators of Conservation Value (water quality etc.)	Not Applicable

### 5.1 Likely Impacts on the Natura 2000 Sites as a Whole

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here.

Impact (Whole) – Criteria	Impact
Interference with the Key Relationships that Define the Structure of the Natura 2000 Sites	Not Applicable
Interference with Key Relationships that Define the Function of the Natura 2000 Sites	Not Applicable

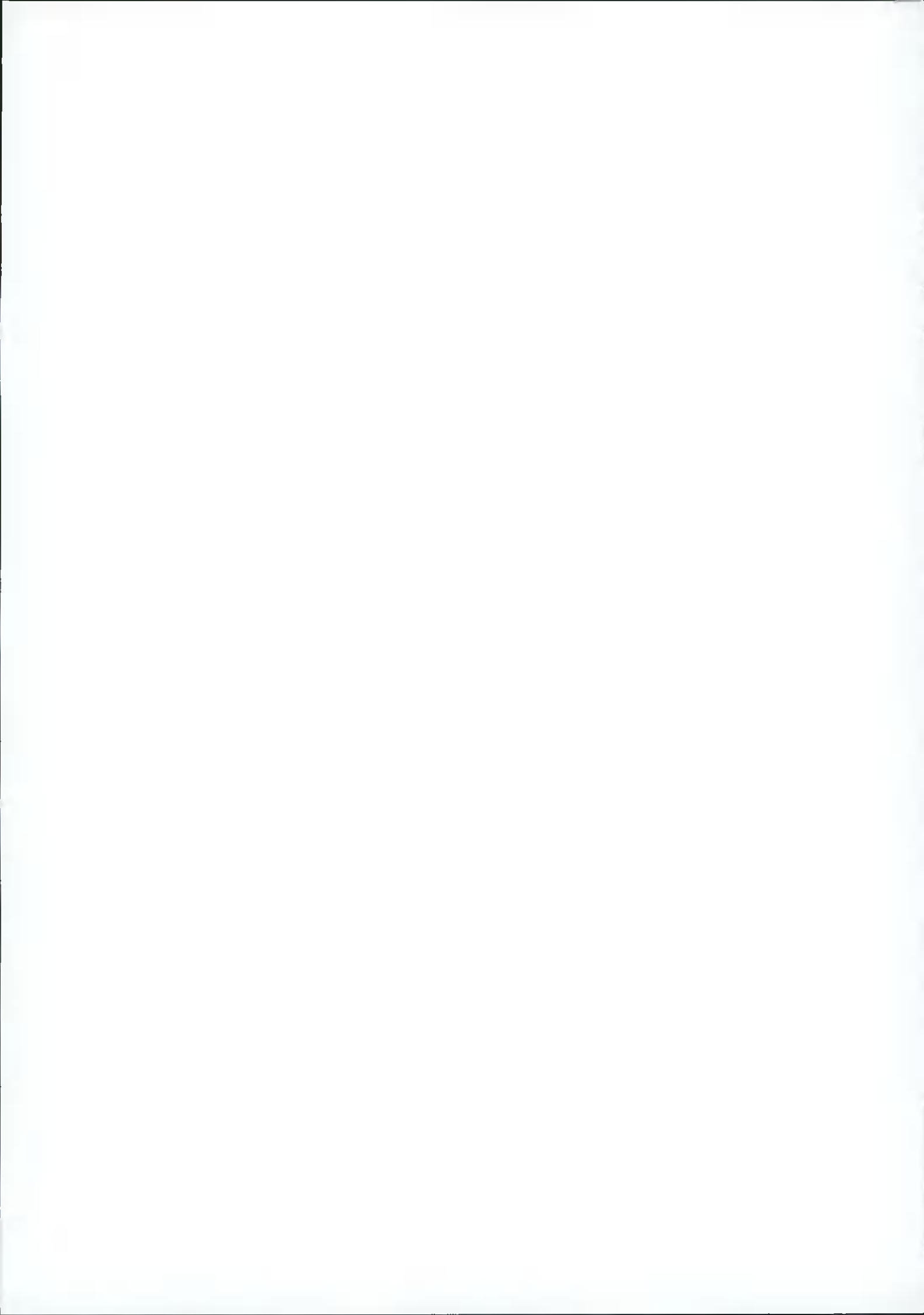
### 5.2 Indicators of Significance as a Result of the Identification of Effects Set Out Above

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here.

