



FIRE PREVENTION AND MITIGATION PLAN

**HEALTHCARE MANAGEMENT FACILITY
UNIT 3, CAPEL HENDRE INDUSTRIAL ESTATE
CAPEL HENDRE
AMMANFORD
CARMARTHENSHIRE
SA18 3SJ**

**Document Reference: NU1001/02.R1
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**Project Quality Assurance
Information Sheet**

***FIRE PREVENTION AND MITIGATION PLAN
NATURAL UK LIMITED HEALTHCARE MANAGEMENT FACILITY, CAPEL HENDRE
INDUSTRIAL ESTATE, AMMANFORD, CARMARTHENSHIRE, SA18 3SJ***

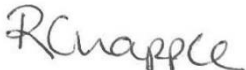
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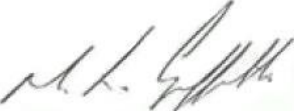
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FIRE PREVENTION AND MITIGATION PLAN

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1.0 INTRODUCTION

1.1 Scope

- 1.1.1 Sirius Environmental Limited (Sirius) has been commissioned by Natural UK Limited (Natural UK) to prepare a Fire Prevention and Mitigation Plan (FPMP) for their Healthcare Management Facility in Capel Hendre, Ammanford.
- 1.1.2 Following the determination of an Environmental Permit Variation Application (EPVA) on 21st July 2022, an Improvement Programme Condition (IPC1) was added to the permit whereby a written Fire Prevention and Mitigation Plan (FPMP) is required to be produced and submitted to Natural Resources Wales (NRW) within 3 months of the permit issue.
- 1.1.3 This document provides a structured framework approach in effectively preventing potential fires associated with the processing and storage operations at the site. This FPMP has been produced in accordance with Natural Resources Wales' Fire Prevention and Mitigation Plan Guidance (Guidance Note 16; Version 2.0, August 2017).
- 1.1.4 This FPMP meets the fundamental objectives of the FPMP Guidance as it demonstrates that the site can:
- Minimise the likelihood of a fire occurring.
 - Establish the protocols to ensure that a fire will be extinguished within 4 hours.
 - Minimise the spread of a fire within the site and neighbouring sites.
 - Identify and minimise the impact from emissions during or after a fire on the local community, critical infrastructure and the environment.
 - Identify the resources required by NRW and other emergency services and responders during an incident.
 - Operate a post-incident clean up and remediation strategy.
- 1.1.5 This FPMP has been structured in accordance with the NRW FPMP Guidance and considers the following relevant aspects of the facility:
- Managing common causes of fire
 - Preventing self-combustion
 - Managing waste storage
 - Preventing fire spreading
 - Quarantine area
 - Detecting fires
 - Suppressing fires
 - Firefighting techniques
 - Water supplies
 - Managing fire water
 - Actions during and after an incident
- 1.1.6 This FPMP is a 'live' document and will form part of the key environmental management documents for the facility. All monitoring procedures, responsibilities and compliance actions will be updated as and when required.
- 1.1.7 The facility comprises a healthcare management facility for a clinical and healthcare waste transfer station with treatment. The site is permitted to receive clinical and healthcare waste for storage, treatment and repackaging, followed by onward transfer to appropriately permitted facilities. Waste inputs may consist of source-segregated non-hazardous and hazardous clinical and

healthcare wastes. In line with guidance, this FPMP will only focus on the storage of combustible non-hazardous wastes.

- 1.1.8 The site building comprises a sealed drainage system and impermeable surfacing and the operational layout has been designed with cognisance to risks such as fires. The fire prevention and mitigation strategy presented in this plan has been developed on the most conservative scenarios posed by the operational layout design present at the site.
- 1.1.9 This document has been produced as a standalone document, with all documentation required appended. This FPMP forms part of the site's management system. As such, the requirements of this Fire Prevention and Mitigation Plan will be communicated to all relevant personnel on site and appropriate training will be provided where indicated as part of this FPMP. The FPMP will be accessible to staff at all times via hard copy (stored in the offices on site) and electronically.

2.0 SITE DETAILS

2.1 Site Setting

- 2.1.1 The site to which this plan relates is Natural UK Limited's Healthcare Management Facility, located off the B4297, near Capel Hendre, Carmarthenshire. The site is largely surrounded by industrial, commercial and agricultural land. The National Grid Reference (NGR) on which the site is centred is SN 59321 11017. Overall, the site extends to approximately 0.42 hectares (ha) and is rectangular in shape.
- 2.1.2 Entrance to and exit from the site is undertaken from an un-named road within the Capel Hendre Industrial Estate located off Heol Cwper (B4297) which runs c. 55m east of the site boundary. The site is secured by perimeter fencing (comprising steel wire mesh, steel palisade) and thick hedging which is frequently inspected and maintained for the prevention of unauthorised access. Access to the site is gained via two main vehicular gates on the eastern perimeter which are locked shut outside of operational hours (see **Section 2.2** for details of operational hours). CCTV cameras at the site also provide security and cover both internal and external site areas.
- 2.1.3 The geographical site location is depicted on **Drawing No.:NU1001/03/01**. The site is bound to the north by Prostone Interiors Ltd and to the east by grass, trees and shrubs, with the B4297 situated beyond. To the south of the site is an un-named road within Capel Hendre Industrial Estate and Aalco metal suppliers lies beyond this. The land to the west of the permit boundary is owned by the operator and beyond this lies Universal Customs motor vehicle dealer and a local café.
- 2.1.4 The site lies approximately 320m south southeast from Capel Hendre village centre and 3.8km south west of Ammanford town centre.
- 2.1.5 There are a number of residential properties located on Hendre Road that lie approximately 190m to the north of the site. There are also residential properties along Heol Lotwen and Heol Cwper which lie c. 270m north west and 490m south-southeast respectively.
- 2.1.6 There are seven Sites of Special Scientific Interest (SSSI) (several of which are designated due to the presence of the rare Marsh Fritillary butterfly [*Euphydryas aurinia*]) situated within 2km of the site boundary:
- Caeau Capel Hendre – c. 587m N
 - Caeau Lotwen – c.780m NW
 - Caeau Blaenau-Mawr – c. 1.1km NNE
 - Cae Gwynfryn – c.1.1km W
 - Felin Fach Meadows, Cwmgwili – c.1.3km SW
 - Broad Oak & Thornhill Meadows – c.1.5 MW
 - Caeau Ffos Fach – c.1.8km NW
- 2.1.7 There is also a Special Area of Conservation (SAC) located within 2km of the site; Caeau Mynydd Mawr, which is notified as three component SSSIs:
- Caeau Lotwen – c.780m NW
 - Broad Oak & Thornhill Meadows – c.1.5km NW
 - Caeau Ffos Fach – c.1.8km NW
- 2.1.8 The Caeau Mynydd Mawr SAC covers approximately 25 ha and is designated due to its central position within a wider area that sustains one of Wales' most

important populations of the Marsh Fritillary Butterfly (*Euphydryas aurinia*). Another contributing factor to its designation is the presence of valuable marshy grassland offering a mosaic of habitats including *Molinia* meadows on calcareous, peaty or clayey-silt-laden soils (*Molinia caerulea*) and unimproved neutral grassland.

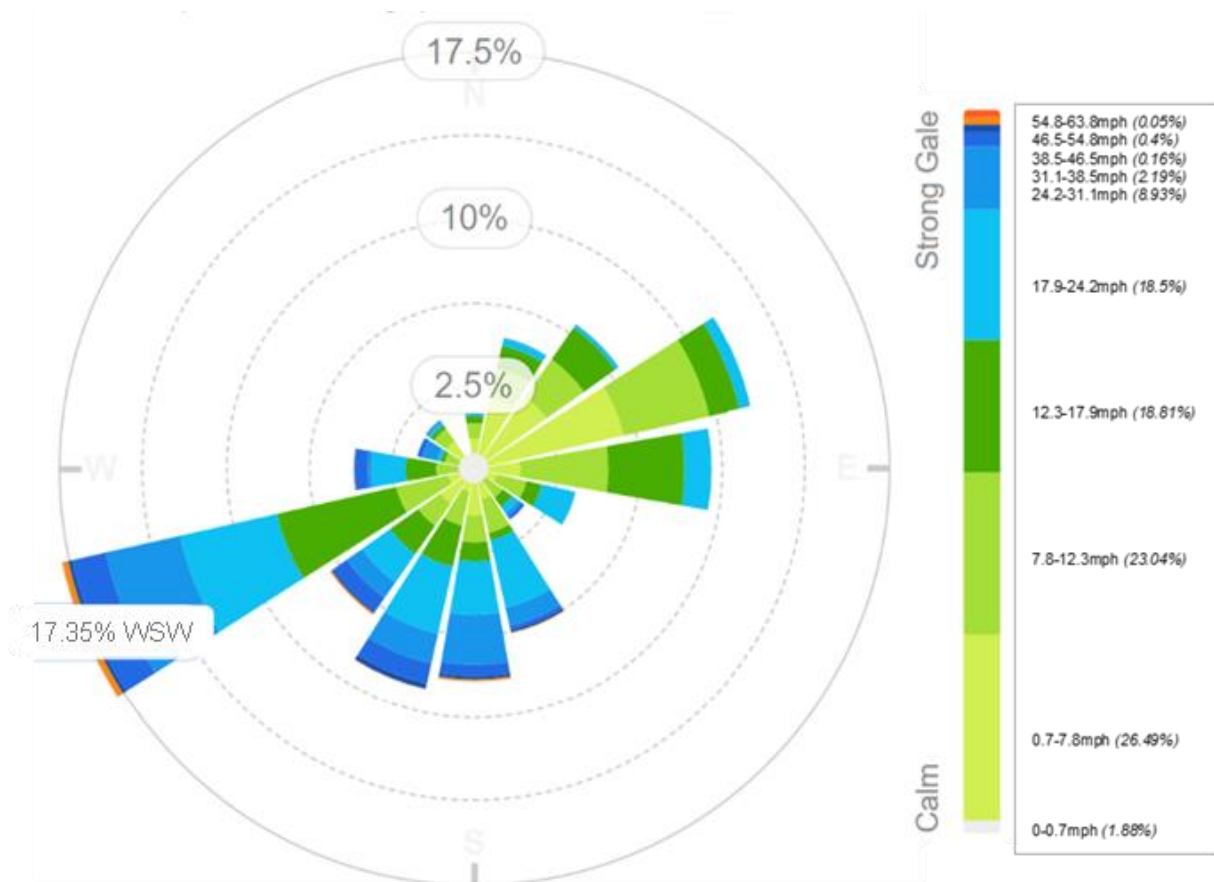
- 2.1.9 There are no Special Protected Areas (SPA), National Nature Reserves (NNR) or RAMSAR Sites within 2km of the site boundary. The site is not situated within an Air Quality Management Area (AQMA) or a Groundwater Source Protection Zone (SPZ).
- 2.1.10 According to NRW's National Flood Risk Map, the site is within Community ID: 4567 and lies within the river basin district of Western Wales. The flood source would be surface water and small watercourses and there is considered to be low to medium risk.
- 2.1.11 The site overlies a Secondary A bedrock Aquifer which are defined as permeable layers capable of supporting water supplies at a local rather than strategic scale. Generally, these aquifers were formerly classified as minor aquifers. The bedrock geology underlying the site consists of South Wales Middle Coal Measures Formation.
- 2.1.12 **Table FPMP1**, below provides a summary of the land uses in the areas surrounding the site.

Table FPMP1: Site Setting Summary

Direction	Description
North	<u>Immediate vicinity</u> : Industrial Premises <u>Within 500m</u> : Residential properties off Hendre Road, Saron Road and Lotwen Road. <u>Beyond 500m</u> : Residential properties, unoccupied land and agricultural fields.
North-East	<u>Immediate vicinity</u> : Industrial premises <u>Within 500m</u> : B4297 Coopers Road, Hendre Road, unoccupied land. <u>Beyond 500m</u> : Residential properties, Saron Primary School, unoccupied land
East	<u>Immediate vicinity</u> : Coopers Road <u>Within 500m</u> : Industrial premises <u>Beyond 500m</u> : Industrial premises, residential properties, unoccupied land.
South-East	<u>Immediate vicinity</u> : Coopers Road <u>Within 500m</u> : Industrial premises and unoccupied land and some scattered residential properties <u>Beyond 500m</u> : Residential properties on Coopers Road, unoccupied and agricultural land
South	<u>Immediate vicinity</u> : Industrial premises. <u>Within 500m</u> : Industrial premises, residential properties and agricultural / unoccupied land. <u>Beyond 500m</u> : Coopers road, Coopers village and residential properties, unoccupied land and agricultural fields.
South-West	<u>Immediate vicinity</u> : Industrial premises <u>Within 500m</u> : Industrial / commercial premises (e.g. Roberts Concrete), unoccupied land and agricultural fields. <u>Beyond 500m</u> : unoccupied land, woodland and agricultural fields
West	<u>Immediate vicinity</u> : Industrial premises <u>Within 500m</u> : Industrial premises, unoccupied land and agricultural fields <u>Beyond 500m</u> : Residential properties on Lotwen road, unoccupied land and agricultural fields.
North-West	<u>Immediate vicinity</u> : Industrial premises <u>Within 500m</u> : Industrial premises and residential areas <u>Beyond 500m</u> : Residential areas, unoccupied land and agricultural fields.

- 2.1.13 **Drawing No.: NU1001/03/04** illustrates the potential sensitive receptors within 1km of the site.
- 2.1.14 The closest meteorological recording station to the site is Pembrey Sands Meteorological Station, which lies approximately 23.6 km west-southwest of the site (International Civil Aviation Organisation (ICAO) Airport Code: EGOP) The National Grid Reference (NGR) for the Pembrey Sands station is SN 36598 04669. This weather station is deemed the most appropriate for use in order to characterise the site due to its proximity to the site. Wind patterns at the Pembrey Sands Station are likely to be similar to those experienced at the site.
- 2.1.15 Data from the Willy Weather wind data archive¹, for a 5-year period has been utilised for the Pembrey Sands Station in order to typify the meteorological conditions likely at the site. The wind rose, as shown by **Figure FPMP1** illustrates the percentage of wind vector that could be generated in each of the 16 points of a compass.
- 2.1.16 The wind rose indicates that the predominant wind directions are from the south-western quadrant, which makes up ~47.44% of the winds. It can be observed from **Figure FPMP1** that the wind will be blowing primarily from the west-southwest.

Figure FPMP1: Wind Rose for Pembrey Sands Meteorological Recording Station for a 5-year period (Source: Willy Weather)



¹ <https://wind.willyweather.co.uk/wl/carmarthenshire/capel-hendre.html> (Accessed October 2022)

2.2 Site Activities

- 2.2.1 Natural UK Limited's Healthcare Management Facility is located off Heol Cwper (B4297) in Capel Hendre, Ammanford, SA18 3SJ (National Grid Reference: SN 59321 11017). The site first received its Environmental Permit (EPR/DB3231RX) in November 2011. Since then, four permit variations have been determined by Natural Resources Wales (NRW), the last being in July 2022. The site's permit allows for the operation of a clinical waste transfer station with treatment and authorises the receipt of clinical and healthcare waste for storage, treatment and repackaging at the site, followed by onward transfer to appropriately permitted facilities. Waste inputs may consist of source-segregated non-hazardous and hazardous clinical and healthcare wastes. The indicative operational layout is shown in **Drawing No.: NU1001/03/03**.
- 2.2.2 The site operates for 24-hour periods from Monday to Friday. The site is not operational during bank holidays and typically, the site is not operational on Saturday and Sunday either. However, during times when the site is behind on waste processing and treatment targets, the site may operate on weekends also. During periods when the site is unmanned, the fire and smoke detection systems and alarms are monitored remotely by a third-party contractor. At all times the alarm system will send an automated alert to the site managers via a mobile phone based application in the event of an alarm being triggered. Outside of operational hours as well as the automated phone alert, the third party contractor monitoring the alarm system will also contact the site managers to ensure that they have been alerted. The site managers will have remote access to the site's CCTV system which covers both internal and external areas of the site. In the event that a fire is observed via CCTV the site managers will alert the emergency services and also attend the site themselves. This process will ensure that the response times are kept as low as possible in the event of a fire.
- 2.2.3 The maximum quantity of waste to be accepted at the site shall not exceed 40,040 tonnes per annum. A maximum of 10 tonnes per day of hazardous waste can be received, treated or repackaged for disposal. No more than 50 tonnes of hazardous waste shall be stored at the site at any one time for recovery and / or disposal. Pre-treatment of waste for incineration or co-incineration shall not exceed 75 tonnes per day under the R3 and R5 activities. Pre-treatment of waste for incineration or co-incineration for disposal shall not exceed 50 tonnes per day under the D9 activity.
- 2.2.4 Treatment operations currently include for the manual and/or mechanical sorting, separation, washing, screening, bailing, shredding, crushing, compaction and pelletisation of permitted wastes for the purposes of recovery or disposal. Mechanical treatment may include the use of bespoke equipment to wash and shred waste to aid physical separation and recovery. The recently determined EPVA permitted the addition of a new waste sterilisation process to treat infectious clinical waste (EWC waste codes 18 01 03* and 18 02 02*) as well as non-hazardous Absorbent Hygiene Products (AHPs) (EWC waste code 20 01 99). This new treatment comprises a self-contained unit which shreds and disinfects waste via microwave or heat treatment to produce material which can be recovered by separate recycling processes or used as Solid Recovery Fuel (SRF).
- 2.2.5 All activities on site are carried out within a building with an impermeable surface and a sealed drainage system which discharges to foul sewer via a trade effluent discharge consent with the Statutory Undertaker (Welsh Water). The permit does not allow any point source emissions into surface waters or

groundwater except clean surface water from roofs or from areas of the site that are not being used in connection with storing and/or treating waste. There is one point source emission to air at the site originating from the HEPA filters on the loading hopper of the recently added treatment process.

- 2.2.6 The permitted area consists of a series of linked steel portal framed buildings clad with sheet metal. The covered buildings are separated by steel clad walls into three main areas. The southernmost area contains warehouse storage for various Natural UK (non-waste) business activities. A small middle area contains the separate hazardous clinical waste transfer activities, and the largest northern area contains the non-hazardous absorbent hygiene product waste management activities. Each area has its own vehicle and pedestrian access doors. Attached to the southern area is a separate two-floor annex building that contains offices for Natural UK's administration. External to the main buildings is a heavy goods vehicle weighbridge and portacabins for office and welfare use. The site has a general downward slope from the west to the east. External areas are surfaced with a mixture of steel reinforced concrete, tarmac and limestone chippings hardstanding. All internal operational areas are surfaced with high strength, steel reinforced concrete (at a minimum thickness of 200mm) which is impermeable and capable of withstanding the weight of bulk waste vehicles, mobile plant and processing machinery. Both the internal and external surfaces have been constructed with materials suitable for the prevention of pollution to groundwater and surface water drainage.
- 2.2.7 All equipment and treatment processes are housed within a purpose-built building, with doors that only open to allow access and egress. This avoids the risk of fugitive emissions from the waste operations.
- 2.2.8 Waste will be delivered to the site following Pre-Acceptance checks. Once at the site, waste acceptance procedures and checks will be conducted, including inspections of the waste by the Weighbridge Operator. The Duty of Care documentation will be reviewed at this stage. Any unacceptable waste will be rejected and in the event that a smouldering / burning load is delivered to the site, this will be tipped onto the yard floor where possible and the Fire Rescue Service (FRS) will be notified. If the waste is found to be acceptable, delivery vehicles will be directed to the appropriate entrance to the site building in which the waste will be unloaded into the appropriate reception area for further inspection. If accepted, from there the waste will be taken to the appropriate storage area.
- 2.2.9 The waste storage areas are all within the site building and comprise one loose waste storage bay for absorbent hygiene products (AHP) (area G in **Drawing No.: NU1001/03/03**), and two storage areas for containerised waste. The containerised waste will be stored within 770 litre wheelie bins and will be located within the Clinical waste transfer station (CWTS) (area D in **Drawing No.: NU1001/03/03**) and the sterilisation treatment process area (area 3 in **Drawing No.: NU1001/03/03**). The containerised waste in the CWTS will comprise hazardous waste streams and will therefore not be considered as part of this FPMP in line with NRW Guidance. The sterilisation treatment process area is permitted to store and treat non-hazardous EWC waste codes as well as hazardous waste and will therefore be considered in this FPMP.
- 2.2.10 Natural UK's Healthcare Management Facility comprises a viable operation for the foreseeable future due to the waste types treated and transferred there. It is considered that owing to the nature of the waste it is very unlikely that there would be supply chain or end user issues. However, in the event that an issue was experienced the site would establish the best solution, such as temporarily

suspending disposal or recovery options to ensure that site limits (such as storage limits) were not exceeded.

3.0 FIRE PREVENTION PLAN

3.1 Introduction

3.1.1 This Fire Prevention and Mitigation Plan (FPMP) has been developed to assess the risk of fire on site and to detail the measures in place to prevent, detect, suppress, mitigate and contain fires. It has been prepared with consideration given to the measures stipulated within the Natural Resources Wales' Fire Prevention Guidance. This FPMP identifies areas of fire risk posed by the proposed permitted operations and details how those risks are to be mitigated to ensure that the likelihood of a fire event is reduced as far as practicable. In addition, this FPMP also details what actions should be taken in the event of a fire to limit the damage caused to the environment and human health. As such, in accordance with NRW Guidance, the objectives of this FPMP are to:

- Minimise the likelihood of a fire occurring.
- Establish the protocols in place at the site to ensure that a fire will be extinguished within 4 hours.
- Minimise the spread of a fire within the site and neighbouring sites.
- Identify and minimise the impact from emissions during or after a fire on the local community, critical infrastructure and the environment
- Identify the resources required by NRW and other emergency services and responders during an incident.
- Outline the post-incident clean up and remediation strategy.

3.1.2 All staff and contractors working on site will understand the contents of the FPMP where it is applicable to their role and what they must do during a fire.

3.1.3 A copy of the FPMP will be kept in the Site Office and all staff will be aware of where it is kept.

3.1.4 Quarterly reviews and exercises will also be carried out to test how well the plan works, and that staff understand what to do as part of their daily role to prevent fire and what must be done in the event of a fire. These exercises will include refresher training and fire drills.

3.2 Control of Potential Causes of Fire

3.2.1 **Table FPMP2**, below, identifies common causes of fire and the measures that Natural UK will take to reduce the risk. Furthermore, a risk assessment has been prepared and is included as **Appendix FPMP1**.

