



## The Abergelli Power Gas Fired Generating Station Order

### 6.3 Environmental Statement Figures Part I

Planning Act 2008  
The Infrastructure Planning  
(Applications: Prescribed Forms and Procedure) Regulations 2009

**PINS Reference Number:** EN010069  
**Document Reference:** 6.3  
**Regulation Number:** 5(2)(a), 5(2)(l) Figures 8.2 & 9.5, 5(2)(m)  
Figures 13.1 & 13.2 & Infrastructure  
Planning (Environmental Impact  
Assessment) Regulations 2009  
**Author:** AECOM

Revision	Date	Description
0	May 2018	Submission Version





# TABLE OF CONTENTS

## Figures

**Figure 1.1:** Project Site Location Plan

**Figure 1.2:** Project Site

**Figure 3.1:** Existing Site Levels

**Figure 3.2:** Indicative Project Layout

**Figure 3.3:** Access Road Update since 2018 PEIR

**Figure 3.4:** Access and Rights of Way Plan

**Figure 3.5:** Existing Utilities Plan

**Figure 3.6:** Landscape and Ecology Mitigation Plan

**Figure 4.1:** Developments to be Considered in Cumulative Assessment

**Figure 5.1:** Access Route Options

**Figure 5.2:** Gas Connection Options

**Figure 5.3:** Opportunity Areas

**Figure 6.1:** Wind Roses

**Figure 6.2:** Buildings Modelled

**Figure 6.3:** Modelled Sensitive Human Receptors

**Figure 6.4:** Contour Plot of Maximum Annual Mean Nitrogen Dioxide Concentrations ( $\mu\text{g}/\text{m}^3$ )

**Figure 6.5:** Contour Plot of Maximum 99.79<sup>th</sup> Percentile Hourly Mean Nitrogen Dioxide Concentrations ( $\mu\text{g}/\text{m}^3$ )

**Figure 6.6:** Contour Plot of Maximum Rolling 8-Hour CO Concentrations ( $\mu\text{g}/\text{m}^3$ )

**Figure 7.1** Noise Sensitive Receptor Locations and Estimated Sound Levels

**Figure 8.1:** BGS Ecology 2014 Boundary & Project Site Boundary

**Figure 8.2:** Designated Sites 1

**Figure 8.3:** Designated Sites 2

**Figure 9.1:** Surface Water Bodies

**Figure 9.2:** Environmental Receptors

**Figure 9.3:** Bedrock Geology

**Figure 9.4:** Superficial Geology

**Figure 9.5:** Groundwater Bodies

**Figure 9.6:** Potential Pollution Sources



Project Title:

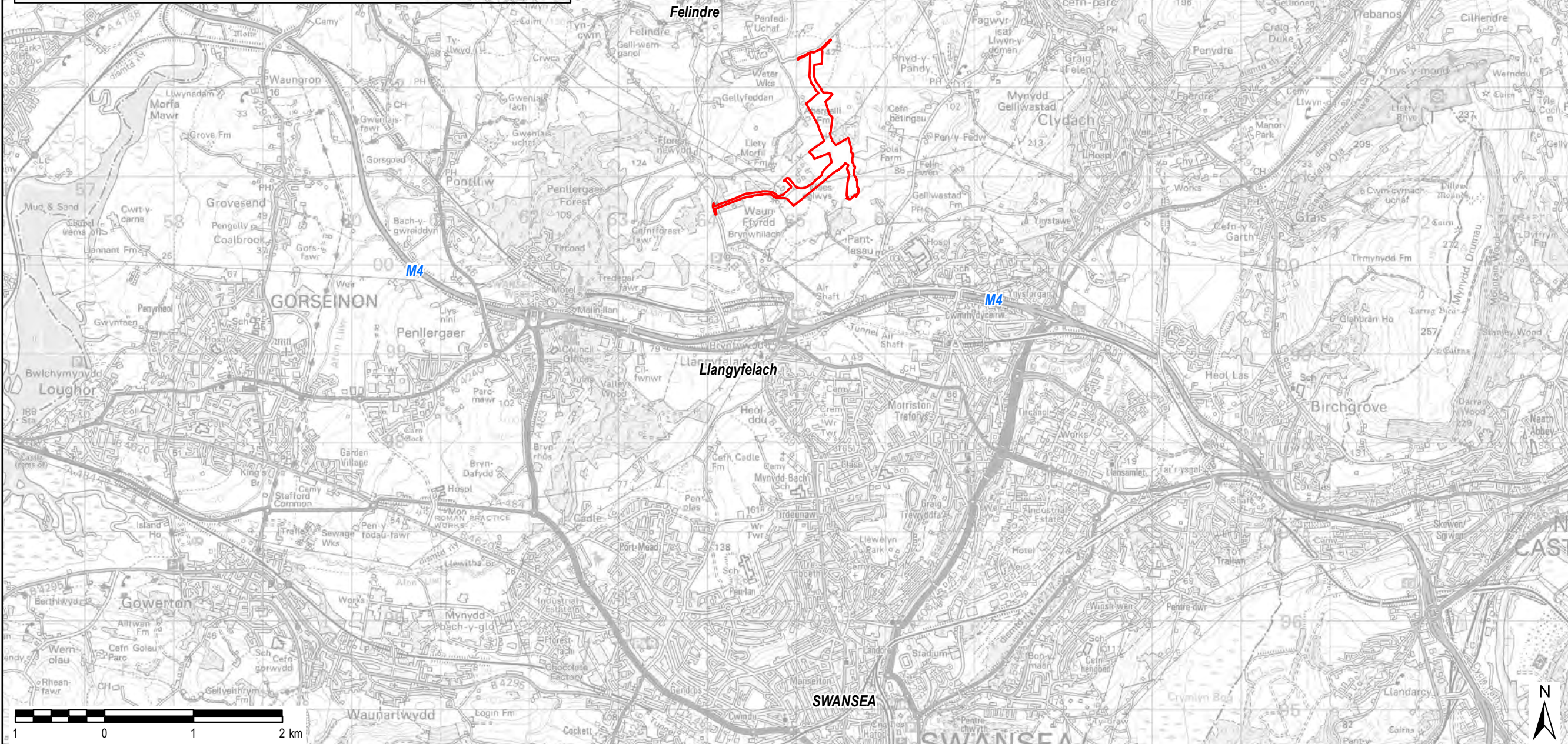
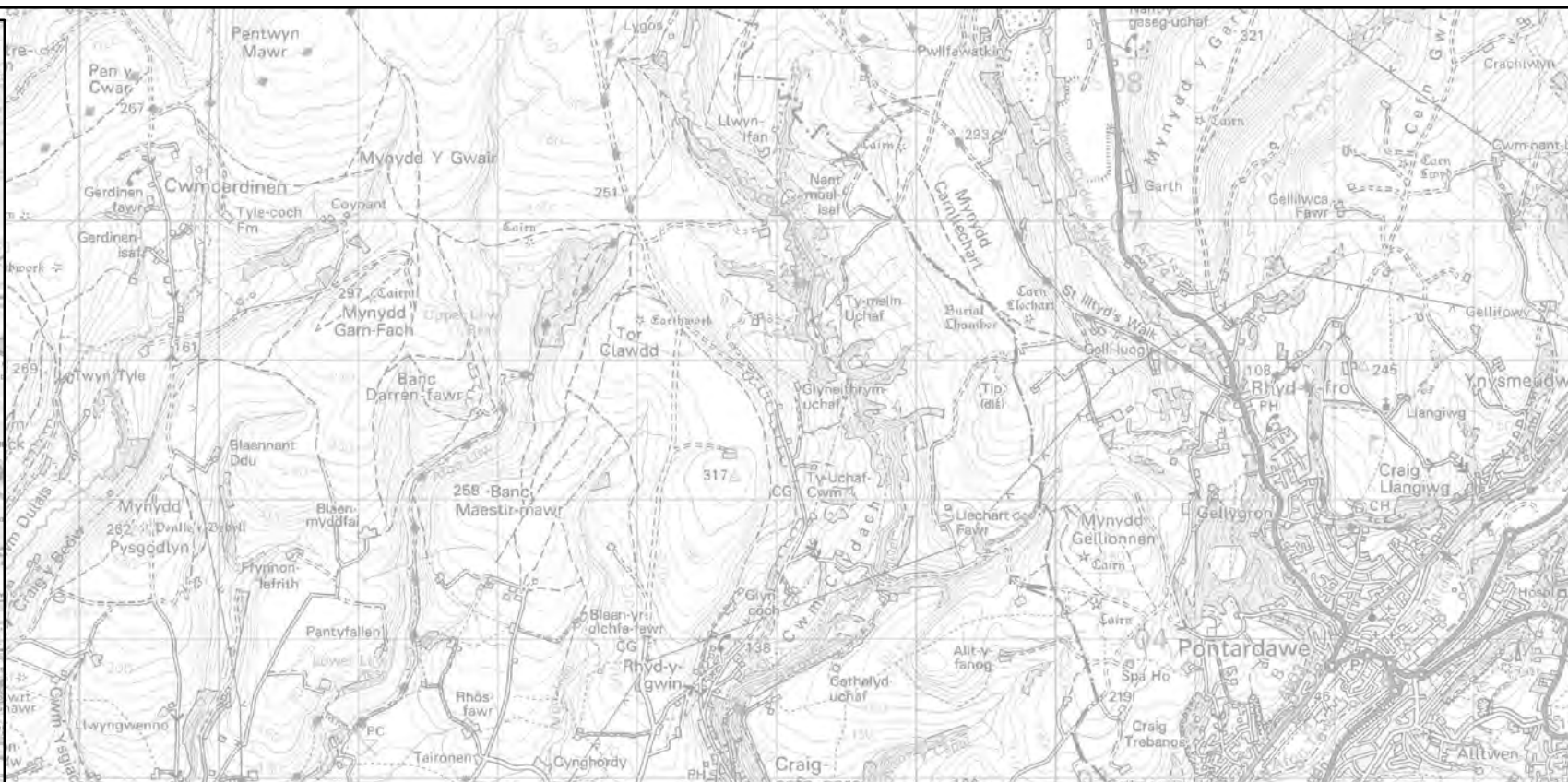
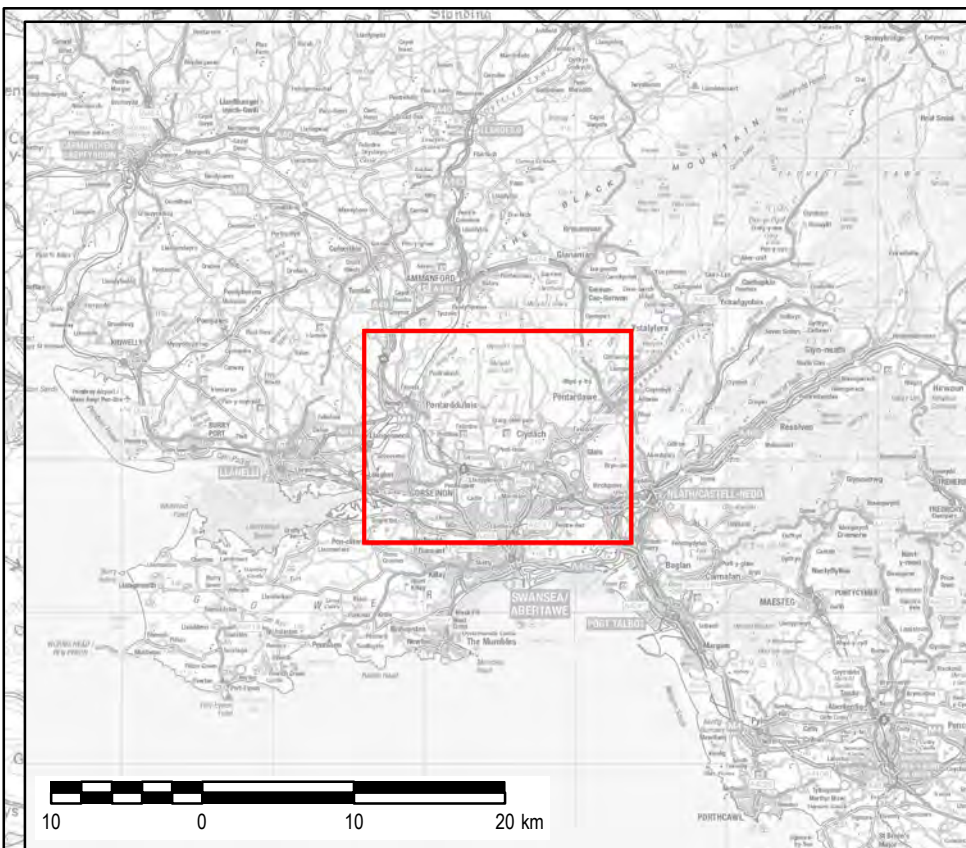
## ABERGELLI POWER PROJECT

Client:



LEGEND

 Project Site Boundary



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### PROJECT SITE LOCATION PLAN

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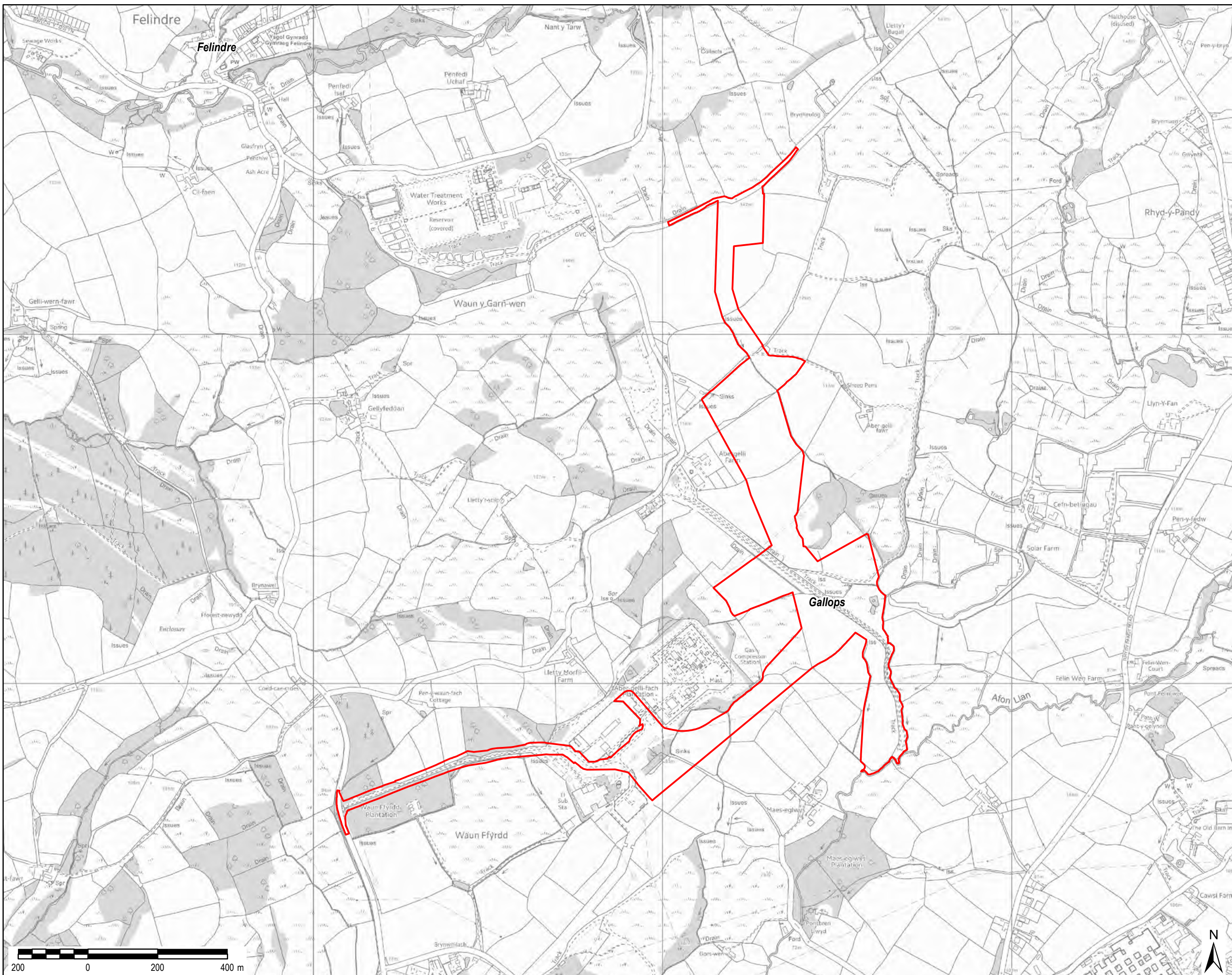
FIGURE 1.1 001

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**Client:**



**LEGEND**

Project Site Boundary

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**PROJECT SITE**

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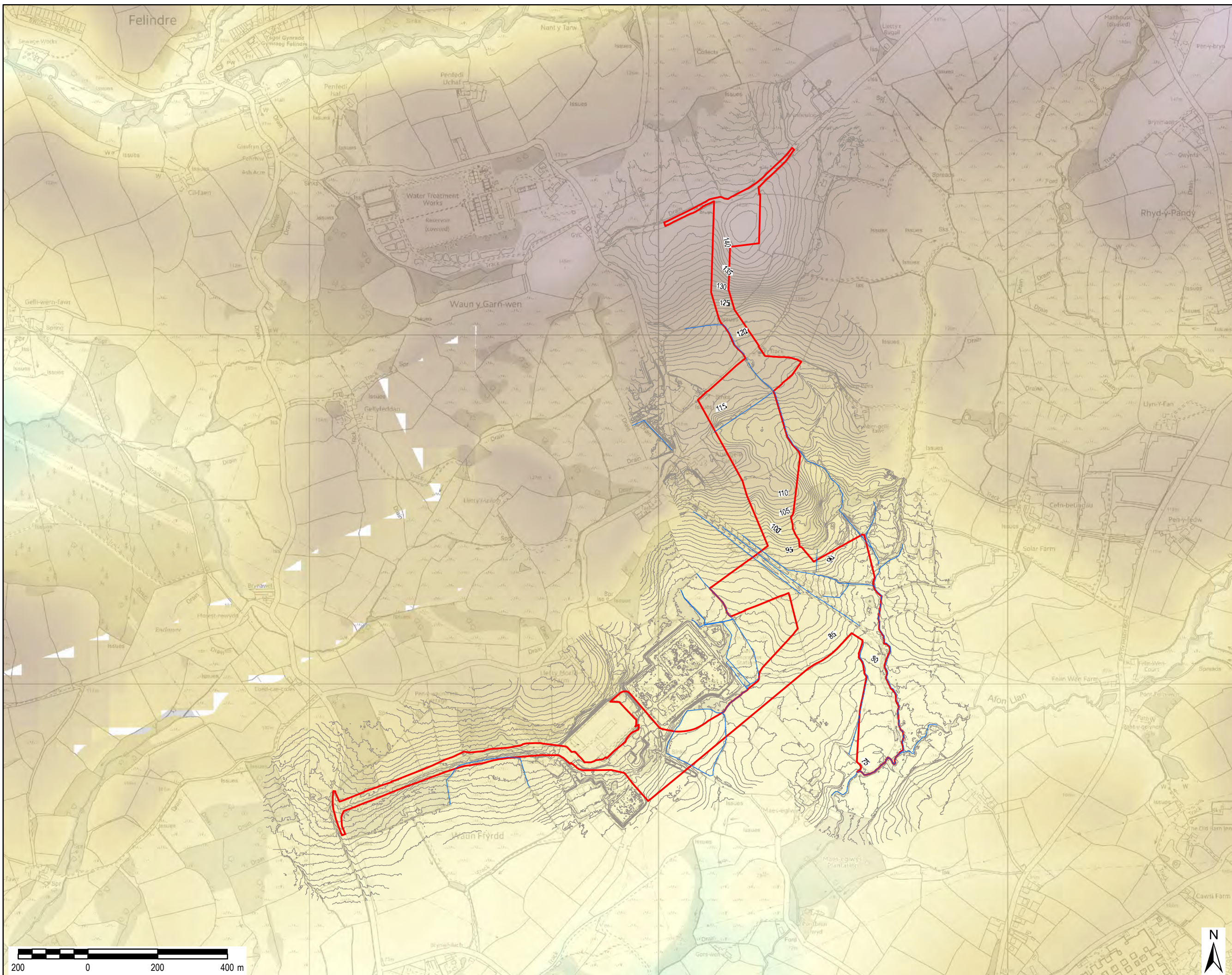
FIGURE 1.2 001

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**Project Title:**

## ABERGELLI POWER PROJECT

**Client:**



### LEGEND

- Project Site Boundary
  - 1m Contour
  - Watercourses
- Topography**
- 191m AOD
  - 161m AOD
  - 131m AOD
  - 101m AOD
  - 71m AOD
  - 42m AOD

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### EXISTING SITE LEVELS

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FIGURE 3.1 001

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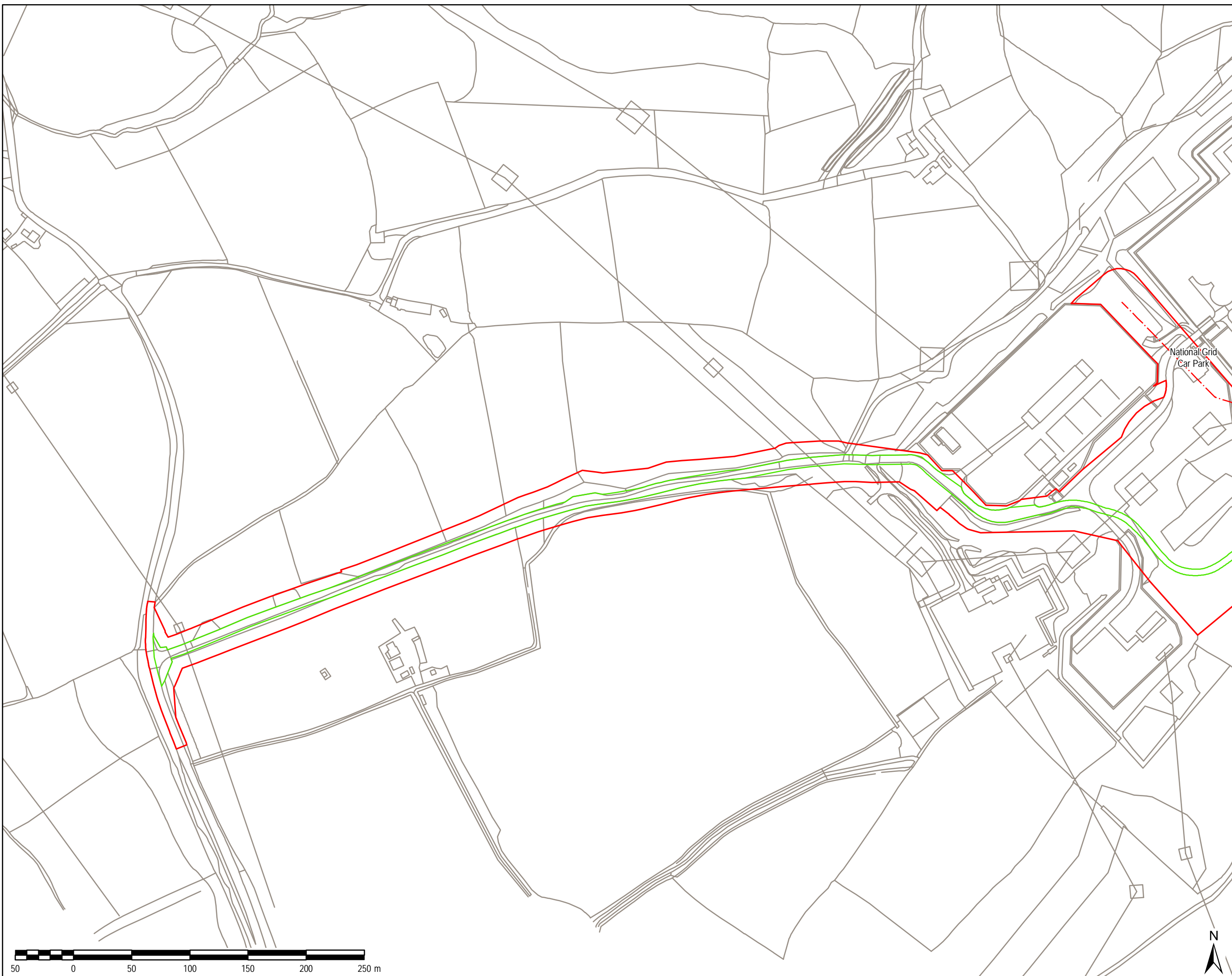
**ABERGELLI POWER  
PROJECT**