Indicators	Impact
Loss	Not Applicable
Fragmentation	Not Applicable
Disruption	Not Applicable
Disturbance	Not Applicable
Change to Key Elements of the Site	Not Applicable

## 6.0 CONCLUSION

Taking all of the above into consideration, it can be objectively concluded that no significant effects arising from the proposed development are likely to occur in relation to the Natura 2000 sites in question, therefore no Natura Impact Statement (NIS) is required.



# APPENDIX 1: SCREENING ASSESSMENT

## 1.0 OVERVIEW

The Natura 2000 sites and environmental effects under consideration are shown in the table below. This table presents the screening steps used to identify whether significant effects or impacts are likely to arise from the proposed development. The table demonstrates that no further environmental reports or investigations are required. In addition, strict controls will be put in place locally to contain any silt or run off from the construction works.

ASSESSMENT CRITERIA	RESPONSE	REFERENCE SOURCE
<b>Site Characteristics</b>		
Site name	Kiltalown Way DRIug	
Co-Ordinates (ITM)	E:706612, N: 726527	
<b>Receptors</b>		
Sensitive Receptors	No	OS Map, Google Earth, Google Streetview
<b>Flora &amp; Fauna</b>		
Nature Reserve (<1km*)	No	<a href="http://www.npws.ie">www.npws.ie</a>
Ramsar Sites (<1km*)	No	<a href="http://www.ramsar.wetlands.org">www.ramsar.wetlands.org</a>
National Heritage Area (<1km*)	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Special Area of Conservation	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Special Protection Area	No	<a href="http://www.npws.ie">www.npws.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
Appropriate Assessment (AA) Required at this stage	No	
Further Field Surveys Required	No	
<b>Water</b>		
Proximity (<250m from water**)	No	<a href="http://gis.epa.ie">http://gis.epa.ie</a> OSi Mapping
River Crossings	No	
<b>Archaeology &amp; Material Assets</b>		
Record of Monuments & Places (<250m to RMP Site)	No	<a href="http://www.archaeology.ie">http://www.archaeology.ie</a> <a href="http://www.myplan.ie">www.myplan.ie</a>
<b>Air, Noise &amp; Traffic</b>		
Emissions	Safety relief venting	

\* Given the nature, size and location of the proposed plan, a 'zone of impact' radius of 1km is deemed more than adequate.

\*\* Given that proposed plan does not involve any effect or extra loading on waste water, water systems or erosion of habitats, a radius of 250m is deemed sufficient.

## 1.1 Findings Summary

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

## 2.0 NATURA 2000 SITE SUMMARY

Natura 2000 Site	Summary & Conservation Objectives	Distance to Overall Excavation Area
<p>Glenasmole Valley SAC (001209)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) (* important orchid sites) [6210]</p> <p>Molinia meadows on calcareous, peaty or clayey-silt-laden soils (<i>Molinion caeruleae</i>) [6410]</p> <p>Petrifying springs with tufa formation (<i>Cratoneurion</i>) [7220]</p>	<p>3.0km</p>
<p>Wicklow Mountains SAC (002122)</p>	<p>The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive:</p> <p>Oligotrophic waters containing very few minerals of sandy plains (<i>Littorelletalia uniflorae</i>) [3110]</p> <p>Natural dystrophic lakes and ponds [3160]</p> <p>Northern Atlantic wet heaths with <i>Erica tetralix</i> [4010]</p> <p>European dry heaths [4030]</p> <p>Alpine and Boreal heaths [4060]</p> <p>Calaminarian grasslands of the <i>Violetalia calaminariae</i> [6130]</p> <p>Species-rich <i>Nardus</i> grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230]</p> <p>Blanket bogs (* if active bog) [7130]</p> <p>Siliceous scree of the montane to snow levels (<i>Androsacetalia alpinae</i> and <i>Galeopsietalia ladani</i>) [8110]</p> <p>Calcareous rocky slopes with chasmophytic vegetation [8210]</p> <p>Siliceous rocky slopes with chasmophytic vegetation [8220]</p> <p>Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles [91A0]</p> <p><i>Lutra lutra</i> (Otter) [1355]</p>	<p>4.8km</p>