Table FPMP2: Control of Potential Causes of Fire

Source of Fire	Applicability to Site and Proposed Management Controls	Residual Risk
Arson	The site has a perimeter fence which will be routinely inspected to ensure that the site security has not been compromised. The site is well lit and secured. All wastes are securely stored within a building CCTV monitoring of the external and internal areas of the installation will be in place as a security measure. Signs will be present on perimeter fencing and the	VERY LOW

Source of Fire	Applicability to Site and Proposed Management Controls	Residual Risk
	access gate to advertise the presence of CCTV to deter unauthorised access to the site. Any fire would be identified quickly by the site's visual inspection procedure and fire detection equipment. The site is typically operational 24 hours per day, five days per week, with waste deliveries only occurring in daytime hours Monday – Saturday. The site is also sometimes operational on weekends. Therefore, staff presence on site will form an additional security measure and deter any unauthorised access and potential arson. The fire and smoke detection systems and alarms send automated alerts to site managers via a mobile phone-based application. In addition, the alarm systems are monitored remotely by a third party contractor when the site is unmanned who will contact the site managers in addition to their mobile phone alert. The site managers will access the CCTV live feed of the site and in the event a fire is observed, they will contact the emergency services and attend the site themselves. This process will ensure that the response times are kept as low as possible in the event of a fire.	
Visitors and Contractors	All visitors and contractors at the site will be informed of the safety procedures and protocols at the site during a site induction. Visitors and contractors will follow the correct safety and fire prevention procedures. Fire prevention messages will be reinforced around the site via signage.	VERY LOW
Plant and Equipment	The site has a regular inspection and maintenance programme (in line with manufacturer recommendations) which identifies any electrical or mechanical machinery faults which could result in a machinery fire. When not in use, mobile plant and equipment will be parked in the three main areas of the site; with one item of machinery per area (as shown in Drawing Ref.: NU1001/03/06). This area is an appropriate distance away from combustible waste storage areas. All machinery will be visually inspected during the daily Operations and Maintenance checks. Machinery will be regularly cleaned to remove any dust, wood etc to ensure that this does not accumulate on moving parts. Site vehicles are not fitted with fire extinguishers however, numerous fire extinguishers (around 14) are located within the site building (as shown in Drawing No.: NU1001/03/06) and the potential for sparks will be regularly monitored by site staff. Bucket loaders will be fitted with rubber strips to prevent sparks when the bucket comes into contact with hardstanding etc.	VERY LOW
Electrical Faults Including Damaged or Exposed Electrical Cables	The risk of damaged or exposed electrical cables is controlled via the regular inspection and maintenance programme. Any electrics on site are fully certified by a qualified electrician.	VERY LOW

Source of Fire	Applicability to Site and Proposed Management Controls	Residual Risk
Discarded Smoking Materials	Staff and visitors are only permitted to smoke within a designated area, which is located away from the site building. There is strictly no smoking permitted within the operational area where waste is stored or handled.	VERY LOW
Hot Works	The following procedures will be carried out when "hot work" (i.e. maintenance/repair) is being carried out on site: - All staff and contractors will be required to operate under strict 'Permit to Work' systems and follow safe working practices when undertaking any hot working such as welding and cutting. - Fire extinguishers will be provided at the scene of any hot work so that they can be used immediately should a fire occur. The extinguishers will be stationed adjacent to the pathway of escape from the work area and not in a place where staff using them could be trapped by a fire. - Any hot work in areas where wastes or other combustible materials are present, a minimum 6m 'safe' area will be cleared and all work will be designated as a two-person job. One person doing the hot work and a second acting as a fire watch. - As far as practical, wastes will be cleared away from the area of any hot work before hot work starts. - Potentially combustible materials, including mobile plant hydraulic lines, will be covered by a fire blanket and/or damped down with water as appropriate before hot works start. - A fire watch will be conducted at the scene of any hot work for at least one hour after hot work has finished as sparks from hot works can smoulder for a significant time period.	VERY LOW
Industrial Heaters	No industrial heaters will be used on site.	N/A
Plant and Hot Exhausts	There will be a scheduled maintenance and inspection programme for areas of the site. This process will specifically ensure that all plant (fixed or mobile) is maintained at a sufficient level of cleanliness and housekeeping to ensure that the plant does not present a fire risk. This programme will aim to keep levels of dust, loose fibre and any other combustible materials on or around hot exhausts to a minimum. While site vehicles and mobile plant are not fitted with fire extinguishers, numerous fire extinguishers (around 14) are located within the site building (as shown in Drawing No.: NU1001/03/06) and the potential for sparks will be regularly monitored by site staff. In the event of a formal plant "shut-down" or once operatives are finished using mobile plant, such as a loading shovel, there will be a complete inspection of	VERY LOW

Source of Fire	Applicability to Site and Proposed Management Controls	Residual Risk
	the site after the work has ceased to reduce the risk of a smoulder being undetected and turning into a fire. The procedure will address issues such as: - Ensuring that any flammable materials such as fuels have been secured. - Check that mobile plant has been moved to a safe distance away from combustible material. - Check that fire detection systems are still active and monitoring the appropriate areas. - Check that all security systems are still active and monitoring the appropriate areas. The site will be monitored visually during operational hours by site staff, which will typically be 24 hours per day Monday – Friday (and occasionally on weekends in addition).	
Ignition Sources	No routine aspect of the plant or processes requires the use of any naked flames. Any ignition sources as part of non-routine activities on site will be subject to permit to work. Any such works will be kept at least 6 metres away from the stored waste on site.	VERY LOW
Leaks and Spillages of Oil and Fuels	The prevention of fuels and oil leaking out from site vehicles will be achieved by the regular inspection and maintenance programme. If there are any leaks, the regular inspections allow this to be dealt with straight away. The programme will specifically ensure that all site vehicles and mobile plant are maintained to a standard in line with manufacturers' recommendations to prevent fuels and combustible liquids leaking or being tracked around the site. Any identified faults will be recorded and repaired by a fully certified mechanic. Spill kits will be provided throughout the site. All staff will be trained on how to use the spill kit as well as the procedures to carry out in the event of a spillage. Spill kits will be replenished as soon as possible following use. The absorbent materials used to prevent a spill or leak from spreading will be correctly disposed of at an appropriate facility to reduce the risk of a pollution or fire incident where spilled liquids are combustible.	VERY LOW
Build-up of Loose Combustible Waste and Dust	The site will have a regular inspection and maintenance programme which will identify any build-up of wastes and dust on site surfaces and aim to assess the general site condition. The results of these inspections and monitoring will be recorded on the 'Daily site inspection sheet'. This programme will specifically ensure that all areas of the site are maintained to a sufficient level of cleanliness and housekeeping to ensure that the plant does not present a fire risk. This programme will aim to keep levels of dust, loose fibre and any other combustible materials to a minimum. Machinery is regularly cleaned to remove any dust etc to ensure that it does not accumulate on moving parts. The site is inspected at least twice a day in accordance with the sites inspection procedure. Any	VERY LOW

Source of Fire	Applicability to Site and Proposed Management Controls	Residual Risk
	build-up of waste and dust would be identified during the inspection. If any dust etc was identified then the area would be immediately cleaned (swept, dampened down, blown down etc). Additionally, at the end of every shift the operational areas of the site will be cleaned. All inspections are logged on the Site Walkover Inspection Form. All forms are stored in the site office.	
Reactions Between Wastes	All waste received at the site will be assessed and characterised prior to delivery to the site. Any non-conforming waste will be segregated and quarantined via storage in an appropriate container separate from other waste types.	VERY LOW
Hot Loads	Natural UK Limited do does not receive hot loads.	N/A
Self-Combustion	Owing to the nature and relatively small volumes of waste stored in each container in the CWTS storage area and the sterilisation treatment storage area, there is low risk of self-combustion. Loose waste stored in the AHP bay will conform to NRW fire prevention guidance on maximum pile width and height as well as storage duration. Furthermore, both the loose and containerised waste is stored internally and not in direct sunlight which reduces the risk of heating. In the event waste is observed to be hot or smouldering / burning within a container, the surrounding containers will be moved to the external yard quarantine area (Drawing No.: NU1001/03/06). Moving containers which aren't burning is the safest option for site staff and will prevent the fire from spreading across containers. The burning container will be doused in water or via a fire extinguisher to stop the fire; whichever option is appropriate for the waste type. Similarly, in the event the loose waste pile is observed to be smouldering or burning, on site fire extinguishers and / or hoses will be used to douse the fire and prevent spreading (whichever option is appropriate for the waste type) until the FRS arrive. The FRS will be notified immediately of all fire events on site.	VERY LOW

3.3 Preventing Self-Combustion

Managing Storage Times

- 3.3.1 All incoming vehicles will be directed from the weighbridge to the WTS building. The waste will be unloaded directly into the appropriate enclosed reception area within the building. Containerised waste will be inspected within the containers, if the waste is considered acceptable, the containerised waste will be transferred to the appropriate storage area. The absorbent hygiene product (AHP) waste will be unloaded into a tipping area for inspection and once deemed acceptable will be transferred to the associated storage bay. These steps are all carried out internally within the site building. There are three storage areas within the WTS building, **Table FPMP3** summarises their maximum capacities as well as the maximum storage durations.

Table FPMP3: Maximum Storage Bay / Area Capacities and Storage Duration Periods

Waste Description	Maximum Storage Capacity	Typical Storage Period	Maximum Storage Period
Nappicycle AHP Loose Waste Stockpile Bay (Area G)	240 m ³	2 weeks	3 months
Clinical Waste Transfer Station (Area D)	94 x 770 litre wheelie bins	1 week	3 months
Sterilisation Treatment Process Storage (Area 3)	20 x 770 litre wheelie bins	1 - 2 weeks	3 months

- 3.3.2 It should be noted that while the maximum available capacity of the Clinical Waste Transfer Station storage area for allows for the storage of up to 94 770 litre wheelie bins, typically less than 50 bins will be stored here at any one time. Similarly, it is expected that typically between 9-12 wheelie bins (with a 770 litre capacity each) will be stored within the designated area for the sterilisation treatment process. The CWTS storage area will comprise hazardous waste which will not be considered in this FPMP in line with NRW Guidance. The Sterilisation treatment process storage area is permitted to store both hazardous and non-hazardous waste, therefore, this area will be considered in this FPMP for times when non-hazardous waste is stored.
- 3.3.3 The storage durations listed above in **Table FPMP3** are in line with Table 1 'maximum storage times' in NRW Guidance Note 16 'Fire Prevention and Mitigation Plan Guidance – Waste Management' (Version 2.0, August 2017). The stored waste at site will comprise non-shredded waste whose particle size has not been reduced as it is awaiting treatment. According to NRW Guidance, this waste type should have a maximum on site storage time of 6 months. The site also comprises stored shredded and similarly treated wastes which should have a maximum storage time on site of 3 months. Natural UK ensure that no waste on site is stored for more than 3 months.
- 3.3.4 The Nappicycle Absorbent Hygiene Product storage bay (Area G in **Drawing No.: NU1001/03/03**) is the only storage bay containing non-hazardous loose waste on site. The bay comprises pre-cast concrete 'Lego blocks' on three sides and is open fronted. The bay measures 9m x 6.6m, giving an area of 60m² and waste is stored to a maximum height of 4m (giving a maximum storage capacity of approximately 240 m³). There is no requirement for a 1m freeboard as the bay does not neighbour another storage bay/area containing combustible materials. Consequently, the risk of flames overtopping the bay wall and spreading a fire across other waste storage areas is negligible. The waste storage height of 4m complies with the maximum waste height for loose waste stacks of 4m as stipulated by NRW Guidance.
- 3.3.5 The storage bay will be utilised to store absorbent hygiene products which will be categorised as non-hazardous as part of the pre-acceptance checks. The CWTS storage area will comprise containerised clinical waste classified as hazardous and will therefore not be considered as part of this FPMP. The sterilisation treatment process area is permitted to treat and store both hazardous and non-hazardous waste, therefore this area is considered in this FPMP for times where non-hazardous waste is stored. The maximum storage duration of 3 months and the containerisation of waste reduces the risk of "older" material from self-heating and practically eliminates the potential for thermal build up and self-combustion.
- 3.3.6 Natural UK Limited will track material flow through the site to ensure that the storage times specified in this plan are adhered to. All material is processed

through the site on 'first in – first out' principles. The Site Operations Manager or nominated deputy will be responsible for managing the rotation of waste. Any cleared sections of the bays / areas will be swept and / or shovelled to minimise the build-up of residual waste. Stock rotation of the storage bay / storage areas and sweeping / shovelling of cleared areas will ensure that older waste is not overtipped by new waste; this will uphold the first in – first out principles at the site.

- 3.3.7 In the event that the primary route for onward transfer of any wastes is not available, the waste will be diverted to alternative authorised facilities.
- 3.3.8 A twice daily review of the facility building will be made by the Site Operations Manager as part of the daily site Operations and Maintenance Inspections. These checks are aimed at reviewing the general housekeeping and identifying any risk sources etc. The end of shift daily check sheet is included as **Appendix FPMP2**.
- 3.3.9 Waste will be received and accepted in accordance with Natural UK's established waste acceptance and rejection procedures.

Monitor and Control Temperature

- 3.3.10 As waste will typically be stored for 1-2 weeks in the various storage areas (as outlined in **Table FPMP3**, and will not be stored for more than 3 months, in line with NRW guidance, there is no requirement to monitor the internal temperature of stored waste. The risk of hotspots occurring is very low due to the typical storage duration consisting of a matter of days or weeks (<1 - 2 weeks) owing to the nature of the waste. All waste being imported / treated is checked at appropriate intervals, with daily observations and checks completed across the whole site. In the event that waste is stored for more than 2 weeks, the waste will be turned and checked for any heat being generated. Generally, processed waste is most likely to be kept on site for the longest period. The majority of waste stored at the site (with the exception of the AHP loose waste stockpile) is bagged and stored in 770 litre wheelie bins, which significantly reduces the risk of hotspots forming as smaller waste quantities are stored together and will not be highly compacted. Owing to the low risk of heat generation from the waste and the checks and procedures that will be in place, it is considered unnecessary for the site to employ equipment such as temperature or moisture probes to check waste piles. Furthermore, the 'first in – first out' principles at the site as well as stock rotation and cleaning / sweeping of empty storage areas will ensure that new waste will not be overtipped onto old waste.
- 3.3.11 The fire detection systems on site would immediately identify any internal fires, which in turn would trigger the automated alarm system to alert site staff and the FRS will be alerted immediately. For non-hazardous containerised waste, once alerted to a fire, if safe to do so, staff will move surrounding containers which are not smouldering / burning to the external yard quarantine area (shown on **Drawing No.: NU1001/03/06**). Moving containers which aren't burning is the safest option for site staff and will prevent the fire from spreading across containers. The burning container will be doused in water or via a fire extinguisher to stop the fire; whichever option is appropriate for the waste type. For the non-hazardous waste stockpile, fire extinguishers and water hoses (connected to a site mains water connection) will be used to manage the fire until the FRS arrive at the site.
- 3.3.12 A trained and qualified site operatives will carry out a daily visual inspection on site to ensure that the site building is being managed correctly and will conduct

basic visual checks to confirm that all detection and suppression equipment (i.e. fire extinguishers) are operating and in place.

- 3.3.13 The above measures meet the expectations defined within NRW's Fire Prevention and Mitigation Plan Guidance.

3.4 Management of Waste Piles

Maximum Pile Sizes

- 3.4.1 The proposed non-hazardous loose waste pile size is to be significantly lower than the maximum pile sizes stipulated in the FPMP Guidance. The loose waste storage bay (in Area G of **Drawing No.: NU1001/03/03**) is constructed from pre-cast concrete 'Lego blocks' on three sides. The maximum storage capacities and durations are summarised in **Table FPMP3**.
- 3.4.2 The site manager or nominated deputy will conduct visual inspections of the site twice daily to ensure that the waste pile size is in line with the bay maximum capacity.

3.5 Prevention of Fire Spreading

Separation Distances

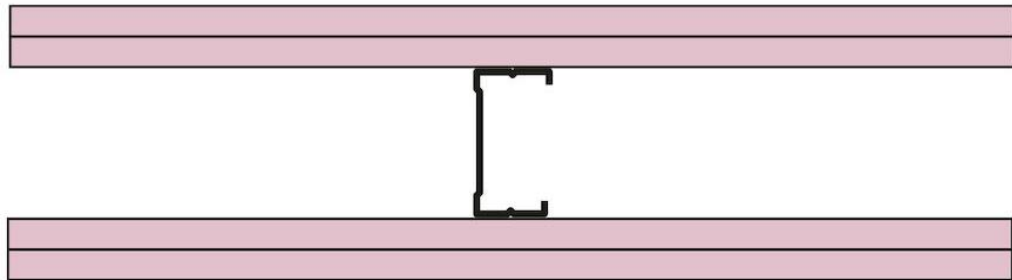
- 3.5.1 All plant and machinery will be parked at a minimum of 6m from the waste storage areas when not in use. The location of the internal storage area for plant and machinery is shown in **Drawing Ref.: NU1001/03/06**.

Fire Walls and Bays

- 3.5.2 The rear and sidewalls of the non-hazardous waste storage bay is constructed with 4m high pre-cast concrete 'Lego blocks' which give the fire wall a thickness of 600 mm. Owing to their considerable thickness and composition, the pre-cast units will have a fire resistance period of at least 120 minutes to allow the waste to be isolated. The rear and side firewalls of this bay were constructed in line with the manufacturer's installation requirements and recommendations.
- 3.5.3 It is not considered necessary for a 1m freeboard to be implemented in the loose waste storage bay as it does not neighbour another storage bay, therefore the risk of flames over topping the wall and spreading to another storage bay is negligible.
- 3.5.4 A trained site operative will carry out a visual inspection of the site twice daily in accordance with the site Operations and Maintenance procedures to ensure that the AHP stockpile is being managed correctly and in line with the Fire Prevention Plan.
- 3.5.5 The storage area comprising non-hazardous containerised waste (Area 3 in **Drawing No.: NU1001/03/03**) is not currently operational, however, prior to the commencement of the process a fire wall will be installed against the corrugated steel walls dividing areas C and D as shown in **Drawing No.: NU1001/03/06**. A firewall is required here as the current dividing wall is not fire resistant and the waste stored in Area 3 is within 6m of the hazardous waste storage in the CWTS (Area D). This will render the risk of fire spreading to low.

- 3.5.6 The firewall dividing the new treatment area and the CWTS (areas C and D on **Drawing No.: NU1001/03/06** respectively) will be comprised of two layers of Siniat's Gtec Fire Board (15mm thickness each) followed by 600mm Metal C studs at the centre and a further two layers of Gtec Fireboard (15mm thickness each)². This is illustrated in **Figure 2**, below. The fire performance of this firewall is in line with BS476-22 and will offer a fire resistance period of 120 minutes. This wall will be constructed in line with the manufacturer's installation requirements and recommendations.

Figure 2: Siniat C Stud System RFP 045 Firewall Diagram



3.6 Quarantine Area

- 3.6.1 An area of 145m² is available in the external yard to provide a fire quarantine area to support fire-fighting capability. In the unlikely event that a fire were to break out within one of the containers storing non-hazardous waste internally, the surrounding containers would be moved (if safe to do so) to the external quarantine area to prevent the fire from spreading. The fire within the container would then be extinguished via water dousing or fire extinguishers. The FRS will be contacted during any fire related incidents at the site. The fire quarantine area will be at least 6m from vehicles and other infrastructure, including the site building. Owing to the limited storage duration time, it is considered unlikely that non-hazardous loose waste in the storage bay would self heat. In the event that smouldering or burning was observed in the non-hazardous loose waste storage bay, if safe to do so, surrounding waste will be transferred using a wheel loader and spread across the quarantine area while the smouldering waste is doused with water via hoses or fire extinguishers.
- 3.6.2 The location of the fire quarantine area is identified on **Drawing No.: NU1001/03/06**. This area is more than capable of accommodating 50% of the largest combustible loose waste pile size of 240m³, and the storage area for non-hazardous containerised waste of ~15m².

3.7 Detecting Fires

- 3.7.1 An automatic fire alarm system is installed at the site in the treatment facility part of the building as well as the site welfare and office areas of the building. The treatment facility buildings also have manual call points installed. The site has a Prem 48 panel type with 40 active zones.
- 3.7.2 Fire alarms are tested weekly in line with British Standard BS5839. During these tests, at least one fire alarm call point will be activated to check that the alarm sounds and that the panel received the signal. The fire alarm system will be inspected and maintained / serviced by a third party at least once every 6 months (in line with British Standard BS 5829).

² Source: <https://www.siniat.co.uk/en-gb/products-and-systems/systems/partition-systems/rfp-045/>

3.7.3 Electronic sounders and flashing hazard lights are utilised throughout the facility to raise an alarm.

3.7.4 The fire and smoke detection systems and alarms will send an automated alert to the site managers' mobile phones via an application when the alarms are triggered. Outside of operational hours when the site is unmanned (for example, on weekends or bank holidays), in addition to the automated alert, a third-party contractor will remotely monitor fire and smoke detection systems and alarms and will contact site managers if an alarm is activated at the site. The site managers will have remote access to the site's live CCTV feed which covers both internal and external areas of the site. In the event that a fire is observed via CCTV, the site managers will alter the emergency services and also attend the site themselves. This process will ensure that the response times are kept as low as possible in the event of a fire, particularly when the site is unmanned.

3.8 Suppressing Fires

3.8.1 The site has a mains water connection and multiple hoses on site that will be used if required for tackling small fires. There are also 14 handheld fire extinguishers on site situated in strategic locations within the site building that will be used to suppress and / or extinguish fires while until the FRS arrive on site to deal with the event. The operator is also in the process of sourcing fire extinguisher balls for use on site where applicable in the event of small fires.

3.8.2 The locations of the mains connection and fire extinguishers on site is shown in **Drawing No.: NU1001/03/06.**

3.8.3 In the event that a large fire occurs on site, there are three water hydrants within 100m of the site building which the FRS can connect to.

3.9 Fire Fighting Techniques

3.9.1 The site has been designed in order to allow active firefighting.

3.9.2 Upon identifying or being made aware of a fire, the site manager, or nominated deputy on site at the time of the incident, will raise the alarm, alert all present on site to the fire and its location and alert the emergency services.

3.9.3 The site will be evacuated in accordance with the site evacuation plan with the exception of those staff involved in active firefighting.

3.9.4 All staff, contractors and visitors would follow the Fire Evacuation procedure as included in **Section 3.10** below.

3.9.5 Trained staff will only tackle the fire using the fire extinguishers if it is safe to do so, and only in relation to small scale fires.