**Client:**



**LEGEND**

-  Access Road
-  Electrical Connection (400kV Cable)
-  Project Site Boundary



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**INDICATIVE PROJECT  
LAYOUT  
SHEET 1 OF 3**

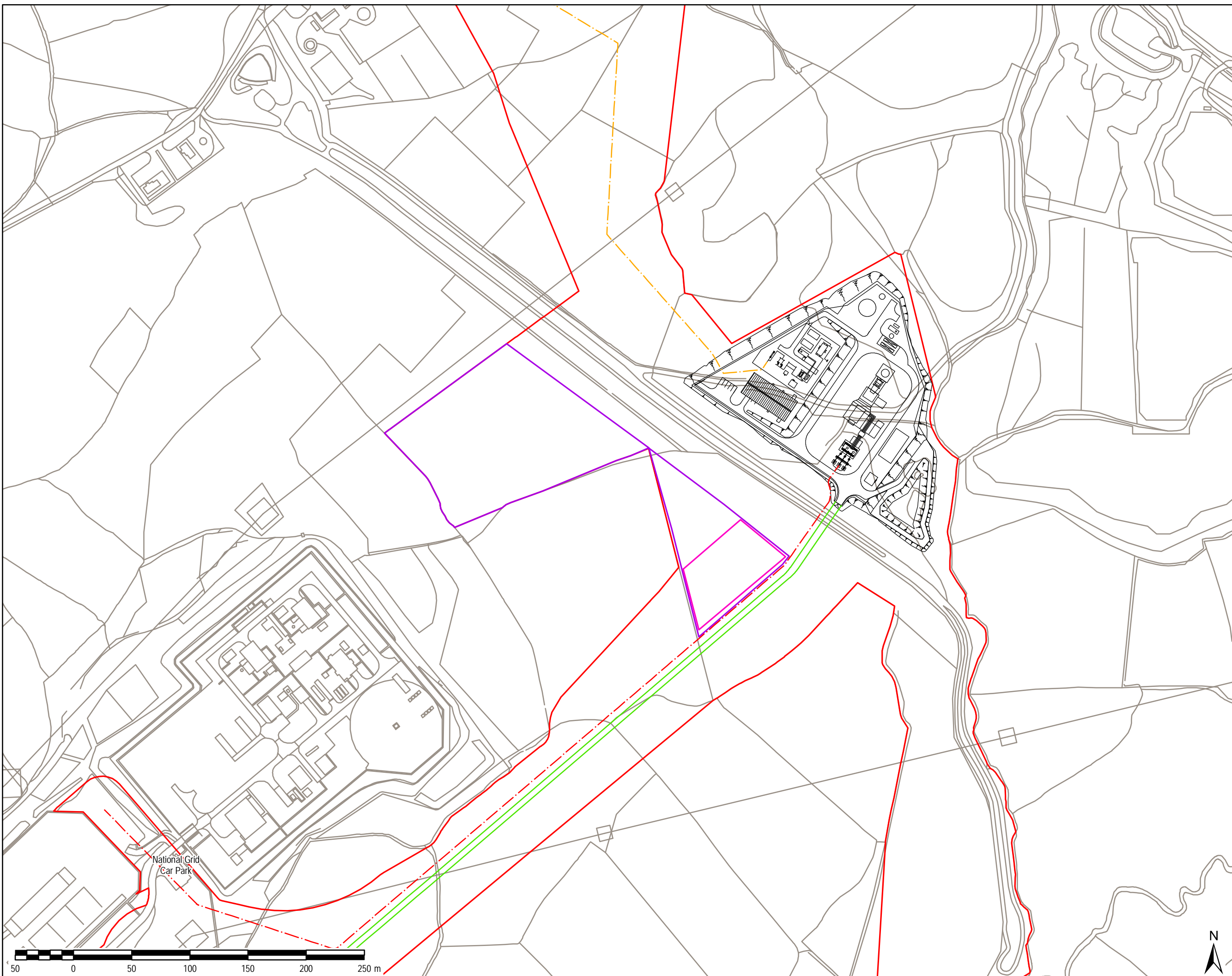
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- LEGEND**
- Generating Equipment Site
  - Access Road
  - - - Electrical Connection (400kV Cable)
  - - - Gas Connection
  - Laydown
  - Maintenance Compound
  - Project Site Boundary



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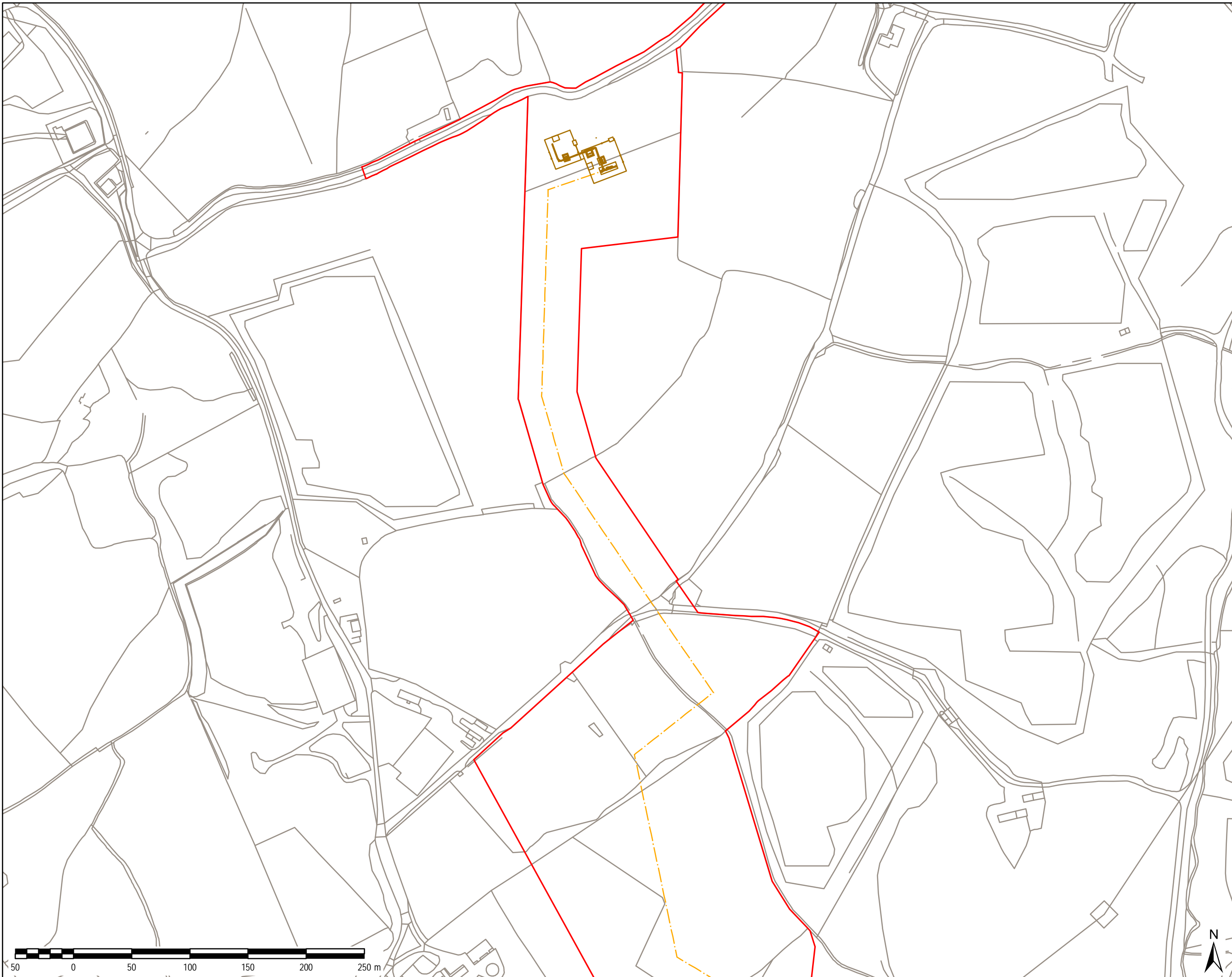
**ABERGELLI POWER  
PROJECT**

**Client:**



**LEGEND**

- Above Ground Installation (AGI)
- - - Gas Connection
- ▭ Project Site Boundary



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LAYOUT  
SHEET 3 OF 3**

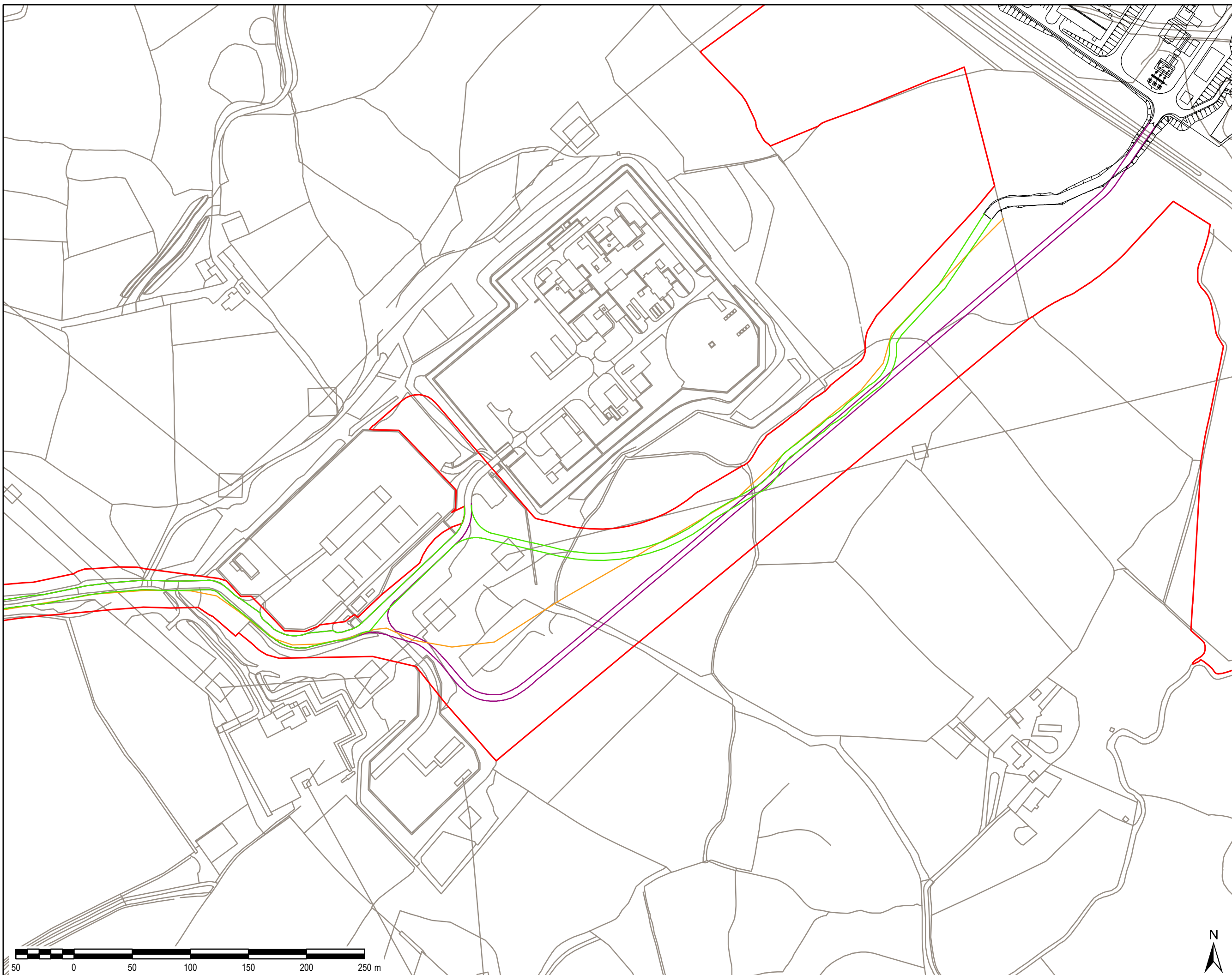
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- LEGEND**
- Generating Equipment Site
  - 2018 PEIR Option A Access Road
  - 2018 PEIR Option B Access Road
  - Revised Option B Access Road
  - Project Site Boundary



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**ACCESS ROAD UPDATE  
SINCE 2018 PEIR**

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- LEGEND**
- Footpath
  - Access Road
  - Electrical Connection (400kV Cable)
  - Project Site Boundary

Note: Indicative Project Layout

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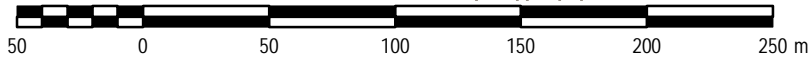
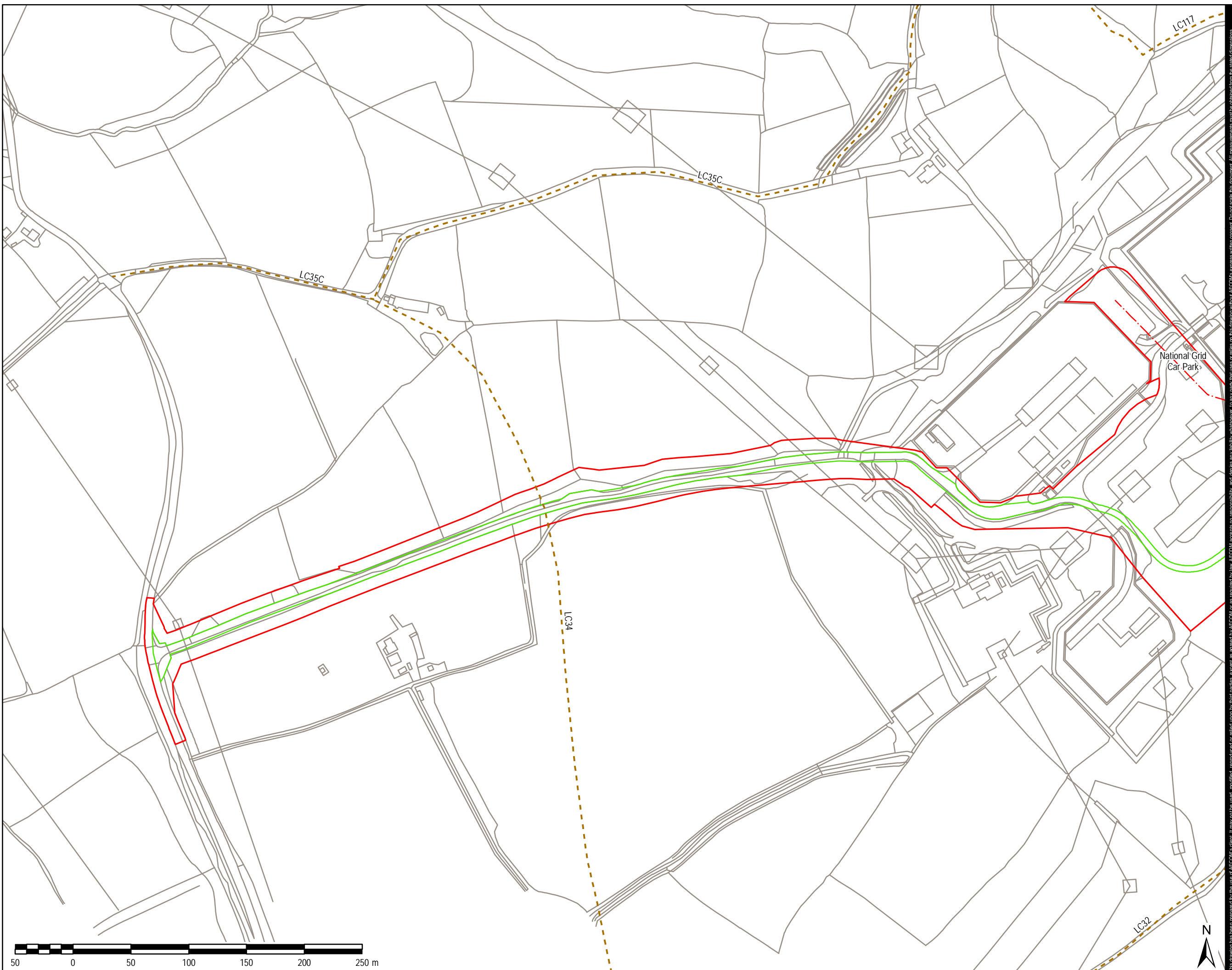
**AECOM Internal Project No:**  
60542910

**Drawing Title:**  
**ACCESS AND RIGHTS OF WAY PLAN SHEET 1 OF 3**

**Scale at A3:** 1:3,000

**Drawing No:** FIGURE 3.4 **Rev:** 005

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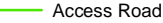

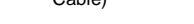
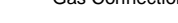
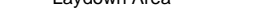
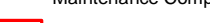
**Project Title:**

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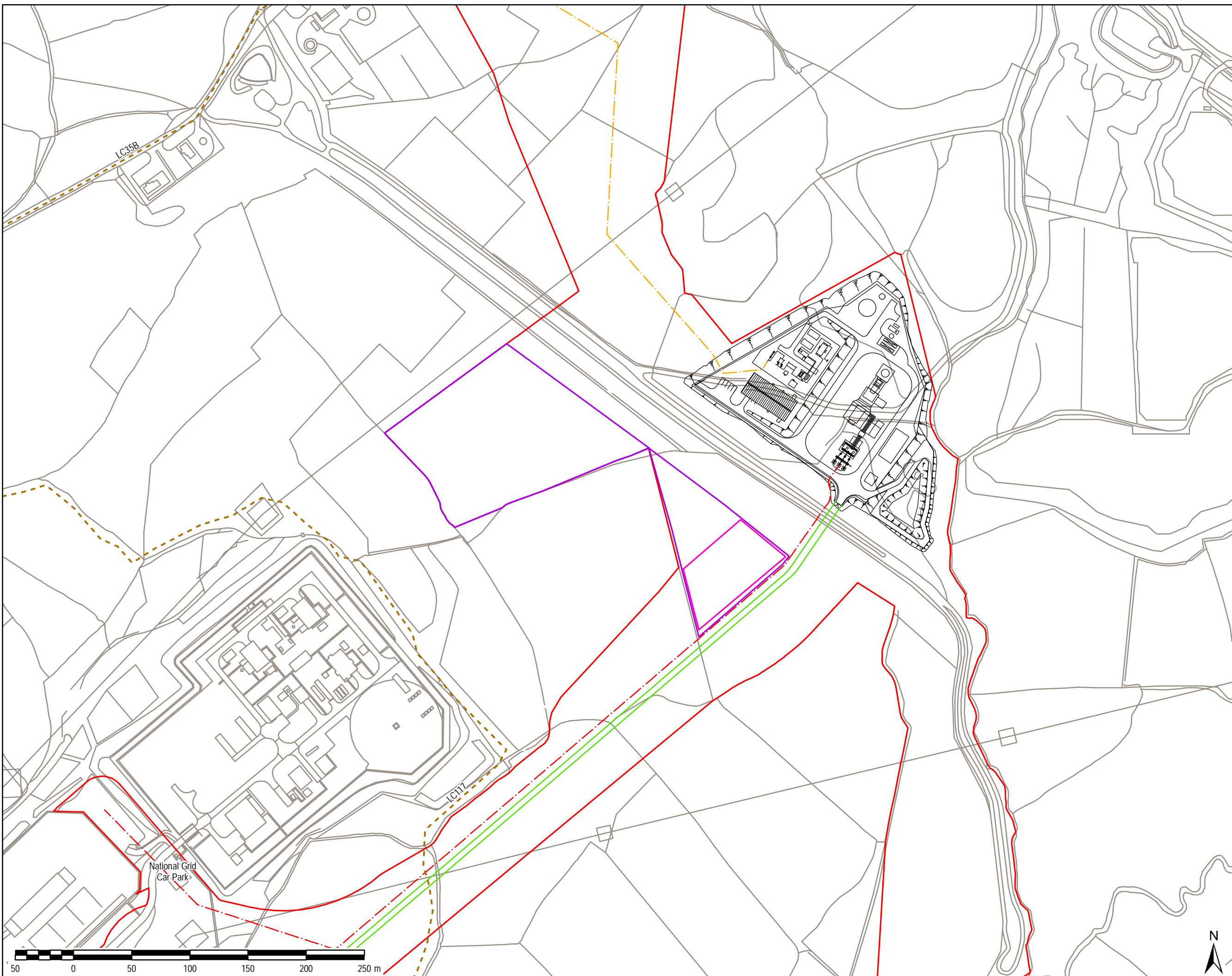
**Client:**



**LEGEND**

-  Footpath
-  Generating Equipment Site
-  Access Road
-  Electrical Connection (400kV Cable)
-  Gas Connection
-  Laydown Area
-  Maintenance Compound
-  Project Site Boundary

Note: Indicative Project Layout



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**ACCESS AND RIGHTS OF WAY PLAN SHEET 2 OF 3**