Red Bog, Kildare SAC (000397)	The site is a Special Area of Conservation (SAC) selected for the following habitats and/or species listed on Annex I / II of the E.U. Habitats Directive  Transition mires and quaking bogs [7140]	12.6km
Poulaphouca Reservoir SPA (004063)	The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species:  Greylag Goose (Anser anser) [A043]  Lesser Black-backed Gull (Larus fuscus) [A183]	12.2km

### 3.0 POTENTIAL IMPACT OF PROJECT ELEMENTS ON THE NATURA 2000 SITES

The proposed development/excavation site is not located within, or adjacent to any Natura 2000 site, nor does it require any resources from them. There will therefore be no direct habitat loss from any Natura 2000 site as a result of the proposed gasworks.

Indirect habitat loss or deterioration of Natura 2000 sites within the surrounding landscape can occur from the effects of run-off or discharge into the aquatic environment through impacts such as increased siltation, nutrient release and/or contamination. This requires connectivity between the excavation area and the Natura 2000 sites in question through watercourses and/or drainage.

No waste water will be directly or indirectly discharged into nearby waterways as a result of the proposed works. An increase in run-off/sedimentation into any watercourses as a result of the proposed excavation work is deemed very unlikely due to the small scale of the excavation area, the brief duration of the construction period and the presence of existing buildings and roads (with associated drainage) between the work site and the watercourses.

Furthermore, there will be no disturbance or displacement of fauna within Natura 2000 sites as a result of the proposed development.

In summary, there will be no direct or indirect habitat loss/deterioration or impact on key fauna species within Natura 2000 sites as a result of the proposed works.

### 4.0 LIKELY IMPACTS OF THE PROJECT ON THE NATURA 2000 SITES

With reference to Section 2, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites with the following criteria taken into consideration.

Criteria	Impact
Size, Scale and Land-take	Not Applicable
Distance from or Key Features of the Natura 2000 Sites	Not Applicable
Resource Requirements	Not Applicable
Excavation Requirements	Not Applicable
Emission (disposal to land, water or air)	Not Applicable
Transportation Requirements	Not Applicable
Duration of Operations	Not Applicable

#### Cumulative and in-combination Effects

As outlined above, the proposed development will not have any significant impact on the Natura 2000 sites under consideration here. Therefore, cumulative and in-combination effects are not of concern in this case.

## 5.0 LIKELY CHANGES TO THE NATURA 2000 SITES

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here with the following criteria taken into consideration.

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Reduction in Species Density	Not Applicable
Changes in Key Indicators of Conservation Value (water quality etc.)	Not Applicable

### 5.1 Likely Impacts on the Natura 2000 Sites as a Whole

As outlined in Section 4 above, it is deemed unlikely that the proposed project will significantly impact on the Natura 2000 sites under consideration here.