3.9.6 Machinery on site including telehandlers can be used, if safe to do so, for firefighting. For example, such machinery will be utilised to move waste to allow better access to a fire for the FRS and telehandlers may also be used to move and spread burning waste to allow water dousing to tackle the fire. It is considered that the distance from the driver to the bucket loader on the telehandlers would be sufficient to ensure safety.

3.9.7 The use of mobile water bowsers will not be implemented at the site as it is considered that the fire extinguishers located at 14 points across the site as well as water hoses connected to the site's mains water connection will be appropriate for tackling small fires and suppressing larger fire outbreaks.

Furthermore, there is ample firewater supply provided by water hydrants located close to the site that will enable the FRS to tackle a fire more effectively and efficiently than using mobile bowzers. Measures such as the use of soil, sand, crushed brick or gravel will not be implemented as such material is not readily available at the site owing to the nature of the wastes handled by the facility.

- 3.9.8 The installation of a fire suppression system (such as an automated sprinkler system) is not considered necessary for the site as the site will be manned 24 hours per day Monday – Friday and some weekends which will enable rapid identification and action in the event of a fire. As aforementioned, there are smoke and fire detectors and alarms on site, and an internal and external CCTV system which site managers can access outside of operational hours (weekends and bank holidays) in the event an alarm is raised to check for signs of fire and enable a efficient response by the FRS. There will be fire extinguishers suitable for all permitted waste types in 14 locations across the site, as well as hoses connected to the mains water connection at the site. Local water hydrants will also supply ample firewater for the FRS to use when firefighting. Furthermore, owing to the fact that the vast majority of the waste on site is containerised (stored in 770 litre bins; and therefore stored in smaller quantities which will enable more effective suppression and extinction of fires, particularly when coupled with fast detection), and much of the waste is of a hazardous designation that a sprinkler system would not be required or appropriate at the site. In summary, the key to firefighting at the site will be early detection and quick response to ensure minimal fire spread, as further outlined in the paragraphs below.
- 3.9.9 The Site manager or nominated deputy and site fire marshals will be responsible for ensuring that all personnel, visitors and sub-contractors are accounted for, and to give the Emergency Services that information on arrival.
- 3.9.10 All personnel working on site will be provided training in the FPMP and all associated procedures and controls, via site induction training, via on site 'tool box talks' or third party training as appropriate. Follow on 'tool box talks' are scheduled to refresh training.
- 3.9.11 The FPMP training will be provided to all new starters and temporary employees working at the site. FPMP refresher training will be carried out to all personnel at least annually.
- 3.9.12 In the event of a fire which has unsuccessfully been extinguished by the use of water hoses and / or fire extinguishers maintained on site, staff are to await the arrival of the Fire and Rescue Service (FRS), who would then take the appropriate actions.
- 3.9.13 The FRS will be contacted by site staff during operational hours which will typically be 24-hours per day Monday to Friday with occasional operation on weekends. The fire and smoke detection systems and alarms will send an automated alert to the site managers' mobile phones via an application when the alarms are triggered.
- 3.9.14 Outside of operational hours when the site is unmanned (for example, on weekends or bank holidays), in addition to the automated alert, a third-party contractor will remotely monitor the fire and smoke detection systems and alarms and will contact site managers if an alarm is activated at the site. The site managers will have remote access to the site's live CCTV feed which covers both internal and external areas of the site. In the event that a fire is observed via CCTV, the site managers will alert the emergency services and also attend the site themselves. This process will ensure that the response times are kept

as low as possible in the event of a fire, particularly when the site is unmanned. The indicative FRS Travel Times are included in **Appendix FPMP4**; there are 11 Fire Stations located within a 30-minute radius (drive time) of the site. During operational hours, the FRS will be able to gain access to the site via the main entrance as staff will be on site. The site manager will provide the FRS with site access and deploy the drain covers and sandbags to manage spent firewater. Site staff will be trained on the procedure for containing fire water, the location of water connection points, the use of the Incident Response Plan (**Appendix FPMP5**) and other relevant information with the aim to aid the FRS in their response. The Incident Response Plan and staff training will be reviewed and updated regularly to ensure reliability and that the procedures remain appropriate.

3.9.15 An 'Emergency Information Pack' will be stored in the site offices, as well as externally at the weighbridge office, the location of which is shown in **Drawing No.: NU1001/03/06**. This pack will contain the Incident Response Plan (**Appendix FPMP5**), the Emergency Contact List (**Appendix FPMP 4**) and drawings including the Fire Prevention and Mitigation Infrastructure Plan (**Drawing No.: NU1001/03/06**), the Water Hydrant Plan (**Drawing No.: NU1001/03/05**) and the Sensitive Receptors Plan (**Drawing No.: NU1001/03/04**). This will give site operatives and the FRS key information to aid in tackling a fire, including but not limited to the location of fire extinguishers, water hydrants, fire exits, the fire assembly point, pre-filled sandbag storage (for diverting firewater), the external fire quarantine area and emergency contacts and potential sensitive receptors.

3.10 Fire Evacuation

- 3.10.1** Fire evacuation points are located at numerous points in the building and are clearly signposted. Fire exits and the fire assembly point are shown on **Drawing No.: NU1001/03/06**.
- 3.10.2** Site rules are reinforced via use of fire drills and planned response scenarios.
- 3.10.3** All personnel are to follow the instructions of the Fire Wardens and the Site Manager.
- 3.10.4** A list of trained Fire Wardens is maintained and displayed at the site, together with a list of on call staff to attend the site in the event of a fire on the rare occasion that the site is closed. An emergency contact list is included as **Appendix FPMP4**.
- 3.10.5** The Fire Evacuation Procedure is provided to staff, contractors and visitors which states:
- On discovery of a fire, immediately operate the fire alarm by pressing the nearest break glass call point and / or contact the Site Manager via a radio to ensure the alarm is raised.
 - Fire Wardens and staff must only tackle a fire if they are trained to do so, the equipment is appropriate and if their safety or that of others is not compromised.
 - Leave the building / work area by the nearest available exit / safe route and report directly to the assembly point located at the main office.
 - Leave quickly but in a calm, controlled and orderly manner. Do not detour to collect personal items.
 - Do not re-enter the building / work area for any reason until authorisation has been given by the Site Manager / Fire Brigade.

- The Site Manager will assess the situation and call the Fire and Rescue Service if required.

3.10.6 This document is reviewed and updated annually, or sooner if required. The document details all hazards and the control measures that are in place and / or required to prevent fires.

3.11 Water Supplies

3.11.1 There is a standard mains water connection at the site which offers a continuous supply of water. This connection can be utilised to tackle and suppress small fires at the site via hoses, however, it does not have a connection point suitable for the FRS. There are four water hydrants located within 100m of the site boundary (all of which are fed by 6" diameter mainlines, with the exception of one hydrant to the north of the site which is fed by a 4" main line connection). Three of the hydrants are within 100m of the site building (all of which have 6" connections), the locations of these in relation to the site are shown on **Drawing No.: NU1001/03/05**. Welsh Water have confirmed that these hydrants meet the British Standard 750 and would be appropriate for use by the Fire Rescue Service in the event of a fire.

3.11.2 In accordance with the guidance, the site needs enough water supply for a worst-case scenario, which is considered as the largest pile on site catching fire. Calculations have been done for the non-hazardous loose waste stockpile on site as it is considered that owing to the other non-hazardous waste being stored in containers, fire breakouts would be confined more easily initially and therefore, less water would be needed to douse a fire within a container. The guidance specifies that for a 300m³ pile of combustible material you must have a water supply of at least 2,000 litres a minute for a minimum of 3 hours. Based on the maximum proposed loose waste pile size of 240m³ the estimated quantity of water likely to be required to extinguish a fire involving this pile is 288 m³. The calculations for the firewater supply requirements are shown below:

$$\begin{aligned} 2,000 \text{ (litres per minute)} \div 300 \text{ (m}^3\text{)} &= 6.6667 \text{ l/min/m}^3 \\ 240 \text{ (m}^3\text{)} \times 6.6667 &= 1,600 \text{ (litres/min)} \\ 1,600 \text{ litres/min} \times 180 \text{ mins} &= 288,000 \text{ litres (288m}^3\text{)} \\ \mathbf{288,000 \text{ litres of firewater required}} \end{aligned}$$

3.11.3 Owing to the mains supply on site for small fires and the three hydrants within 100m of the site building which have suitable connection points for the FRS in the event of larger fires, there will be more than enough water supply at the site in the event of a fire.

3.11.4 The spent firewater will be kept on site via Kerbing, sandbags and drain covers. Kerbing is present to the south of the building and in the event of a fire sandbags will be deployed on the eastern edge of the site and the access points to prevent the egress of contaminated water from the site. Drain covers will also be deployed to prevent the drainage of such waters into the foul sewer system. The firewater will be tested for characterisation prior to being pumped, tankered and transferred to an appropriate facility for treatment and / or disposal. The drain covers will be stored at the site near the main shutter doors for easy access (the spill kits will also be stored in this location). Pre-filled sandbags will be stored in the warehouse. These storage locations are shown on **Drawing No.: NU1001/03/06**.

3.12 Managing Fire Water

- 3.12.1 The site internal and external surfaces comprise impermeable hardstanding. Kerbing is present to the south of the building and pre-filled sandbags will be stored in the warehouse to be placed on the eastern boundary and at the site access points to prevent the release of contaminated water from the site. Drain covers will be stored near the main roller shutter doors and will be deployed in the event of a fire to keep all spent firewater on the site surface. Once the fire has been extinguished the retained firewater will be tested to determine the appropriate disposal/treatment option prior to discharge from site. The deployment of drain covers and sandbags will be completed by a trained operative who is familiar with the protocol and this FPMP.

3.13 During and After an Incident

During

- 3.13.1 During any firefighting or subsequent clear up operations, any incoming wastes will be diverted to an appropriate alternative waste processing site.
- 3.13.2 Natural Resources Wales and the Local Authority will be informed by Natural UK of any major incident. The Fire Rescue Service will contact any other relevant people, including nearby businesses and residential properties, if required, for example, in the event the fire poses a health and safety risk for potential receptors close to the site.

- 3.13.3 An 'Emergency Information Pack' will be stored in the site offices, as well as externally at the weighbridge office, the location of which is shown in **Drawing No.: NU1001/03/06**. This pack will contain the Incident Response Plan (**Appendix FPMP5**), the Emergency Contact List (**Appendix FPMP 4**) and drawings including the Fire Prevention and Mitigation Infrastructure Plan (**Drawing No.: NU1001/03/06**), the Water Hydrant Plan (**Drawing No.: NU1001/03/05**) and the Sensitive Receptors Plan (**Drawing No.: NU1001/03/04**). This will give site operatives and the FRS key information to aid in tackling a fire, including but not limited to the location of fire extinguishers, water hydrants, fire exits, the fire assembly point, pre-filled sandbag storage (for diverting firewater), the external fire quarantine area and emergency contacts and potential sensitive receptors.

After

- 3.13.4 Once the FRS is satisfied that the fire has been extinguished, the following steps will be carried out to ensure that the site is fully decontaminated prior to the site returning to full operation:
- Affected materials will be quarantined for a minimum of 24 hours. After this period, testing will be carried out first to establish the nature of the waste and ensure that it is taken to the most suitable facility for treatment and / or disposal.
 - All fire water captured within the building or in the external site area will be tested and subsequently transferred off site via tanker to an appropriate facility.
 - The site will undergo deep cleaning and the site infrastructure will be tested. Any damaged equipment / infrastructure will be replaced or repaired as soon as practicable.
- 3.13.5 Records of testing on any burnt material and fire water will ensure that the facility accords with Duty of Care requirements.

- 3.13.6 Only once the above works have been done and the site has been inspected will the operator re-open the site. The EA will be informed at every juncture.

3.14 FPMP Review and Monitoring

- 3.14.1 The FPMP will be kept up to date to ensure that compliance is maintained. As aforementioned, this is a live working document which shall be reviewed regularly to reflect any changes that may have occurred at the site. The FPMP will be updated / reviewed under (but not limited to) the following circumstances:

- Following a fire incident – the FPMP and overall fire management measures will be reviewed and improved as required to address any issues or concerns.
- In the event additional combustible waste streams are accepted on site.
- If waste acceptance volumes are increased.
- In the event further site infrastructure is developed, such as an additional on-site building.
- When new plant or equipment is introduced to the site, such as a baler, loading shovel, sort-line, trommel etc.

- 3.14.2 Sections of the FPMP may require more frequent reviews and updates, such as staff training and site monitoring. The FPMP will be available to all staff via both hard copy and electronically. Staff training will be provided to ensure staff can competently carry out the procedures and measures contained within the FPMP. There will be special induction training for new starters and refresher courses, 'toolbox talks' as well as on site exercises / drills will be conducted at regular intervals. Training requirements will be monitored, and records of all training provided to staff will be kept.

- 3.14.3 Procedures for site monitoring will be reviewed regularly to ensure it remains adequate. Site inspections will be conducted before, during and after activities to ensure there are no identifiable ignition sources and that all equipment is operating and, where required, turned off correctly. Site inspections will also seek to determine whether waste separation distances are in accordance with the FPMP. Records of waste storage times will be kept. Plant and equipment will be adequately serviced and maintained by qualified personnel, with daily, weekly and monthly checks of varying detail and records kept. Periodic testing of the fire prevention and mitigation equipment will be carried out.



APPENDICES



APPENDIX FPMP1

Fire Prevention & Mitigation Plan (FPMP) Risk Assessment

Data and information				Judgement (if a fire occurs)				Action	
Source	Harm	Pathway	Receptor	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
<i>What is the agent or process with potential to cause harm?</i>	<i>What are the harmful consequences if things go wrong?</i>	<i>How might the receptor come into contact with the source?</i>	<i>What is at risk? What do I wish to protect?</i>	<i>How likely is this contact?</i>	<i>How severe will the consequences be if this occurs?</i>	<i>What is the overall magnitude of the risk?</i>	<i>On what did I base my judgement?</i>	<i>How can I best manage the risk to reduce the magnitude?</i>	<i>What is the magnitude of the risk after management?</i>
Fugitive Emissions to Air (Smoke)									
Smoke emissions from a major fire in the site building involving combustible waste	Harm to human health – respiratory irritation and illness	Air transport, then inhalation	Site personnel, local population, and air quality.	Moderate	High	High	Predominant wind direction is from the west-southwest. The majority of the residential properties in Capel Hendre are located to the north and north-west of the site and are therefore cross-wind to prevailing wind direction at the site. There are scattered residential properties located down-wind of the site from 200m+. Industrial / commercial premises (including places of work) are located close to the site in all directions. The site accepts a range of clinical and healthcare wastes that may release a range of pollutants when burnt.	- Combustion risk of waste types stored on-site which have been identified as potentially combustible; including incidental contaminants (e.g. AHPs, healthcare waste such as bandages) is considered to be low. All waste identified as having combustible properties will be proactively monitored by site personnel for potential combustion indications and will be 'conditioned' to limit combustion potential. - The fire mitigation strategy aims for a fire to be extinguished within 4 hours of starting. - Procedures will be incorporated into an 'Incident Response Plan'. - No fires are permitted on site. - All waste will be stored internally within the site building. - The majority of waste will be stored in 770l containers. - The site layout reduces the rate of potential fire spread and enables targeted firewater use. - Immediate action will be taken to extinguish all fires if safe to do so. - The site building is equipped with an automated fire alarm system which is monitored remotely by a third party contractor when the site is unmanned (e.g. weekends). - The site comprises a standard mains water supply, hoses and approximately 14 fire extinguishers all of which will be suitable for tackling and / or suppressing small fires on site. In the event that a large fire occurred at the site, there are 3 water hydrants within 100m of the site building that are supplied by 6" mainline connections that consist of British Standard 750 compliant connection points. - There are 11 FRS stations within a 30-minute drive time radius of the site. Incident response times are likely to be between 9 and 26 minutes. - If necessary, a representative of Natural UK will contact the local authority who will inform local residents/businesses and advise them to close all windows and doors until the fire has been extinguished. A full emergency contact list will be maintained within the FPMP. - A representative of Natural UK will contact Traffic Wales (SWTRA) should the safety of any major road networks be at risk. - Firefighting equipment will be available and maintained, and site operators will be trained in their correct use. This will include extinguishers and water hoses. - If triggered, the smoke and fire alarm systems will send an automated alert via a mobile phone application to the site managers. - Outside of operational hours, in the event of a fire on site, in addition to the aforementioned automated alert, a third-party contractor monitoring the alarm system will also contact the site managers. The site managers will have remote access to the live CCTV feed of the site which covers internal and external areas. If a fire is observed, the site manager will contact the emergency services and attend the site to give the FRS access. The site manager will also deploy the sandbags and drain covers to ensure spent firewater is contained on site.	Low
	Visual impairment of drivers caused by thick smoke, disruption to services	Air transport	Users of local infrastructure e.g. local roads.	Moderate	Moderate	Moderate	Coopers Road (B4297 – Heol Cwper) lies c. 53m east of the site boundary and ~75m east of the site building itself. Hendre Road runs c. 235m north of the site building. Lotwen Road (Heol Lotwen) lies c. 320m west of the site building. Saron Road is c.335m north of the site building. Pontardulais Road (A483) is c. 950m south of the site building.		Low

Data and information				Judgement (if a fire occurs)				Action	
Source	Harm	Pathway	Receptor	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
Firewater									
Production of firewater	Pollution of land and ground water	Absorption to and downwards percolation through ground	Land, groundwater, water abstractions	Very Low	Moderate	Low	All internal and external yards consist of impermeable pavement.	1. The site comprises engineered impermeable surfacing both internally and externally, the integrity of which will be maintained throughout the life of the facility. 2. Spent firewater will be contained with the curtilage of the site. 3. The Incident Response Plan will be available to the FRS at the site entrance and will notify them of the location of connection points for hydrants within 100m of the building. The site will operate 24-hours per day Monday to Friday, during which time trained site operatives will deploy drain covers and sandbags to prevent spent firewater from exiting the site. 4. Outside of operational hours, a third party will monitor the fire and smoke detection and alarm system and will call the FRS and site manager if a fire is detected. When the site is unmanned, once contacted by the third party monitoring the alarms, the site manager will attend site immediately to provide site access to the FRS support firewater management. 5. Upon arrival at the site, the FRS will consider the utilisation of sprays or fogs to tackle a fire, which would reduce the amount of fire water run off created.	Low
	Pollution of surface water	Run-off and site drains	Surface water	High	Moderate	Low	The site surface water drainage network discharges to foul sewer. Surface water sewers located on adjoining public road networks.		Low



APPENDIX FPMP2

End of Shift Daily Check Sheet



End of Shift Check Sheet

Date:

Completed by:

Signature:

Waste Types and Stockpile Volumes

Waste Checks	Initial to confirm
<i>Floors of all buildings generally clear (free of dust/litter/debris/spillages)</i>	
<i>External infrastructure area clean (free of litter/dust/debris spillages)</i>	
<i>Vehicle exhausts checked and cleared of dust/litter/debris</i>	
<i>Flammable liquids returned to storage areas</i>	
<i>Waste storage areas checked for indication of combustion/smouldering</i>	
<i>Waste storage areas checked for indication of excessive build up/ overfills</i>	
<i>Other ignition sources kept away from waste piles</i>	
<i>All doors locked (where appropriate) and security system activated</i>	
<i>If the quarantine area is being used for storage of combustible waste – ensure waste is cooled before leaving site</i>	
<i>If bays are being used to store combustible waste check free board space is retained</i>	
<i>Perimeter fence secure</i>	
<i>Access point to the site not obstructed</i>	

Date:

Completed by:

Signature:

Waste Types and Stockpile Volumes

Waste Checks	Initial to confirm
<i>Mobile plant parked away from combustible material</i>	
<i>All machinery/ plant equipment/ lighting turned off (where appropriate)</i>	
<i>Any defects or damages to any equipment/plant? If yes, further information to be discussed in additional comments.</i>	
<i>Additional comments</i>	

I confirm that all checks have been carried out as detailed above and that all lock off procedures have been followed.