**Scale at A3:** 1:3,000

**Drawing No:** FIGURE 3.4 **Rev:** 005

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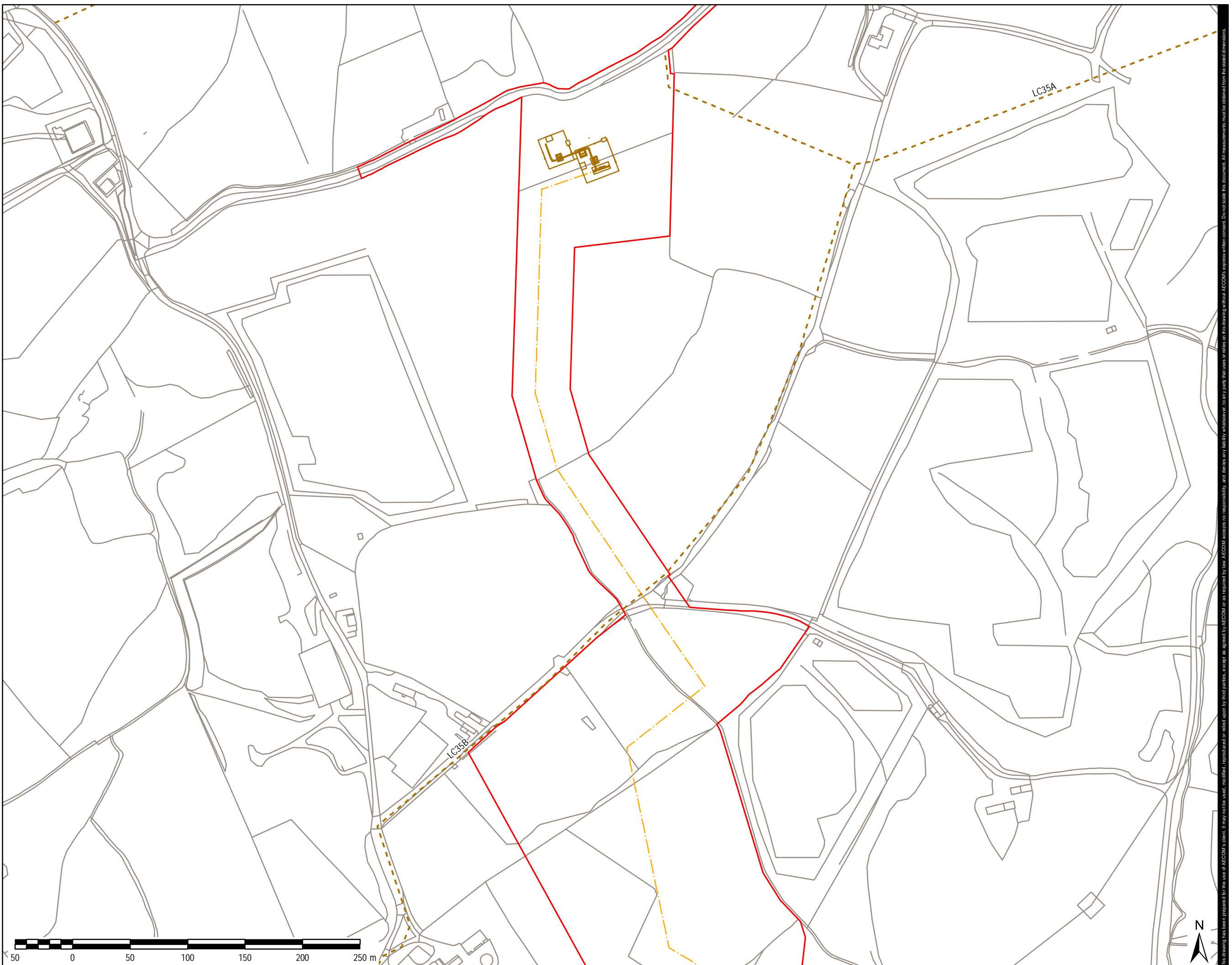
**Client:**



**LEGEND**

- Footpath
- Above Ground Installation (AGI)
- - - Gas Connection
- ▭ Project Site Boundary

Note: Indicative Project Layout



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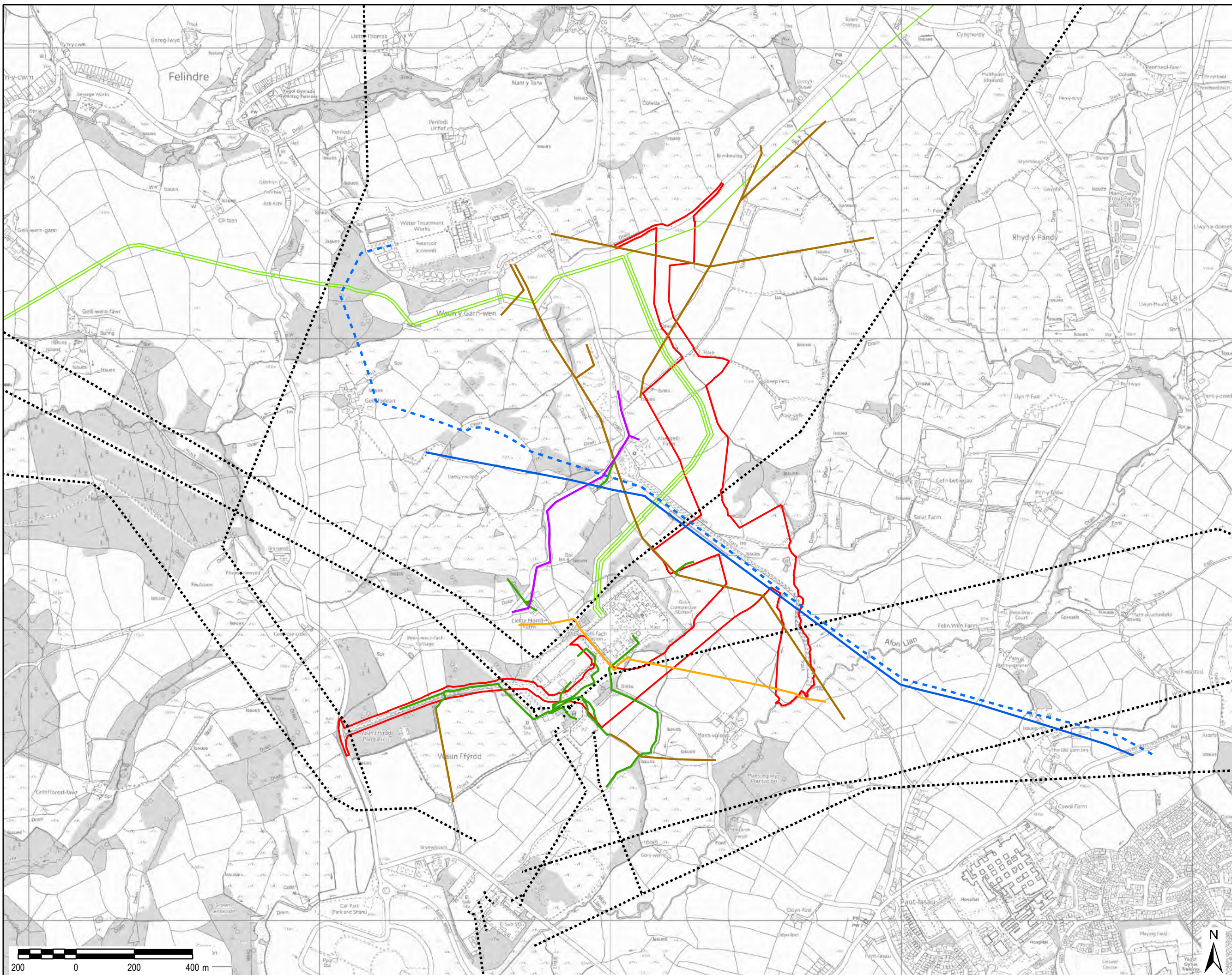
## ABERGELLI POWER PROJECT

Client:



### LEGEND

- ▭ Project Site Boundary
- ▭ Wales and West Utilities Limited (Underground Gas Lines)
- ▭ British Telecommunications plc (Overhead Telecommunications Lines)
- ▭ Western Power Distribution (South Wales) plc (Underground Electricity Distribution Lines)
- ▭ Western Power Distribution (South Wales) plc (Overhead Electricity Distribution Lines)
- ▭ Water Main
- ▭ National Gas Transmission System
- ▭ National Electricity Transmission (Overhead Electricity Transmission Lines)
- ▭ Oil Pipeline



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### EXISTING UTILITIES PLAN

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Rev: 001

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**LEGEND**

- Permanent Loss
- Temporary Loss
- Llety-Morfil SINC
- Phase 1 Habitat Linear Features**
- X X Scrub - Scattered
- ● Row of trees - broadleaved
- — Running Water
- — Intact Hedge - Species-Poor
- + + Hedge with Trees - Species-Poor
- + + Fence
- Phase 1 Habitat Areas**
- Broadleaved woodland - semi-natural
- Dense/Continuous scrub
- Semi-improved - neutral grassland
- Improved grassland
- Marsh/marshy grassland
- Hard standing

**Note:**  
The Habitat Loss Calculations are shown on Appendix Figure 3.2 Sheet 2

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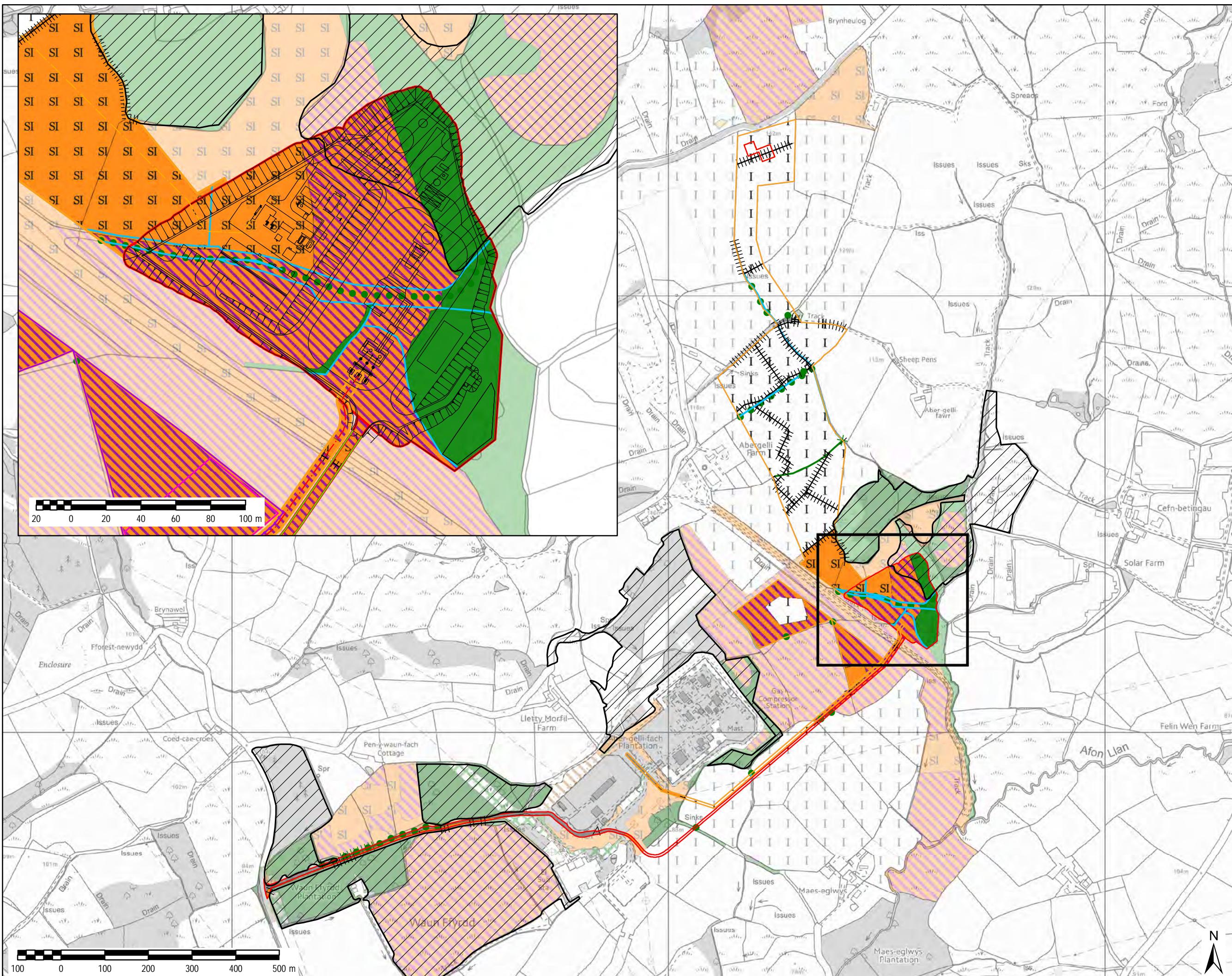
**PHASE 1 HABITAT LOSS MAP, HABITAT LOSS TABLE, AND HABITAT LOSS AND GAINS SUMMARY TABLE SHEET 1 OF 2**

Scale at A3: 1:8,000

**Drawing No:** FIGURE 3.6A **Rev:** 005

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**TABLE 1: HABITAT LOSS CALCULATIONS**

Habitat Area	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent) (m2)	Power Generation Plant Loss (Temporary) (m2)	Gas Connection Loss (Temporary) (m2)	Electrical Connection Loss (Temporary) (m2)
Broad leaved semi natural woodland	7924.01	5189.12	0	0	0
Broad leaved plantation woodland	201.03	0	0	0	0
Dense/continuous scrub	1766.44	123.07	0	189.17	53.99
Scattered scrub	386.34	0	0	0	0
Semi-improved - neutral grassland	49,497.11	6489.72	1545.41	10,242.03	747.44
Improved grassland	165,403.02	2707.85	4375.12	121,015.77	2222.91
Marsh/Marshy grassland	87,163.71	14,518.36	19,375.36	139.87	1537.84
Tall ruderal other	159.55	0	0	0	0
Habitat Linear	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent) (m2)	Power Generation Plant Loss (Temporary) (m2)	Gas Connection Loss (Temporary) (m2)	Electrical Connection Loss (Temporary) (m2)
Scrub - Scattered	0.41	0	0	0.41	0
Row of Broadleaved Trees	1399.87	525.62	42.66	348.89	14.68
Running Water	2589.7	695.97	102.79	627.59	6.87
Intact Hedge - Species-Poor	236.01	56.34	0	179.67	0
Hedge with Trees - Native Species-Rich	69.75	0	0	0	0
Hedge with Trees - Species-Poor	90.8	80.8	0	0	0
Earth Bank	273.89	0	0	0	0
Ancient Woodland	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent) (m2)	Power Generation Plant Loss (Temporary) (m2)	Gas Connection Loss (Temporary) (m2)	Electrical Connection Loss (Temporary) (m2)
Ancient Woodland	10,564.81	0	0	0	0
SINC	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent) (m2)	Power Generation Plant Loss (Temporary) (m2)	Gas Connection Loss (Temporary) (m2)	Electrical Connection Loss (Temporary) (m2)
Lletty-Morfil SINC	16,835.27	4306.64	0	0.36	0
Habitat Areas within SINC	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent) (m2)	Power Generation Plant Loss (Temporary) (m2)	Gas Connection Loss (Temporary) (m2)	Electrical Connection Loss (Temporary) (m2)
Broadleaved semi natural woodland	9635.42	2610.78	0	0.36	0.36
Dense/continuous scrub	711.47	0	0	0	0
Semi-improved - neutral grassland	1266.95	0	0	0	0
Improved grassland	52.68	0	0	0	0
Marsh/Marshy grassland	3641.92	1695.86	0	0	0
Tall ruderal other	5.17	0	0	0	0
Habitat Linear within SINC	Existing (m2) within Project Site Boundary	Power Generation Plant Loss (Permanent)	Power Generation Plant Loss (Temporary)	Gas Connection Loss (Temporary)	Electrical Connection Loss (Temporary)
Row of Broadleaved Trees	260.72	37.26	0	0	0
Running Water	227.38	0	0	0	0
Hedge with Trees - Native Species-Rich	1.79	0	0	0	0

**TABLE 2 APPROXIMATE HABITAT LOSS AND GAINS SUMMARY\***

Habitat Loss		Habitat Replacement	
Habitat	Length/Area/Number	Habitat	Length/Area
Hedgerows and row of trees	700.02m	Hedgerow with trees	912.85m
Semi-improved and marshy grassland	21,008.08m <sup>2</sup>	Semi-improved grassland and marshy grassland	25030.11m <sup>2</sup>
Woodland and scrub	7919.97m <sup>2</sup>	Woodland planting	4178.01m <sup>2</sup>
		Native tree planting	6564.08m <sup>2</sup>
Ponds	2 (no.)	Attenuation pond	179.91m <sup>2</sup>
		Wildlife ponds	8m <sup>2</sup> minimum

\* Calculations are approximate and subject to detailed design.

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PHASE 1 HABITAT LOSS MAP, HABITAT LOSS TABLE, AND HABITAT LOSS AND GAINS SUMMARY TABLE SHEET 2 OF 2

Scale at A3: 1:8,000

**Drawing No:** **Rev:**

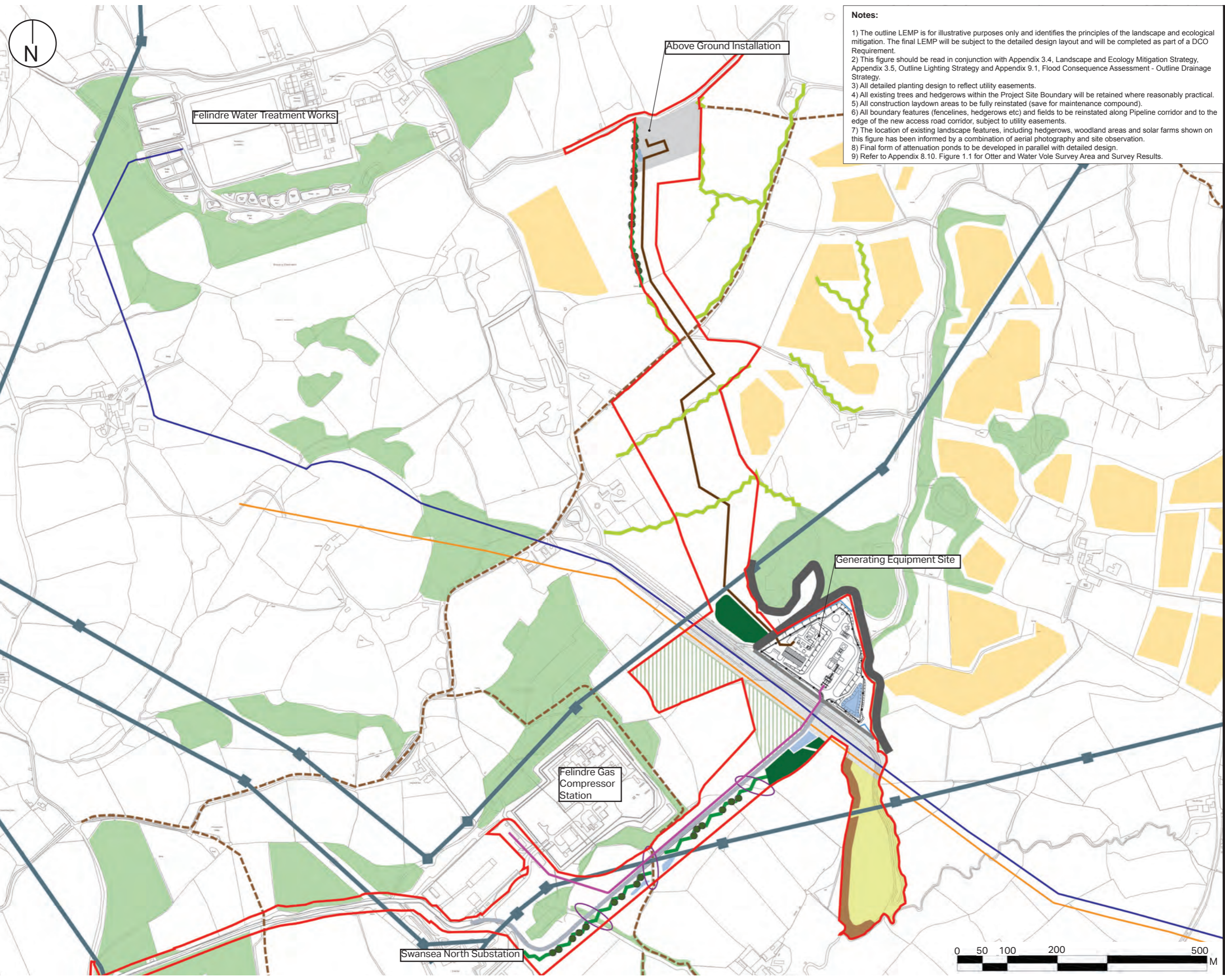
FIGURE 3.6A 005

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- Notes:**
- 1) The outline LEMP is for illustrative purposes only and identifies the principles of the landscape and ecological mitigation. The final LEMP will be subject to the detailed design layout and will be completed as part of a DCO Requirement.
  - 2) This figure should be read in conjunction with Appendix 3.4, Landscape and Ecology Mitigation Strategy, Appendix 3.5, Outline Lighting Strategy and Appendix 9.1, Flood Consequence Assessment - Outline Drainage Strategy.
  - 3) All detailed planting design to reflect utility easements.
  - 4) All existing trees and hedgerows within the Project Site Boundary will be retained where reasonably practical.
  - 5) All construction laydown areas to be fully reinstated (save for maintenance compound).
  - 6) All boundary features (fencelines, hedgerows etc) and fields to be reinstated along Pipeline corridor and to the edge of the new access road corridor, subject to utility easements.
  - 7) The location of existing landscape features, including hedgerows, woodland areas and solar farms shown on this figure has been informed by a combination of aerial photography and site observation.
  - 8) Final form of attenuation ponds to be developed in parallel with detailed design.
  - 9) Refer to Appendix 8.10, Figure 1.1 for Otter and Water Vole Survey Area and Survey Results.