Impact (Whole) – Criteria	Impact
Interference with the Key Relationships that Define the Structure of the Natura 2000 Sites	Not Applicable
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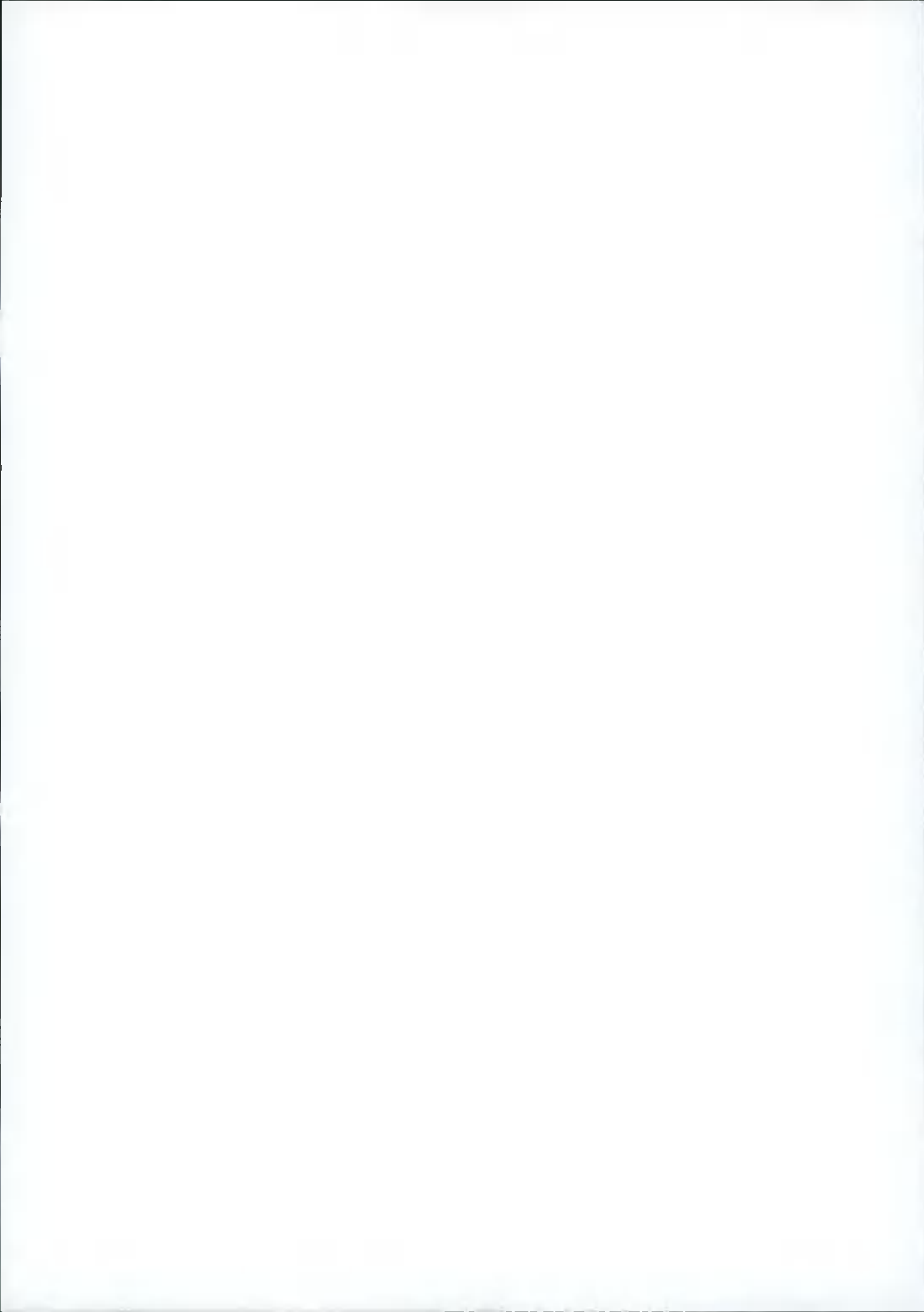
### 5.2 Indicators of Significance as a Result of the Identification of Effects Set Out Above

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Change to Key Elements of the Site	Not Applicable

## 6.0 CONCLUSION

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<b>Air, Noise &amp; Traffic</b>		
Emissions	Safety relief venting	

\* Given the nature, size and location of the proposed plan, a 'zone of impact' radius of 1km is deemed more than adequate.

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Excavation Requirements	Not Applicable
Emission (disposal to land, water or air)	Not Applicable
Transportation Requirements	Not Applicable
Duration of Operations	Not Applicable

#### Cumulative and in-combination Effects

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## 6.0 CONCLUSION

Taking all of the above into consideration, it can be objectively concluded that no significant effects arising from the proposed development are likely to occur in relation to the Natura 2000 sites in question, therefore no Natura Impact Statement (NIS) is required.