Name:

Signature:

Date:



APPENDIX FPMP3

Indicative Fire Rescue Service Travel Times

A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

19 min , 8.6 miles

Light traffic (Leave at 11:00)

Via A483, A474

· Local roads

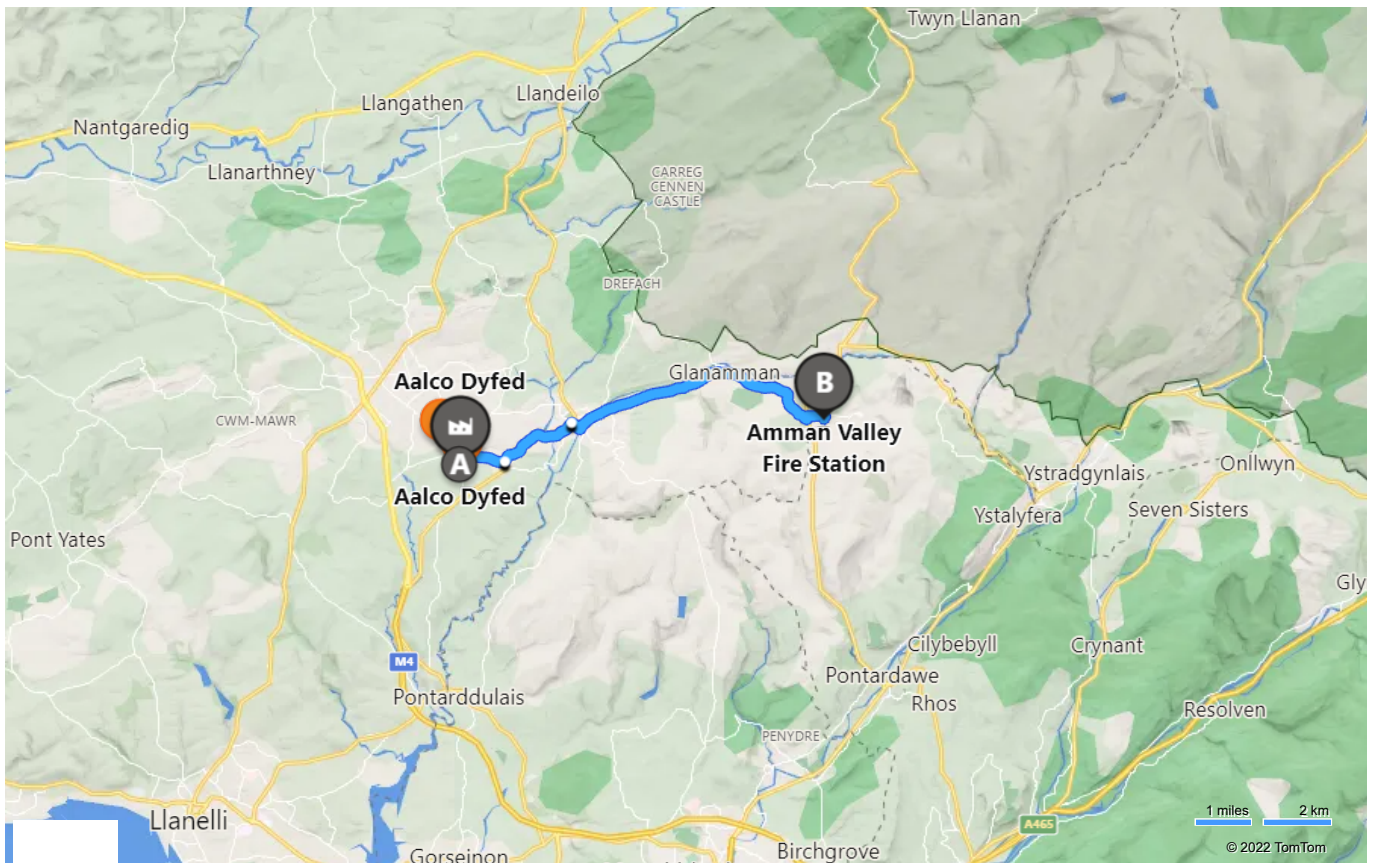
B Amman Valley Fire Station, 10 New Rd, Gwaun-Cae-Gurwen,
Ammanford SA18 1UN



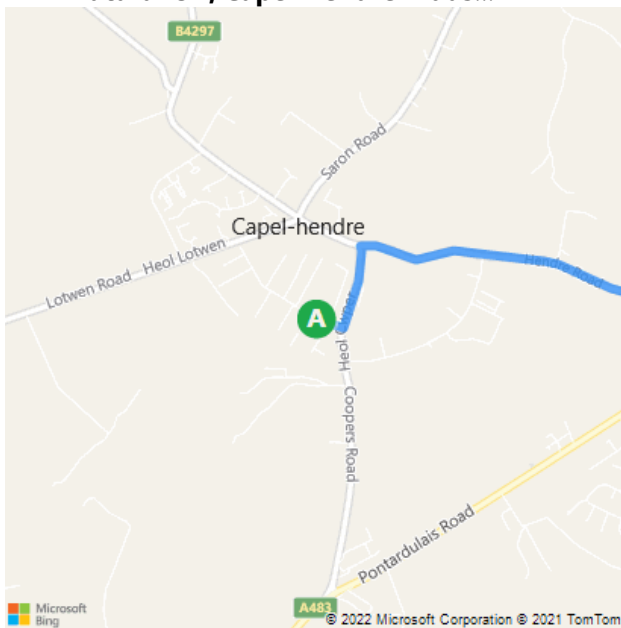
A Natural UK

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↶	2.	Turn left onto B4297 / Heol Cwper / Coopers Road	0.2 mi
↷	3.	Turn right onto Hendre Road	0.8 mi
↶	4.	Turn left onto A483 / Heol Rhydaman / Ammanford Road	1.6 mi
↻	5.	At the roundabout, take the 3rd exit for A474 / Ffordd William Walker	0.1 mi
↻	6.	Go through 3 roundabouts, staying on A474	5.3 mi
↶	7.	Turn left onto A4069 / Heol Brynamman / Brynamman Road	371 ft
↷	8.	Turn right onto new road / Heol Newydd	0.2 mi
↻	9.	At the roundabout, take the 2nd exit	0.2 mi
↷	10.	Turn right , then immediately turn right onto Heol Newydd / new road	410 ft
	11.	Arrive at Heol Newydd / new road The last junction before your destination is Heol Newydd / new road	

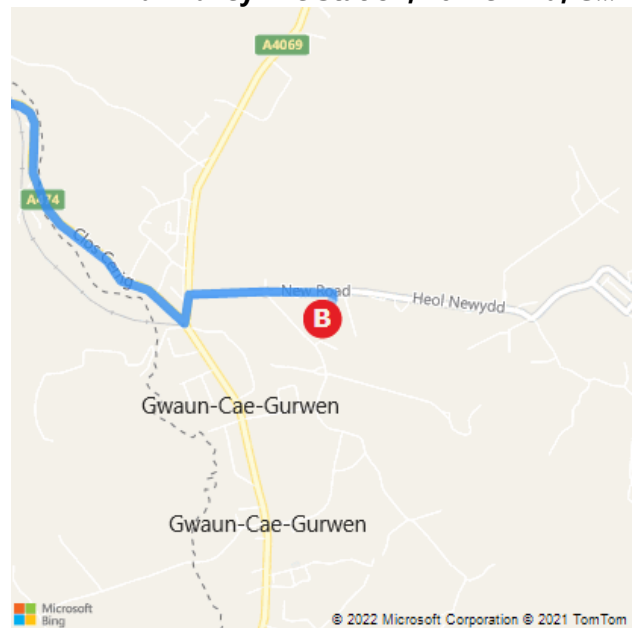
B Amman Valley Fire Station



A Natural UK, Capel Hendre Indus...



B Amman Valley Fire Station, 10 New Rd, G...

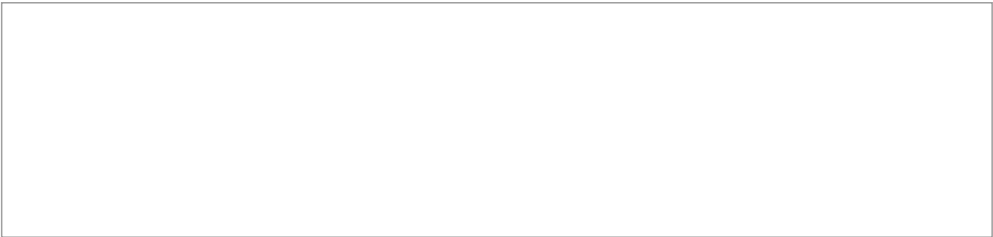


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A **Natural UK**, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

9 min , 3.1 miles
Light traffic (Leave at 10:56)
Via Hendre Road, A483
· Local roads

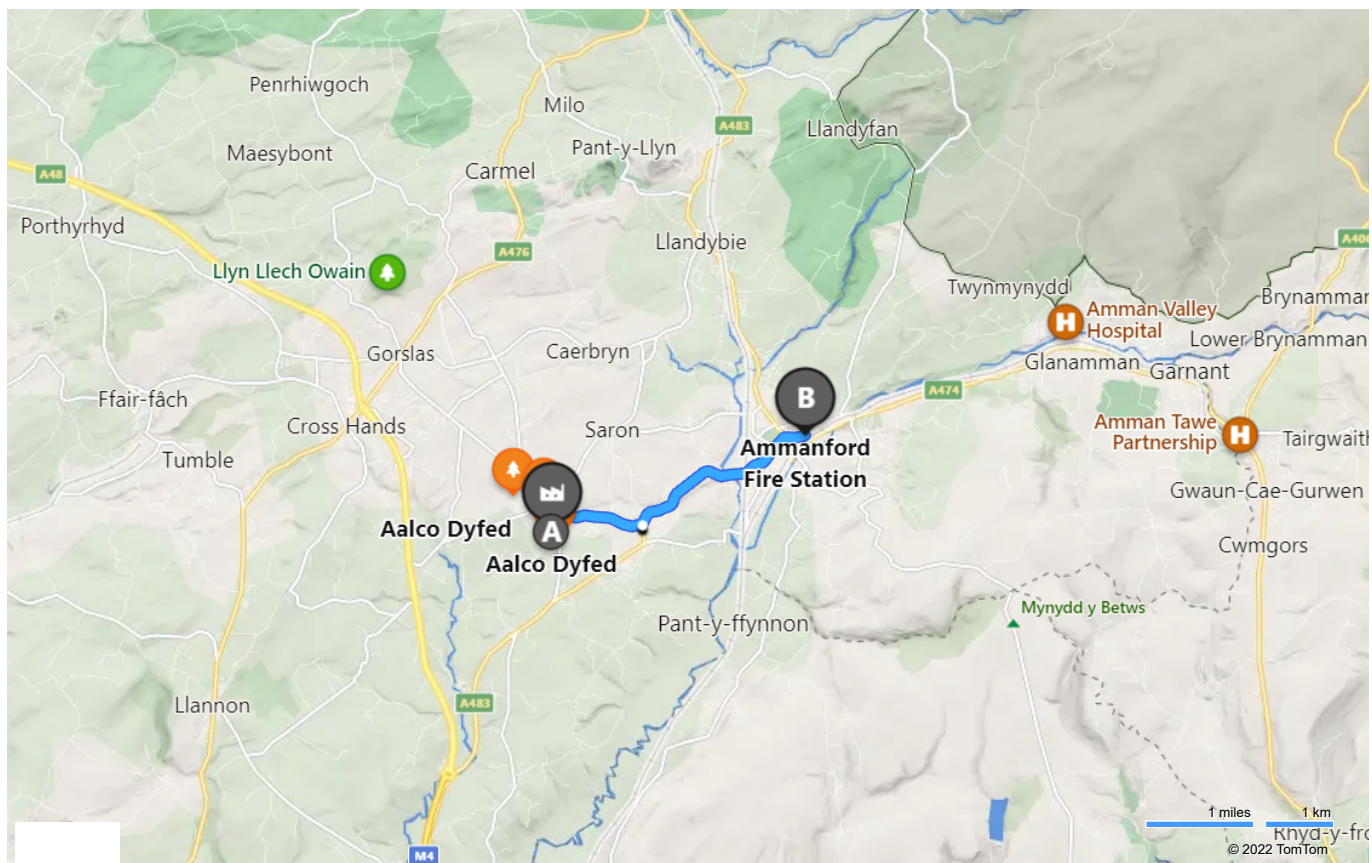
B **Ammanford Fire Station**, High Street, Ammanford SA18 2LU



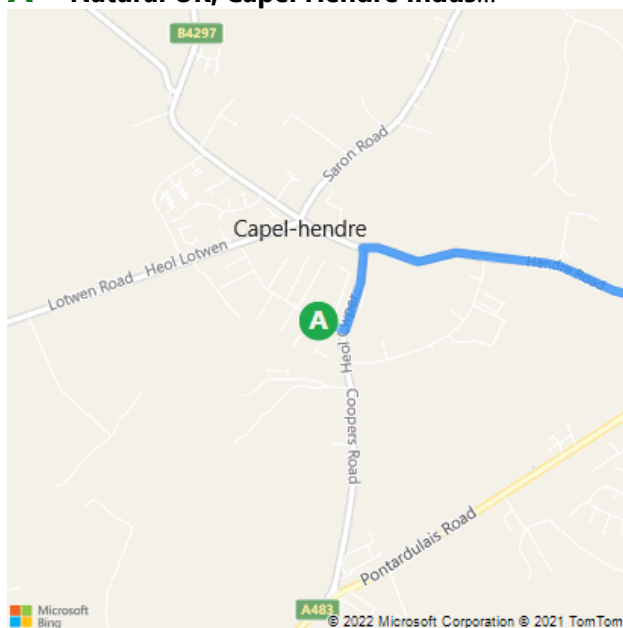
A **Natural UK**

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • <i>Private Road</i>	358 ft
↶	2.	Turn left onto B4297 / Heol Cwper / Coopers Road	0.2 mi
↷	3.	Turn right onto Hendre Road	0.8 mi
↶	4.	Turn left onto A483 / Heol Rhydaman / Ammanford Road	1.6 mi
↻	5.	At the roundabout, take the 2nd exit	0.2 mi
↷	6.	Turn right onto A474 / High Street / Stryd Fawr	0.2 mi
	7.	Arrive at A474 / High Street / Stryd Fawr on the right The last junction before your destination is Wallasey Road / Heol Wallasey If you reach Union Street, you have gone too far	

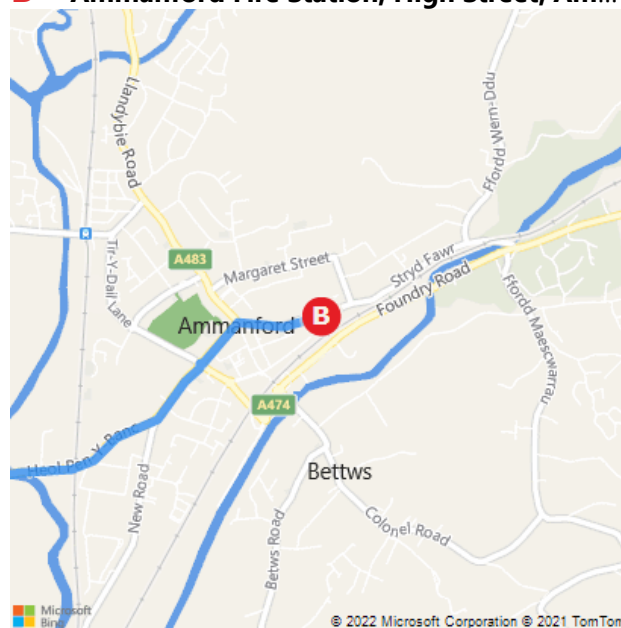
B **Ammanford Fire Station**



A Natural UK, Capel Hendre Indus...



B Ammanford Fire Station, High Street, Am...



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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

17 min , 13.4 miles
Light traffic (Leave at 11:56)
Via A483, M4

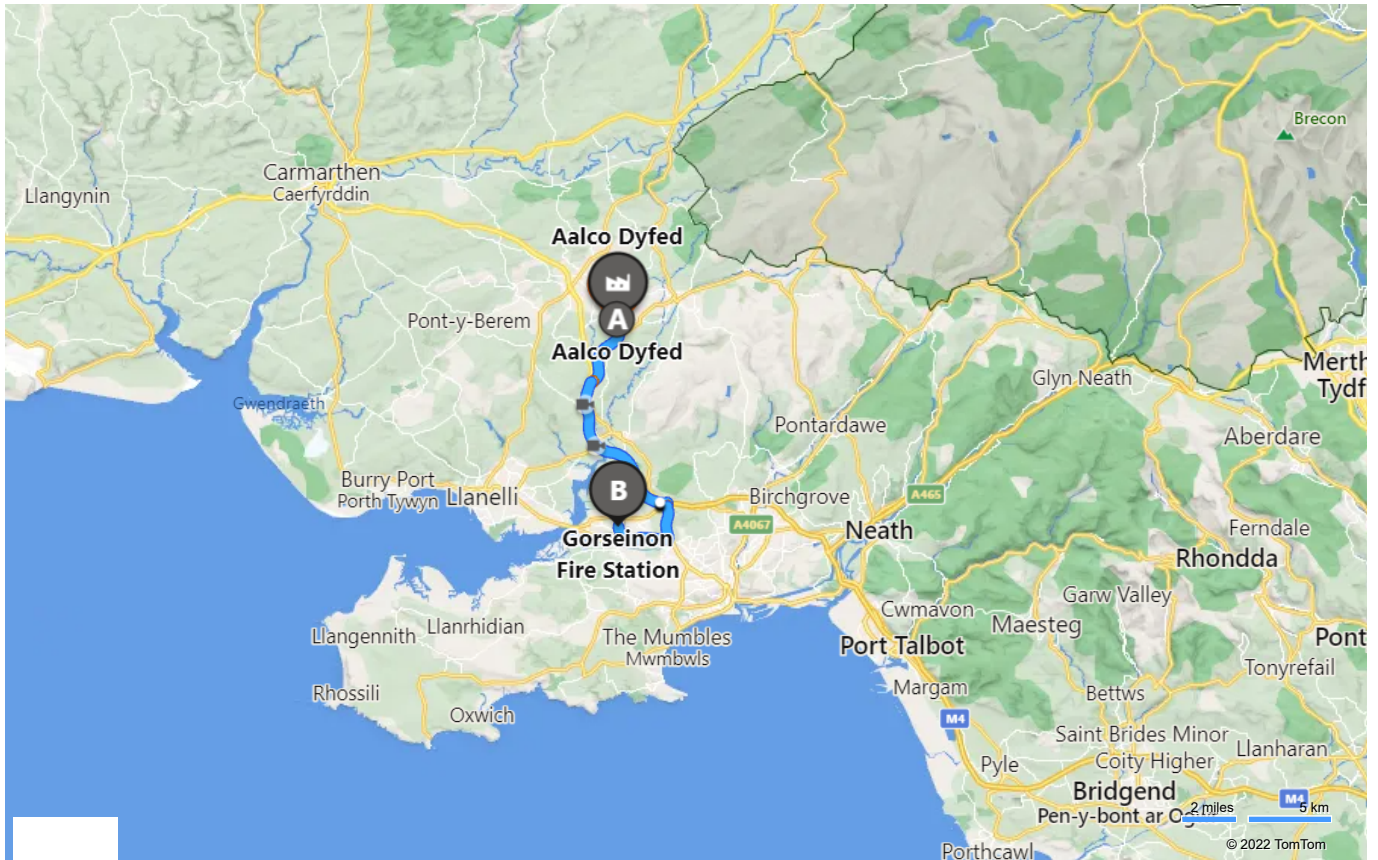
B Gorseinon Fire Station, West Street, Swansea SA4 4AG



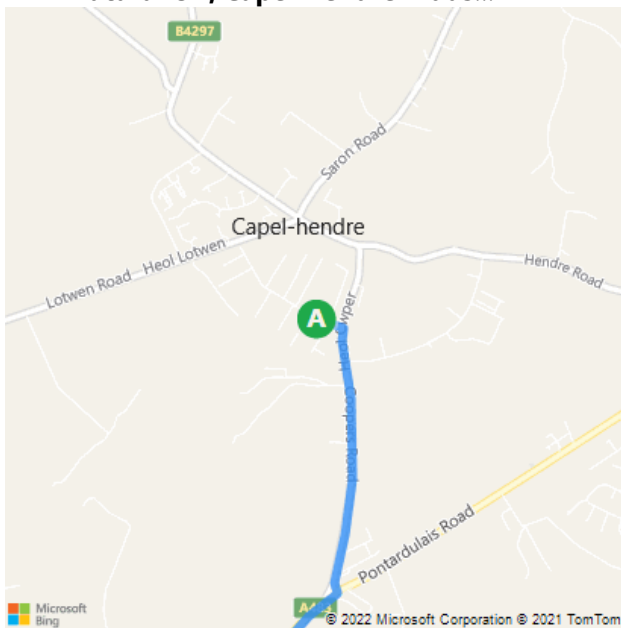
A Natural UK

	1. Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
	2. Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
	3. Turn right onto A483 / Pontardulais Road	2.1 mi
	4. At the roundabout, take the 2nd exit for M4 / e30 towards Abertawe / Caerdydd / Cardiff / Llanelli / Swansea / M4 ▲ Moderate Congestion	6.3 mi
	5. At Junction 47 , head left on the slip road for A483 / A48 towards Abertawe (Gn) / Gorseinon / Swansea (W)	0.2 mi
	6. At the roundabout, take the 4th exit for A483 towards Abertawe / Swansea / A483	1.5 mi
	7. At the roundabout, take the 2nd exit for A484	1.2 mi
	8. At the roundabout, take the 3rd exit	0.8 mi
	9. At the roundabout, take the 3rd exit for B4296 / Victoria road	0.3 mi
	10. At the roundabout, take the 1st exit for B4620 / Loughor Road	492 ft
	11. At the roundabout, take the 2nd exit for B4296 / West Street	0.2 mi
	12. Arrive at B4296 / West Street on the left The last junction before your destination is Maes Maddock If you reach Queen's Avenue, you have gone too far	

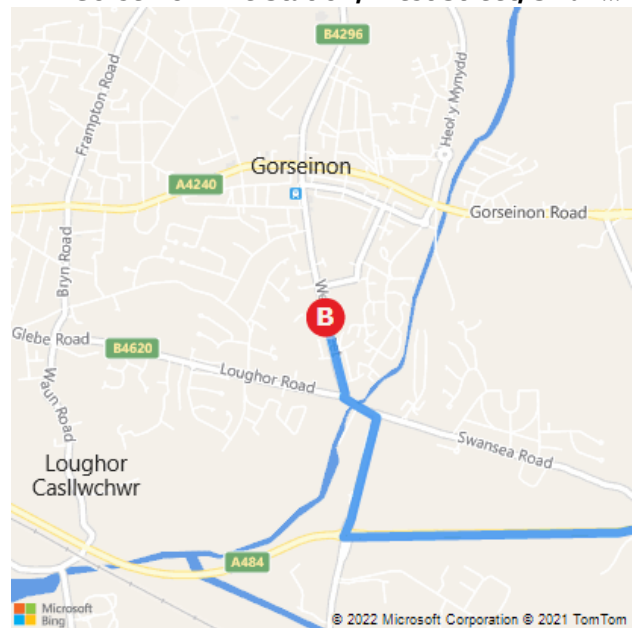
B Gorseinon Fire Station



A Natural UK, Capel Hendre Indus...



B Gorseinon Fire Station, West Street, Swan...