- Key:**
- Project Site Boundary
  - Perimeter fence
  - Water main
  - Footpath
  - Oil Pipeline
  - Overhead power lines

- Existing Features**
- Hedgerows
  - Solar farms
  - Key woodland areas

- Proposed Features**
- Hedgerows with trees
  - Wet meadow and Acid grassland
  - Woodland structure planting
  - Native tree planting
  - Attenuation pond
  - Swale/Filter strip
  - Access Road
  - Electrical Connection
  - Temporary laydown areas
  - Gas Connection

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 Figure 3.6b  
 Outline Landscape and Ecology Mitigation Plan – Overview

**Not to scale**

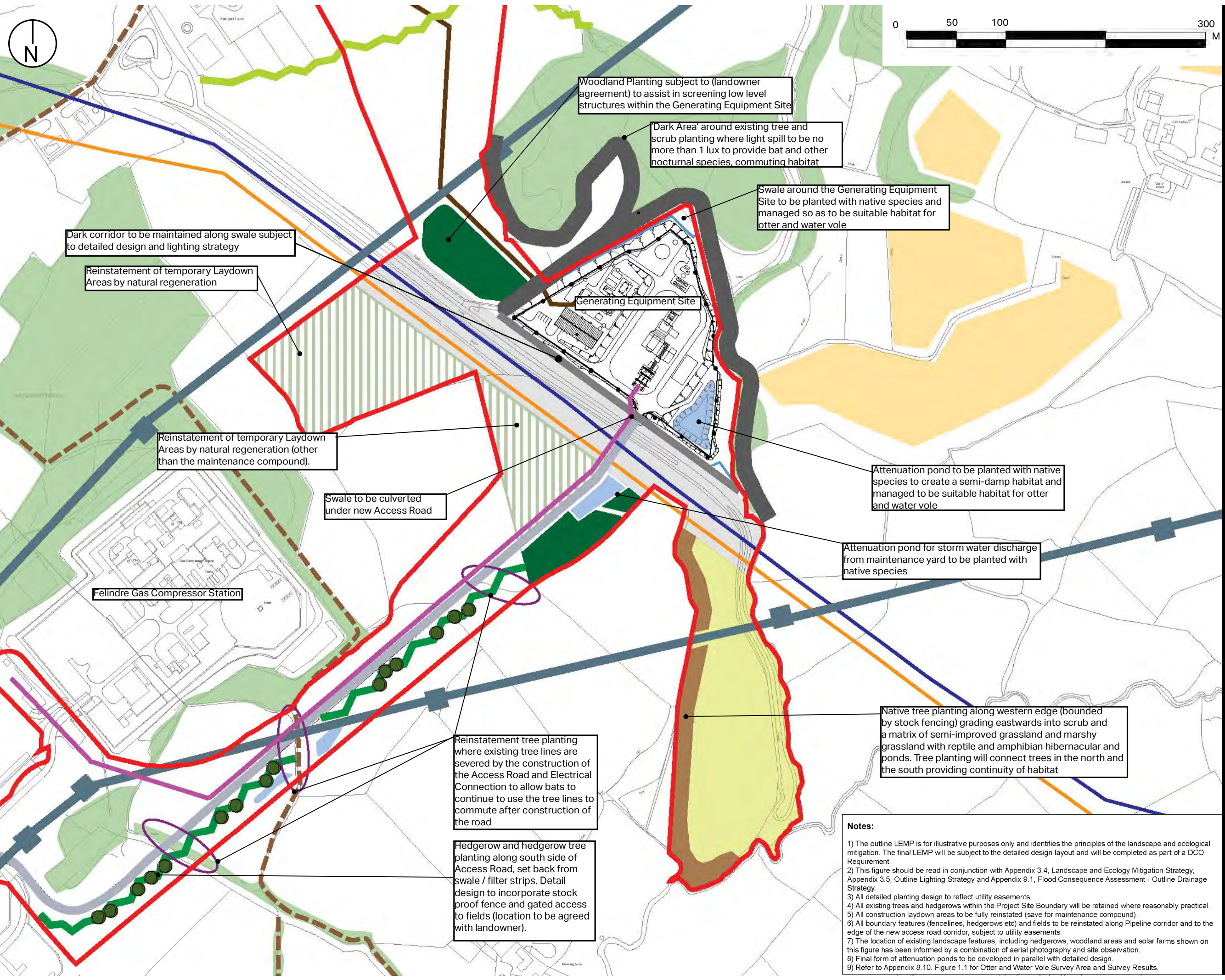
**Drawing No:** FIGURE 3.6b  
**Rev:** 007

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 CS RM CA 14/05/18



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**Key:**

- Project Site Boundary
- Perimeter fence
- Water main
- - - Footpath
- Oil Pipeline
- Overhead power lines

**Existing Features**

- ~ Hedgerows
- Solar farms
- Key woodland areas

**Proposed Features**

- Hedgerows with trees
- Wet meadow and Acid grassland
- Woodland structure planting
- Native tree planting
- Attenuation pond
- Swale/Filter strip
- Access Road
- Electrical Connection
- Temporary laydown areas
- Gas Connection

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**AECOM Internal Project No:**

60542910

**Drawing Title:**

Figure 3.6c  
 Outline Landscape and Ecology Mitigation Plan – Generating Equipment Site

**Not to scale**

**Drawing No:** **Rev:**

FIGURE 3.6c 007

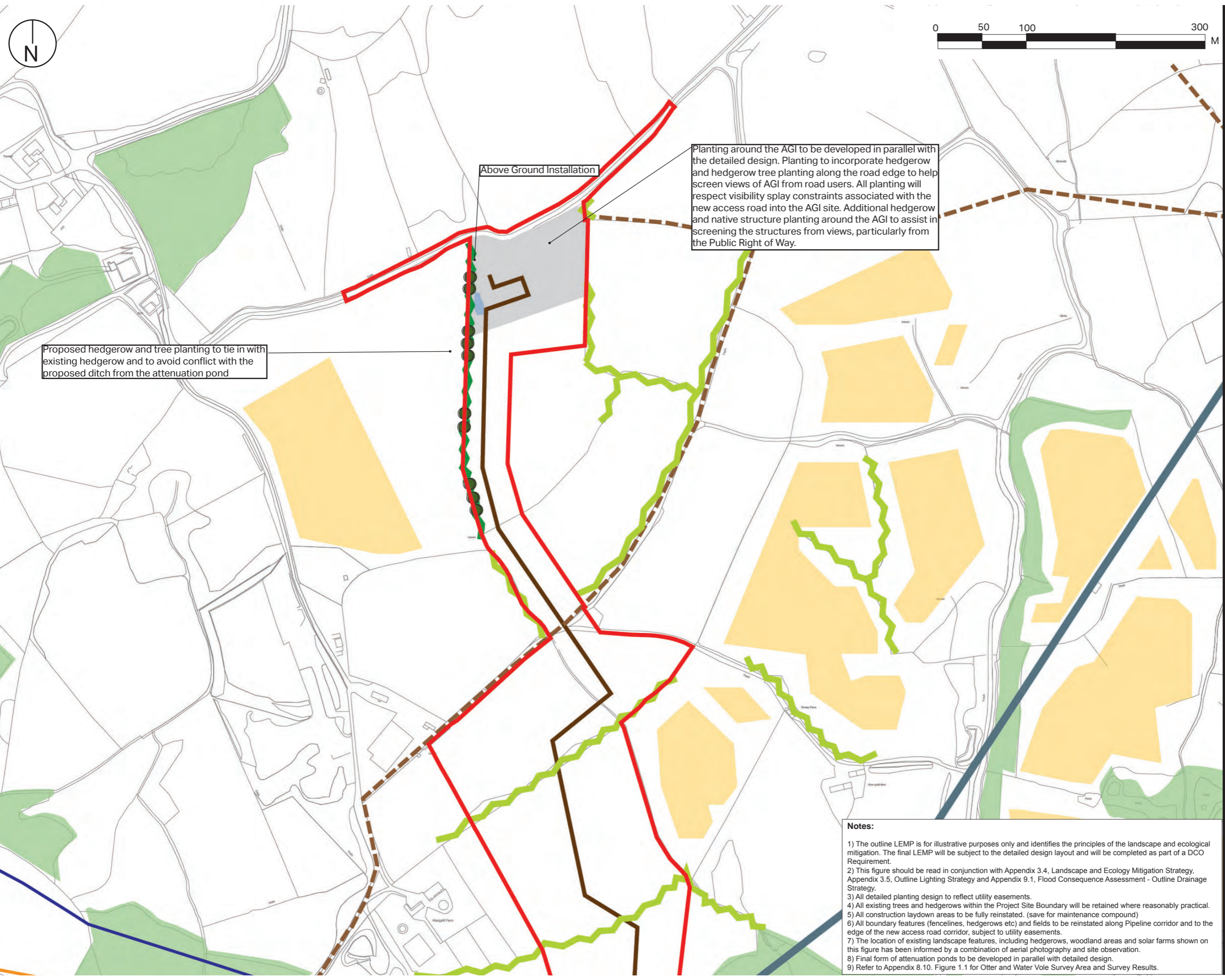
**Drawn:** **Chk'd:** **App'd:** **Date:**

CS RM CA 14/05/18

**Notes:**

- 1) The outline LEMP is for illustrative purposes only and identifies the principles of the landscape and ecological mitigation. The final LEMP will be subject to the detailed design layout and will be completed as part of a DCO Requirement.
- 2) This figure should be read in conjunction with Appendix 3.4, Landscape and Ecology Mitigation Strategy, Appendix 3.5, Outline Lighting Strategy and Appendix 9.1, Flood Consequence Assessment - Outline Drainage Strategy.
- 3) All detailed planting design to reflect utility easements.
- 4) All existing trees and hedgerows within the Project Site Boundary will be retained where reasonably practical.
- 5) All construction laydown areas to be fully reinstated (save for maintenance compound).
- 6) All boundary features (fencelines, hedgerows etc) and fields to be reinstated along Pipeline corridor and to the edge of the new access road corridor, subject to utility easements.
- 7) The location of existing landscape features, including hedgerows, woodland areas and solar farms shown on this figure has been informed by a combination of aerial photography and site observation.
- 8) Final form of attenuation ponds to be developed in parallel with detailed design.
- 9) Refer to Appendix 8.10, Figure 1.1 for Otter and Water Vole Survey Area and Survey Results.





- Project Site Boundary
- Water main
- Footpath
- Oil Pipeline
- Overhead power lines

**Existing Features**

- Hedgerows
- Solar farms
- Key woodland areas

**Proposed Features**

- Hedgerows with trees
- Woodland structure planting
- Attenuation pond
- Gas Connection

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**AECOM Internal Project No:**

60542910

**Drawing Title:**

Figure 3.6d  
 Outline Landscape and Ecology Mitigation Plan – Gas Connection

**Not to scale**

**Drawing No:** **Rev:**

FIGURE 3.6d 007

**Drawn:** Chk'd: App'd: Date:

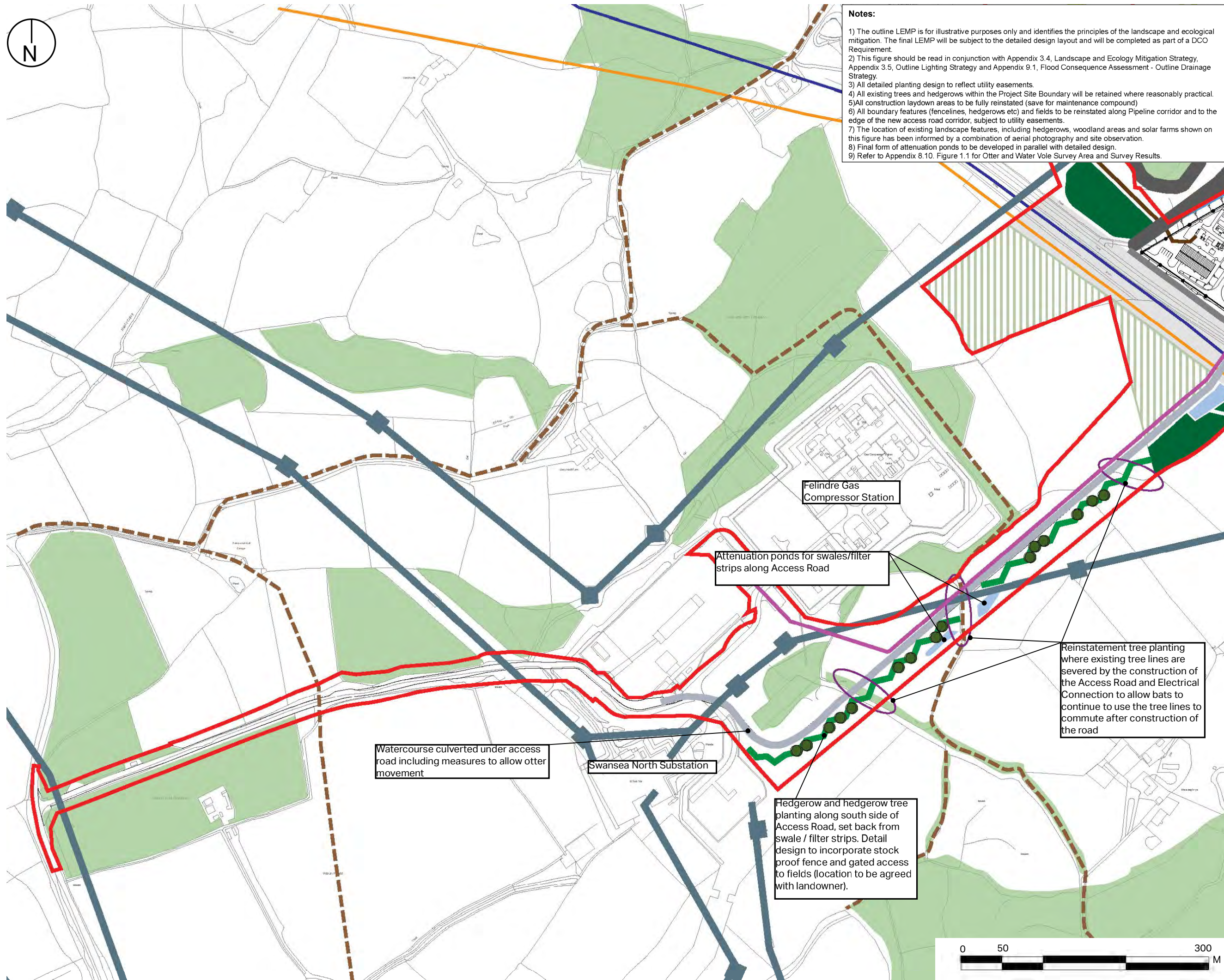
CS RM CA 14/05/18

**Notes:**

- 1) The outline LEMP is for illustrative purposes only and identifies the principles of the landscape and ecological mitigation. The final LEMP will be subject to the detailed design layout and will be completed as part of a DCO Requirement.
- 2) This figure should be read in conjunction with Appendix 3.4, Landscape and Ecology Mitigation Strategy, Appendix 3.5, Outline Lighting Strategy and Appendix 9.1, Flood Consequence Assessment - Outline Drainage Strategy.
- 3) All detailed planting design to reflect utility easements.
- 4) All existing trees and hedgerows within the Project Site Boundary will be retained where reasonably practical.
- 5) All construction laydown areas to be fully reinstated. (save for maintenance compound)
- 6) All boundary features (fencelines, hedgerows etc) and fields to be reinstated along Pipeline corridor and to the edge of the new access road corridor, subject to utility easements.
- 7) The location of existing landscape features, including hedgerows, woodland areas and solar farms shown on this figure has been informed by a combination of aerial photography and site observation.
- 8) Final form of attenuation ponds to be developed in parallel with detailed design.
- 9) Refer to Appendix 8.10, Figure 1.1 for Otter and Water Vole Survey Area and Survey Results.

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**Notes:**

- 1) The outline LEMP is for illustrative purposes only and identifies the principles of the landscape and ecological mitigation. The final LEMP will be subject to the detailed design layout and will be completed as part of a DCO Requirement.
- 2) This figure should be read in conjunction with Appendix 3.4, Landscape and Ecology Mitigation Strategy, Appendix 3.5, Outline Lighting Strategy and Appendix 9.1, Flood Consequence Assessment - Outline Drainage Strategy.
- 3) All detailed planting design to reflect utility easements.
- 4) All existing trees and hedgerows within the Project Site Boundary will be retained where reasonably practical.
- 5) All construction laydown areas to be fully reinstated (save for maintenance compound)
- 6) All boundary features (fencelines, hedgerows etc) and fields to be reinstated along Pipeline corridor and to the edge of the new access road corridor, subject to utility easements.
- 7) The location of existing landscape features, including hedgerows, woodland areas and solar farms shown on this figure has been informed by a combination of aerial photography and site observation.
- 8) Final form of attenuation ponds to be developed in parallel with detailed design.
- 9) Refer to Appendix 8.10, Figure 1.1 for Otter and Water Vole Survey Area and Survey Results.



**Key:**

- Project Site Boundary
- Perimeter fence
- Water main
- Footpath
- Oil Pipeline
- Overhead power lines

**Existing Features**

- Hedgerows
- Key woodland areas

**Proposed Features**

- Hedgerows with trees
- Woodland structure planting
- Attenuation pond
- Swale/Filter strip
- Access Road
- Electrical Connection
- Temporary laydown areas
- Gas Connection

Watercourse culverted under access road including measures to allow otter movement

Swansea North Substation

Attenuation ponds for swales/filter strips along Access Road

Hedgerow and hedgerow tree planting along south side of Access Road, set back from swale / filter strips. Detail design to incorporate stock proof fence and gated access to fields (location to be agreed with landowner).

Reinstatement tree planting where existing tree lines are severed by the construction of the Access Road and Electrical Connection to allow bats to continue to use the tree lines to commute after construction of the road



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**Drawing Title:**

Figure 3.6e  
 Outline Landscape and Ecology Mitigation Plan – Access Road

**Not to scale**

**Drawing No:** **Rev:**

FIGURE 3.6e 007

**Drawn:** **Chk'd:** **App'd:** **Date:**

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**Project Title:**

## ABERGELLI POWER PROJECT

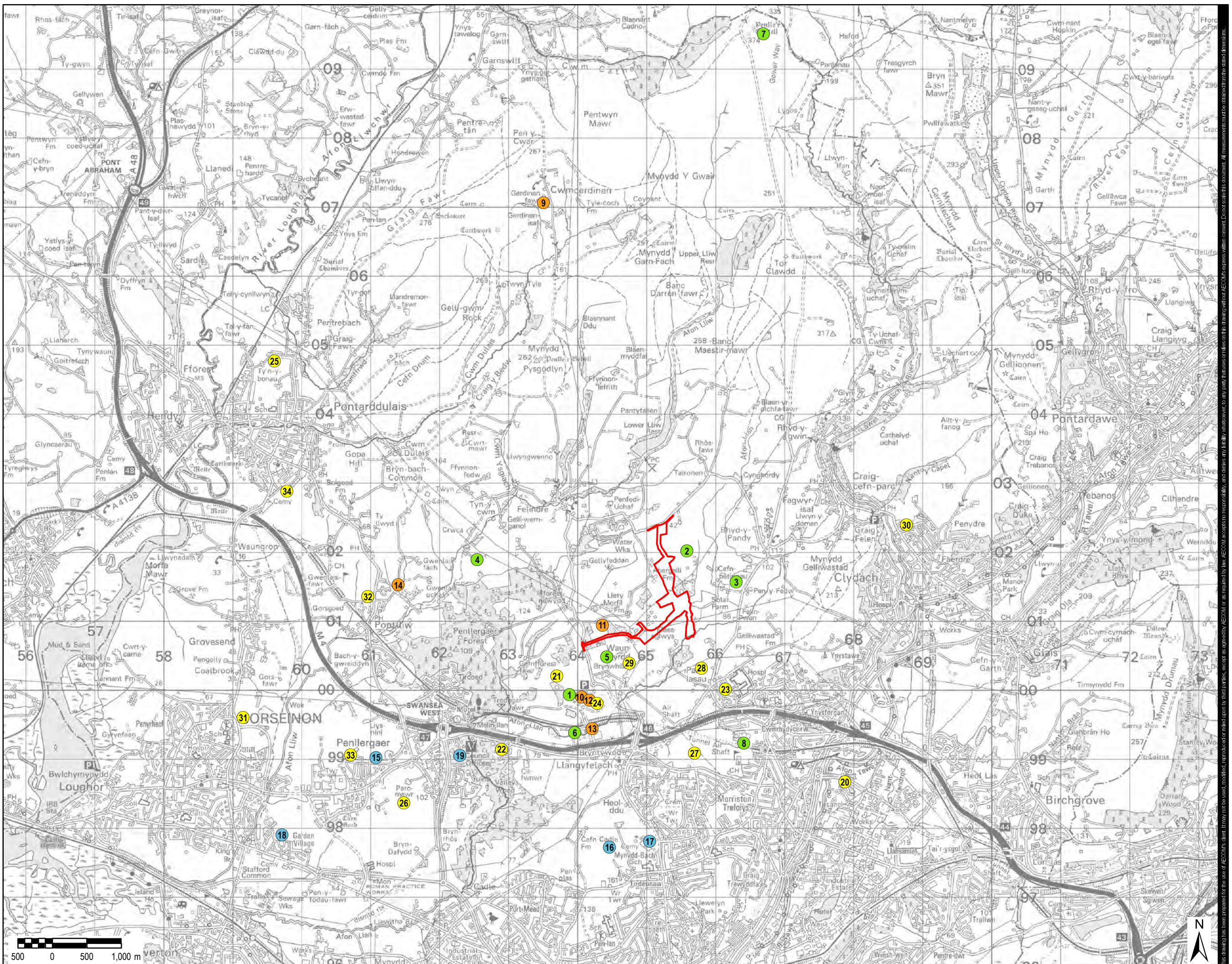
**Client:**



### LEGEND

- Project Site Boundary
- Under Construction
- Permitted but not implemented
- Submitted but not determined
- Identified / Allocated

Location	Development
1	Felindre Business Park
2	Abergelli Solar Farm
3	Cefn Betingau Phase 1, Morriston
4	Gelliwern Isaf solar park
5	Brynwhilach Solar Park
6	Former J R Steelworks, Bryntwyod
7	Mynydd Y Gwair Wind Farm
9	Tyle Coch Mawr Wind Farm
10	Felindre Business Park 2
11	Llettyr Morfil Farm
12	Plot 8 Felindre Strategic Business Park
13	Griffiths Waste Management Site
14	Former Walters Yard
15	Land at Llewellyn Road
16	Royal Fern Golf Resort
8	Parc Ceirw
17	Land West Of Llangyfelach Road
18	Land North Of Garden Village
19	Former Civic Centre Penlergaer
20	Swansea Vale Strategic Mixed-Use Site
21	Land at Bryntwyod
22	Penlergaer Business Park
23	West of Morriston Hospital
24	Northwest of M4 J46, Llangyfelach
25	South of Glanffrd Road, Pontarddulais
26	South of A4240, Penlergaer
27	North of Clasmont Road, Morriston
28	Morriston Hospital
29	Former Tip Site, Felindre
30	Land at Ramsey Road, Clydach
31	Land east of Pontarddulais Road, Gorseion
32	Land at Carmel Road and Bryntirion Road
33	Land north of Llewellyn Road, Penlergaer
34	Land at Bolgoed Road, Pontarddulais



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**Drawing Title:**

### DEVELOPMENTS TO BE CONSIDERED IN CUMULATIVE ASSESSMENT

Scale at A3: 1:50,000

**Drawing No:** **Rev:**

FIGURE 4.1 002

**Drawn:** Chk'd: App'd: Date:

GM NW CA 02/05/18



Project Title:

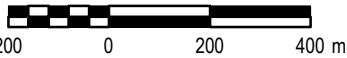
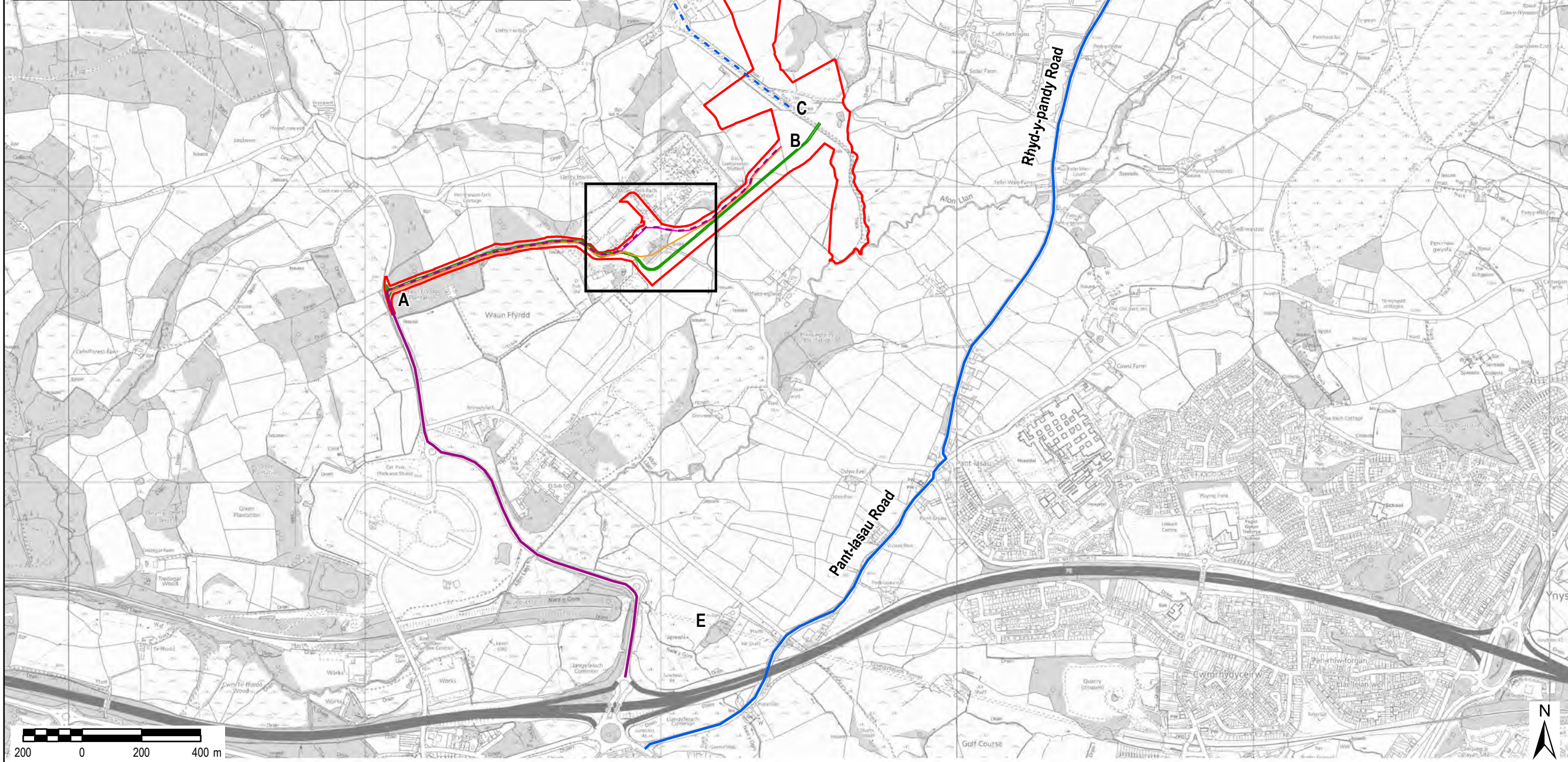
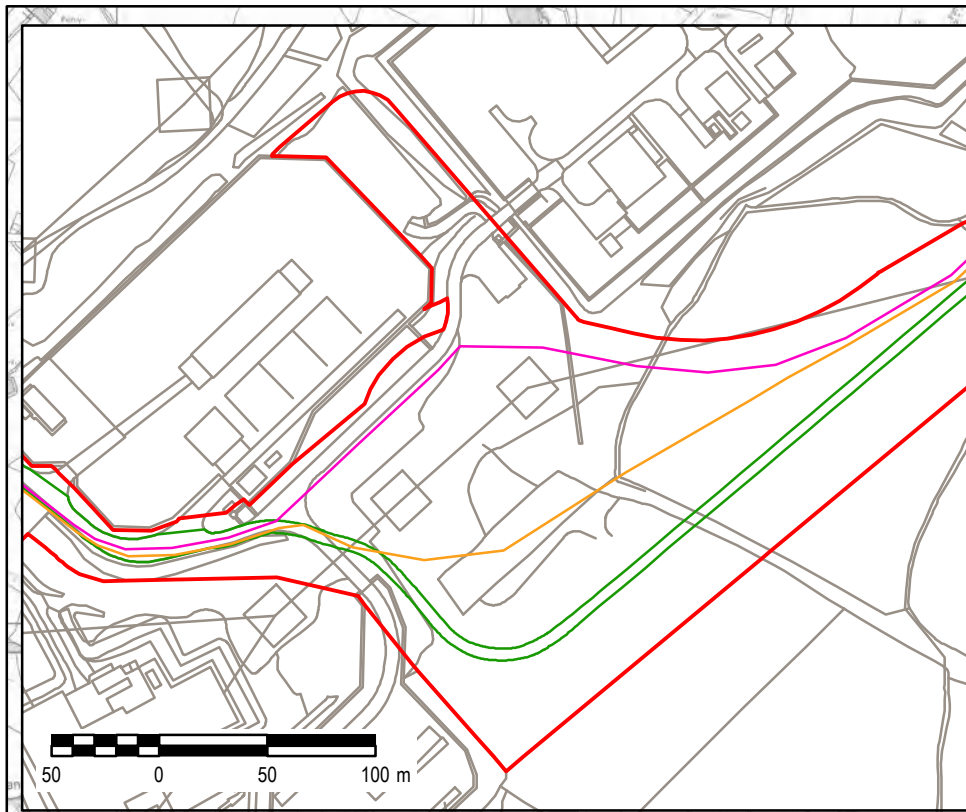
## ABERGELLI POWER PROJECT

Client:



### LEGEND

- Option 1 - Private road
- Option 1 - Public road
- Option 2 - Private road
- Option 2 - Public road
- Option A - Private road
- Option B - Private road
- Revised Option B Access Road
- Project Site boundary



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60542910

Drawing Title:

### ACCESS ROUTE OPTIONS

Scale at A3: 1:15,000

Drawing No: Rev:

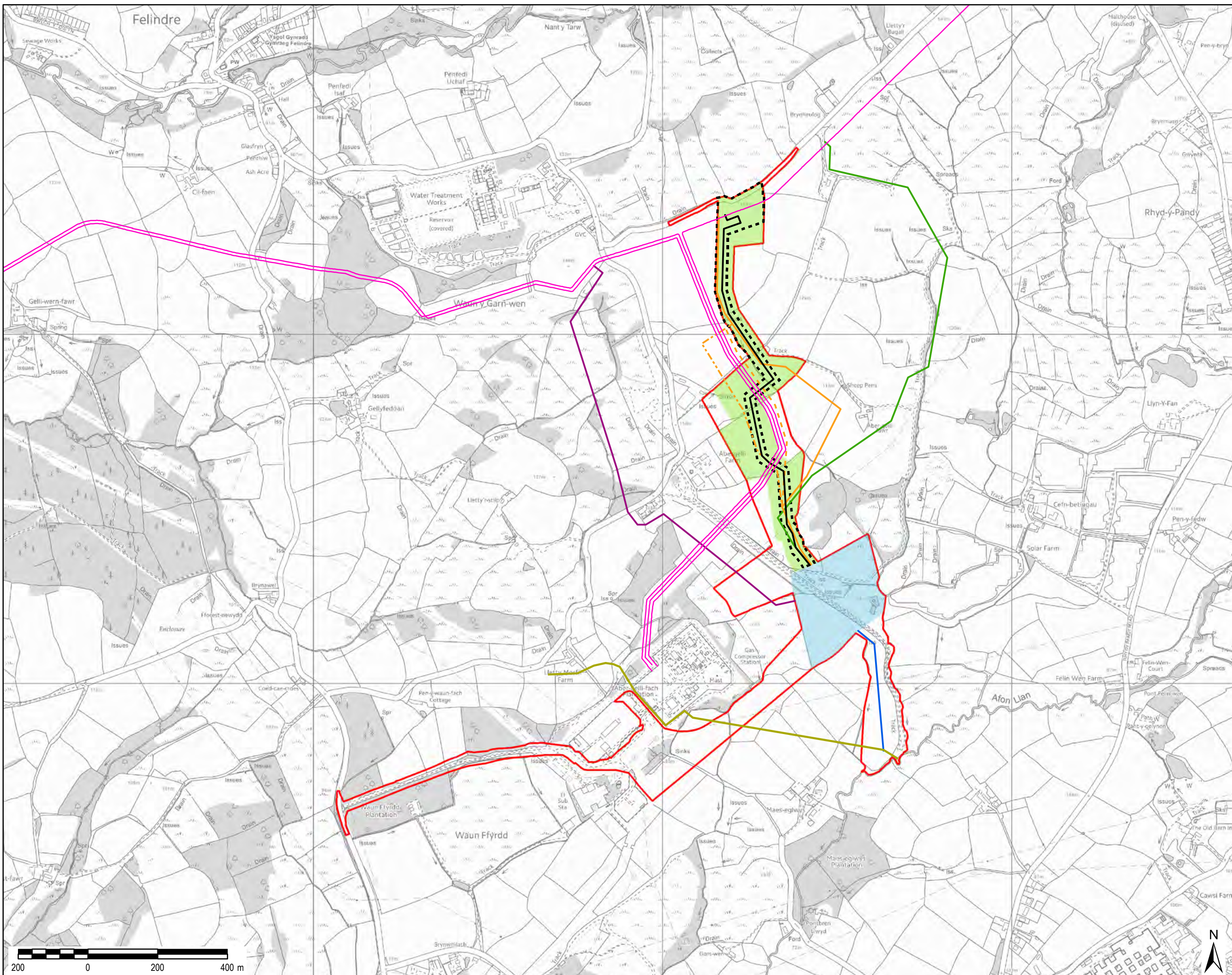
FIGURE 5.1 001

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**Project Title:**

**ABERGELLI POWER PROJECT**

**Client:**



**LEGEND**

- Project Site Boundary
- National Gas Transmission System
- Option 1
- Option 2
- Option 2a
- Option 2b
- Option 3
- Option 4
- Indicative Pipeline Route
- Local Transmission System Pipeline
- Limits of Deviation of Gas Connection
- Generating Equipment Site
- Temporary/construction land-take

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**Drawing Title:**

**GAS CONNECTION OPTIONS**

**Scale at A3:** 1:10,000

**Drawing No:** **Rev:**

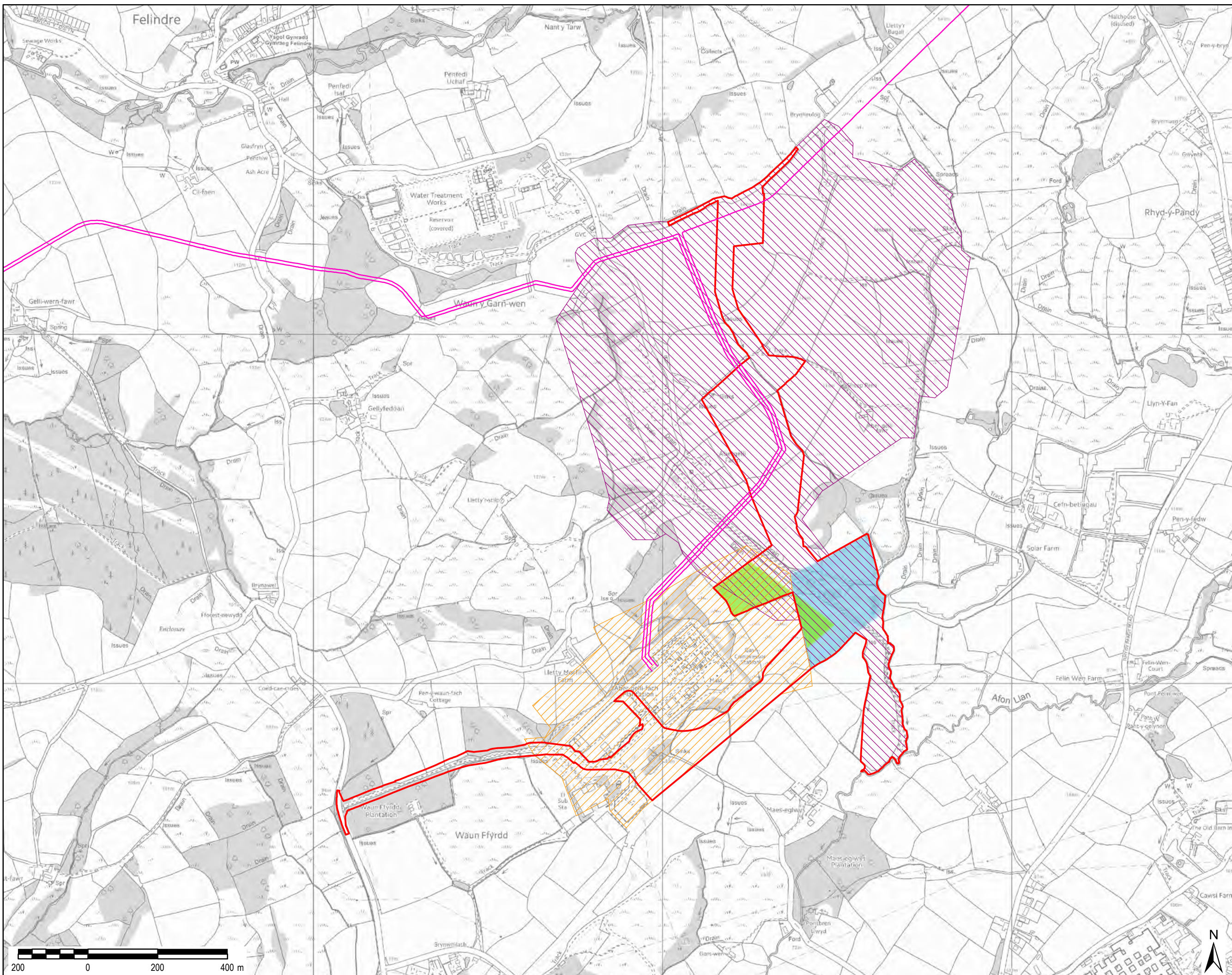
FIGURE 5.2 001

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**Project Title:**

## ABERGELLI POWER PROJECT

**Client:**



### LEGEND

- Project Site Boundary
- National Gas Transmission System
- Electrical Connection Opportunity Area
- Gas Connection Opportunity Area
- Laydown Area
- Generating Equipment Site

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**Drawing Title:**

### OPPORTUNITY AREAS

**Scale at A3:** 1:10,000

**Drawing No:** **Rev:**

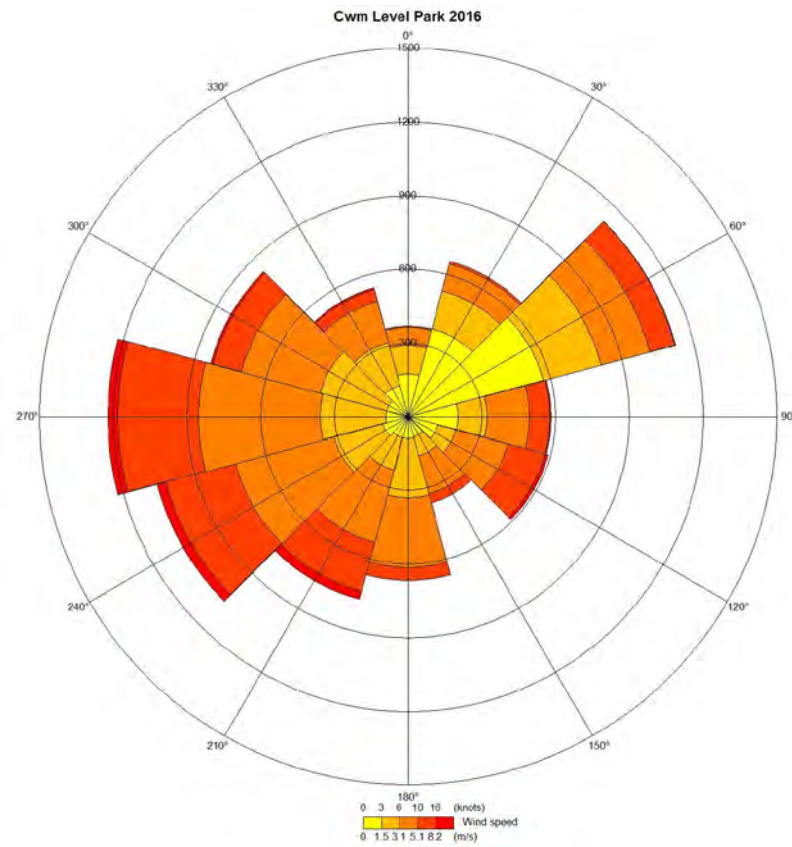
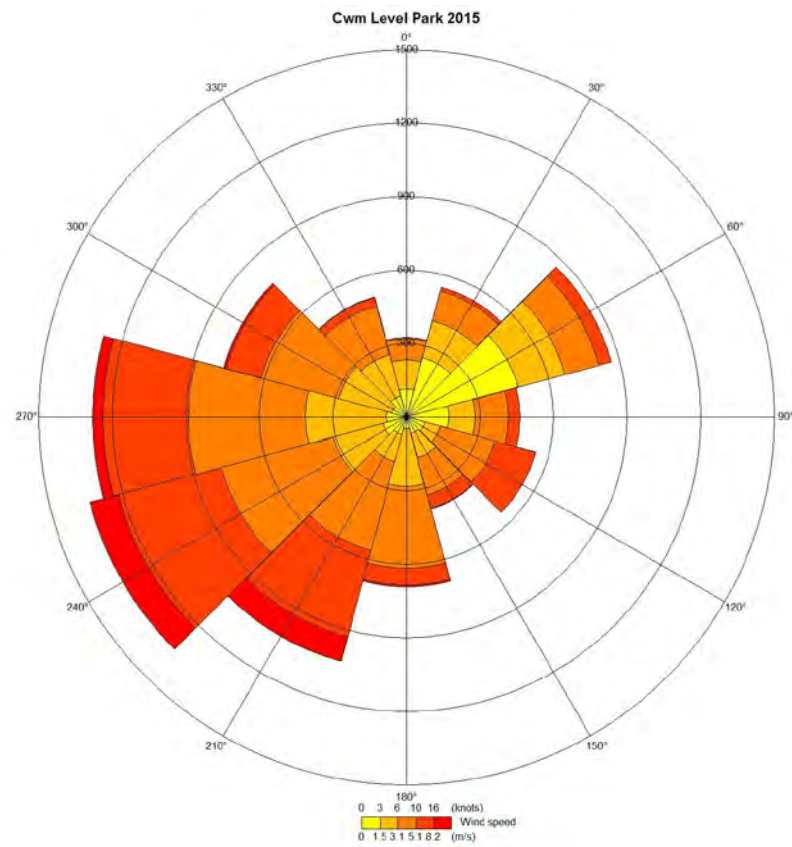
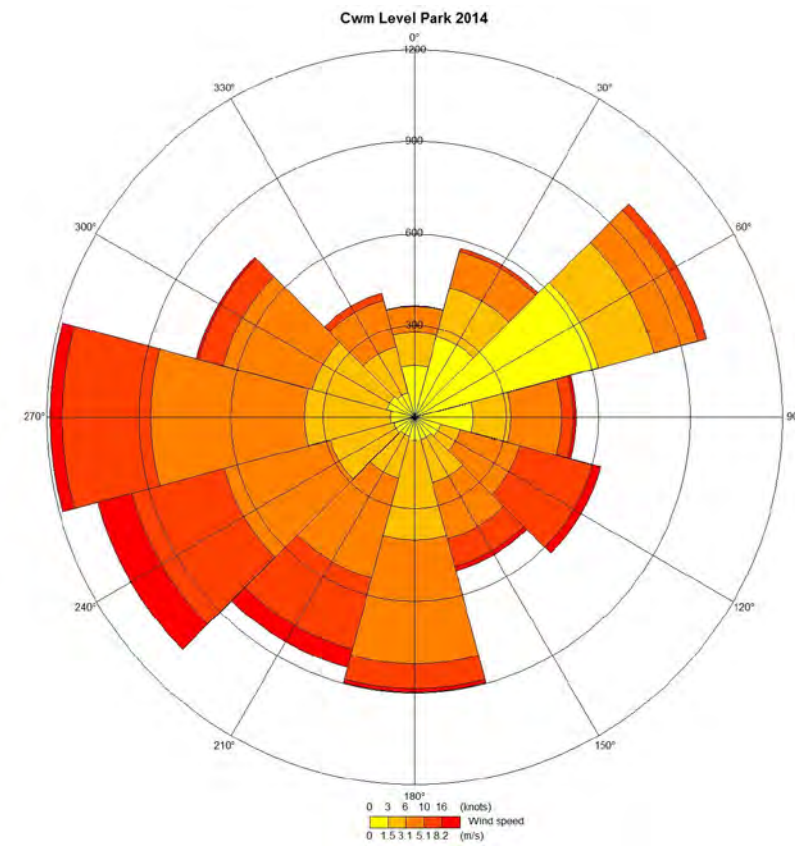
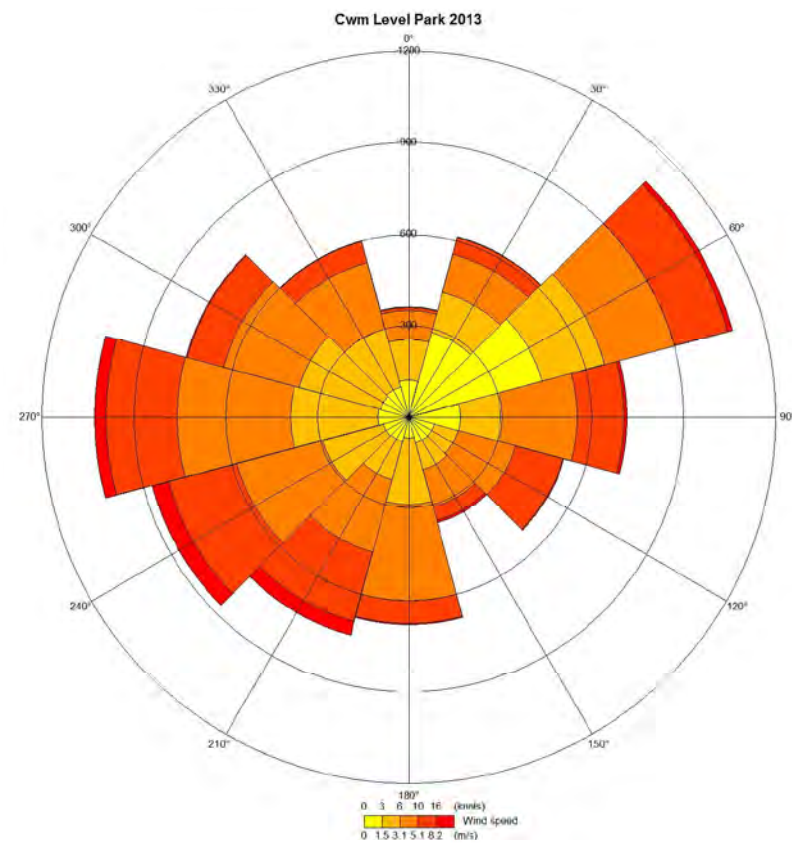
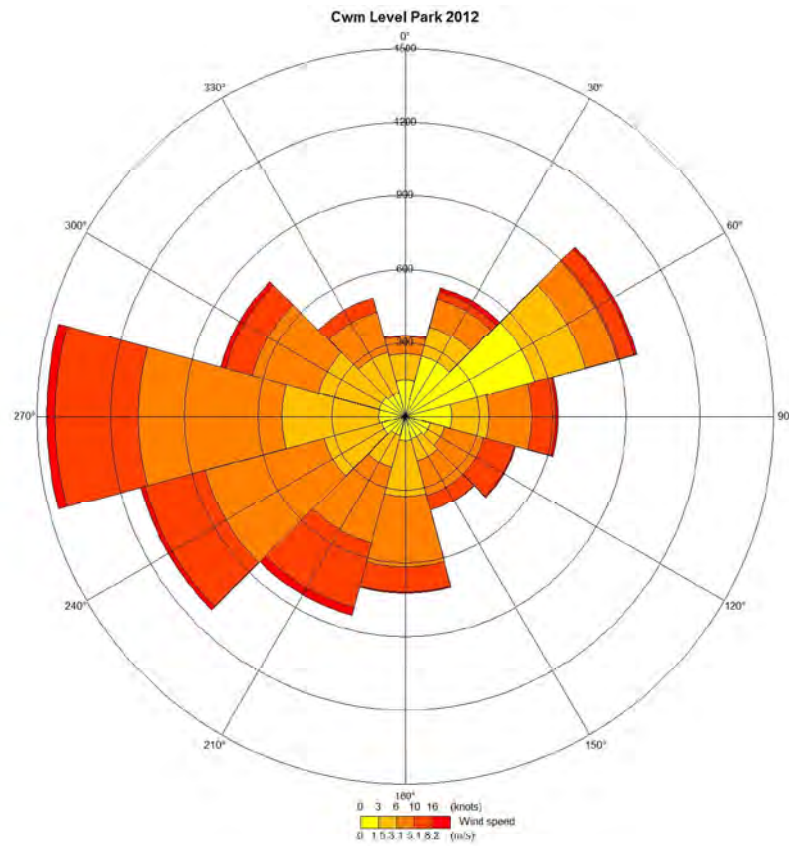
FIGURE 5.3 001