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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

20 min , 8.8 miles

Light traffic (Leave at 11:54)

Via Saron Road, A483

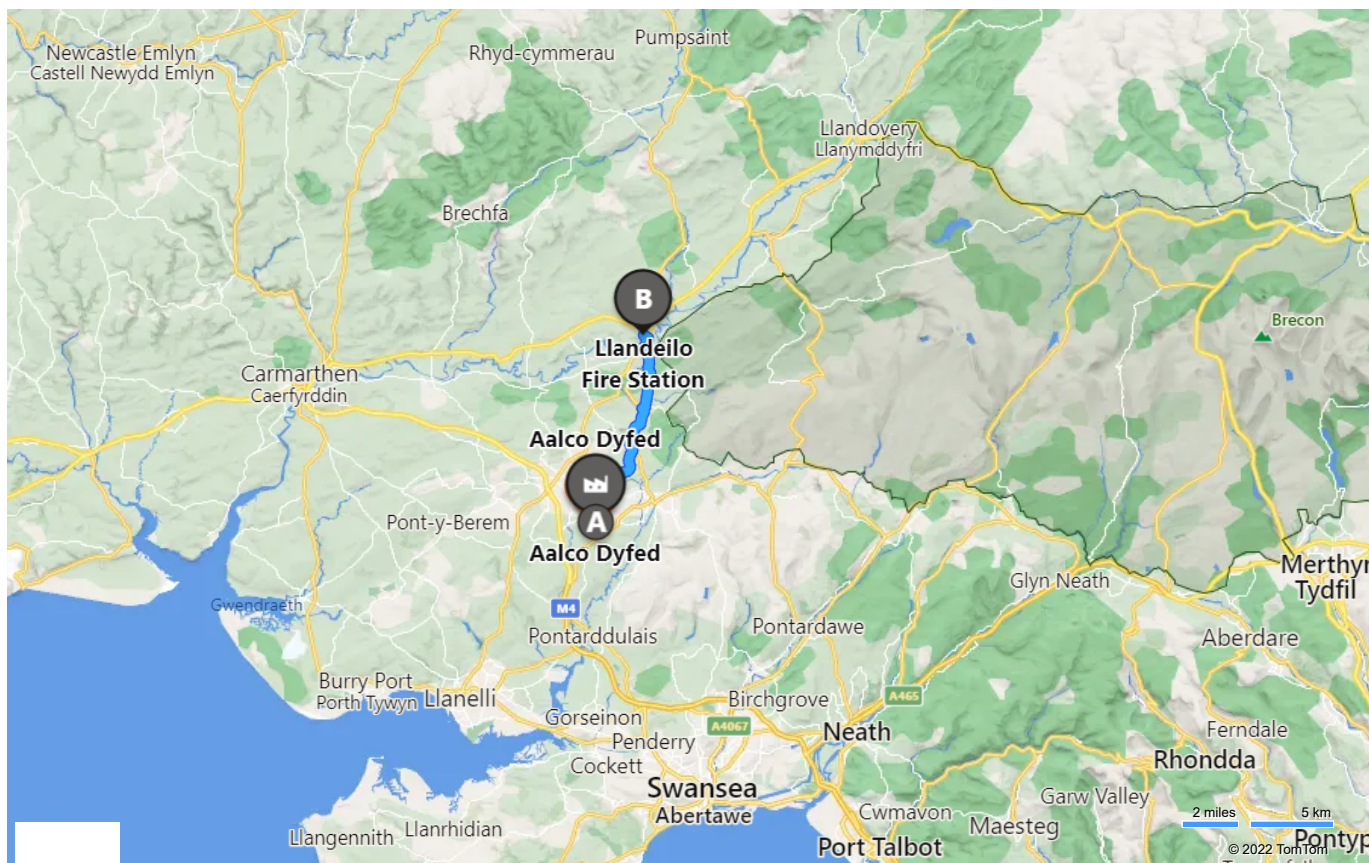
B Llandeilo Fire Station, Carmarthen Road, Llandeilo SA19 6RP

· Local roads

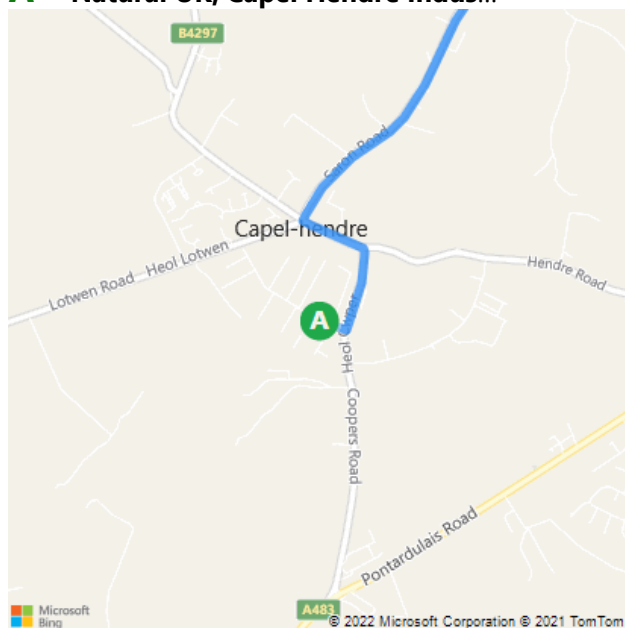


A Natural UK

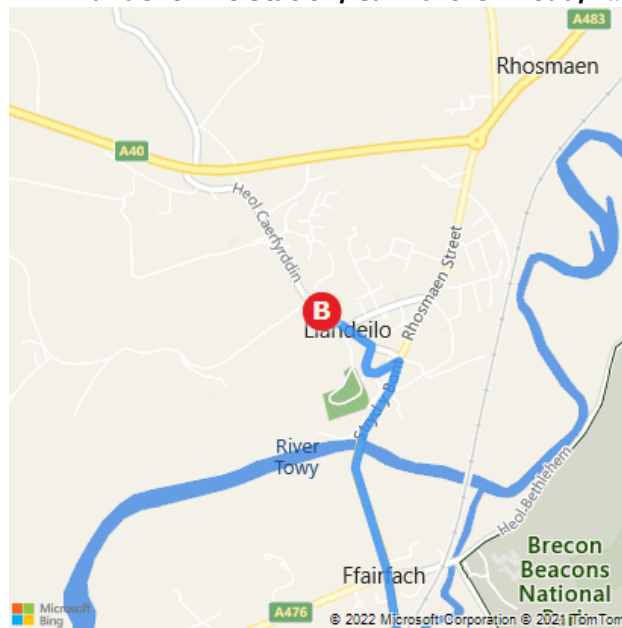
↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↩	2.	Turn left onto B4297 / Heol Cwper / Coopers Road	0.4 mi
↪	3.	Turn right onto Saron Road	0.9 mi
↗	4.	Bear right onto Dyffryn Road / Heol Y Dyffryn	0.1 mi
↩	5.	Turn left onto Saron Road	1.0 mi
↪	6.	Turn right onto B4556 / Blaenau Road	1.3 mi
↩	7.	Turn left onto A483 / Heol Gwilym	1.9 mi
↪	8.	Turn right onto Derwydd Road	0.1 mi
↩	9.	Turn left onto Heol Pen Storom	1.6 mi
↗	10.	Bear right onto A483 / Heol Cennen	1.2 mi
↩	11.	Turn left onto King Street / Stryd y Brenin	344 ft
↑	12.	Road name changes to George Hill	115 ft
↑	13.	Road name changes to Stryd Sior / George Street	344 ft
↩	14.	Turn left onto Stryd Caerfyrddin / Carmarthen Street	381 ft
↑	15.	Road name changes to Heol Caerfyrddin / Carmarthen Road	407 ft
	16.	Arrive at Heol Caerfyrddin / Carmarthen Road on the left The last junction before your destination is Heol Newydd / new road If you reach Heol Diana / Diana Road, you have gone too far	



A Natural UK, Capel Hendre Indus...



B Llandeilo Fire Station, Carmarthen Road, L...



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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

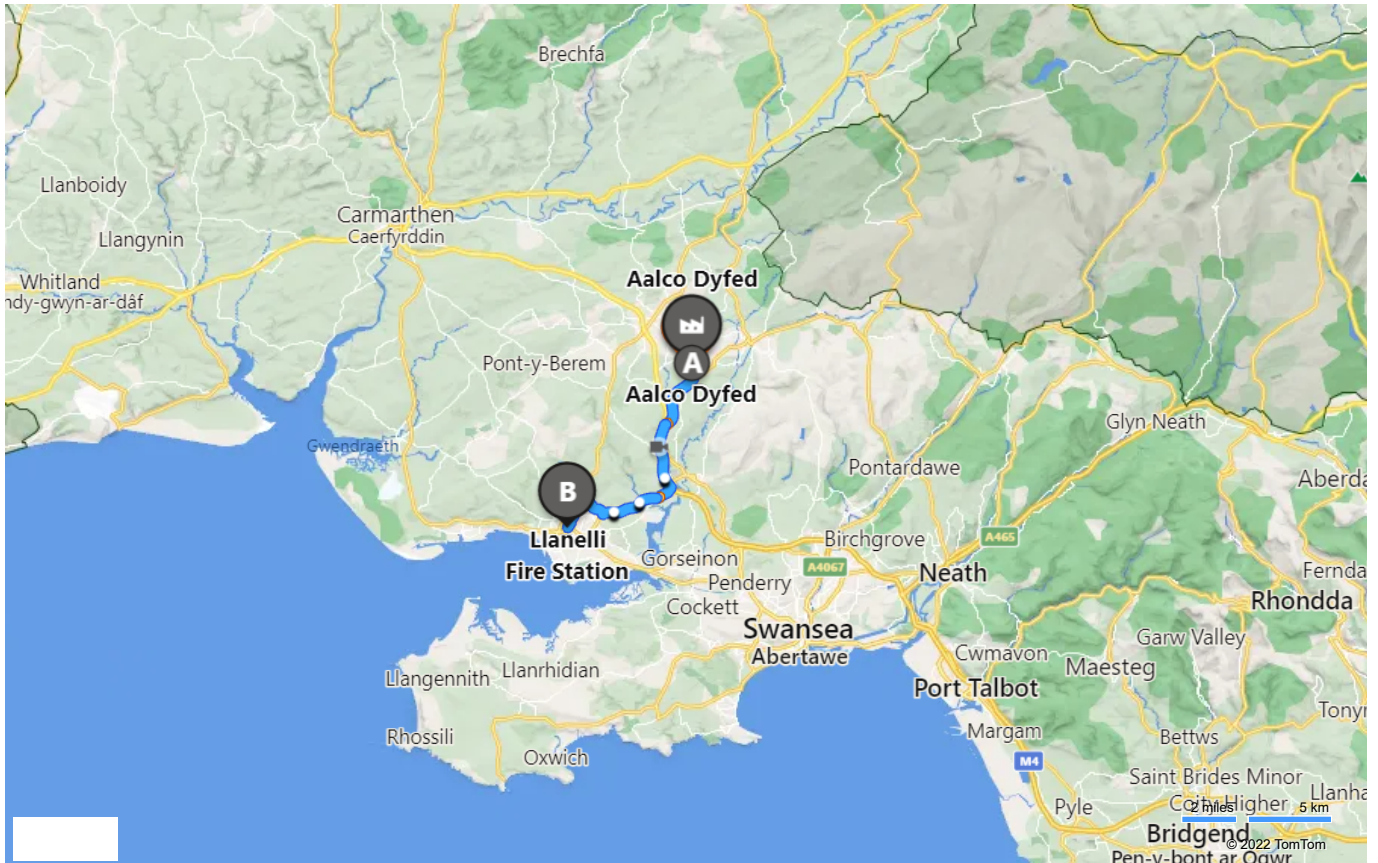
20 min , 10.9 miles
Light traffic (Leave at 11:55)
Via M4, A4138

B Llanelli Fire Station, Fire Station Corporation Avenue, Llanelli SA15 3PF

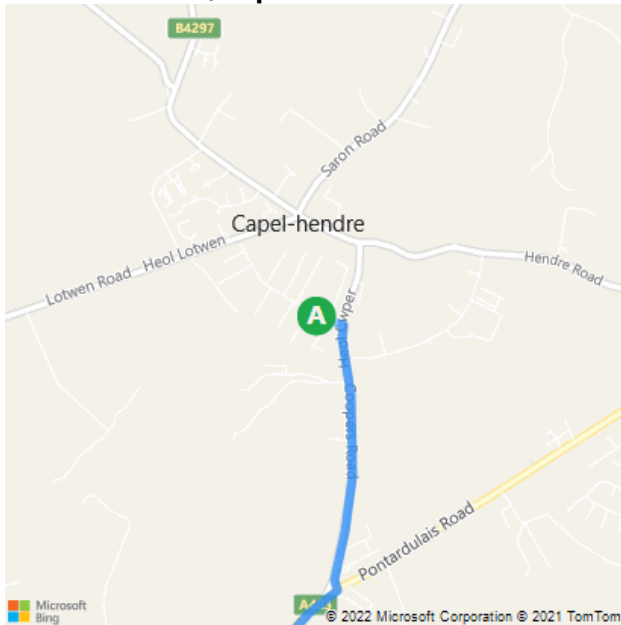


A Natural UK

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↗	2.	Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
↗	3.	Turn right onto A483 / Pontardulais Road	2.1 mi
M4	4.	At the roundabout, take the 2nd exit for M4 / e30 towards Abertawe / Caerdydd / Cardiff / Llanelli / Swansea / M4 ▲ Moderate Congestion	2.3 mi
A4138	5.	At Junction 48 , head left on the slip road for A4138 towards Llanelli	0.4 mi
↶	6.	Make a U-turn to stay on A4138 / Pontardulais Road	1.4 mi
↻	7.	Enter the roundabout	220 ft
↻	8.	Exit the roundabout at the 2nd exit, onto A4138	1.1 mi
↻	9.	At the roundabout, take the 2nd exit	0.5 mi
↻	10.	At the roundabout, take the 3rd exit for B4303	1.2 mi
↵	11.	Bear left onto A476 / Heol Maes y Felin / Millfield Road	0.1 mi
↻	12.	At the roundabout, take the 2nd exit	0.3 mi
↶	13.	Turn left onto Corporation Avenue	0.7 mi
	14.	Arrive at Tai Gorsaf on the left The last junction before your destination is Corporation Close If you reach Lliedi Crescent, you have gone too far	



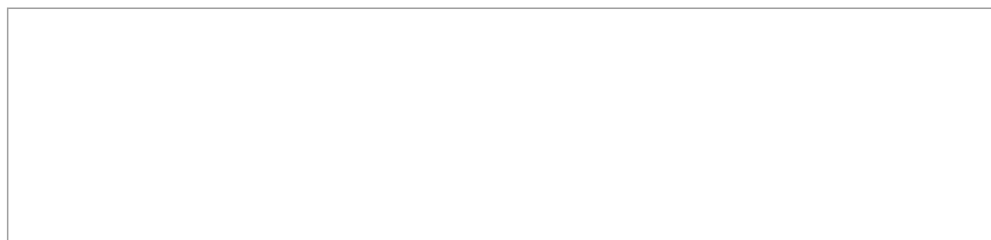
A Natural UK, Capel Hendre Indus...



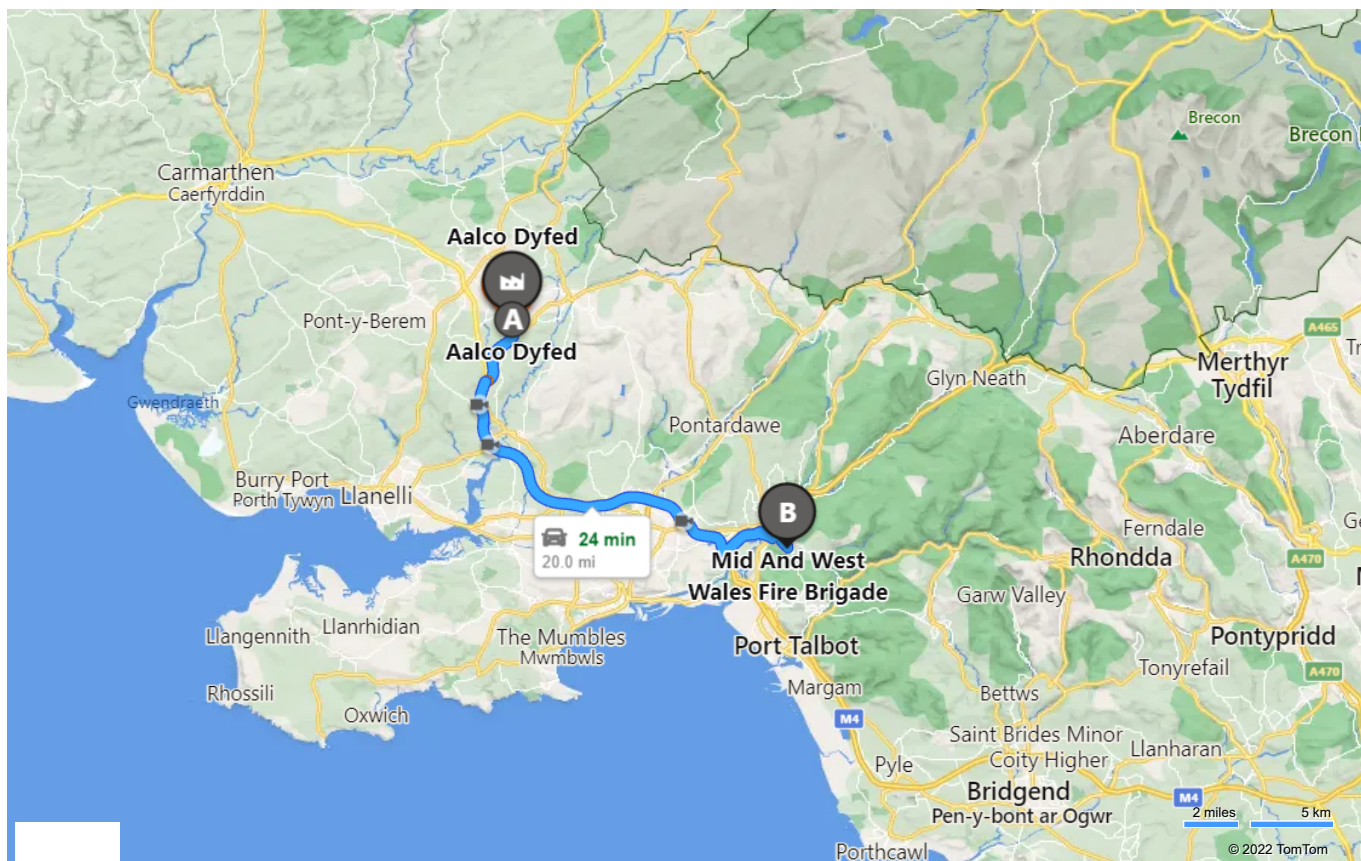
B Llanelli Fire Station, Fire Station Corporati...



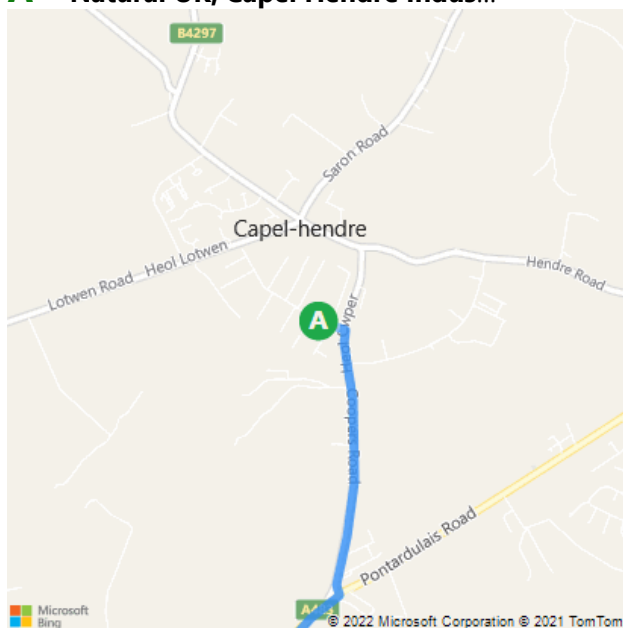
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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ24 min , 20.0 miles
Light traffic (Leave at 12:00)
Via A483, M4**B** Mid And West Wales Fire Brigade, 174 Cimla Rd, Neath**A** Natural UK

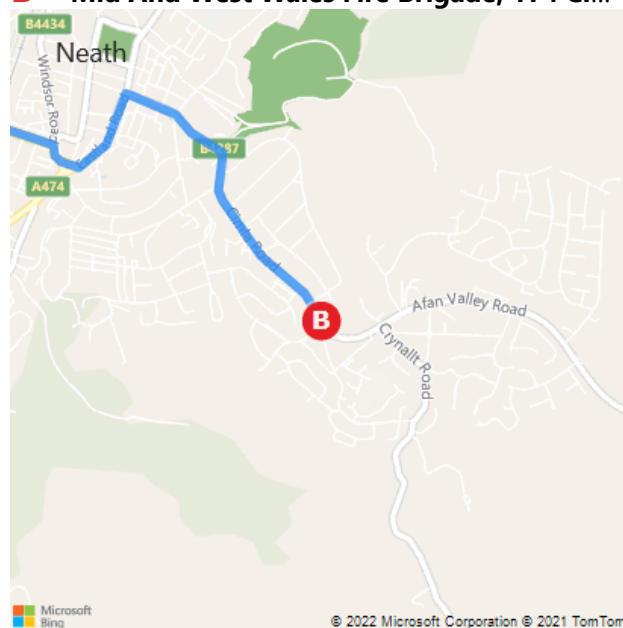
↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • <i>Private Road</i>	358 ft
↗	2.	Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
↗	3.	Turn right onto A483 / Pontardulais Road	2.1 mi
M4	4.	At the roundabout, take the 2nd exit for M4 / e30 towards Abertawe / Caerdydd / Cardiff / Llanelli / Swansea / M4 ▲ <i>Moderate Congestion</i>	13.6 mi, 12 min
↙	5.	At Junction 43 , head left on the slip road for A465 towards Castell-Nedd / Merthyr Tudful / Merthyr Tydfil / Neath	0.3 mi
↻	6.	At the roundabout, take the 1st exit for A465 towards Castell-Nedd / Merthyr Tydfil / Neath Abbey Industrial Estate / Neath / Yst. Ddiw. Mynachlog Nedd / A465 ▲ <i>Minor Congestion</i>	1.4 mi
↙	7.	Take the slip road on the left for A474 and head towards Castell-nedd / Neath / Pontardawe	0.2 mi
↻	8.	At the roundabout, take the 3rd exit for A474	0.6 mi
↻	9.	At the roundabout, take the 2nd exit	371 ft
↻	10.	At the roundabout, take the 1st exit for B4434 / Eastland Road	0.3 mi
↗	11.	Turn right onto B4287 / Cimla Road	0.1 mi
↻	12.	At the roundabout, take the 2nd exit	0.7 mi
	13.	Arrive at B4287 / Cimla Road The last junction before your destination is Cimla Crescent If you reach Heol Cae Rhys Ddu / Cae Rhys Ddu Road, you have gone too far	



A Natural UK, Capel Hendre Indus...



B Mid And West Wales Fire Brigade, 174 Ci...

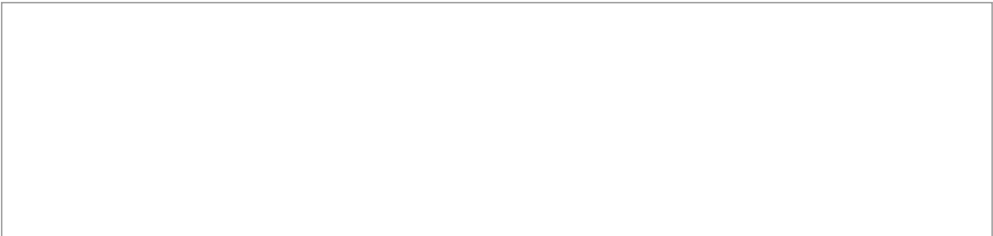


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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

12 min , 6.0 miles
Light traffic (Leave at 11:53)
Via A483, a48

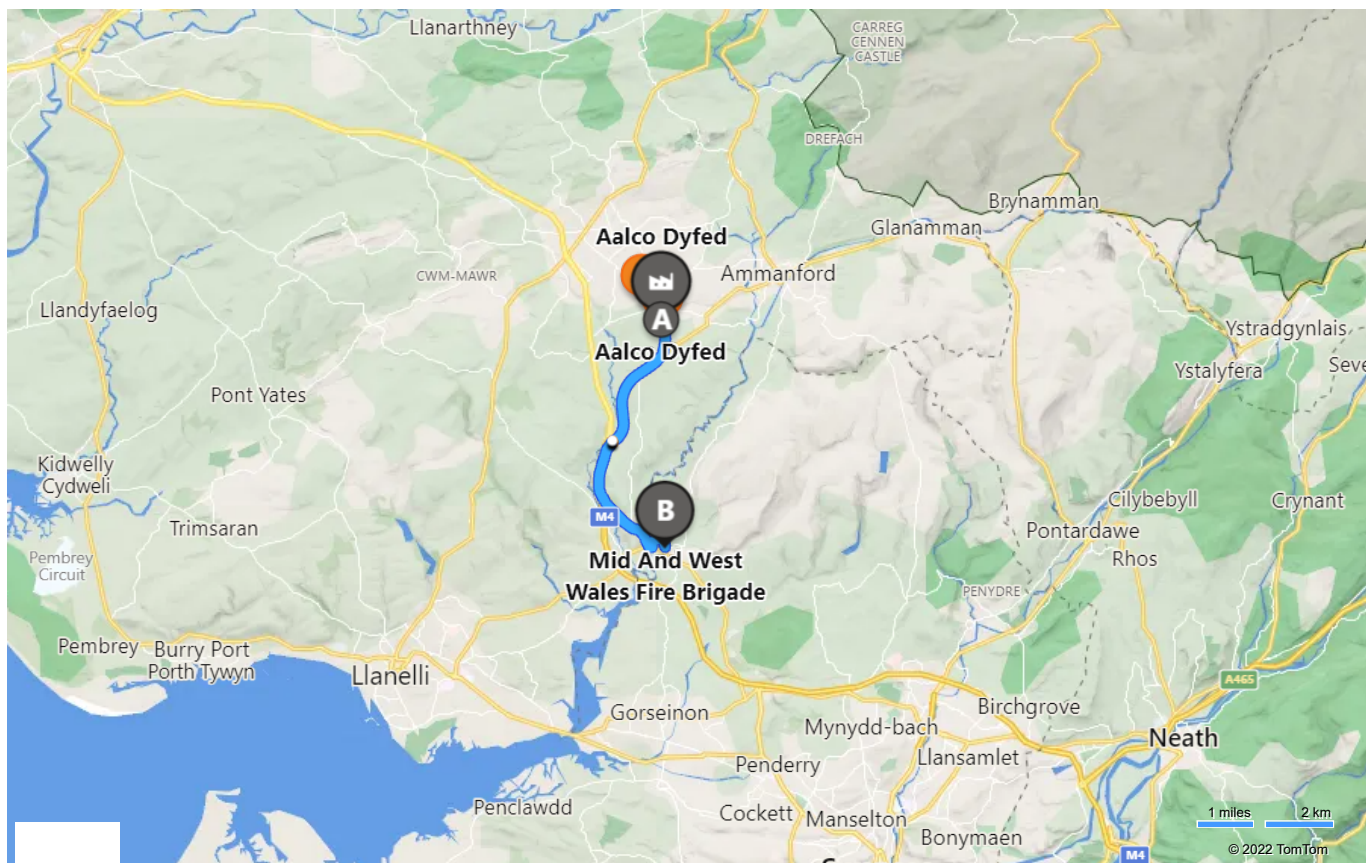
B Mid And West Wales Fire Brigade, 1 Williams St, Pontarddulais, Swansea



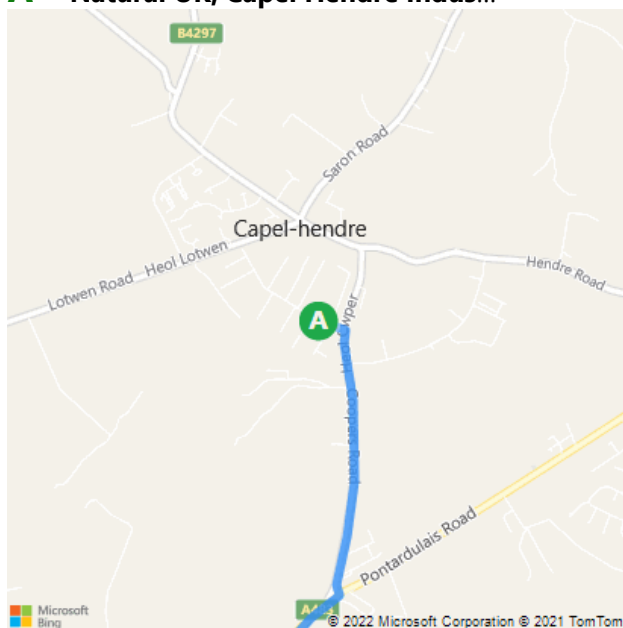
A Natural UK

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↗	2.	Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
↗	3.	Turn right onto A483 / Pontardulais Road	2.1 mi
↻	4.	At the roundabout, take the 1st exit for a48 towards Fforest / Pontarddulais / A48 ▲ Moderate Congestion	2.5 mi
↻	5.	At the roundabout, take the 1st exit	397 ft
↶	6.	Turn left onto station road	0.2 mi
↑	7.	Road name changes to Stryd Fawr / High Street	0.2 mi
↗	8.	Turn right onto Ty'n-y-Bonau Road	0.2 mi
	9.	Arrive at Ty'n-y-Bonau Road The last junction before your destination is Myrtle Hill	

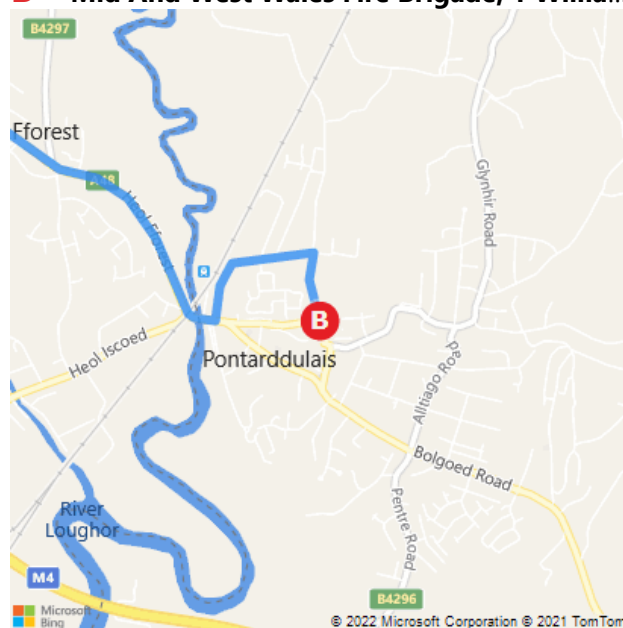
B Mid And West Wales Fire Brigade



A Natural UK, Capel Hendre Indus...



B Mid And West Wales Fire Brigade, 1 Willia...

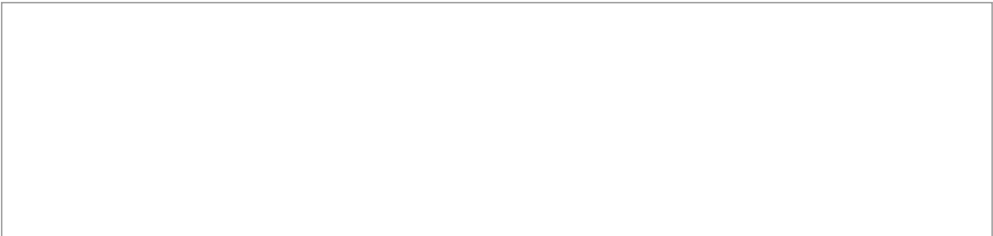


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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

25 min , 15.9 miles
Light traffic (Leave at 12:03)
Via a48

B Mid And West Wales Fire And Rescue Service, Headquarters Lime Grove Avenue, Carmarthen SA31 1SP

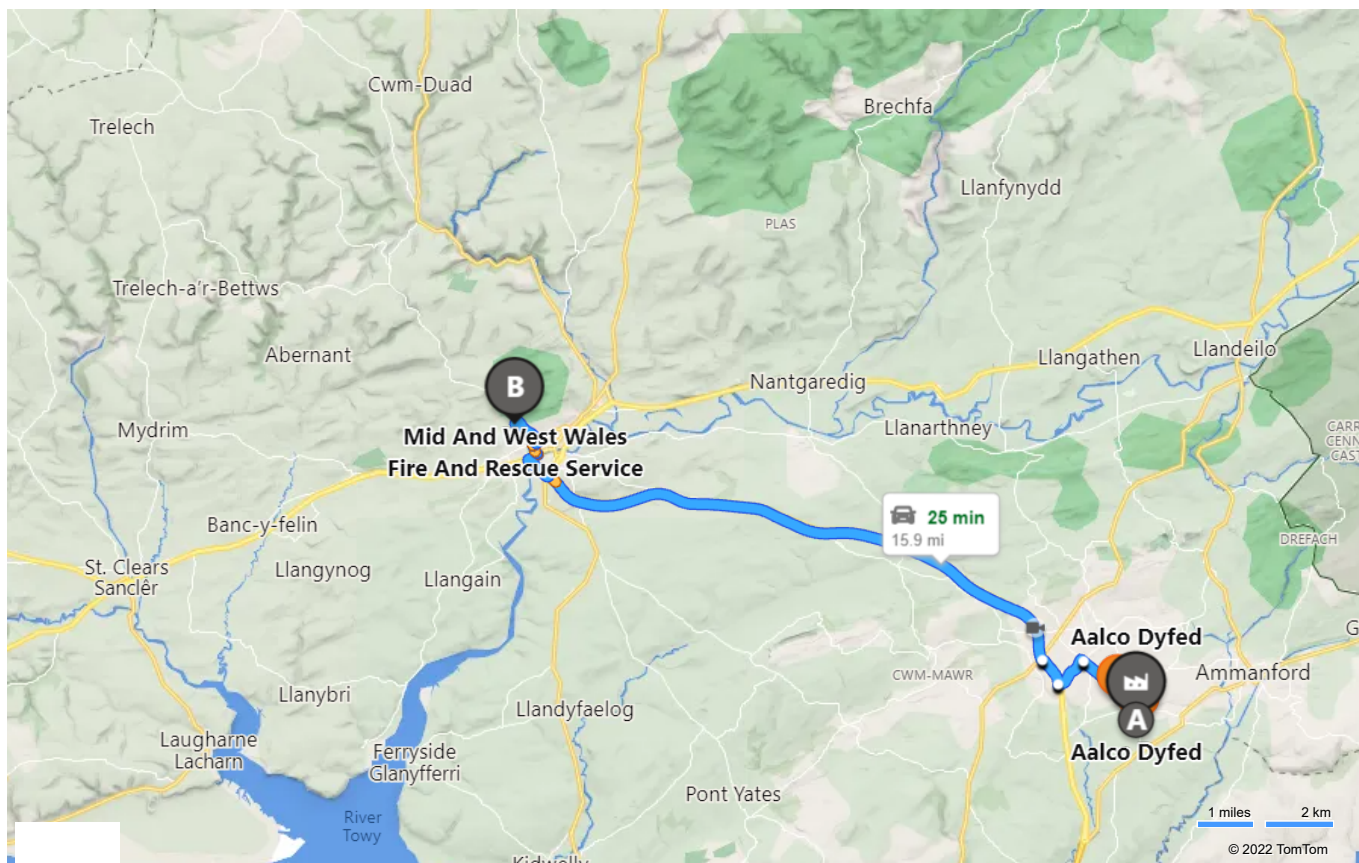


A Natural UK

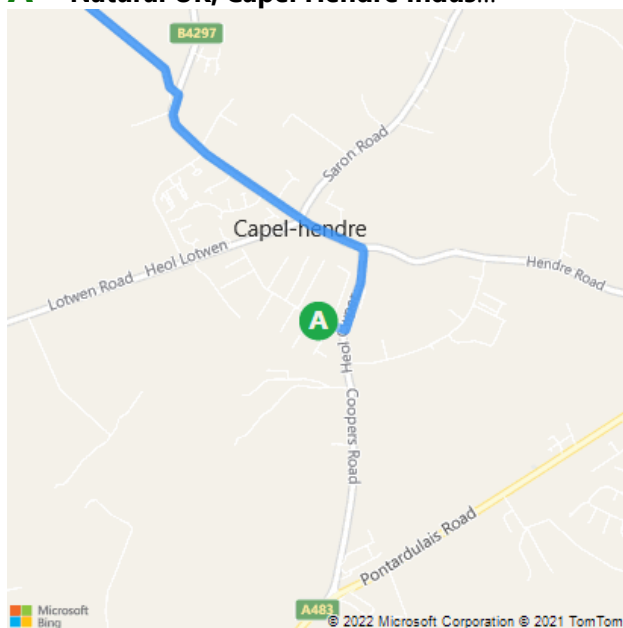
↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↶	2.	Turn left onto B4297 / Heol Cwper / Coopers Road	0.8 mi
↶	3.	Turn left onto Heol Waterloo / Waterloo Road , then immediately bear right onto Maes Derwen	0.9 mi
↑	4.	Road name changes to Black Lion Road / Heol y Llew Du	384 ft
↶	5.	Turn left onto Heol Parc Mawr	0.3 mi
↻	6.	Go through 2 roundabouts, staying on Heol Parc Mawr	0.4 mi
↻	7.	Enter the roundabout	157 ft
↻	8.	Exit the roundabout at the 2nd exit, onto slip road	0.2 mi
	9.	Merge onto a48 / e30 ▲ Minor Congestion	0.4 mi
↻	10.	At the roundabout, take the 3rd exit ▲ Moderate Congestion	11.0 mi, 11 min
↻	11.	At the roundabout, take the 2nd exit for a40 / e30 towards Abergwaun / Fishguard / Johnstown / Sanclêr / St Clears / A40 ▲ Minor Congestion	0.5 mi
↻	12.	At the roundabout, take the 3rd exit for A4242 towards A4242 ▲ Minor Congestion	0.3 mi
↻	13.	At the roundabout, take the 1st exit for A4213 / Morfa Lane	0.2 mi

	14. At the roundabout, take the 2nd exit	0.2 mi
	15. Turn left onto Water Street	0.1 mi
	16. Road name changes to Fountain Hall Terrace	0.2 mi
	17. Road name changes to Lime Grove Avenue	0.3 mi
	18. Bear left onto road	472 ft
	19. Arrive at destination The last junction before your destination is Trevaughan Road	

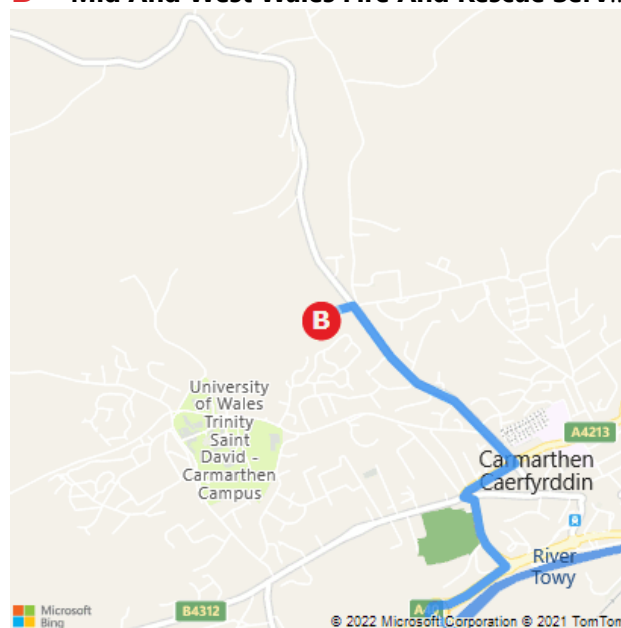
B Mid And West Wales Fire And Rescue Service



A Natural UK, Capel Hendre Indus...



B Mid And West Wales Fire And Rescue Serv...

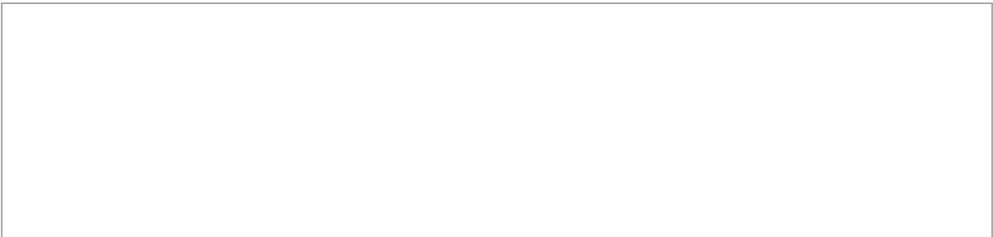


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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

24 min , 17.9 miles
Light traffic (Leave at 12:10)
Via M4, A4067

B Pontardawe Fire Station, Alltacham Dr, Pontardawe SA8 4JR



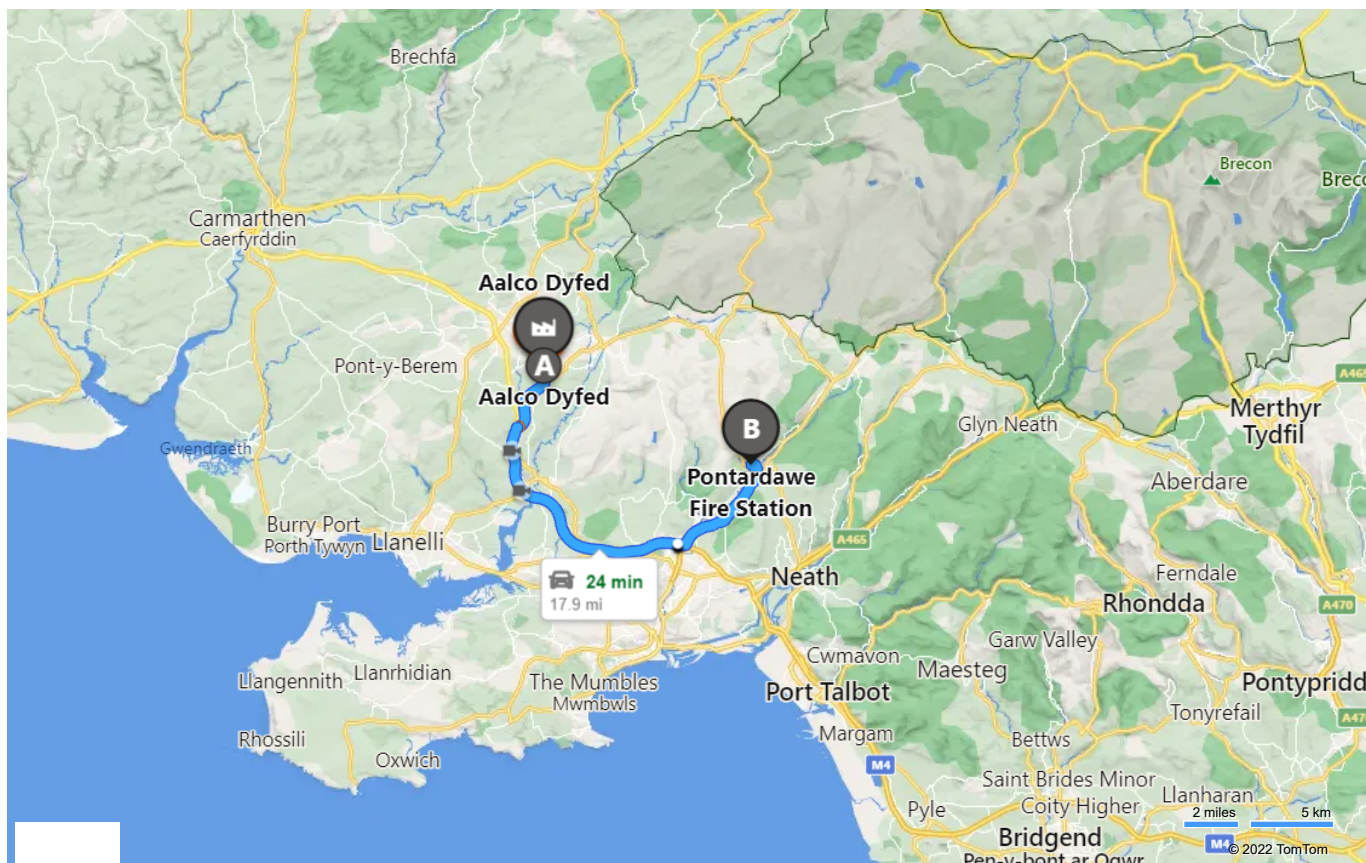
A Natural UK

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↗	2.	Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
↗	3.	Turn right onto A483 / Pontardulais Road	2.1 mi
M4	4.	At the roundabout, take the 2nd exit for M4 / e30 towards Abertawe / Caerdydd / Cardiff / Llanelli / Swansea / M4 ▲ Moderate Congestion	9.9 mi
↙	5.	At Junction 45 , head left on the slip road for A4067 towards Pontardawe	0.3 mi
↻	6.	At the roundabout, take the 2nd exit for A4067 / Ffordd Cwm Tawe	0.2 mi
↻	7.	Go through 3 roundabouts, staying on A4067	3.9 mi
↻	8.	Enter the roundabout	171 ft
↻	9.	Exit the roundabout at Exit 0	240 ft
↙	10.	Turn left onto Tawe Terrace	0.1 mi
↗	11.	Turn right onto Holly Street	289 ft
↑	12.	Road name changes to Arthur Terrace	410 ft
↙	13.	Turn left onto George Street	0.1 mi
↗	14.	Turn right onto B4603 / Stryd Fawr / High Street , then immediately turn left onto Brynawel	0.3 mi
↗	15.	Turn right onto Alltacham Drive / Rodfa Alltacham	112 ft

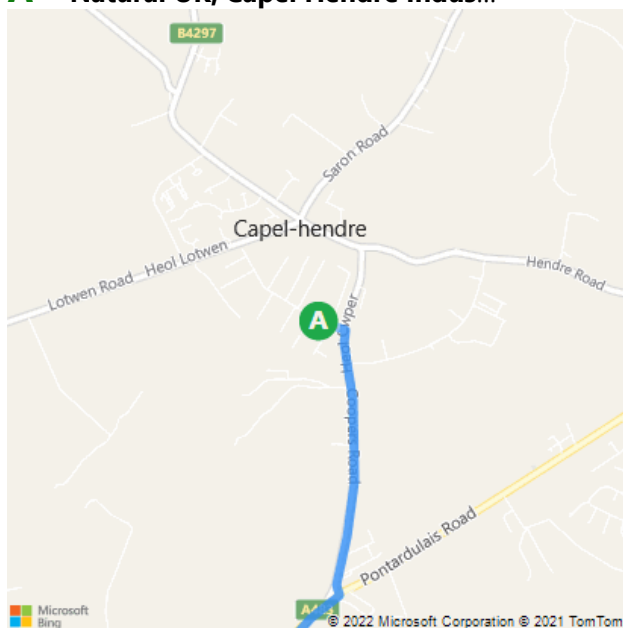
Arrive at **Alltacham Drive / Rodfa Alltacham**

16. The last junction before your destination is Brynawel
If you reach Bronywawr, you have gone too far

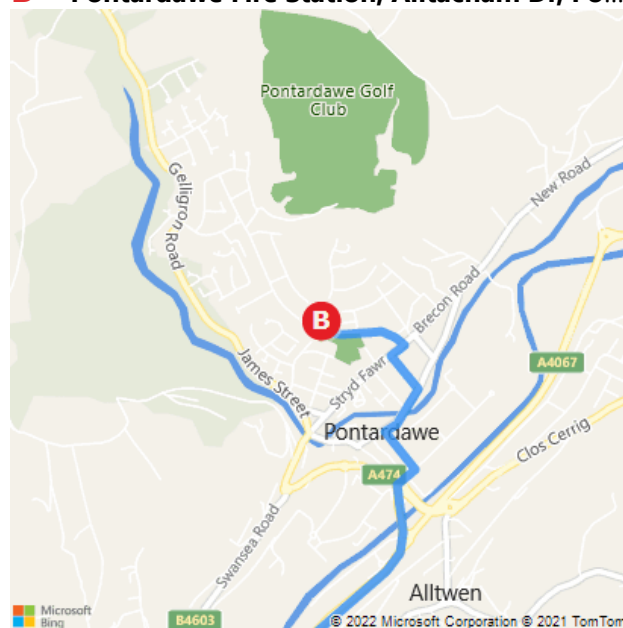
B Pontardawe Fire Station



A Natural UK, Capel Hendre Indus...