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**Drawing Title:**

**WIND ROSES**

**Scale at A3: Not to Scale**

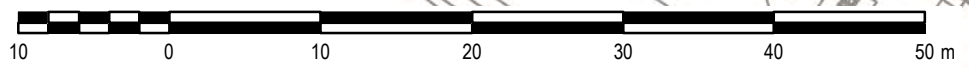
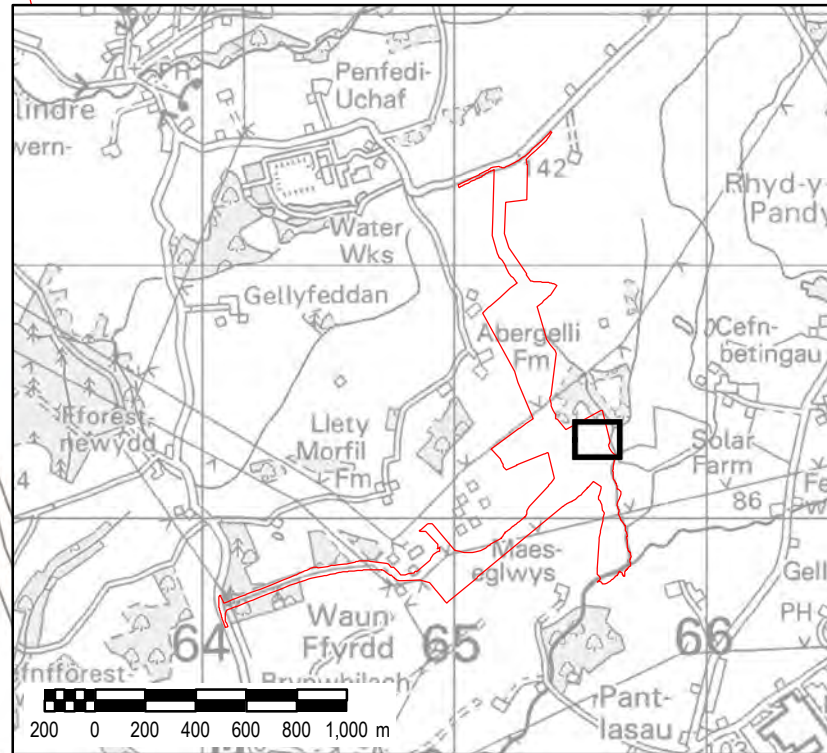
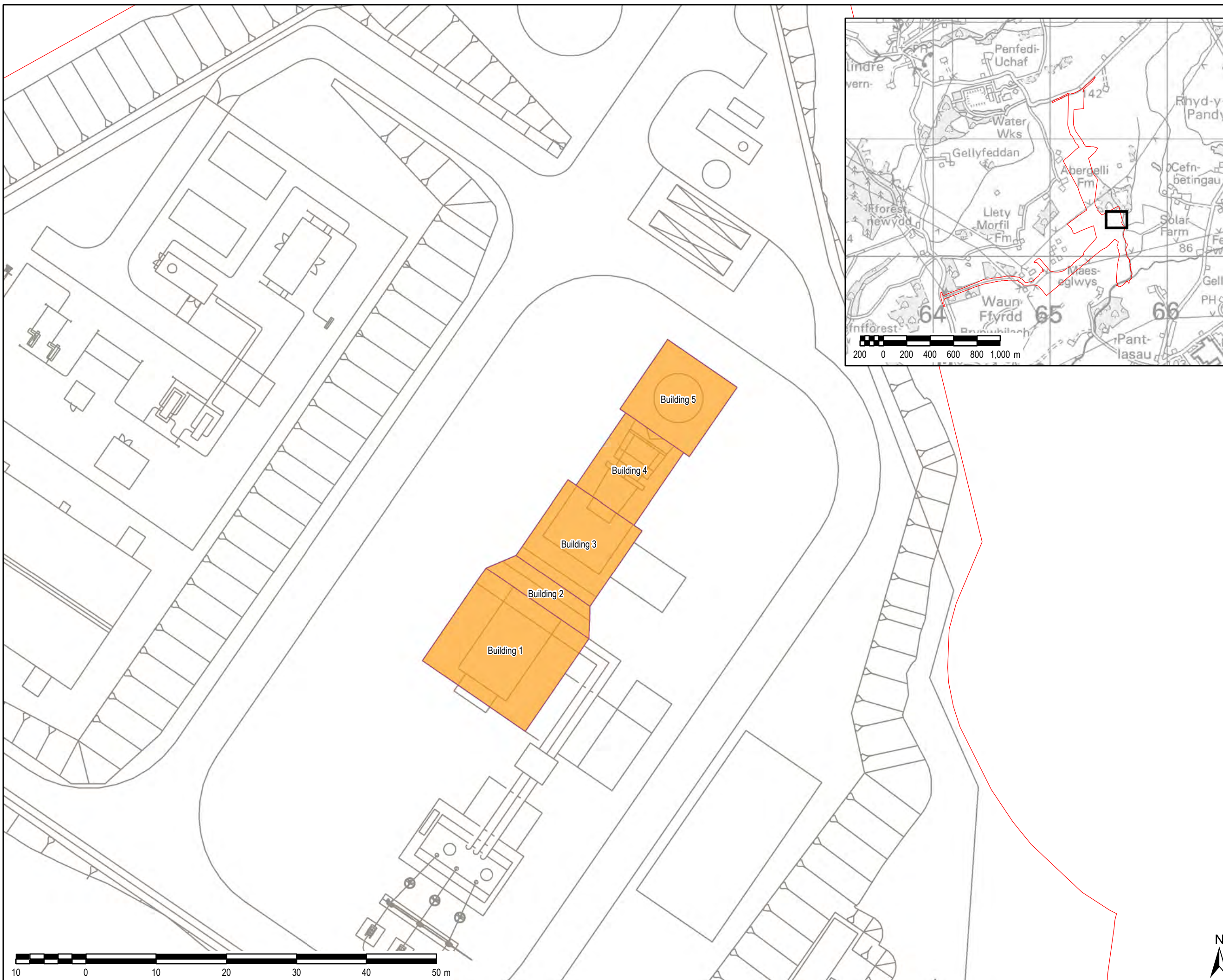
**Drawing No:** FIGURE 6.1 **Rev:** 002

**Drawn:** Chk'd: App'd: Date:

GM CC CA 02/05/18

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**Drawing Title:**  
**BUILDINGS MODELLED**

**Scale at A3:** 1:500  
**Drawing No:** FIGURE 6.2 **Rev:** 005  
**Drawn:** GM **Chk'd:** CC **App'd:** CA **Date:** 02/05/18

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**Project Title:**

**ABERGELLI POWER PROJECT**

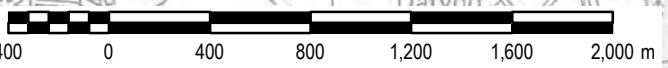
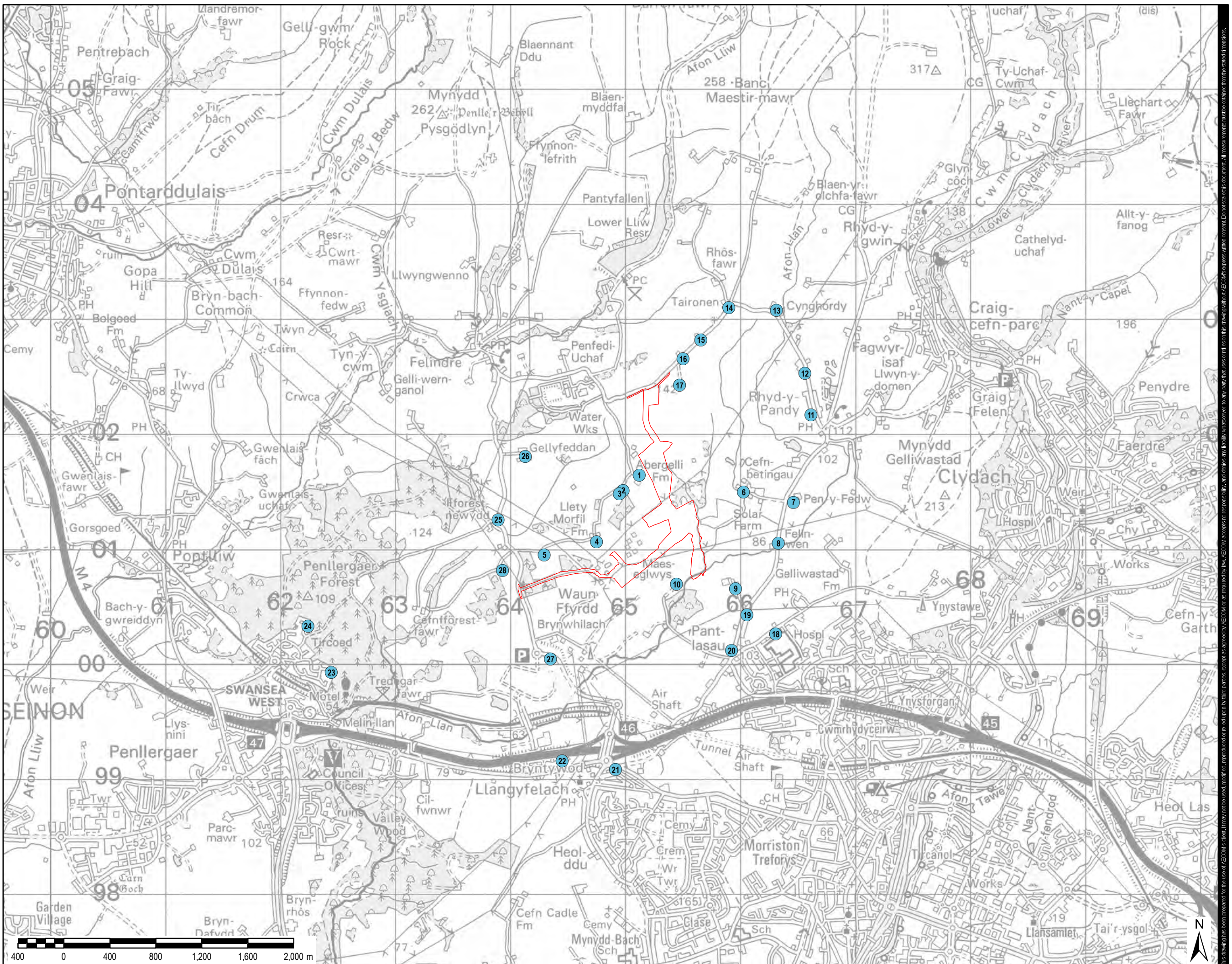
**Client:**



**LEGEND**

- Project Site Boundary
- Modelled Sensitive Human Receptors

Receptor Number	Description
1	Abergelli Farm
2	Building SW of Abergelli Farm
3	Building SW of Abergelli Farm
4	Lletty Morfil Farm
5	Pen-y-waun-fach Cottage
6	Cefn-betingau
7	Pen-y-fedw
8	Felin-Wen-Court
9	Property SE of the Site
10	Maes-eglwys
11	Rhyd-y-Pandy
12	Gwynfa
13	Cynghordy
14	Salem Cottage
15	Lletty'r Bugail
16	Brynheulog
17	Property N of the Site
18	Morrison Hospital
19	Pant-lasau
20	Pant-lasau
21	Llangyfelach
22	Bryn-tywod
23	Tircoed
24	Tircoed
25	Brynawel
26	Gellyfeddan
27	Area 5 of CCS LDP
28	Area 11 of CCS LDP



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**AECOM Internal Project No:**

60542910

**Drawing Title:**

**MODELLED SENSITIVE HUMAN RECEPTORS**  
 Scale at A3: 1:30,000

**Drawing No:** **Rev:**

**FIGURE 6.3** **005**

**Drawn:** Chk'd: App'd: **Date:**

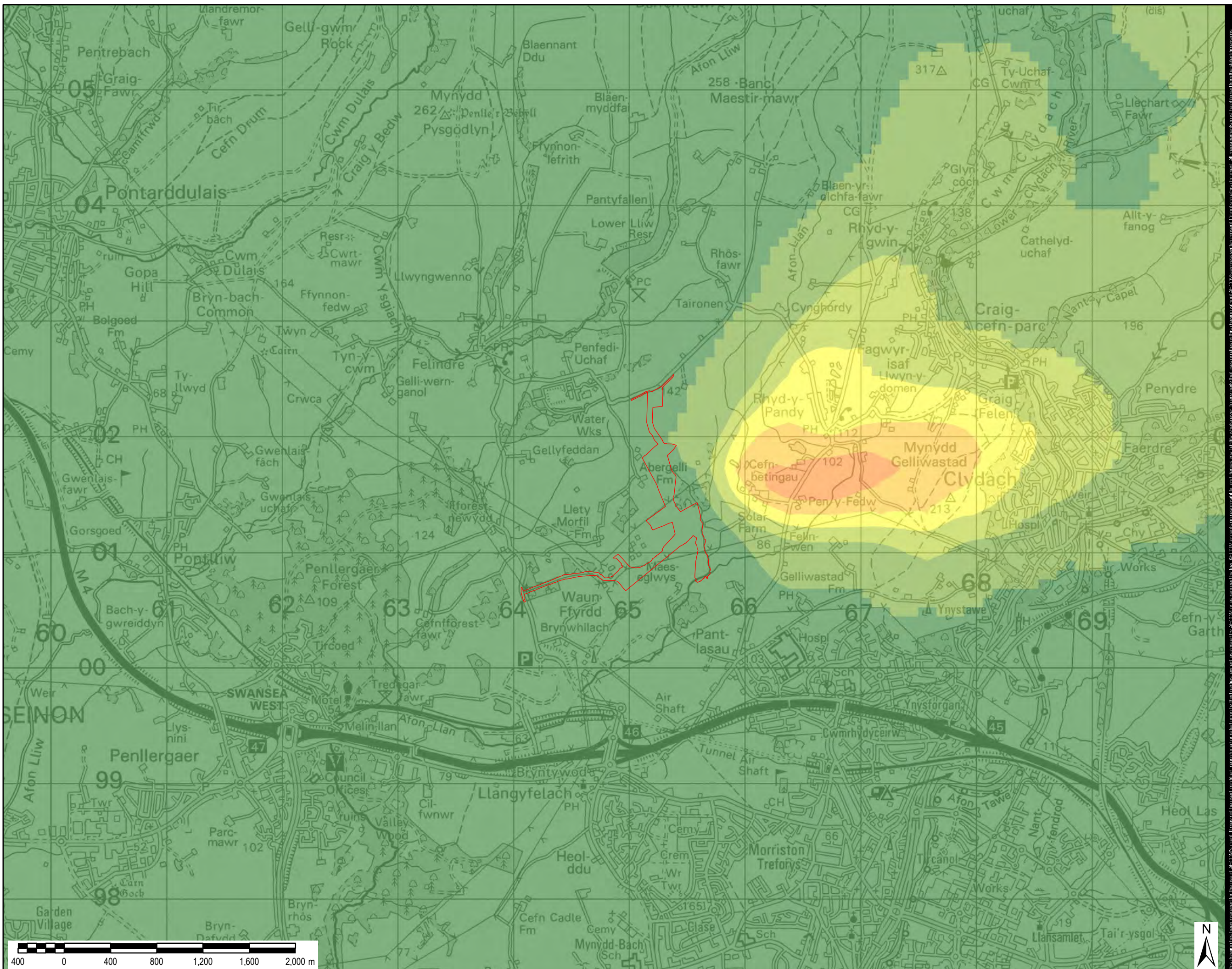
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**LEGEND**

- Project Site Boundary
- NO2 Concentrations (µg/m3)**
- 0.00 - 0.01
- 0.01 - 0.02
- 0.02 - 0.03
- 0.03 - 0.04
- 0.04 - 0.05
- 0.05 - 0.06



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**AECOM Internal Project No:**

60542910

**Drawing Title:**

**CONTOUR PLOT OF  
 MAXIMUM ANNUAL  
 MEAN NITROGEN  
 DIOXIDE  
 CONCENTRATIONS  
 (µG/M3)**

Scale at A3: 1:30,000

**Drawing No:** **Rev:**


FIGURE 6.4 005

**Drawn:** **Chk'd:** **App'd:** **Date:**










GM CC CA 02/05/18

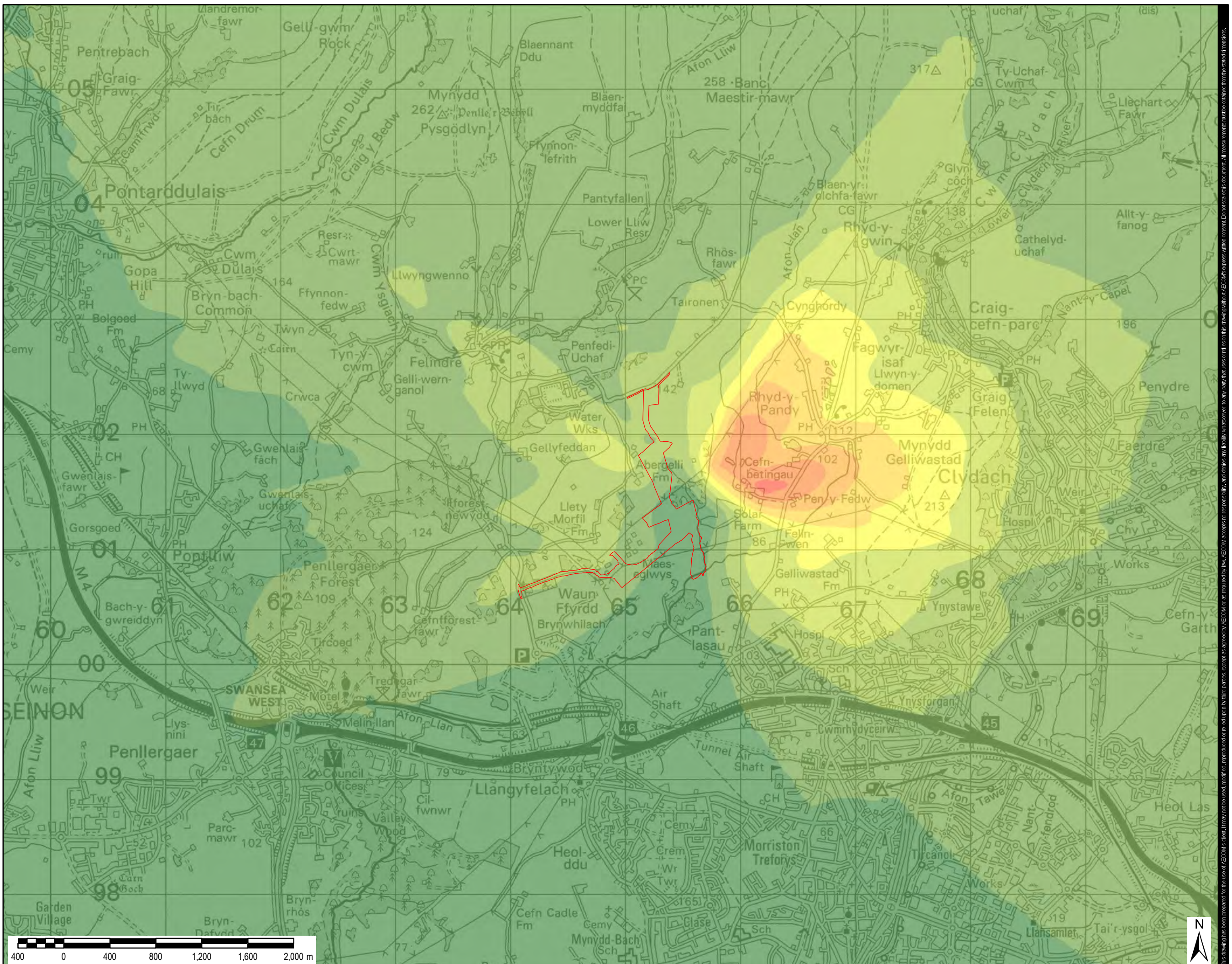


**LEGEND**

 Project Site Boundary

**NO2 Concentrations**

-  0.0 - 0.5
-  0.5 - 1.0
-  1.0 - 1.5
-  1.5 - 2.0
-  2.0 - 2.5
-  2.5 - 3.0
-  3.0 - 3.5
-  3.5 - 4.0
-  4.0 - 4.5



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**AECOM Internal Project No:**

60542910

**Drawing Title:**

**CONTOUR PLOT OF  
MAXIMUM 99.79TH  
PERCENTILE HOURLY  
MEAN NITROGEN  
DIOXIDE  
CONCENTRATIONS  
(µg/M3)**

Scale at A3: 1:30,000

**Drawing No:** FIGURE 6.5 **Rev:** 005

**Drawn:** Chk'd: App'd: **Date:**

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Project Title:

**ABERGELLI POWER PROJECT**

Client:

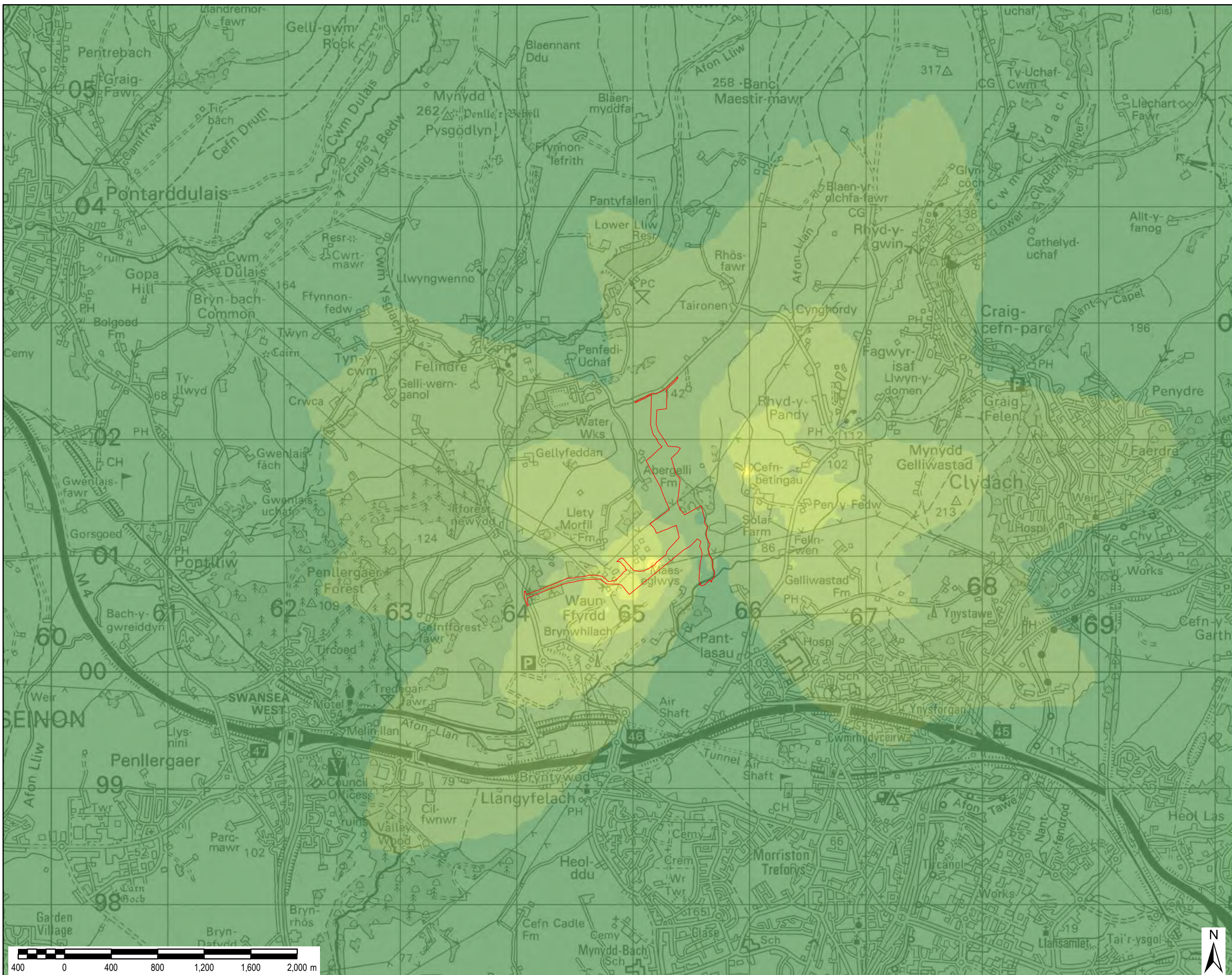


**LEGEND**

Project Site Boundary

**CO Concentrations (µg/m3)**

- 0 - 5
- 5 - 10
- 10 - 15
- 15 - 20
- 20 - 25
- 25 - 30
- 30 - 35
- 35 - 40



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**AECOM Internal Project No:**

60542910

**Drawing Title:**

**CONTOUR PLOT OF MAXIMUM ROLLING 8-HOUR CO CONCENTRATIONS (µg/M3)**

Scale at A3: 1:30,000

Drawing No: Rev:

FIGURE 6.6 005

Drawn: Chk'd: App'd: Date:

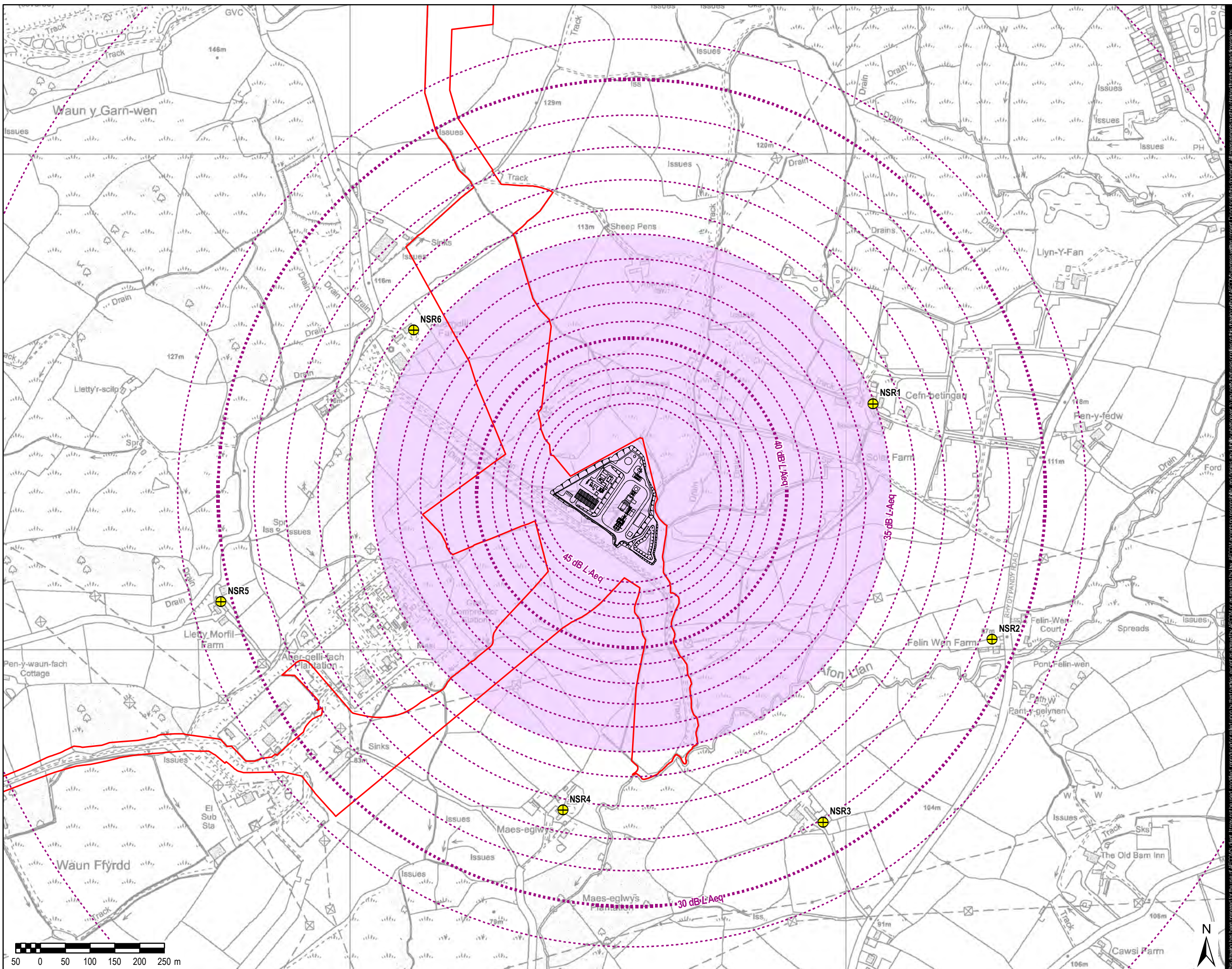
GM CC CA 02/05/18



**LEGEND**

- Project Site Boundary
- Generating Equipment Site
- + Noise Sensitive Receptors
- Indicative specific sound level contours
- Area with predicted specific sound level above 35 dB LAeq

Noise Sensitive Receptor	Address
NSR1	Cefn-betingau
NSR2	Felin Wen Farm
NSR3	Llwynhelig
NSR4	Maes-eglwys
NSR5	Lletty Morfil Farm
NSR6	Abergelli Farm



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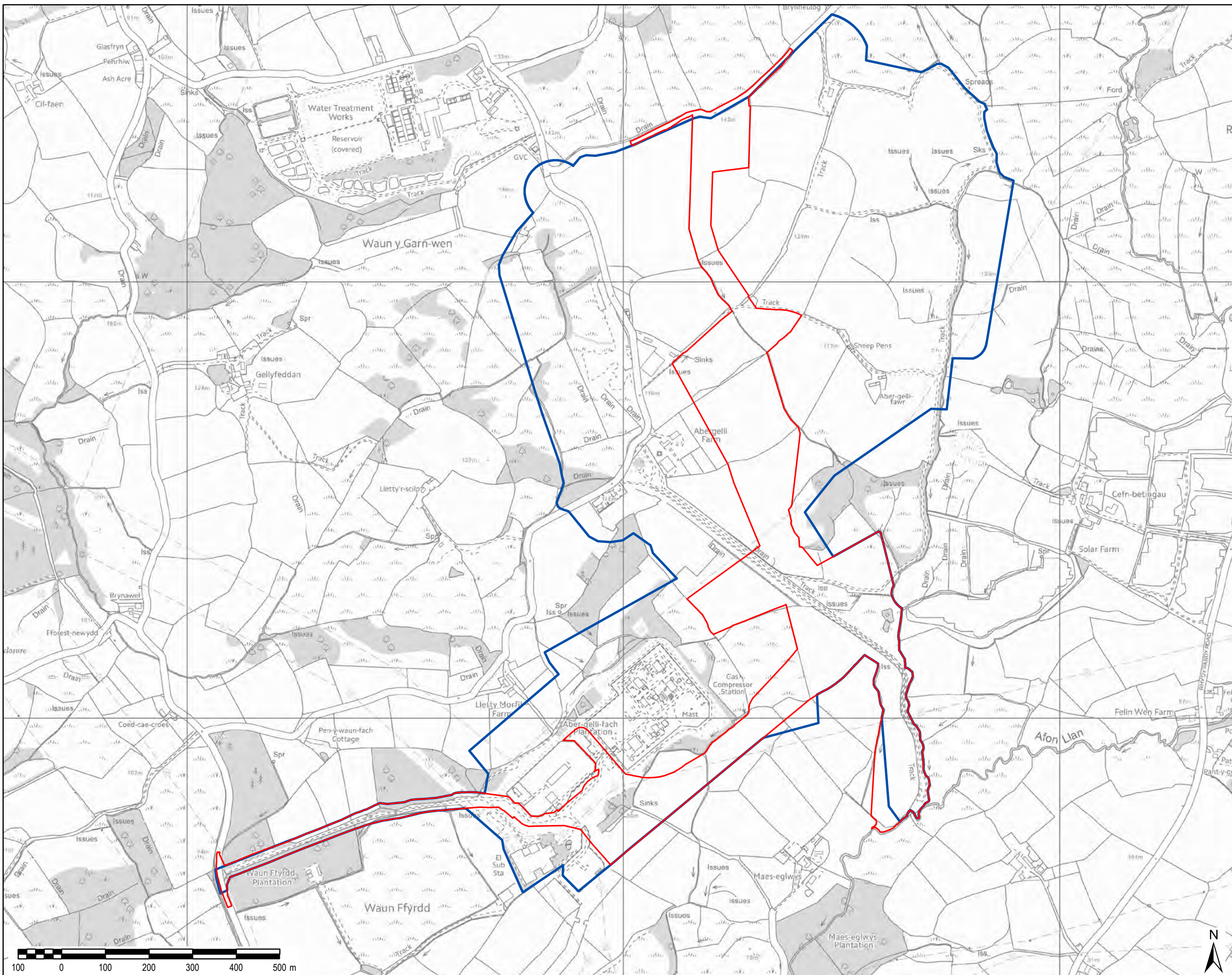
**AECOM Internal Project No:**  
60542910

**Drawing Title:**  
**NOISE SENSITIVE RECEPTOR LOCATIONS AND ESTIMATED SOUND LEVELS**

**Scale at A3: 1:7,000**  
**Drawing No:** FIGURE 7.1 **Rev:** 01  
**Drawn:** Chk'd: App'd: Date:  
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**Project Title:**

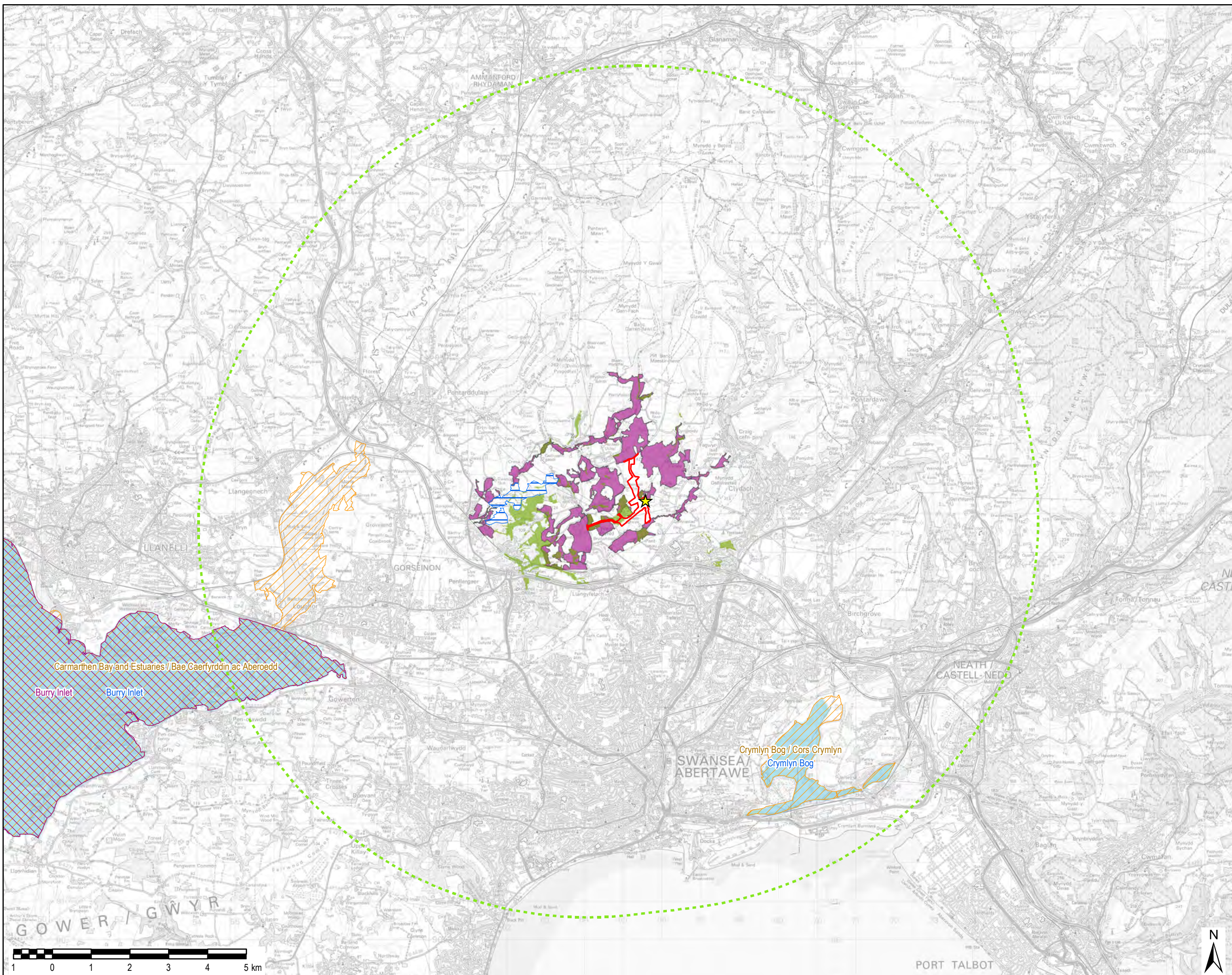
**ABERGELLI POWER PROJECT**

**Client:**



**LEGEND**

- ★ Proposed Stack Location
- ▭ Project Site Boundary
- ⋯ 10km Study Area
- ▨ Special Protection Area
- ▨ Special Area of Conservation
- ▭ Site of Special Scientific Interest
- Ancient Woodlands
- Ramsar Site
- SINC



**APFP Regulations 5(2)(L)**

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60542910

**Drawing Title:**

**DESIGNATED SITES 1**

Scale at A3: 1:90,000








**Drawing No:** FIGURE 8.2 **Rev:** 005

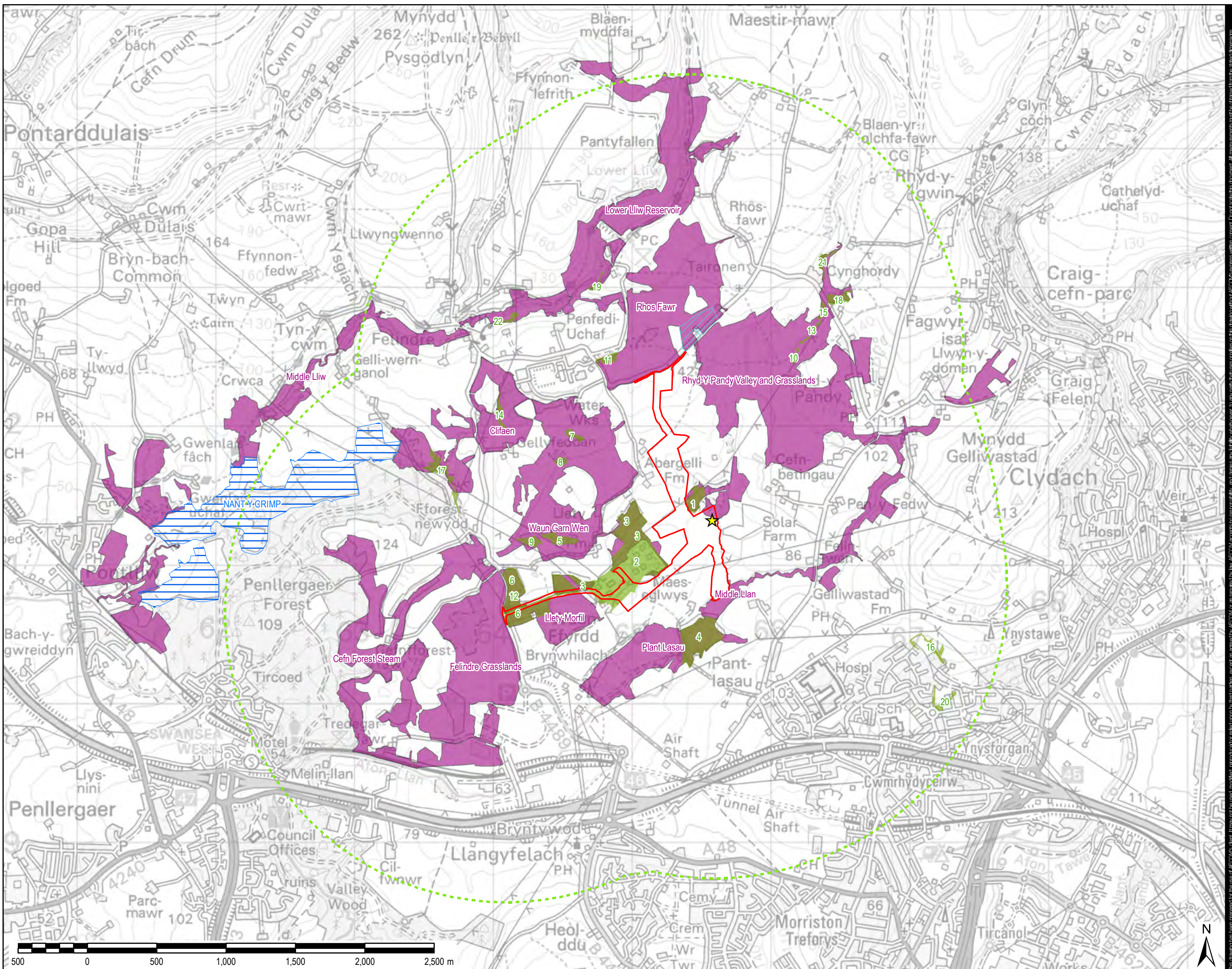
**Drawn:** Chk'd: App'd: Date:

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- LEGEND**
-  Proposed Stack Location
  -  Project Site Boundary
  -  2km Study Area
  -  Site of Special Scientific Interest
  -  Coed Barcud Wildlife Trust Reserve
  -  Ancient Woodland
  -  SINC



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DESIGNATED SITES 2

**Scale at A3:** 1:25,000  
**Drawing No:** FIGURE 8.3  
**Rev:** 005  
**Drawn:** Chk'd: App'd: Date:  
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Project Title:

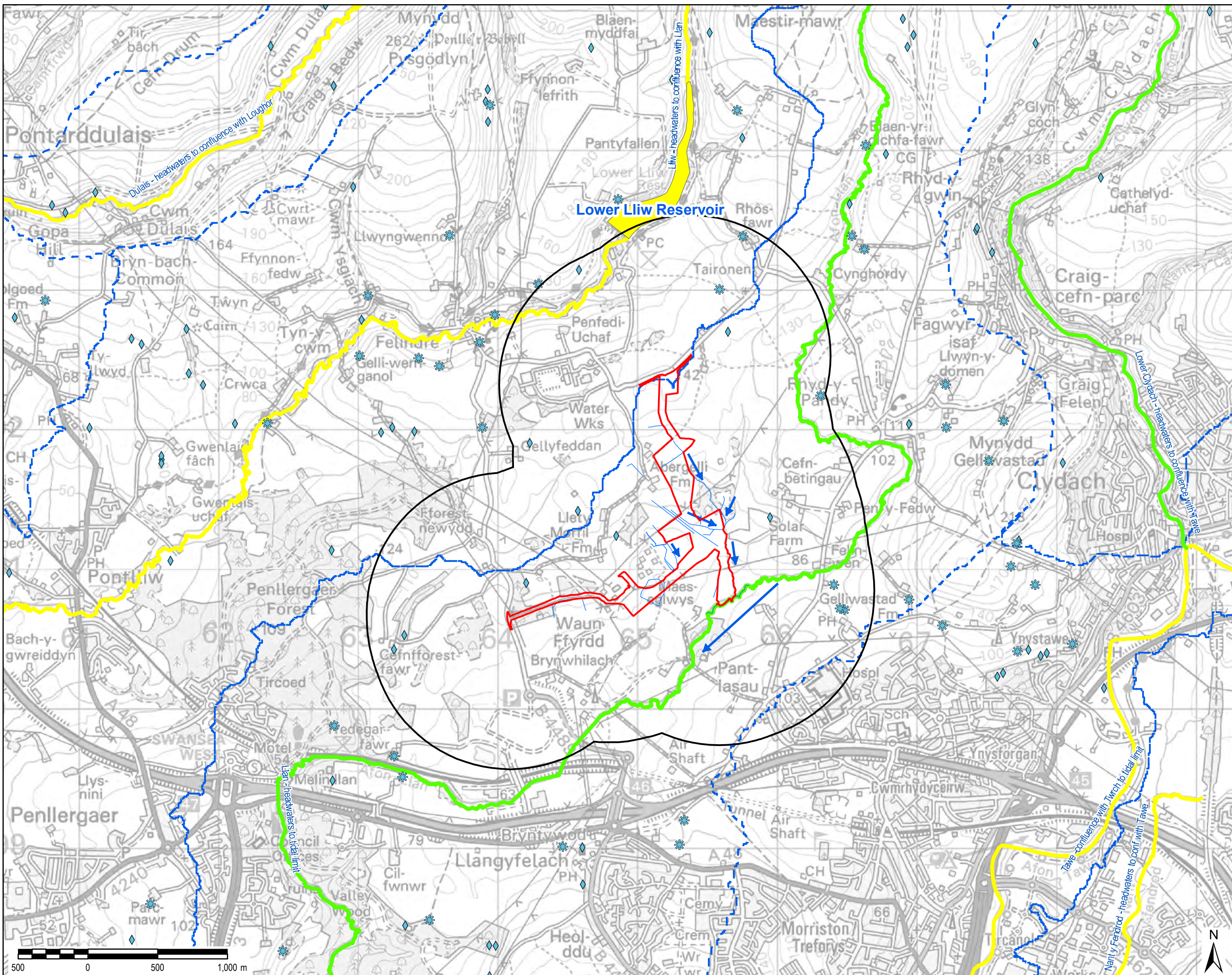
## ABERGELLI POWER PROJECT

Client:



### LEGEND

- Project Site Boundary
- 1 km Buffer
- \* Wells
- ◆ Springs
- Surface Water
- WFD Lakes**
- Moderate
- WFD Rivers**
- Good
- Moderate
- WFD SW Catchments



### APFP Regulations 5(2)(L)

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Drawing Title:

### SURFACE WATER BODIES

Scale at A3: 1:25,000

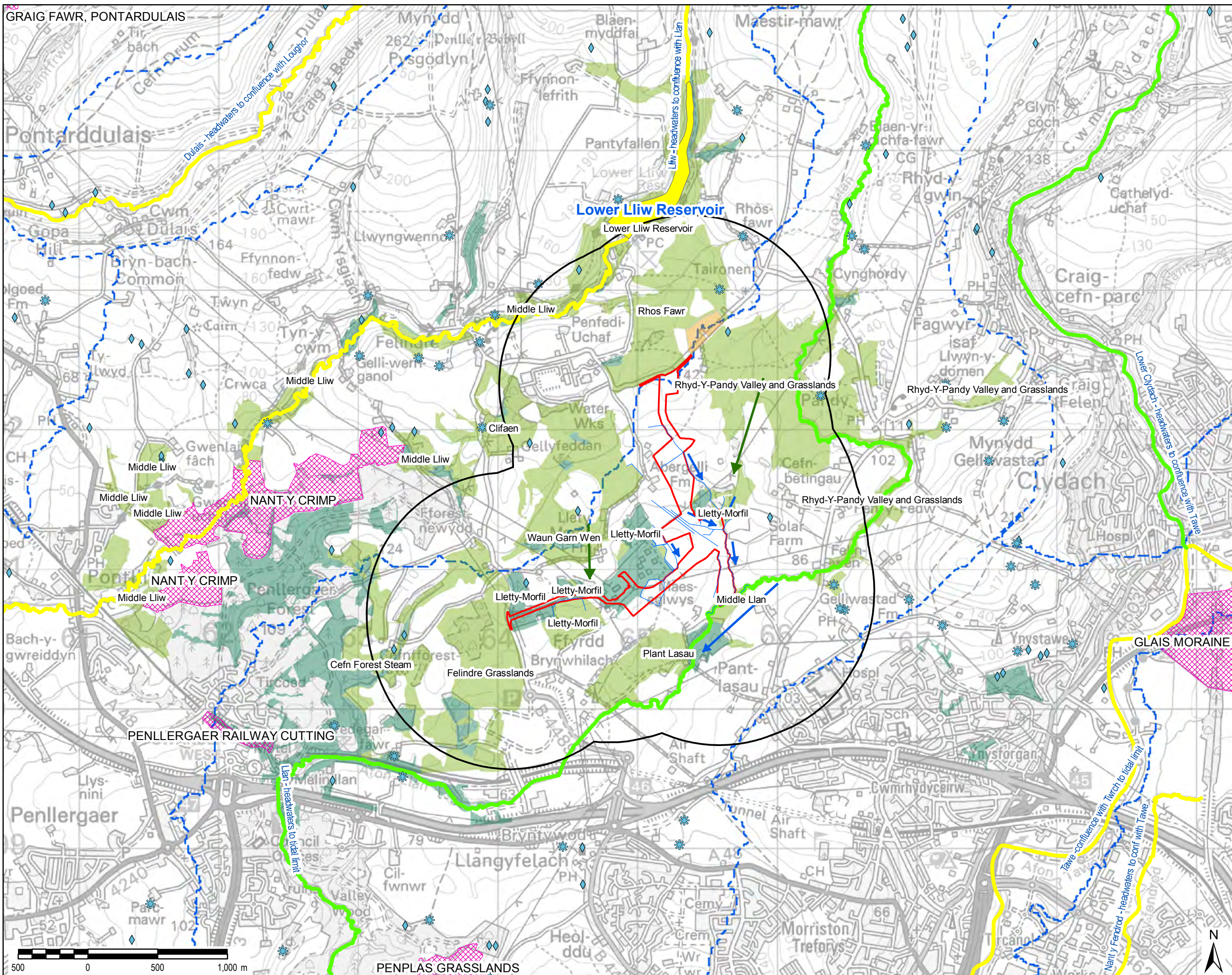
Drawing No: FIGURE 9.1

Rev: 001

Drawn: Chk'd: App'd: Date:

JN GM CA 02/05/18





**LEGEND**

- Project Site Boundary
- 1 km Buffer
- \* Wells
- ◆ Springs
- WFD Lakes**
- Moderate
- Good
- WFD Rivers**
- Moderate
- Good
- WFD River Catchments
- Inferred Water Flow Direction**
- Groundwater
- Surface Water
- NRW Sites of Special Scientific Interest (SSSI)
- Ancient Woodland
- Abergelli Wildlife Reserve
- Sites of Importance for Nature Conservation (SINC)

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**Drawing Title:**

**ENVIRONMENTAL RECEPTORS**

**Scale at A3:** 1:25,000

**Drawing No:** FIGURE 9.2 **Rev:** 001

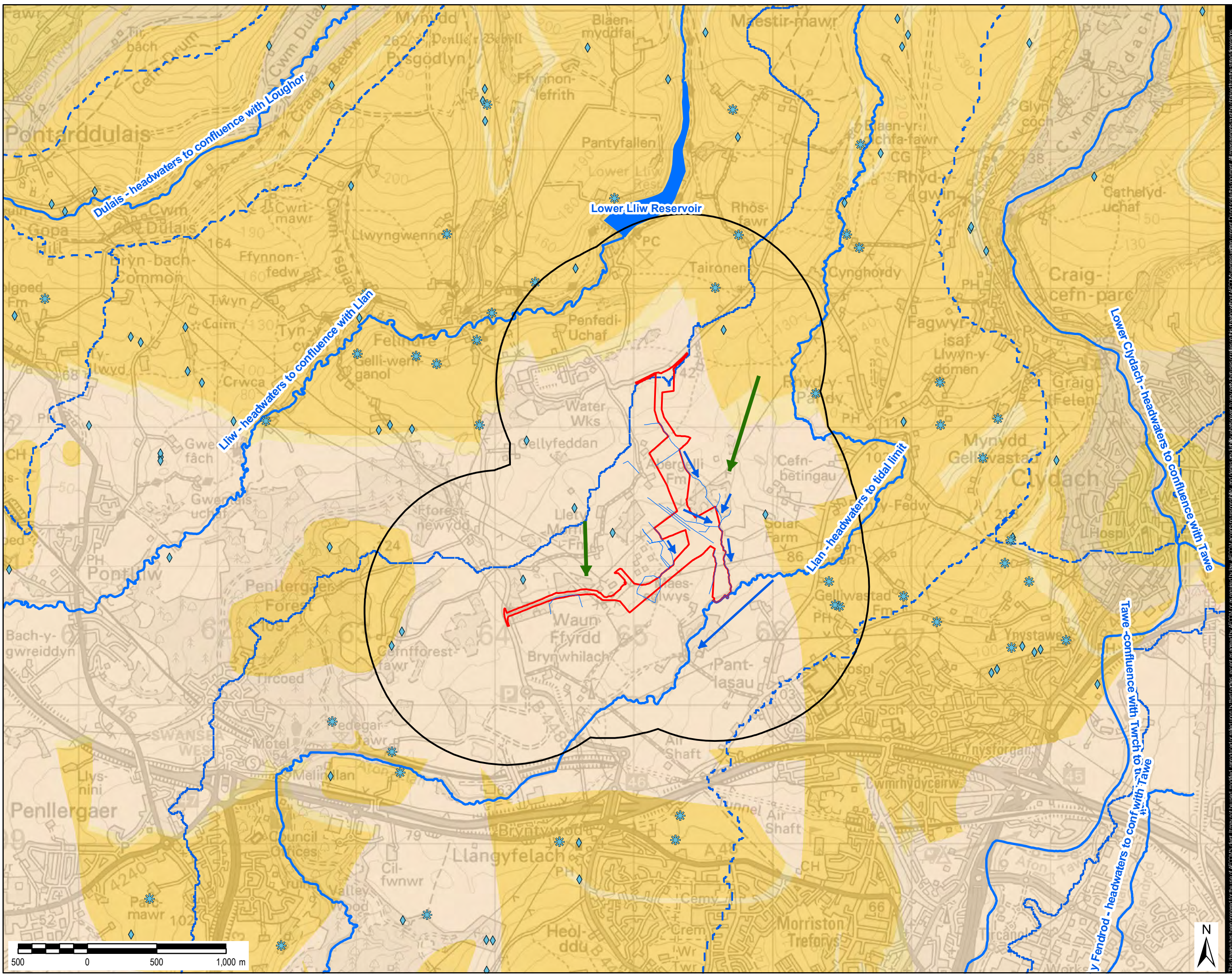
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**LEGEND**

- Project Site Boundary
- 1 km Buffer
- \* Wells
- ◆ Springs
- WFD Rivers
- WFD Lakes
- Other Watercourses
- Inferred Water Flow Direction**
- ➔ Groundwater
- ➔ Surface Water
- Bedrock Geology**
- Grovesend Formation
- Swansea Member Sandstone
- Swansea Member Mudstone Siltstone Sandstone



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**Drawing Title:**

**BEDROCK GEOLOGY**

Scale at A3: 1:25,000

Drawing No: FIGURE 9.3 Rev: 001

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Project Title:

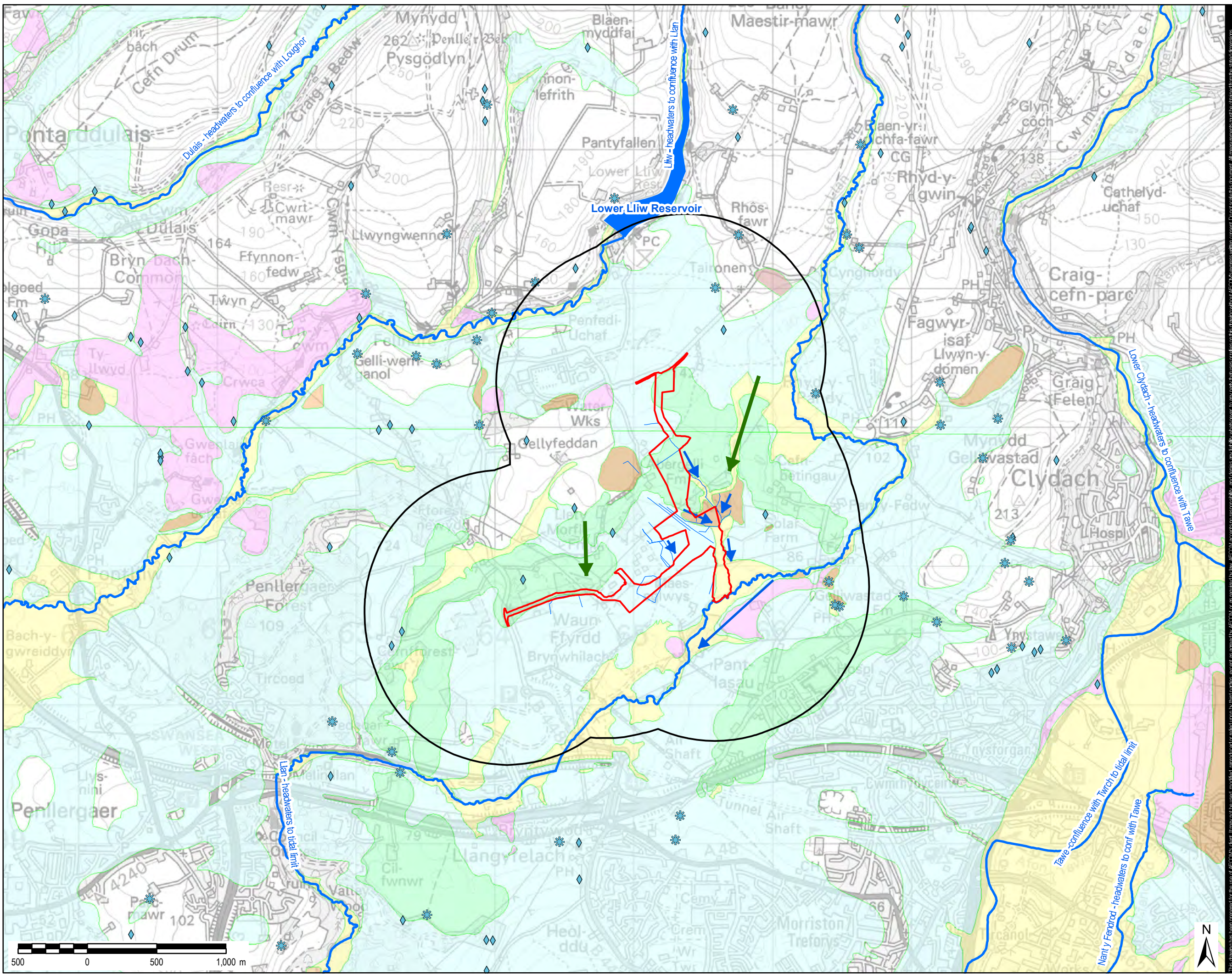
**ABERGELLI POWER PROJECT**

Client:



### LEGEND

- Project Site Boundary
- 1 km Buffer
- Wells
- Springs
- Inferred Water Flow Direction**
- Groundwater
- Surface Water
- WFD Rivers
- WFD Lakes
- Superficial Geology**
- Till
- Glacial Deposits
- Glacioluvial Deposits
- Alluvium
- Peat



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### SUPERFICIAL GEOLOGY

Scale at A3: 1:25,000

Drawing No: FIGURE 9.4 Rev: 001

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Project Title:

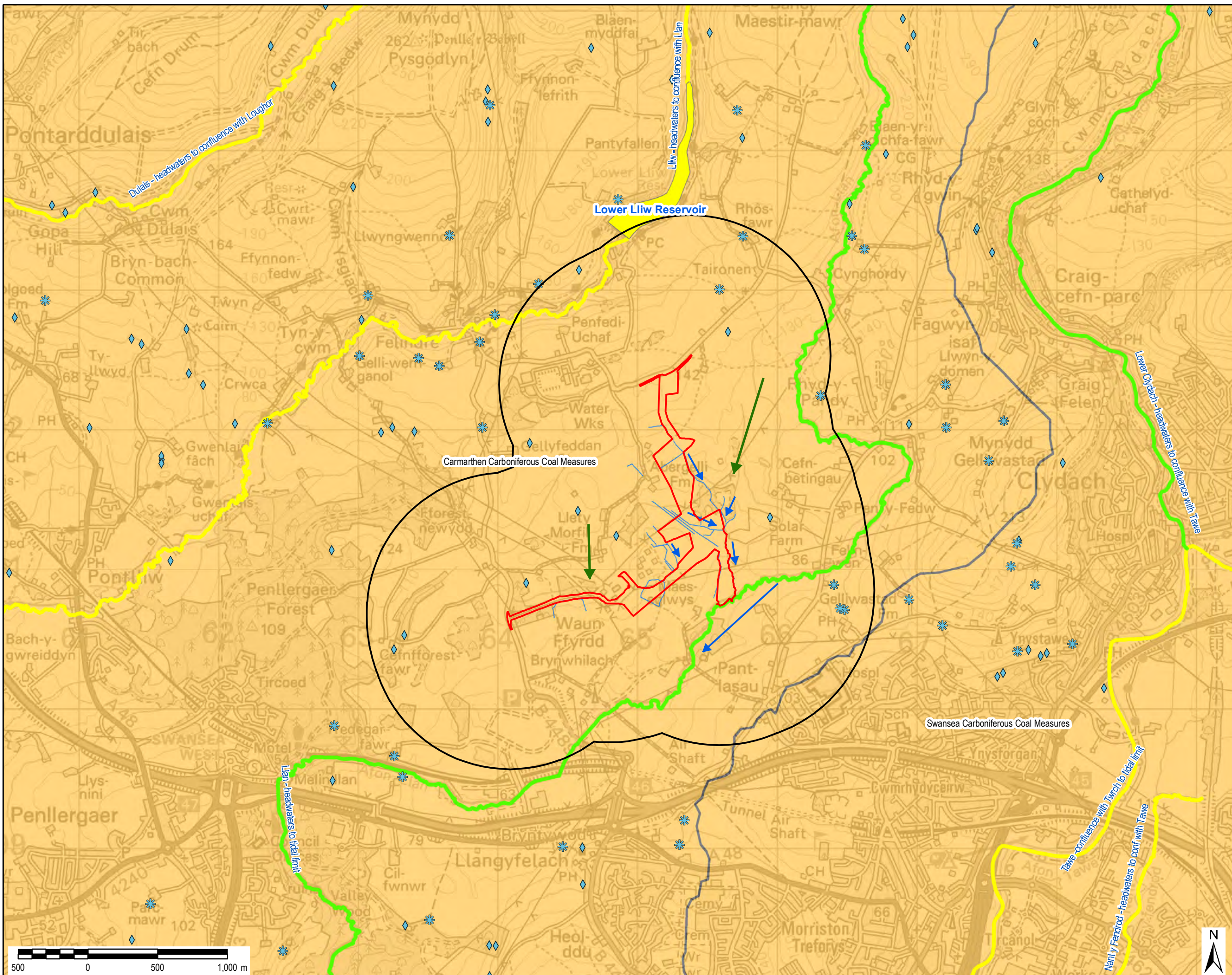
## ABERGELLI POWER PROJECT

Client:



### LEGEND

- Project Site Boundary
- 1 km Buffer
- \* Wells
- ◆ Springs
- Inferred Water Flow Direction**
- Groundwater
- Surface Water
- WFD Lakes**
- Moderate
- WFD Rivers**
- Good
- Moderate
- WFD Groundwater Bodies**
- Poor



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### GROUNDWATER BODIES

Scale at A3: 1:25,000

Drawing No: FIGURE 9.5

Rev: 001

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Project Title:

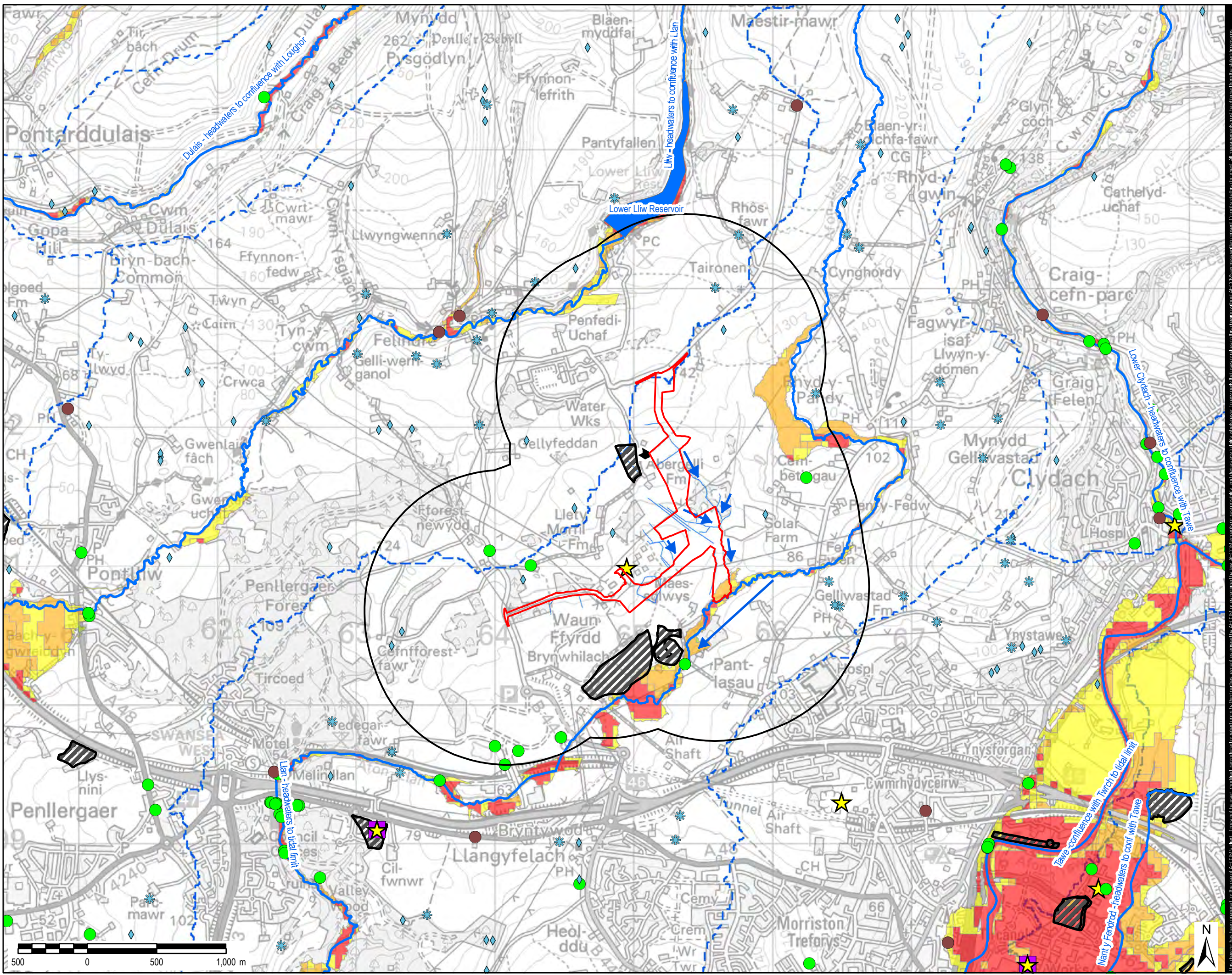
## ABERGELLI POWER PROJECT

Client:



### LEGEND

- Project Site Boundary
- 1 km Buffer
- \* Wells
- ◆ Springs
- ⬇ Disused adit
- Wales Incident Recording System (WIRS)
- National Incident Recording System (NIRS)
- ★ Historic Industrial Sites
- Industrial Sites
- NRW Historic Landfill Sites
- WFD Lakes
- WFD Rivers
- WFD SW Catchments
- Inferred Water Flow Direction**
- ➔ Surface Water
- Main River Flood Risk**
- High
- Medium
- Low
- Very Low



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Drawing Title:

### POTENTIAL POLLUTION SOURCES

Scale at A3: 1:25,000

Drawing No: FIGURE 9.6

Rev: 001

Drawn: Chk'd: App'd: Date:

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