B Pontardawe Fire Station, Alltacham Dr, Po...

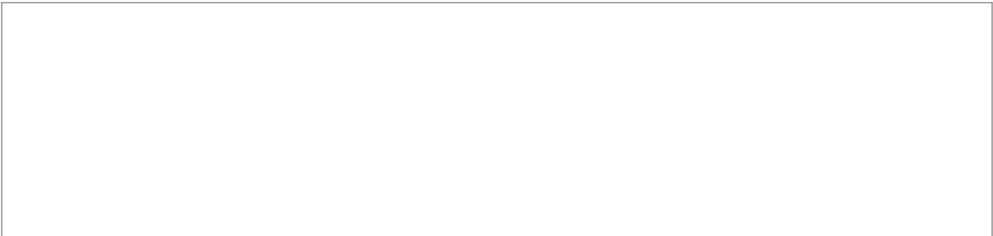


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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

22 min , 14.3 miles
Light traffic (Leave at 11:54)
Via B4306, B4317

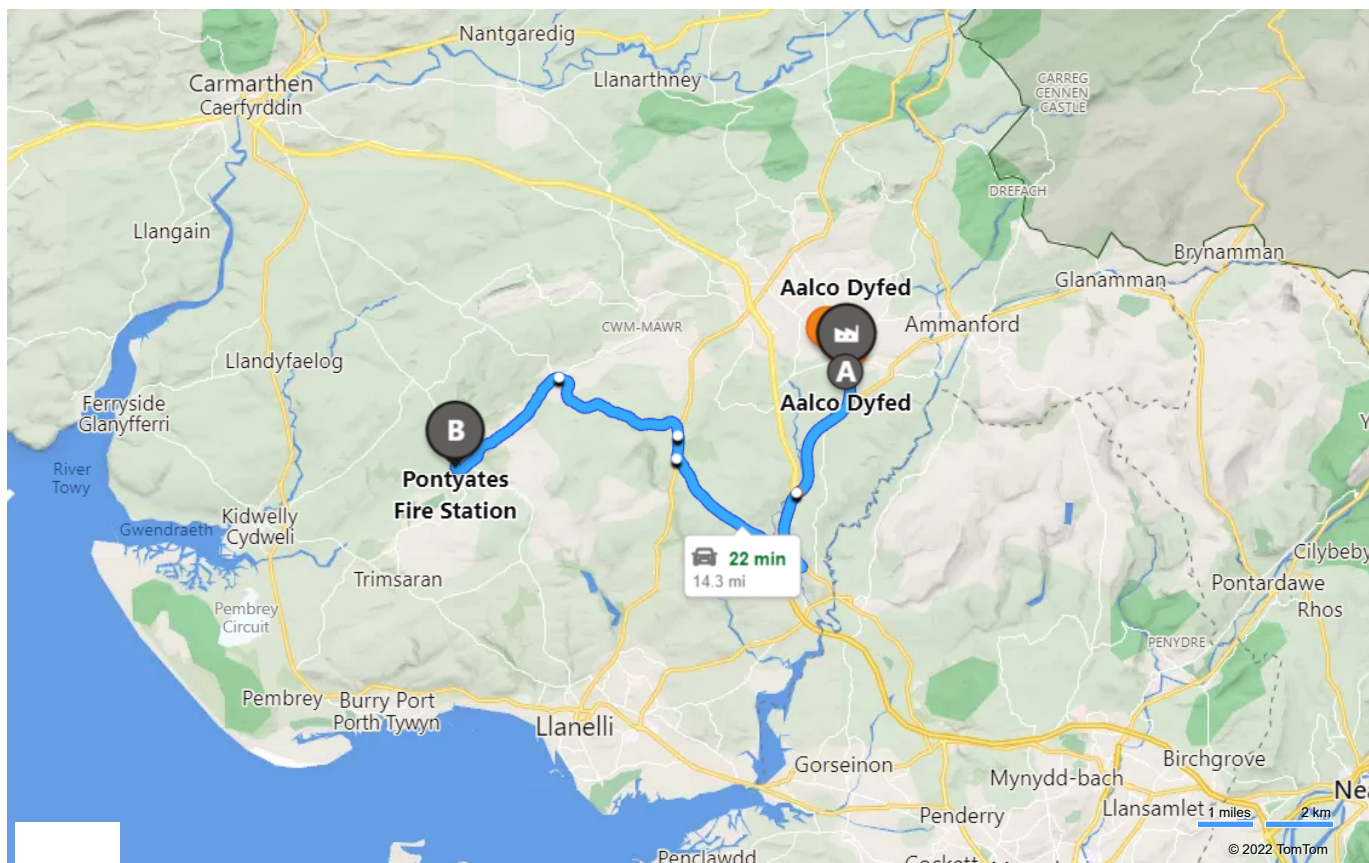
B Pontyates Fire Station, Heol Y Meinciau, Town Centre, Llanelli SA15 5TR



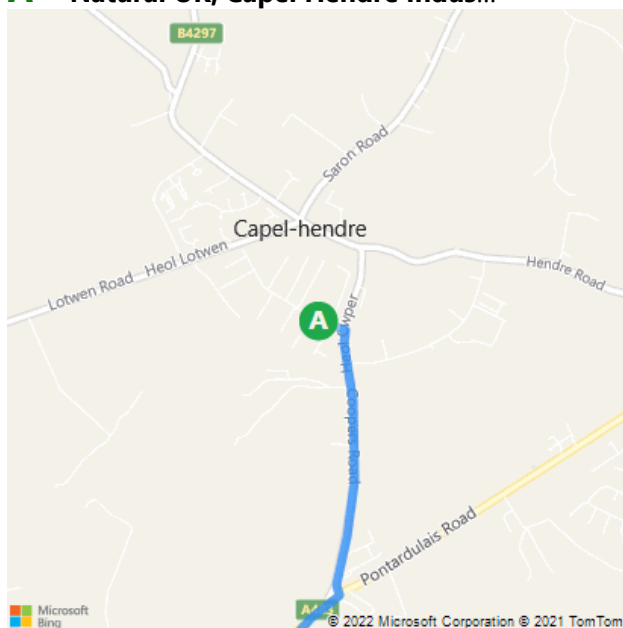
A Natural UK

↑	1.	Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
↗	2.	Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
↗	3.	Turn right onto A483 / Pontardulais Road	2.1 mi
↻	4.	At the roundabout, take the 1st exit for a48 towards Fforest / Pontarddulais / A48 ▲ Moderate Congestion	1.6 mi
↗	5.	Turn right onto Y Geibren	0.3 mi
↗	6.	Turn right onto B4306	1.4 mi
I↑	7.	Keep right to stay on B4306	1.7 mi
↗	8.	Turn right onto A476 / Morlais Road / Heol Morlais	0.5 mi
↶	9.	Turn left onto B4306	3.1 mi
↵	10.	Bear left onto B4317 / Heol Capel Ifan	2.8 mi
↗	11.	Bear right onto B4309 / Heol y Meinciau	443 ft
	12.	Arrive at B4309 / Heol y Meinciau on the right The last junction before your destination is B4317 / Heol Llanelli If you reach Heol Nazareth, you have gone too far	

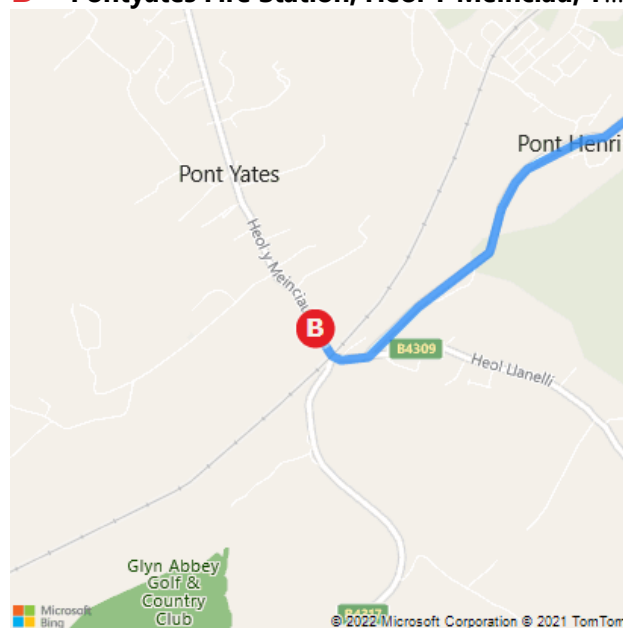
B Pontyates Fire Station



A Natural UK, Capel Hendre Indus...



B Pontyates Fire Station, Heol Y Meinciau, T...



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A Natural UK, Capel Hendre Industrial Estate, Ammanford SA18 3SJ

26 min , 15.2 miles
Light traffic (Leave at 11:59)
Via A483, M4

B Swansea West Fire Station, Sketty Lane, Swansea SA2 8QF



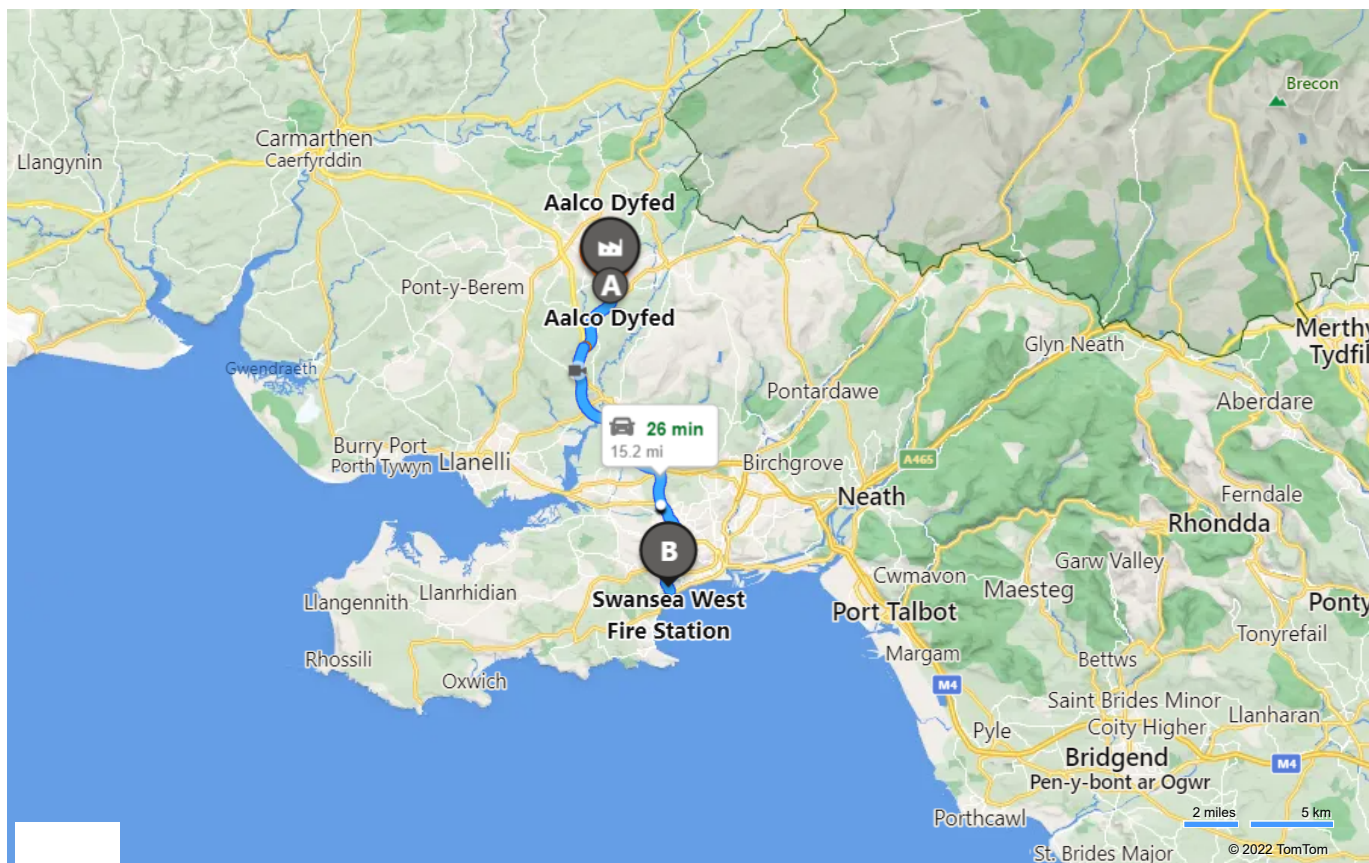
A Natural UK

	1. Depart and head towards B4297 / Heol Cwper / Coopers Road • Private Road	358 ft
	2. Turn right onto B4297 / Heol Cwper / Coopers Road	0.6 mi
	3. Turn right onto A483 / Pontardulais Road	2.1 mi
	4. At the roundabout, take the 2nd exit for M4 / e30 towards Abertawe / Caerdydd / Cardiff / Llanelli / Swansea / M4 ▲ Moderate Congestion	6.3 mi
	5. At Junction 47 , head left on the slip road for A483 / A48 towards Abertawe (Gn) / Gorseinon / Swansea (W)	0.2 mi
	6. At the roundabout, take the 4th exit for A483 towards Abertawe / Swansea / A483	1.5 mi
	7. At the roundabout, take the 1st exit	1.4 mi
	8. Turn right onto A4216 / station road / Heol Gorsaf	1.3 mi
	9. Keep right to stay on A4216 / Vivian Road	0.4 mi
	10. Turn left onto A4118 / Gower Road	0.1 mi
	11. Turn right onto De-la-Beche Road	0.3 mi
	12. Turn left onto A4216 / Sketty Park Road	0.1 mi
	13. At the roundabout, take the 1st exit	0.4 mi
	14. Turn right	154 ft
	15. Enter the roundabout	105 ft

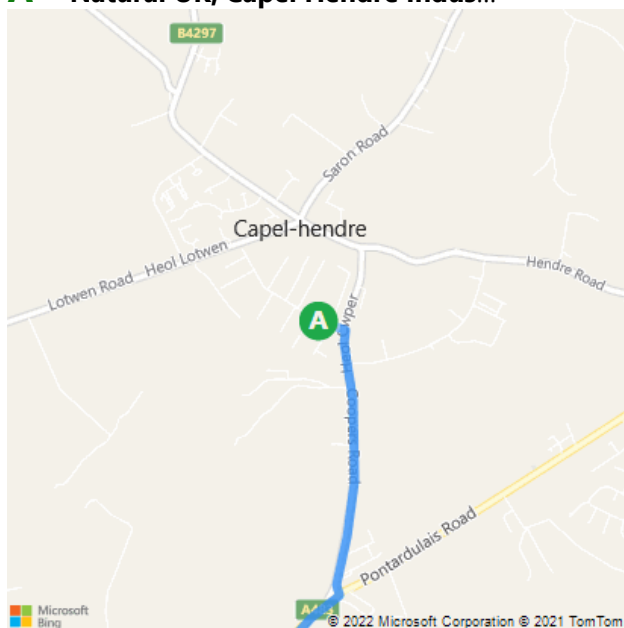
	16. Exit the roundabout at Exit 0	115 ft
	17. Turn left onto A4216 / Sketty Lane	0.2 mi
Arrive at A4216 / Sketty Lane on the left		
18.	The last junction before your destination is A4216 / Sketty Lane If you reach A4216, you have gone too far	

B

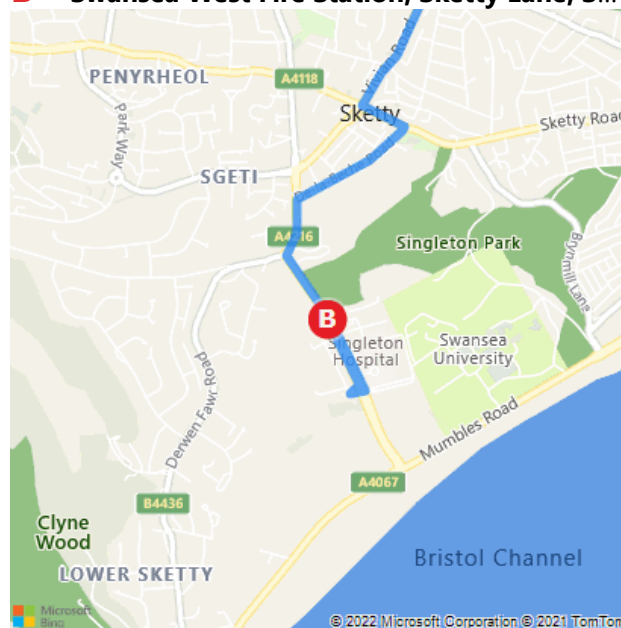
Swansea West Fire Station



A Natural UK, Capel Hendre Indus...



B Swansea West Fire Station, Sketty Lane, S...



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APPENDIX FPMP4

Emergency Contact List

Emergency Contact Information

Emergency Contacts:

Robert Poyer (Director / Site Manager) – 07980 224371

Emma Hughes (Director) – 07776 184125

Craig Masters (Project Manager) – 07971 017423

Fire/Ambulance/Police Service - 999

Natural Resources Wales - 0300 065 3000

Welsh Water – 0800 052 0130

Carmarthenshire County Council – 01267 234567

Traffic Wales: South Wales Trunk Road Agent (SWTRA) – 0300 123 1213

Potential Receptor Contacts within 1km:

Prostone Interiors – 01269 831100

Cwtsh Newydd – 01269 839793

Funtasia Day Car & Nursery (Pre-School) - 07970274319

National Cladding (Wales) – 01269 831869

Pipeworx GB Group Ltd – 01269 841666

Master Therm UK – 01269 833102

Art of Eco Limited – 01269 844412

Kayvic (Manufacturer) – 01269 844888

Unique Windows – 01269 845421

Teilo Components Limited – 01269 842800

Quinshield Limited – 01269 832220

Ofalis (Environmental Consultant) – 01269 844558

Decus Research Limited – 01269 844558

Natural Environmental Limited – 07977 514061

DCP Accountancy Limited – 07548 162457

Revs Motors Limited – 01269 268161

Aalco (Metal Supplier) – 01269 842044

Franks Gelateria – 01269 832400

Victorian Sliders – 01269 846200

Altron Communications Equipment Limited – 01269 831431

Team Precision Pipe Assemblies – 01269 844100

Mitsui Components Limited – 01269 833600

Midtec Products Limited – 01269 505715

Haydale Limited (laboratory) – 01269 842946

Edgeweld Welding & Cladding Services – 07790853281

Roberts Concrete – 01269 594687

Zoo Brew – 01269 831606

Excal Limited – 01269 831606

Thermal Earth – 01269 833100

Industrial GRP (Manufacturer) – 01269 845800

Balcas Energy (Distribution Service) – 01269 502076

RNA Plant (industrial equipment supplier) – 07971398510

Petzbedz Limited (furniture manufacturer) – 07854030076

Preventapest Limited – 01269 844503

Llys Newydd Care Home – 03339998559

Vehicle Glazing Specialists – 07772018940

Capel Hendre Post Office and Stores – 01269 841273

Debbie's Hair Care – 01269 831771

Kings Head Inn (Hotel / Pub) – 01269 842377

Welsh Dragon Stores – 01269 842620

Albert Williams (plumber) – 07854806043

Mechtricity Limited (electrical engineer) – 07581303256

DRC Electrics – 01269 833588

www.agiftforyou.co.uk – 07539 874347

Weddings & Funerals – Celebrate South Wales – 07967774689

Brynteg Garage (MOT Centre) – 01269 592655

Saron Taxis – 07788676792

KDC Hobbies – 01269 831332

Saron Primary School – 01269 591686



The 1:1 Diet – Jaimie (Weight loss service) – 07875216747

Snack Attack (Takeaway) - 07394907672



APPENDIX FPMP5

Incident Response Plan

INCIDENT RESPONSE PLAN

Introduction

The information box contains the following information to assist when responding to an incident at this facility:-

- Incident Response Plan (*this document*)
- Operational Layout Plan – **Drawing No. NU1001/03/03**
- Fire Prevention and Mitigation Infrastructure Plan **Drawing No. NU1001/03/06**

Site Description

The site comprises a Healthcare Management Facility which stores and treats absorbent hygiene products (AHPs) and clinical waste streams. In line with NRW's Fire Prevention Plan Guidance, this Incident Response Plan will focus on the storage of non-hazardous waste streams. The non-hazardous combustible waste streams stored on site include absorbent hygiene products for the Nappicycle process, as well as containerised waste for the sterilisation treatment process.

All waste streams will be stored within the site building. The non-hazardous AHP waste will be stored within a storage bay, with clinical waste being stored within containers in two designated areas. It should be noted that the clinical waste is classified as hazardous and therefore is not considered as part of this FPMP in line with NRW Guidance. The sterilisation treatment process is permitted to store and treat both hazardous and non-hazardous waste, therefore, this area has been considered in this FPMP and Incident Response Plan. Site storage arrangements are presented in **Drawing No. NU1001/03/03**.

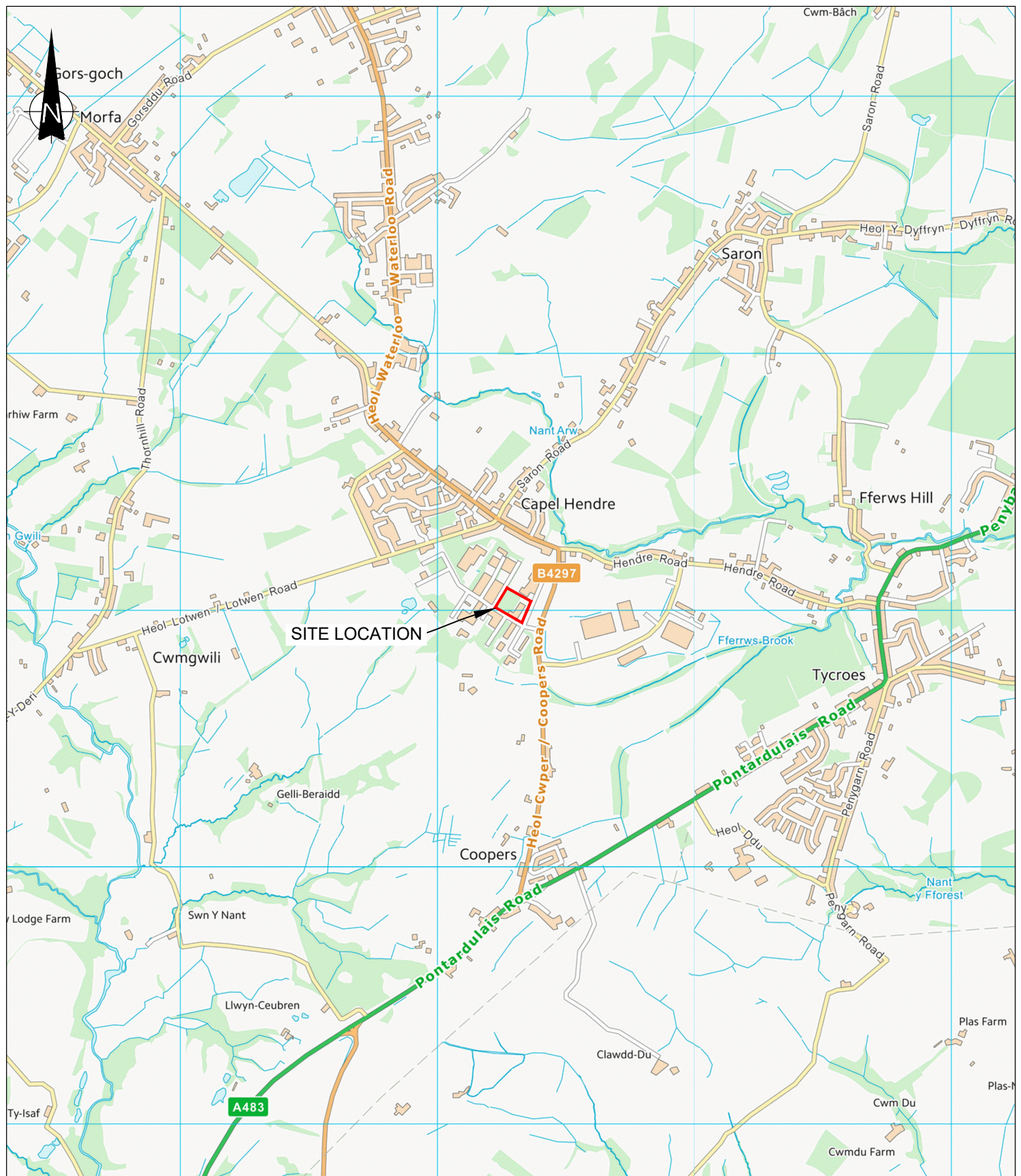
Incident Response Infrastructure/Procedures

1. **Emergency Services** – the Fire Rescue Service should be contacted for all incidents by dialling '999'.
2. **Water Supplies** –
 - **Single/Individual Bin and Other Small Fires** – Fire extinguishers and a hosepipe connected to the site mains water supply is available at the site to tackle small fires, including fires within individual bins. The position of the on-site water supply source is shown on **Drawing No. NU1001/03/06**.
 - **Larger Fires** – There are 3 water hydrants within 100m of the site building that are which are supplied by 6" mainline connections which are available to the FRS in compliance with British Standard 750. The location of each hydrant is shown on **Drawing No. NU1001/03/05**.
3. **Fire Water Management** –
 - all spent firewater must be retained within the curtilage of the site, on areas consisting of impermeable concrete pavement. Based on surface gradients, fire waters should collected within surfaced yard area adjacent to the site entrance, as shown on **Drawing No. NU1001/03/06**.

- To prevent flows off the edge of the main service yard and off the main entrance sandbags will be deployed along the points to direct flows to the appropriate container area. Pre-filled sandbags are stored adjacent to the access doors within the main building unit.
- Drain covers should be placed over all gullies and manhole covers to prevent the uncontrolled release of spent fire waters from the site. Drain covers are stored adjacent to the access doors within the main building unit.
- The deployment and storage locations of sand bags and drain covers are illustrated in **Drawing No.: NU1001/03/06**.



DRAWINGS



CLIENT



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JOB TITLE

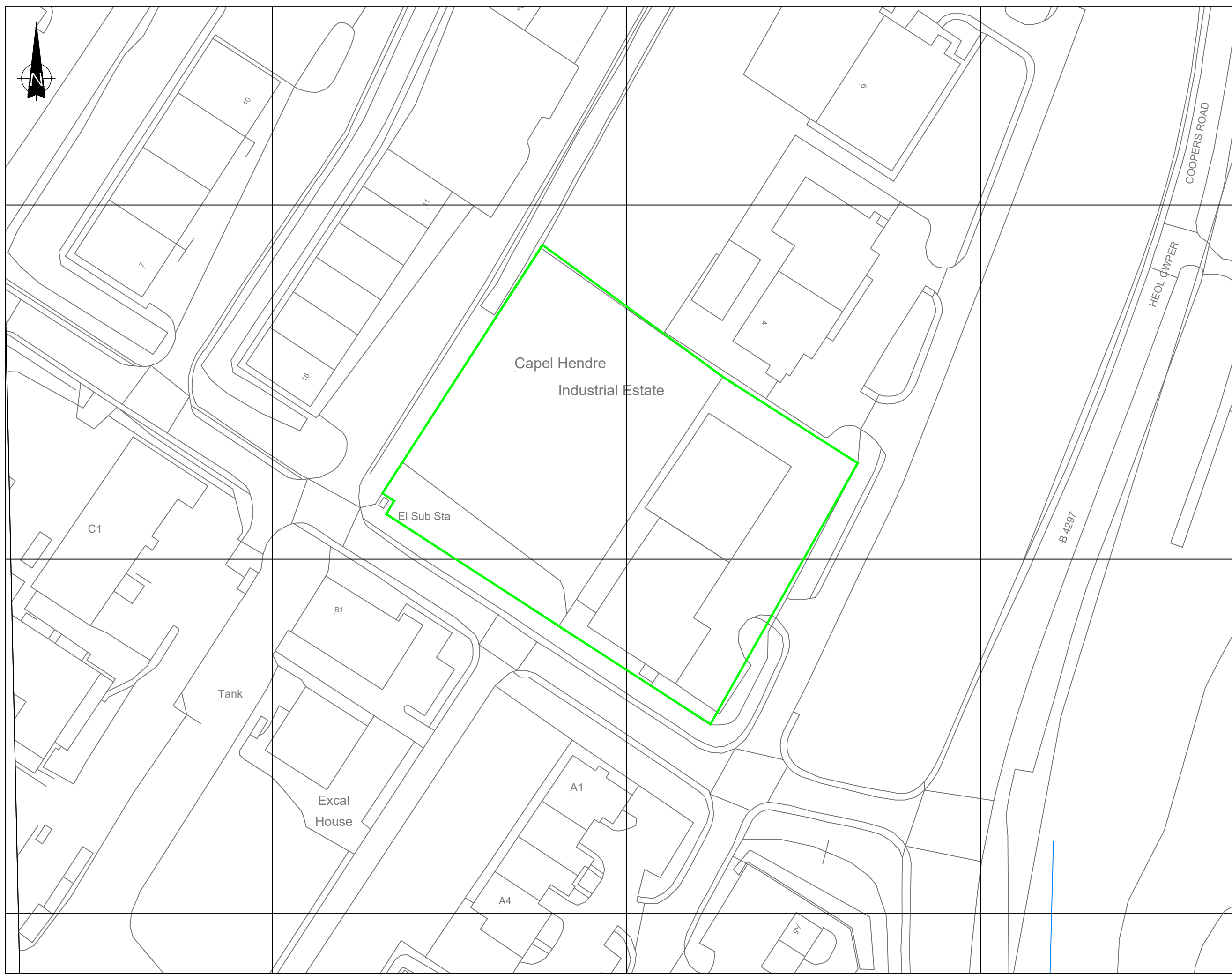
CAPTEL HENDRE HEALTHCARE MANAGEMENT FACILITY
FIRE PREVENTION AND MITIGATION PLAN

DRAWING TITLE

SITE LOCATION PLAN

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REV		DESCRIPTION		DATE	BY
DRAWN	DATE	APPROVED	DATE		
R.C	26/07/2022	D.T	26/07/2022		
SCALE	SHEET	DRAWING NUMBER	REVISION		
1:20,000	A4P	NU1001/03/01	0		



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NOTES

ENVIRONMENTAL PERMIT BOUNDARY

REV	DESCRIPTION	DATE	BY

CLIENT


environmental • healthcare • hygiene


Office Suite 2, The Beacon Centre for Enterprise, Dafen, Llanelli. SA14 8LQ. 01554 780 544

JOB TITLE

CAPEL HENDRE HEALTHCARE
MANAGEMENT FACILITY FIRE PREVENTION
AND MITIGATION PLAN

DRAWING TITLE

SITE BOUNDARIES PLAN

DRAWN	DATE	APPROVED	DATE
R.C	26/07/2022	D.T	26/07/2022

SCALE	SHEET	DRAWING NUMBER	REVISION
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NOTES

- ENVIRONMENTAL PERMIT BOUNDARY
- FLOOR TO CEILING WALLS
- ROLLER SHUTTER DOORS
- POINT SOURCE EMISSION TO AIR LOCATION (NGFR: SN 59315 10999)

A	NATURAL UK WAREHOUSE
B	ADMINISTRATION OFFICES
C	PROPOSED HAZARDOUS CLINICAL WASTE TREATMENT
D	CLINICAL WASTE TRANSFER STATION
E	AHP TREATMENT - SEPARATION & DRYING
F	AHP TREATMENT - TREATMENT PROCESS
G	AHP TREATMENT - RECEPTION & STORAGE
H	HEATING OIL TANK
1	HAZARDOUS CLINICAL WASTE TREATMENT PLANT (INDICATIVE FOOTPRINT)
2	BIN WASHER
3	WHEELIE BIN STORAGE

REV	DESCRIPTION	DATE	BY

CLIENT



Office Suite 2, The Beacon Centre for Enterprise, Dafen, Llanelli. SA14 8LQ. 01554 780 544

JOB TITLE

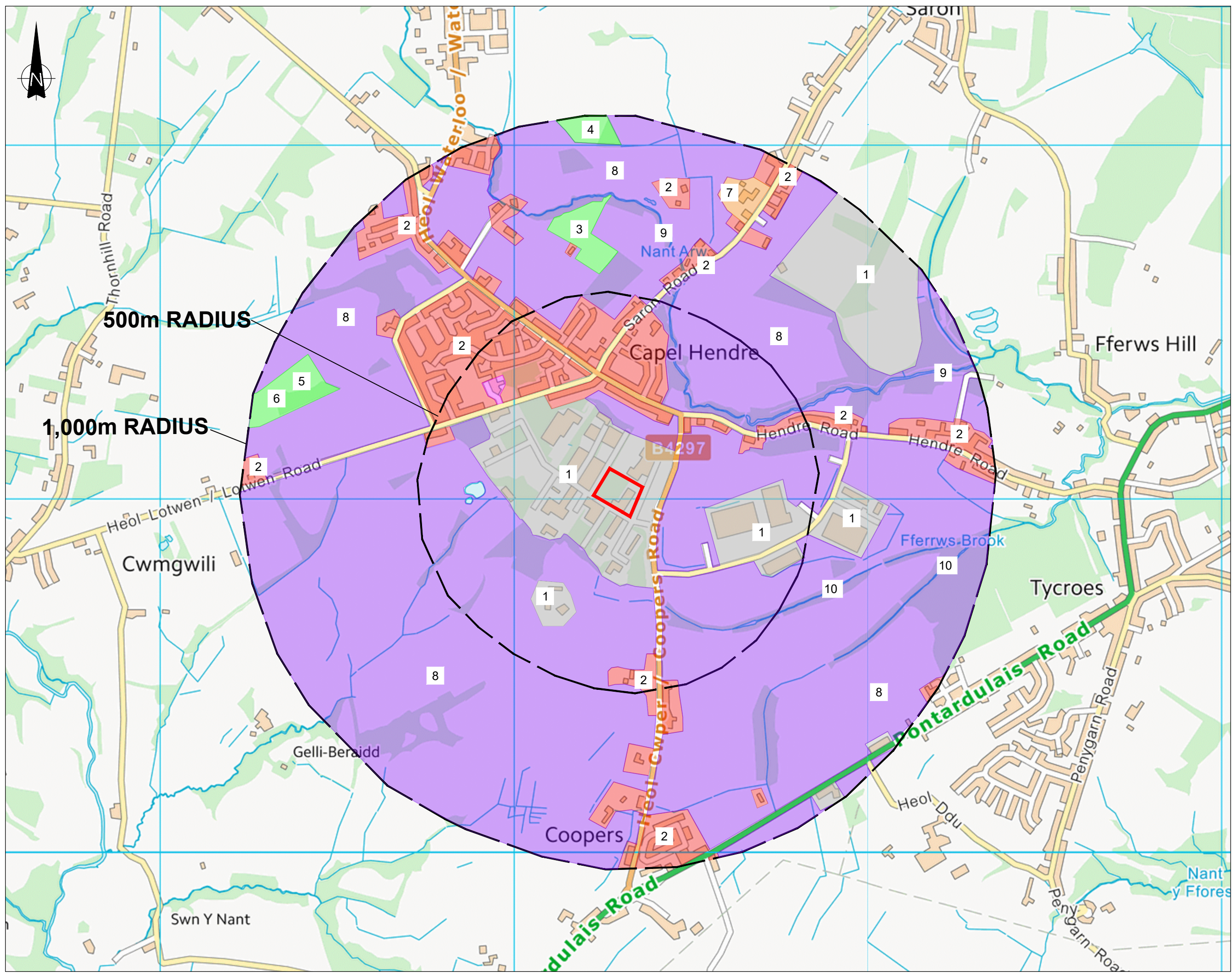
CAPEL HENDRE HEALTHCARE MANAGEMENT FACILITY FIRE PREVENTION AND MITIGATION PLAN

DRAWING TITLE

INDICATIVE OPERATIONAL LAYOUT

DRAWN	DATE	APPROVED	DATE
R.C	26/07/2022	M.G	26/07/2022

SCALE	SHEET	DRAWING NUMBER	REVISION
1:500	A3L	NU1001/03/03	0



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- NOTES**
- ENVIRONMENTAL PERMIT BOUNDARY
 - 500m & 1km SEARCH RADIUS
 - RESIDENTIAL PROPERTIES / AREAS
 - INDUSTRIAL & COMMERCIAL AREAS
 - ECOLOGICAL DESIGNATIONS
 - VEGETATED / AGRICULTURAL AREA
 - SCHOOL
 - CARE HOME
 - SURFACE WATER
 - WATERWAYS
 - CLASS 'A' PUBLIC ROAD
 - CLASS 'B' PUBLIC ROAD
 - UNCLASSIFIED PUBLIC ROAD
 - UNCLASSIFIED PUBLIC / PRIVATE ROAD

SENSITIVE RECEPTORS	
1	Industrial & Commercial Places of Work
2	Residential Areas / Properties
3	Caeau Capel Hendre SSSI
4	Caeau Blaenau-Mawr SSSI
5	Caeau Lotwen SSSI
6	Caeau Mynydd Mawr (SAC)
7	Saron Primary School
8	Vegetated and Agricultural Land
9	Nant Arw River
10	Fferws Brook
11	Llys Newydd Care Home

1	Addition of Sensitive Receptors Table and Numerical Identification	6/1/23	R.C
REV	DESCRIPTION	DATE	BY

CLIENT



environmental • healthcare • hygiene

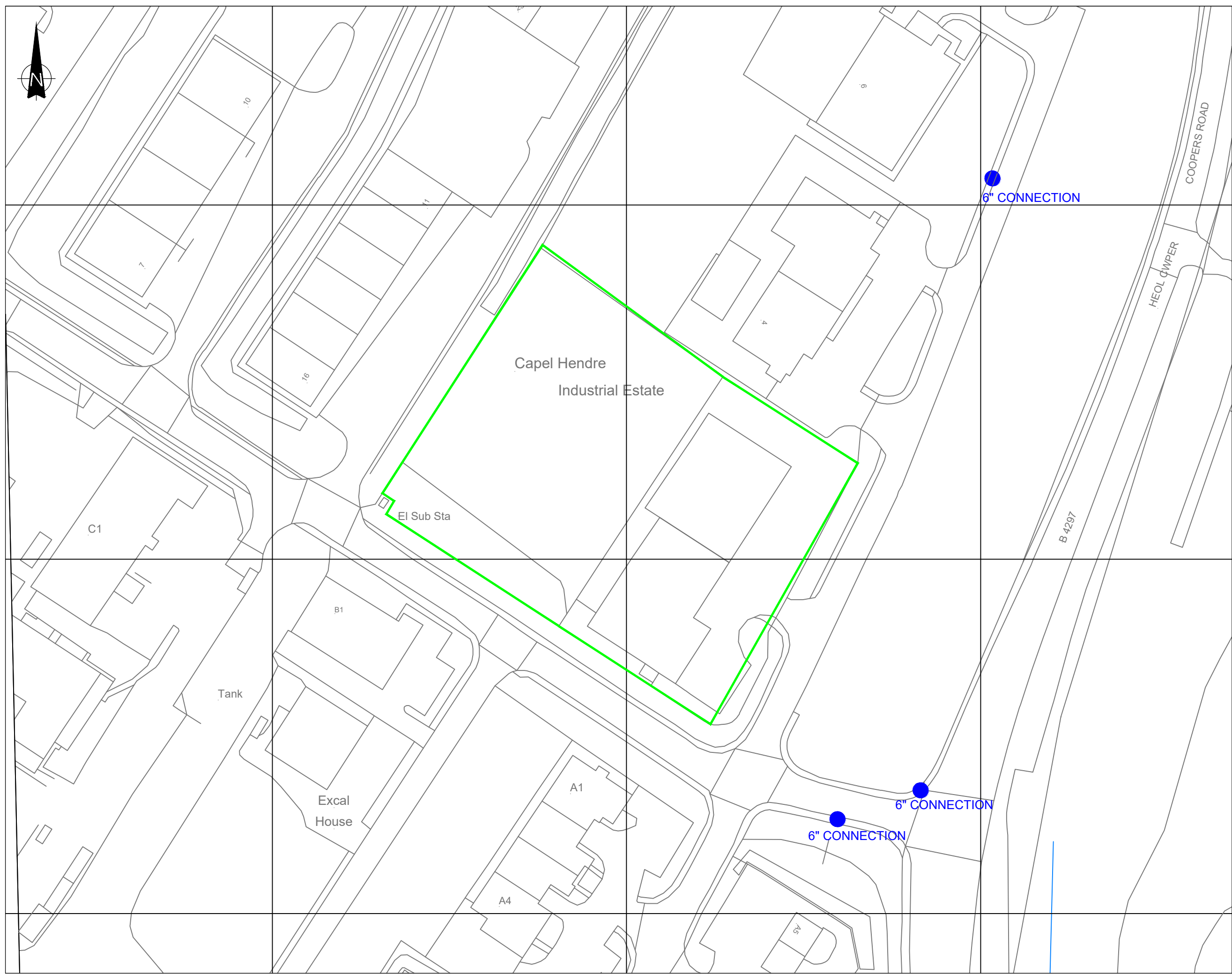


The Beacon Centre for Enterprise, Dafen, Llanelli. SA14 8LQ. 01554 780 544

JOB TITLE
CAPEL HENDRE HEALTHCARE
MANAGEMENT FACILITY FIRE PREVENTION
AND MITIGATION PLAN

DRAWING TITLE
SENSITIVE RECEPTORS PLAN

DRAWN	DATE	APPROVED	DATE
R.C	11/10/2022	D.T	11/10/2022
SCALE	SHEET	DRAWING NUMBER	REVISION
1:10,000	A3L	NU1001/03/04	1



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NOTES

- ENVIRONMENTAL PERMIT BOUNDARY
- WATER HYDRANTS WITHIN 100m OF THE SITE BUILDING

REV	DESCRIPTION	DATE	BY

CLIENT





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JOB TITLE

CAPEL HENDRE HEALTHCARE
MANAGEMENT FACILITY FIRE PREVENTION
AND MITIGATION PLAN

DRAWING TITLE

WATER HYDRANT PLAN

DRAWN	DATE	APPROVED	DATE
R.C	11/10/2022	D.T	11/10/2022

SCALE	SHEET	DRAWING NUMBER	REVISION
1:1,000	A3L	NU1001/03/05	0

